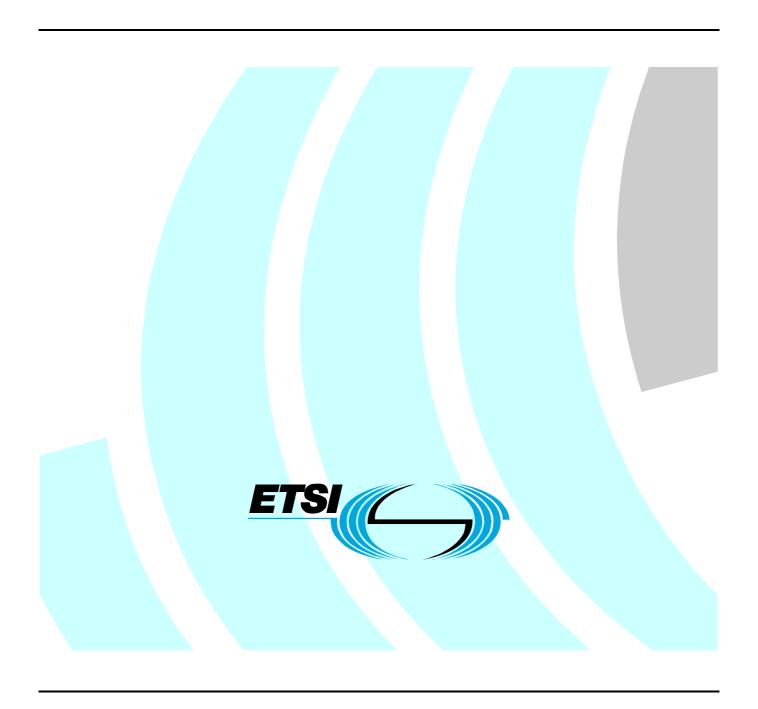
ETSITS 186 001-1 V2.2.1 (2010-07)

Technical Specification

Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN);
Network Integration Testing between SIP and ISDN/PSTN network signalling protocols;
Part 1: Test Suite Structure and Test Purposes (TSS&TP) for SIP-ISDN



Reference RTS/TISPAN-06046-1-NGN-R2

Keywords
SIP, ISDN, IMS, NIT

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Contents

Intelle	ectual Property Rights	5
Forew	vord	5
1	Scope	6
2	References	7
2.1	Normative references	
2.2	Informative references	
3	Definitions and abbreviations	11
3.1	Definitions and appreviations	
3.1.1	Conventions for representation of SIP/SDP information	
3.2	Abbreviations	
4	Test Suite Structure (TSS)	
4 4.1	Test Suite Structure (TSS)	
4.1.1	ISDN-SIP	
4.1.2	SIP-ISDN	
4.1.3	PSTN-SIP	
4.1.4	SIP-PSTN	
4.1.5	ISDN-ISDN	
5	Numbering Scheme	16
5 5.1	General description.	
5.2	Basic Call	
5.3	Supplementary Services	
	11 2	
	Test purposes	
6.1 6.1.1	ISDN - SIP	
0.1.1 6.1.1.1		
6.1.1.1 6.1.1.2		
6.1.1.3	· · · · · · · · · · · · · · · · · · ·	
6.1.1.4		
6.1.1.5		64
6.1.1.6		73
6.1.2	Test purposes for ISDN-SIP Supplementary services	
6.1.2.1		
6.1.2.2	CLIR/OIR	91
6.1.2.3	COLP/COLR (TIP/TIR)	95
6.1.2.4		
6.1.2.4		134
6.1.2.4	2 01 0 155	
6.1.2.5		
6.1.2.5		
6.1.2.5		
6.1.2.6		
6.1.2.6 6.1.2.6		
6.1.2.0 6.1.2.7		
6.1.2. <i>1</i> 6.1.2.8		
6.1.2.8 6.1.2.8	-	
6.1.2.8 6.1.2.8		
6.1.2.9		
6.1.2.1		
6.1.2.1		
6.2	Test purposes for SIP-ISDN	
6.2.1	Basic Call	
6.2.1.1	Test purposes for SIP-ISDN, Basic call, Successful 3,1 kHz audio	245

6.2.1.2	Codec negotiation	
6.2.1.3	Test purposes for SIP-ISDN, Basic call, DTMF	267
6.2.1.4	Test purposes for SIP-ISDN, Basic call, UDI	269
6.2.1.5	Test purposes for SIP-ISDN, Basic call, Unsuccessful	274
6.2.2	Test purposes for SIP - ISDN Supplementary services	289
6.2.2.1	OIP/CLIP	
6.2.2.2	OIR/CLIR	319
6.2.2.3	TIP/COLP	331
6.2.2.4	TIR/COLR	334
6.2.2.5	CFU	337
6.2.2.5.1	CFU - SIS	337
6.2.2.5.2	CFU - SII	348
6.2.2.6	CFB	360
6.2.2.6.1	CFB - SIS	
6.2.2.6.2	CFB - SII	
6.2.2.7	CFNR	
6.2.2.7.1	CFNR - SIS	393
6.2.2.7.2	CFNR - SII	
6.2.2.8	Call Deflection	429
6.2.2.8.1	CD - SIS	429
6.2.2.8.2	CD - SII	434
6.2.2.9	Three Party service 3PTY	438
6.2.2.10	TP	
6.2.2.11	CUG	444
6.2.2.12	Hold	446
6.2.2.13	CONF	452
6.2.2.14	Call waiting (CW)	459
6.2.2.15	Anonymous Call Rejection (ACR)	460
6.3	Test purposes for PSTN - SIP	461
6.3.1	Basic call	461
6.3.1.1	Basic call Successful	461
6.3.1.2	Test purposes for PSTN - SIP Basic call Unsuccessful	
6.3.2	Test purposes for PSTN - SIP Supplementary services	466
6.3.2.1	CLIP	466
6.3.2.2	CLIR	467
6.3.2.3	CFU	
6.3.2.4	CFB	475
6.3.2.5	CFNR	480
6.3.2.6	CFNL	
6.4	Test purposes for SIP-PSTN	489
6.4.1	Test purposes for SIP-PSTN, Basic call	
6.4.1.1	Test purposes for SIP-PSTN, Basic call, Successful	
6.4.1.2	Test purposes for SIP-PSTN, Basic call, Unsuccessful	
6.4.2	Test purposes for SIP - PSTN Supplementary services	
6.4.2.1	OIP/ CLIP	494
6.4.2.2	OIR/CLIR	532
6.4.2.3	CFU	
6.4.2.4	CFB	
6.4.2.5	CFNR	
6.5	ISDN-ISDN	547
Annex A	(informative): Bibliography	548
,		

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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 1 of a multi-part deliverable covering Network Integration Testing between SIP and ISDN/PSTN network signalling protocols:

- Part 1: "Test Suite Structure and Test Purposes (TSS&TP) for SIP-ISDN";
- Part 2: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification";
- Part 3: "Test Suite Structure and Test Purposes (TSS&TP) for SIP-SIP".

1 Scope

The present document specifies the Test Suite Structure and Test Purposes (TSS&TP) for Network Integration Testing (NIT) to verify the overall compatibility of SIP, ISDN and non-ISDN (PSTN) over the national or international ISDN networks. The TSS&TP specification covers the procedures described in ITU-T Recommendation Q.1912.5 [51] or EN 383 001 [49] or ES 283 027 [48] and EN 300 899-1 [23]. For SIP and SDP specific terminology, reference shall be made to ES 283 003 [42] respectively RFC 3261 [28].

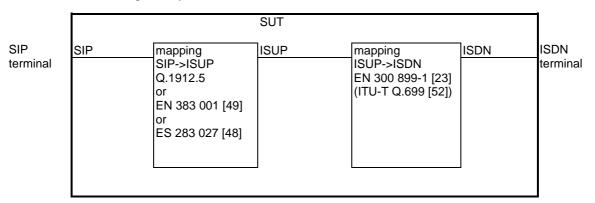


Figure 1: SIP-ISDN inter-working testing architecture

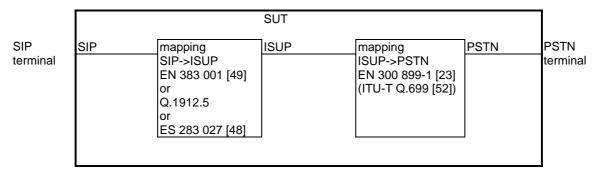


Figure 2a: SIP-PSTN inter-working testing architecture

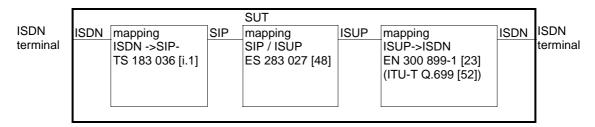


Figure 2b: ISDN-ISDN inter-working testing architecture with ISUP

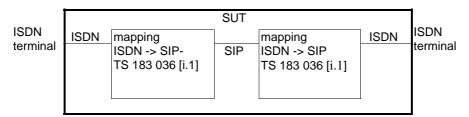


Figure 2c: ISDN-ISDN inter-working testing architecture without ISUP

2 References

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

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

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2.1 Normative references

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

[1]	Void.
[2]	ITU-T Recommendations Q.1902.2 (2001): "Bearer Independent Call Control protocol (Capability Set 2) and Signalling System No.7 ISDN User Part: General functions of messages and parameters".
[3]	Void.
[4]	Void.
[5]	Void.
[6]	Void.
[7]	Void.
[8]	Void.
[9]	Void.
[10]	Void.
[11]	Void.
[12]	Void.
[13]	Void.
[14]	ITU-T Recommendation Q.734.1 (03/93): "Stage 3 description for multiparty supplementary services using Signalling System No. 7: Conference calling".
[15]	ITU-T Recommendation Q.734.2 (07/96): "Stage 3 description for multiparty supplementary services using Signalling System No. 7: Three-party service".
[16]	Void.
[17]	Void.
[18]	Void.
[19]	Void.
[20]	Void.
[21]	Void.
[22]	ITU-T Recommendation Q.850 (05/98): "Usage of cause and location in the Digital Subscriber Signalling System No. 1 and the Signalling System No. 7 ISDN User Part".

[23]	ETSI EN 300 899-1: "Integrated Services Digital Network (ISDN); Signalling System No.7; Interworking between ISDN User Part (ISUP) version 2 and Digital Subscriber Signalling System No. one (DSS1); Part 1: Protocol specification [ITU-T Recommendation Q.699, modified]".
[24]	Void.
[25]	IETF RFC 4566 (2006): "SDP: Session Description Protocol".
[26]	IETF RFC 3966 (2004): "The tel URI for Telephone Numbers".
[27]	Void.
[28]	IETF RFC 3261 (2002): "SIP: Session Initiation Protocol".
[29]	Void.
[30]	IETF RFC 3264 (2002): "An Offer/Answer Model with the Session Description Protocol (SDP)".
[31]	IETF RFC 3311 (2002): "The Session Initiation Protocol (SIP) UPDATE Method".
[32]	IETF RFC 3312 (2002): "Integration of Resource Management and Session Initiation Protocol (SIP)".
[33]	IETF RFC 3323 (2002): "A Privacy Mechanism for the Session Initiation Protocol (SIP)".
[34]	IETF RFC 3325 (2002): "Private Extensions to the Session Initiation Protocol (SIP) for Asserted Identity within Trusted Networks".
[35]	Void.
[36]	Void.
[37]	Void.
[38]	Void.
[39]	Void.
[40]	Void.
[41]	Void.
[42]	ETSI ES 283 003: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); IP Multimedia Call Control Protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP) Stage 3 [3GPP TS 24.229 [Release 7], modified]".
[43]	ETSI TS 183 007: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); PSTN/ISDN simulation services; Originating Identification Presentation (OIP) and Originating Identification Restriction (OIR); Protocol specification".
[44]	ETSI TS 183 008: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); PSTN/ISDN simulation services Terminating Identification Presentation (TIP) and Terminating Identification Restriction (TIR); Protocol specification".
[45]	ETSI TS 183 004: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); PSTN/ISDN simulation services: Communication Diversion (CDIV); Protocol specification".
[46]	ETSI TS 183 005: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); PSTN/ISDN simulation services: Conference (CONF); Protocol specification".
[47]	Void.

- [48] 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]".
- [49] ETSI EN 383 001: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); Interworking between Session Initiation Protocol (SIP) and Bearer Independent Call Control (BICC) Protocol or ISDN User Part (ISUP) [ITU-T Recommendation Q.1912.5, modified]".
- [50] Void.
- [51] ITU-T Recommendation Q.1912.5 (2004): "Interworking between Session Initiation Protocol (SIP) and Bearer Independent Call Control Protocol or ISDN User Part".
- [52] ITU-T Recommendation Q.699 (09/97): "Interworking between ISDN access and non-ISDN access over ISDN User Part of Signalling System No. 7".
- [53] ITU-T Recommendation Q.931 (05/98): "ISDN user-network interface layer 3 specification for basic call control".
- [54] ETSI TS 134 229-1: "Universal Mobile Telecommunications System (UMTS); Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Part 1: Protocol conformance specification (3GPP TS 34.229-1 version 6.3.0 Release 6)".
- [55] ETSI TS 124 229: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Stage 3 (3GPP TS 24.229 version 7.9.0 Release 7)".
- [56] IETF RFC 2833: "RTP Payload for DTMF Digits, Telephony Tones and Telephony Signals".
- [57] ETSI EG 201 299-1: "Integrated Services Digital Network (ISDN); Network Integration Testing (NIT); ISDN/PSTN end-to-end testing; Part 1: Test Suite Structure and Test Purposes (TSS&TP) specification".

2.2 Informative references

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

- [i.1] ETSI TS 183 036: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); ISDN/SIP interworking; Protocol specification".
- [i.2] ETSI EG 201 018: "Integrated Services Digital Network (ISDN); Application of the Bearer Capability (BC), High Layer Compatibility (HLC) and Low Layer Compatibility (LLC) information elements by terminals supporting ISDN services".
- [i.3] ETSI EN 300 403-1: "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; Signalling network layer for circuit-mode basic call control; Part 1: Protocol specification [ITU-T Recommendation Q.931 (1993), modified]".
- [i.4] ETSI EN 300 093-1: "Integrated Services Digital Network (ISDN); Calling Line Identification Restriction (CLIR) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [i.5] ETSI EN 300 207-1: "Integrated Services Digital Network (ISDN); Diversion supplementary services; Digital Subscriber Signalling System No. One (DSS1); Part 1: Protocol specification".
- [i.6] ETSI EN 300 188-1: "Integrated Services Digital Network (ISDN); Three-Party (3PTY) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".

- [i.7] ETSI EN 300 141-1: "Integrated Services Digital Network (ISDN); Call Hold (HOLD) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [i.8] ETSI EN 300 185-1: "Integrated Services Digital Network (ISDN); Conference call, add-on (CONF) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [i.9] ETSI EN 300 196-1: "Integrated Services Digital Network (ISDN); Generic functional protocol for the support of supplementary services; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [i.10] ETSI EN 300 138-1: "Integrated Services Digital Network (ISDN); Closed User Group (CUG) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [i.11] ETSI TS 124 147: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); LTE; Conferencing using the IP Multimedia (IM) Core Network (CN) subsystem; Stage 3 (3GPP TS 24.147 version 9.1.0 Release 9)".
- [i.12] ETSI EN 300 001: "Attachments to the Public Switched Telephone Network (PSTN); General technical requirements for equipment connected to an analogue subscriber interface in the PSTN".
- [i.13] ETSI ETS 300 648: "Public Switched Telephone Network (PSTN); Calling Line Identification Presentation (CLIP) supplementary service; Service description".
- [i.14] ETSI EN 300 092-1: "Integrated Services Digital Network (ISDN); Calling Line Identification Presentation (CLIP) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [i.15] ETSI EN 300 659: "Access and Terminals (AT); Analogue access to the Public Switched Telephone Network (PSTN); Subscriber line protocol over the local loop for display (and related) services".
- [i.16] ETSI TBR 008: "Integrated Services Digital Network (ISDN); Telephony 3,1 kHz teleservice; Attachment requirements for handset terminals".
- [i.17] ITU-T Recommendation Q.951: "Stage 3 description for number identification supplementary services using DSS 1".
- [i.18] ITU-T Recommendation Q.939: "Typical DSS 1 service indicator codings for ISDN telecommunications services".
- [i.19] ETSI TS 183 028: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); Common Basic Communication procedures; Protocol specification".
- [i.20] ETSI TS 129 163: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); LTE; Interworking between the IP Multimedia (IM) Core Network (CN) subsystem and Circuit Switched (CS) networks (3GPP TS 29.163 version 9.1.0 Release 9)".
- [i.21] ISO/IEC 9646 (1994): "Information technology Open Systems Interconnection -Conformance testing methodology and framework".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the following terms and definitions apply:

For BICC or ISUP specific terminology, reference shall be made to ITU-T Recommendation Q.1902.2 [2]. For SIP and SDP specific terminology, reference shall be made to RFC 3261 [28] and RFC 4566 [25] respectively. Definitions for additional terminology used in this interworking Recommendation are as follows:

Adjacent SIP Node (ASN): SIP node (e.g. SIP Proxy or Back-to-Back User Agent or the SIP side of an IWU) that has established a direct trust relation (association) with Incoming or Outgoing IWU entities

NOTE: The SIP Proxy and Back-to-Back User Agent are defined in accordance with RFC 3261 [28].

Basic Call Control (BCC): signalling protocol associated with the DSS1 - ISDN Basic Call control procedures of ITU-T recommendation Q.931 [53] (EN 300 403-1 [i.3])

incoming or outgoing: direction of a call (not signalling information) with respect to a reference point

Incoming Interworking Unit (I-IWU): physical entity, (which can be combined with a BICC ISN or ISUPexchange) that terminates incoming calls using SIP and originates outgoing calls using the BICC or ISUP protocols

incoming SIP or BICC/ISUP (network): network, from which the incoming calls are received, that uses the SIP or BICC/ISUP protocol (without the term "network", it simply refers to the protocol)

inopportune: specifies a test purpose covering a signalling procedure where an inopportune message (type of message not expected in the IUT current state) is sent to the IUT

Outgoing Interworking Unit (O-IWU): physical entity, (which can be combined with a BICC ISN or ISUP exchange) that terminates incoming calls using BICC or ISUP protocols and originates outgoing calls using the SIP

outgoing SIP or BICC/ISUP (network): network, to which the outgoing calls are sent, that uses the SIP or BICC/ISDN protocol

NOTE: Without the term "network", it simply refers to the protocol.

SIP precondition: indicates the support of the SIP "precondition procedure" as defined in RFC 3312 [32]

syntactically invalid: specifies a test purpose covering a signalling procedure where a valid (expected in the current status of the IUT) but not correctly encoded (unknown or incorrect parameter values) message is sent to the IUT, wSIch shall react correctly and eventually reject the message

test purpose: non-formal test description, mainly using text

NOTE: TSIs test description can be used as the basis for a formal test specification (e.g. Abstract Test Suite in TTCN). See ISO/IEC 9646 [i.21].

valid: specifies a test purpose covering a signalling procedure where all the messages sent to or received from the IUT are valid (expected in the current status of the IUT) and correctly encoded

3.1.1 Conventions for representation of SIP/SDP information

1) All letters of SIP method names are capitalized.

EXAMPLE 1: INVITE, INFO.

2) SIP header fields are identified by the unabbreviated header field name as defined in the relevant RFC, including capitalization and enclosed hyphens but excluding the following colon.

EXAMPLE 2: To, From, Call-ID.

3) Where it is necessary to refer with finer granularity to components of a SIP message, the component concerned is identified by the ABNF rule name used to designate it in the defining RFC (generally 25/RFC 3261 [28]), in plain text without surrounding angle brackets.

EXAMPLE 3: Request-URI, the user info portion of a sip: URI.

4) URI types are represented by the lower-case type identifier followed by a colon and the abbreviation "URI"

EXAMPLE 4: sip: URI, tel: URI.

5) SIP provisional responses and final responses other than 2XX are represented by the status code followed by the normal reason phrase for that status code, with initial letters capitalized.

EXAMPLE 5: 100 Trying, 484 Address Incomplete.

6) Because of potential ambiguity within a call flow about which request a 200 OK final response answers, 200 OK is always followed by the method name of the request.

EXAMPLE 6: 200 OK INVITE, 200 OK PRACK.

7) A particular line of an SDP session description is identified by the two initial characters of the line -- that is, the line type character followed by "="

EXAMPLE 7: m=line, a=line.

8) Where it is necessary to refer with finer granularity to components of a session description, the component concerned is identified by its rule name in the ABNF description of the SDP line concerned, delimited with angle brackets.

EXAMPLE 8: the <media> and <fmt> components of the m= line.

3.2 Abbreviations

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

ATS Abstract tests suite
CFNR Call forwarding no reply
CFU Call Forwarding Unconditional
COLR Called Line Identification Restriction

GW GateWay I Inopportune

ISDN Integrated Services Digital Network

IUT Implementation Under Test
NIT Network integration testing

OIR Originating Identification presentation Restriction

PER Packed Encoding Rules

PICS Protocol Implementation Conformance Statement
PIXIT Protocol Implementation eXtra Information for Testing

PSTN Public Switched Telephone Network

QoS Quality of service
S Syntactically invalid
SIP Session Initiation Protocol

TP Test Purpose
TSS Test Suite Structure

V Valid

4 Test Suite Structure (TSS)

4.1 Test Suite Structure (TSS)

4.1.1 ISDN-SIP

C - Plane / U - Pla	ane		
Basic_Call	Successful	Voice	IS_XX_xx
		Codec	IS_CN_xx
		negotiation	
		Update Tests	IS_XX_UP_xx
		DTMF	IS_DTMF_xx
		UDI	IS_UD_xx
C - Plane	Unsuccessful		IS_XX_Uxx
Supplementary			
Services		CLIP	IS_XXSSCLIPxx
		CLIR	IS_XXSSCLIRxx
		COLP/COLR	IS_XXSSCOLPxx
		(TIP/TIR)	
		CFU	ISI_XXSSCFUxx
			ISS_XXSSCFUxx
		CFB	ISI_XXSSCFBxx
			ISS_XXSSCFBxx
		CFNR	ISI_XXSSCFNRxx
			ISS_XXSSCFNRx
		CFNL	ISS_XXSSCFNLxx
		3PTY	ISI_XXSS3PTYxx
			ISS_XXSS3PTYxx
		HOLD	ISI_XXSSHOLDxx
		CONF	IS_XXSSCONFxx

4.1.2 SIP-ISDN

C - Plane / U - Plane	0 ()	0.4111	01.411
Basic_Call	Successful	3,1 kHz audio	SI_AU_xx
		Codec negotiation	SI_XX_CN_xx
		DTMF	SI_XX_DT_xx
		UDI	SI_UD_xx
C - Plane	Unsuccessful		SI_XX _Uxx
Supplementary	Cricacocciai	<u> </u>	01_707 _0707
Services		CLIP	SI_XXSSOIPxx
<u> </u>		CLIR	SI_XXSSOIRxx
		COLP/COLR (TIP/TIR)	SI_XXSSCOLPxx
		CFU	SIS_XXSSCFUxx
			SII_XXSSCFUxx
		CFB	SIS_XXSSCFBxx
			SII_XXSSCFBxx
		CFNR	SIS_XXSSCFNRxx
			SII_XXSSCFNRxx
		3PTY	SII_XXSS3PTYXX
			SIS_XXSS3PTYXX
		TP	SI_XXSSTPxx
		CUG	SI_XXSSCUGxx
		HOLD	SI_XXSSHOLDxx
		CONF	SI_XXSSCONFxx
		CW	SI_XXSSCWxx
		ACR	SI XXSSACRxx

4.1.3 PSTN-SIP

C - Plane / U - Plane			
Basic_Call	Successful		PS_AU_Xxx
C - Plane	Unsuccessful		PS_AU_Uxx
Supplementary			
Services		CLIP	PS_XXSSCLIPxx
·		CLIR	PS_XXSSCLIRxx
		CFU	PSP_XXSSCFUxx
			PSS_XXSSCFUxx
		CFB	PSP_XXSSCFBxx
			PSS XXSSCFBxx
		CFNR	PSP XXSSCFNRxx
			PSS XXSSCFNRxx
		CFNL	PSP XXSSCFNLxx

4.1.4 SIP-PSTN

C - Plane / U - Plane			
Basic_Call	Successful	3,1 kHz audio	SP_AU_xx
		•	
	Unsuccessful		SP_XX_Uxx
Supplementary			
Services		CLIP	SP_XXSSCLIPxx
		CLIR	SP_XXSSCLIRxx
		CFU	SPS_XXSSCFUxx
			SPP_XXSSCFUxx
		CFB	SP_XXSSCFBxx
			SPP_XXSSCFBxx
		CFNR	SPS_XXSSCFNRxx
			SPP_XXSSCFNRxx

4.1.5 ISDN-ISDN

ISDN-ISDN	Basic_Call (1)	Successful (1)	Speech	1101xx
	, ,		UDI	1102xx
			Audio	1103xx
			UDI-TA	1104xx
		Unsuccessful (2)	Speech	1201xx
		,	UDI	1202xx
			Audio	1203xx
			UDI-TA	1204xx
	Supplementary			
	Services (2)		CLIP	2101xx
			CLIR	2102xx
			COLP	2103xx
			COLR	2104xx
			CUG	2105xx
			SUB	2106xx
			TP	2107xx
			UUS	2108xx
			CONF	2109xx
			CFU	2111xx
			CFB	2112xx
			CFNR	2113xx
			CD	2114xx
			FPH	2115xx
			MCID	2116xx
			3PTY	2117xx
			HOLD	2118xx
			CW	2119xx
			ECT	2120xx
			CCBS	2121xx
			CCNR	2122xx
			Comb	2123xx
			DDI	2124xx
	B-channel (3)	(0)	Speech	3001xx
			UDI	3002xx
			Audio	3003xx
			UDI-TA	3004xx

5 Numbering Scheme

5.1 General description

Pos 1: Network of the A-Subscriber.

Pos. 2: Network of the B-Subscriber.

Pos. 3: Network of the C-Subscriber.

Pos. 4: Network of the D-Subscriber.

Pos. 5: Network of the E-Subscriber.

The following Network Codes apply:

_: No such network used (used e.g. for C-Subscriber in successful A to B Calls)

(underscore makes it easier to read the name)

P: PSTN

I: ISDN

S: SIP

(Extensions will be added when needed)

Pos. 6 and 7: Bearer- or Teleservice involved

XX: defined per PIXIT value

NOTE: TSIs may be appropriate for Test Purposes (provided the Test Purpose states for wSIch Bearer- and/or

Tele Services it should be tested). It is however NOT appropriate for Test Cases since it would be

detrimental to Test Automation.

SP: Speech

AU: 3,1 kHz Audio

UD: UDI

UT: UDI/TA

CN: Codec negotiation

DT: DTMF

UP: UPDATE Method

Pos. 8 and 9:

_: No Supplementary Services Involved / Successful

_U: No Supplementary Services Involved / Unsuccessful

SS: Supplementary Services Involved

SI: Supplementary Services interaction

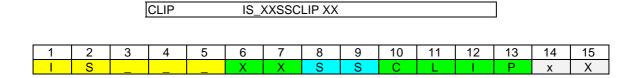
SN: Nonsymmetrical Supplementary Services Involved

ST: Supplementary Services transparent

5.2 Basic Call

	Speech	1	IS_X	XX_XX]
1	2	3	4	5	6	7	8	9	10	11
ı	S	_	-	_	S	P			X	X

5.3 Supplementary Services



6 Test purposes

The registration and application usage procedures in the ATS shall be compliant to RFC 3261 [28] and ES 283 003 [42] (modified 3GPP TS 24.229). The validation of the registration procedure is out of scope of the present document and is part of the Preamble used in the test cases.

The registration conformance tests based on 3GPP TS 24.229 [55] described in 3GPP TS 34.229-1 [54].

The preconditions mechanism shall be supported by the UE in case of supporting IMS.

The handling of preconditions at the originating or /and terminating UE (MGCF in case if interworking) is described in the following table.

	PIXIT Values		
	UE (MGCF) originating case	UE (MGCF) te	erminating case
VA	precondition" option-tag in the Supported header	local resource reservation is required at the terminating UE	local resource reservation is not required by the terminating UE and the terminating UE supports the precondition mechanism
VA_1	"precondition" option-tag in the Supported header	the terminating UE shall make use of the precondition mechanism	
VA_2.1	"precondition" option-tag in the Supported header and required resources at the originating network are not reserved	the terminating UE shall make use of the precondition mechanism	
VA_2.2	"precondition" option-tag in the Supported header and required resources at the originating network are not reserved		the terminating UE shall use the precondition mechanism
VA_3.1	"precondition" option-tag in the Supported header and required local resources at the originating network	the terminating UE shall make use of the precondition mechanism	
VA_3.2	"precondition" option-tag in the Supported header and required local resources at the originating network		the required local resources at the originating UE and the terminating UE are available, the terminating UE may use the precondition mechanism
VA_4.1	INVITE request does not include the "precondition" option-tag in the Supported header	the terminating UE shall not make use of the precondition mechanism.	
VA_4.2	INVITE request does not include the "precondition" option-tag in the Supported header		the terminating UE shall not make use of the precondition mechanism.

Dial string parameters options

	To header field- UE originated
VA_5.1	sip: dialled digits@homehostportion;user=dialstring
VA_5.2	sip: dialled digits@homehostportion;user=phone
VA_5.3	sip: dialled digits; phone-context=<"+"CC>@homehostportion;user=phone
VA_5.3	sip: dialled digits; phone-context=<"+"CC+NDC>@homehostportion;user=phone

	Request-URI
VA_6.1	E164 Address
	(format "+"CC+NDC+SN)
	(e.g. as User info in SIP URI with user= phone, or as tel URI)

6.1 ISDN - SIP

6.1.1 Basic Call

6.1.1.1 Test purposes for ISDN-SIP Basic call Successful - Speech or 3,1 kHz audio

Successful	
Speech or 3,1 kHz audio cal	s

IS_XX_01 TSS reference:	ISDN reference to: EN 300 403-1 [i.3], clause 5.1.5.1 EN 300 899-1 [23], clause 2.1.1 ISDN-SIP/Basic_call/Successful/Voice			NGN reference to: Q.1912.5 [51], clause 7.1.1 EN 383 001 [49], clause 7.1.1 ES 283 027 [48], clause 7.2.3.2			
Selection criteria:		call/Succ	essiui/voice	;			
Test purpose:	Ensure that in the	active c	all state (N1	0) the voice trar		performed correctly. the media and B-channels	
	is performed corr The call is release At the call establi	ed from t	he calling u	ser.	1 can b	e used.	
ISDN Parameter values:	BC=PIXIT, no HL		•				
SIP Parameter values:		·	ions=PIXIT				
	TYPE_SDP= PIX						
		rel rted: 100		condition			
Comments:	Case of Cappe	1100. 100	rorana proc	oridition			
Commonto.	ISDN			SUT		SIP	
	Case a)		`	301		C.I.	
	SETUP	→			→	INVITE	
	CALL PROC	+			1	1144112	
	ALERTING	+			+	180 Ringing	
	CONN	+			+	200 OK INVITE	
	CONN				→	ACK	
			Con	ersation		ACK	
	DISC	→	CONV	ersalion	→	BYE	
	REL	+			+	200 OK BYE	
	Case b) IMS				_	200 OK BTE	
	with 100 rel						
	SETUP	→			→	INVITE	
	CALL PROC	+			7	INVITE	
	ALERTING	+			+	100 Dinging	
	ALERTING					180 Ringing	
					→	PRACK	
	CONINI	+			+	200 OK INVITE	
	CONN					200 OK INVITE	
					→	ACK	
	DICC		Conv	ersation		DVE	
	DISC	→	1		→	BYE	
	REL	+	1		+	200 OK BYE	
	Case c) IMS	 	1		 	IND CITE	
	SETUP	→			→	INVITE	
	CALL PROC	+			+	183 Session Progress	
			1		→	PRACK	
					+	200 OK	
					→	UPDATE	
					+	200 OK	
	ALERTING	+			+	180 Ringing	
					→	PRACK	

			-	200 OK
CONN	+		+	200 OK INVITE
			→	ACK
		Conversation		
DISC	→		→	BYE
REL	+		+	200 OK BYE

IS_XX_02	ISDN reference	to:		NGN refe	erence to:
10_XX_02	EN 300 403-1 [i.3], clause 5.1.5.1 Q.1912.5 [51], clause 7.3.1				
	EN 300 899-1 [23], cla				9], clause 7.3.1
				-	, clause 7.2.3.2.5
TSS reference:	ISDN-SIP/Basic_call/Si	uccessful/	Voice		
Selection criteria:	Basic_call, SIP Profile	A or EN 3	83 001 [49] Profile	B or ES 2	83 027 [48];
Test purpose:	Ensure that call establish				
	Ensure that the ISDN u				
				nd-to-end	ISDN (#1)" when the SIP
	user answers with 180			,	a
	Ensure that in the activ B-channels is performe				
	The call is released from	m the call	y (e.g. lesting Qus ed user	paramete	15).
ISDN Parameter	BC=PIXIT, no HLC	in the can	eu user.		
values:	DO-1 IXIT, NOTICO				
SIP Parameter values:	Dial string parameters	options=P	IXIT		
	TYPE_SDP= PIXIT;				
	PIXIT for supported hea	ader:			
	Case a) no 100 rel Case b) Supported: 100	0 د ما			
	Case c) Supported: 100		precondition		
Comments:	Case c) Supported. 100	o ici ana p	recondition		
Comments.	ISDN		SUT		SIP
	Case a)				0
	SETUP	→		→	INVITE
	CALL PROC	+			
	ALERTING	+		+	180 Ringing
	PI #1				
	CONN	+		+	200 OK INVITE
				→	ACK
	DIOC		Conversation		5)(5
	DISC	(-	BYE
	REL	→		→	200 OK BYE
	Case c)				
	Case c) SETUP	→		→	INVITE
	CALL PROC	+		7	HIVIIE
	OALL I NOO				
				+	183 Session Progress
				→	PRACK
				+	200 OK
				→	UPDATE
				+	200 OK
	ALERTING PI #1	+		+	180 Ringing
				→	PRACK
				+	200 OK
	CONN	+		+	200 OK INVITE
				→	ACK
	DICC		Conversation		D) (E
	DISC	(+	BYE
	REL	→		→	200 OK BYE

IS_XX_02A	ISDN reference EN 300 403-1 [i.3],cla EN 300 899-1 [23], c	1 EN 3 ES 283	EN 383 001 [49], clause 7.3.1 ES 283 027 [48], clause 7.2.3.2.5			
TSS reference:	ISDN-SIP/Basic_call/S		/Voice			
Selection criteria:	Basic_call, ES 283 02					
Test purpose:	Ensure that call estab P-Early-Media header indication received. Ensure that the ISDN the SIP user answers Ensure that in the act B-channels is perform The call is released fr	user in the with 183 S ive call sta ned correct	e state U3 does not Session Progress. te (N10) the voice to ly (e.g. testing QoS	receive a	Progress message when the media and	
ISDN Parameter	BC=PIXIT, no HLC					
values:	·					
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition					
Comments:		1				
	ISDN		SUT		SIP	
	Case a)					
	SETUP	→		→	INVITE	
	CALL PROC	+				
				+	183 Session Progress	
	ALERTING	+		+	180 Ringing	
	PI #1					
	CONN	+		+	200 OK INVITE	
				→	ACK	
			Conversation			
	DISC	+		+	BYE	
	REL	→		→	200 OK BYE	
	1122	-			200 01(2)2	
	Case c)					
	SETUP	→		→	INVITE	
	CALL PROC	+				
				+	183 Session Progress	
				→	PRACK	
				+	200 OK	
				→ ·	UPDATE	
				+	200 OK	
	ALERTING PI #1	+		+	180 Ringing	
	/	+ - + -		→	PRACK	
				+	200 OK	
	CONN	+		+	200 OK INVITE	
	COIVIV	+ +		→	ACK	
			Conversation		AON	
	DISC	+	CONVENSATION	+	BYE	
	REL	→ ·		→ ·	200 OK BYE	
	KEL	7		7	ZUU UN DIE	

IS_XX_02B	ISDN referen EN 300 403-1 [i.3], c			reference to: [48], clause 7.2.3.2.5			
	EN 300 899-1 [23],	clause 2.1.1					
TSS reference:	ISDN-SIP/Basic_call/S						
Selection criteria:	Basic_call, ES 283 027 network	7 [48]; <i>P-Early-l</i>	<i>l</i> ledia header suppor	ted and inserted by the			
Test purpose:	Ensure that call establishment using overlap sending is performed correctly. P-Early-Media header supported. Ensure that the ISDN user in the state U2 receive a Call Proceeding message when the SIP user answers with 183 Session Progress and P-Early-Media header supported and inserted by the network. Ensure that in the active call state (N10) the voice transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters).						
	The call is released fro	om the called us	ser.	,			
ISDN Parameter values:	BC=PIXIT, no HLC						
SIP Parameter values: Comments:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition						
	ISDN		SUT	SIP			
	Case a)						
	SETUP	→	→	INVITE			
	CALL PROC PI #8 ← 183 Session Progress						
	ALERTING ← 180 Ringing						
	CONN	+	+	200 OK INVITE			
			→	ACK			
		Cor	nversation				
	DISC	+	+	BYE			
	REL	→	→	200 OK BYE			

IS_XX_02C	ISDN reference to:					
	EN 300 403-1 [i.3], clause 5.1. EN 300 899-1 [23], clause 2.					
	EN 300 699-1 [25], Clause 2.			l, clause 7.2.3.2.5		
TSS reference:	ISDN-SIP/Basic_call/Successf			,		
Selection criteria:	Basic_call, ES 283 027 [48]; P		der supporte	d and inserted by the		
	network					
Test purpose:	Ensure that call establishment					
	P-Early-Media header suppor Ensure that the ISDN user in the					
	user answers with 183 Session		res a Progress	s message when the Sir		
	Ensure that in the active call st		ce transfer on	the media and B-channels		
	is performed correctly (e.g. tes					
	The call is released from the c	alled user.				
ISDN Parameter	BC=PIXIT, no HLC					
values:	Dieletiine a series series series	DIVIT				
SIP Parameter values:	Dial string parameters options:	=PIXII				
	TYPE_SDP= PIXIT;					
	2_051 = 1 15411,					
	PIXIT for supported header:					
	Case a) no 100 rel					
	Case b) Supported: 100 rel	1 156				
Commonto	Case c) Supported: 100 rel and	a precondition				
Comments:	ISDN	SUT		SIP		
	Case a)	001		311		
	SETUP →		→	INVITE		
	CALL PROC					
	PROGRESS ←		+	183 Session Progress		
	PI#8					
	ALERTING		+	180 Ringing		
	CONN ← 200 OK INVITE					
			→	ACK		
	DISC	Conversation	+	DVE		
	DISC ← REL →		→	BYE 200 OK BYE		
L	NEL 7		7	ZUU UN DIE		

IS_XX_03	ISDN reference	NGN reference to:							
10_700	EN 300 403-1 [i.3],cla				[51], clause 7.3				
	EN 300 899-1 [23], c				,				
TSS reference:	ISDN-SIP/Basic_call/S		oice						
Selection criteria:	Basic_call; Q.1912.5 [5								
Test purpose:	Ensure that call establishment using en-bloc sending is performed correctly.								
' '	Ensure that the ISDN u								
	progress indicator info	rmation eler	ment #1 or #2 or both	location	"Network beyond				
	Interworking point" who								
				fer on the	e media and B-channels				
	is performed correctly								
	NOTE: According to	Q.699 [52]	every message sent	to the IS	DN access may contain				
		ndicator info	ormation elements.						
ISDN Parameter	BC=PIXIT , no HLC								
values:	PI_VA (PIXIT)	50	/I T						
SIP Parameter	Dial string parameters	options=PI	(II						
values:	TYPE ODD DIVIT								
	TYPE_SDP= PIXIT;								
	PIXIT for supported he	ader.							
	Case a) no 100 rel	au c i.							
	Case b) Supported: 10	0 rel							
		Case c) Supported: 100 rel and precondition							
Comments:	Case of Cappertoa. 10	o ror aria pr	Containon						
Commond.	ISDN		SUT		SIP				
	Case a)				<u> </u>				
	SETUP	→		→	INVITE				
	CALL PROC	+							
	ALERTING	+		+	180 Ringing				
	PI								
	CONN	+		+	200 OK INVITE				
				→	ACK				
			Conversation						
	DISC	→		→	BYE				
	REL	+		+	200 OK BYE				
	Case c)								
	SETUP	→		→	INVITE				
	CALL PROC	+							
				+	183 Session Progress				
				→	PRACK				
				←	200 OK				
				→	UPDATE				
				←	200 OK				
	ALERTING PI# VA	+		+	180 Ringing				
				→	PRACK				
				←	200 OK				
	CONN	+		←	200 OK INVITE				
				→	ACK				
			Conversation						
	DISC	→		→	BYE				
	REL	+		←	200 OK BYE				

IS_XX_03A	ISDN referen	N	NGN reference to:					
	EN 300 403-1 [i.3],cl EN 300 899-1 [23], c	ause 5.1.5. clause 2.1.1	1 ES 283 0	27 [48],	clause 7.2.3.2.5			
TSS reference:	ISDN-SIP/Basic_call/S							
Selection criteria:		Basic_call; ES 283 027 [48] P-Early-Media header not supported						
Test purpose:	Ensure that call estab							
					G message including a			
	progress indicator I.E.							
		k beyond In	terworking point" wher	n the SIP	user answers with 180			
	Ringing message.	!! -4-4-	(NIAO) the section to sect		dia and Dahamada			
	is performed correctly			er on the	e media and B-channels			
	NOTE: According t	(e.g. lesting	j QUO parameters). Il every message sent	to the IS	DN access may contain			
			formation elements.	10 110 10	Div access may contain			
ISDN Parameter	BC=PIXIT , no HLC	maioator iiii	omation domanto.					
values:	PI_VA (PIXIT)							
SIP Parameter	Dial string parameters	options=PI	XIT					
values:	01	•						
	TYPE_SDP= PIXIT;							
	PIXIT for supported he	eader:						
	Case a) no 100 rel	20 1						
		Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition						
Comments:	Case c) Supported. It	o rei and pi	recondition					
Comments.	ISDN		SUT		SIP			
	Case a)		301		Oii Oii			
	SETUP	→		→	INVITE			
	CALL PROC	+			1144112			
	ALERTING	-		+	180 Ringing			
	PI				3 3			
	CONN	-		+	200 OK INVITE			
				→	ACK			
			Conversation					
	DISC	→		→	BYE			
	REL	+		+	200 OK BYE			
	Case c)							
	SETUP	→		→	INVITE			
	CALL PROC	+						
					183 Session Progress			
				←	PRACK			
				-	200 OK			
				→	UPDATE			
				-	200 OK			
	ALERTING PI# 1	+		+	180 Ringing			
		-		→	PRACK			
				+	200 OK			
	CONN	+		+	200 OK INVITE			
				→	ACK			
			Conversation					
	DISC	→		→	BYE			
	REL	+		+	200 OK BYE			

IS_XX_03B	ISDN reference	NGN reference to:				
	EN 300 403-1 [i.3],clau		Q.1912.5 [51], clause 7.3.			
	EN 300 899-1 [23], cla					
TSS reference:	ISDN-SIP/Basic_call/Successful/Voice					
Selection criteria:	Basic_call; ES 283 027 [[48] <i>P-Early</i>	Media header supp	orted		
Test purpose:	Ensure that call establishment using en-bloc sending is performed correctly.					
	Ensure that the ISDN us				G message including a	
	PI#8 when the SIP user					
	Ensure that in the active			ter on the	e media and B-channels	
	is performed correctly (e NOTE: According to 0			to the IC	DN access may contain	
			mation elements.	to the is	Div access may contain	
ISDN Parameter	BC=PIXIT , no HLC	ulcator irrior	nation elements.			
values:	PI_VA (PIXIT)					
SIP Parameter	Dial string parameters of	ntions-PIXI				
values:	Diai string parameters of	puons–r ixi	ı			
values.	TYPE_SDP= PIXIT;					
	PIXIT for supported head	der:				
	Case a) no 100 rel					
	Case b) Supported: 100	rel				
	Case c) Supported: 100	rel and pred	ondition			
Comments:						
	ISDN		SUT		SIP	
	Case a)					
	SETUP	→		→	INVITE	
	CALL PROC	+				
	ALERTING PI#8	←		+	180 Ringing	
	CONN	+		+	200 OK INVITE	
				→	ACK	
			Conversation			
	DISC	→		→	BYE	
	REL	+		+	200 OK BYE	
	Case c)					
	SETUP	→		→	INVITE	
	CALL PROC	+				
				-	183 Session Progress	
				→	PRACK	
				-	200 OK	
				→	UPDATE	
	ALEDTINO DI LA DIVIO			-	200 OK	
	ALERTING PI# 1, PI#8	+		-	180 Ringing	
				→	PRACK	
	CONINI			+	200 OK INVITE	
	CONN	+		-	200 OK INVITE	
			O	→	ACK	
	DISC		Conversation		BYE	
	DISC	→		→		
	REL			7	200 OK BYE	

IS_XX_04	ISDN reference to:			NGN reference to:			
	EN 300 403-1 [i.3], clause 5.1.5.1			Q.1912.5 [51], clause 7.3.1			
	EN 300 899-1	EN 300 899-1 [23], clause 2.1.1 EN 383 001 [49], clause 7.1.1					
TSS reference:	ISDN-SIP/Basic_call/Successful/Voice						
Selection criteria:	Basic_call; Q.19						
Test purpose:						erformed correctly.	
						RTING message without the	
					end-to-er	nd ISDN (#1)" when the SIP	
	user answers wit						
						on the media and B-channels	
	is performed corr		testing Qo	s parameter	s).		
ISDN Parameter	BC=PIXIT, no HL	_C					
values:	D: 1		DIVIT				
SIP Parameter values:	Dial string param	eters option	ons=PIXII				
	TYPE_SDP= PIX	(IT·					
	2_05	,					
	PIXIT for support		r:				
	Case a) no 100 r						
	Case b) Supporte						
	Case c) Supporte	ed: 100 rel	and precor	ndition			
Comments:	10011	+	Τ				
	ISDN		;	SUT		SIP	
	Case a)					D.N. O.T.E.	
	SETUP	→			→	INVITE	
	CALL PROC	-				100 8:	
	ALERTING	←			←	180 Ringing	
	CONN	+			+	200 OK INVITE	
					→	ACK	
			Conv	ersation			
	DISC	→			→	BYE	
	REL	+			+	200 OK BYE	
	Case c)						
	SETUP	→			→	INVITE	
	CALL PROC	+					
					+	183 Session Progress	
		<u> </u>			<u>`</u>	PRACK	
		<u> </u>			-	200 OK	
		1			→	UPDATE	
		†			(200 OK	
	ALERTING	+			(180 Ringing	
		-			→	PRACK	
	CONINI	 			+	200 OK	
						200 OK INVITE	
		-		t:	→	ACK	
	DIGG	+	Conv	ersation		DVE	
	DISC	→	-		→	BYE OK BYE	
	REL	+			+	200 OK BYE	

IS_XX_05	ISDN reference to:		NGN reference to:					
	EN 300 403-1 [
	EN 300 899-1			El	N 383 00 ⁻	1 [49], clause 7.3		
TSS reference:		ISDN-SIP/Basic_call/Successful/Voice						
Selection criteria:		Basic_call; SIP Profile A or EN 383 001 [49] Profile B or ES 283 027 [48]						
Test purpose:						performed correctly.		
						CT message including a		
						-end ISDN (#1)" location		
	•	I Interworki	ing point" w	nen the SIP (ıser ansv	vers with a 200 OK		
	message.		II -4-4- (NIA)	\\		the media and D channels		
	is performed corr					the media and B-channels		
ISDN Parameter	BC=PIXIT, no HL		lesting Qua	parameters)).			
values:	BC=FIXIT, NOTIL	_0						
SIP Parameter values:	Dial string param	aters ontio	ne-PIXIT					
on rarameter values.	Diai String param	icters optio	113-1 17(11					
	TYPE SDP= PIX	(IT:						
		,						
	PIXIT for support	ed header	:					
	Case a) no 100 r							
	Case b) Supporte	ed: 100 rel						
	Case c) Supporte	ed: 100 rel	and precon	dition				
Comments:								
	ISDN		(SUT		SIP		
	Case a)							
	SETUP	→			→	INVITE		
	CALL PROC	+						
	CONN PI# 1	+			+	200 OK INVITE		
					→	ACK		
			Conv	ersation				
	DISC	→			→	BYE		
	REL	+			+	200 OK BYE		
	O)							
	Case c)					INDUITE		
	SETUP	→			→	INVITE		
	CALL PROC							
					+	183 Session Progress		
					→ -	PRACK		
					-	200 OK		
					→	UPDATE		
					-	200 OK		
	CONN PI# 2	+			+	200 OK INVITE		
	COIVIVI III Z	+ •			→	ACK		
			Conv	ersation		,,,,,,,		
	DISC	→	COITY	O. Gallon	→	BYE		
	REL	′			-	200 OK BYE		
<u> </u>	INEL	~				LOUGRAIL		

IS_XX_06	ISDN reference to:		NGN reference to:					
10_707_00	EN 300 403-1 [i.3], clause		Q.	Q.1912.5 [51], clause 7.3				
	EN 300 899-1 [23], clause		٦.					
TSS reference:	ISDN-SIP/Basic_call/Succes		pice					
Selection criteria:	Basic_call; Q.1912.5 [51] Profile B with PI							
Test purpose:		Ensure that call establishment using en-bloc sending is performed correctly.						
root parpood.	Ensure that the ISDN user in							
	progress indicator information							
	Interworking point" when the							
	Ensure that in the active call							
	is performed correctly (e.g. t							
				nt to the ISDN	access may contain			
		tor info	rmation elements.					
ISDN Parameter	BC=PIXIT , no HLC							
values:	PI_VA (PIXIT)							
SIP Parameter	Dial string parameters option	าร=PIX	IT					
values:								
	TYPE_SDP= PIXIT;							
	PIXIT for supported header:							
	Case a) no 100 rel							
	Case b) Supported: 100 rel		11					
•	Case c) Supported: 100 rel a	and pre	condition					
Comments:	IODAL		OUT	ı	OID			
	ISDN		SUT		SIP			
	Case a)			_	IND /ITE			
	SETUP	→		→	INVITE			
	CALL PROC	+			000 01/ 100/175			
	CONN PI# VA	+		←	200 OK INVITE			
			0 "	→	ACK			
	DIOO		Conversation		D)/E			
	DISC	→		→	BYE			
	REL	-		+	200 OK BYE			
	0							
	Case c) Supported: 100 rel							
	and precondition	_		_	INIV/ITE			
	SETUP	→		→	INVITE			
	CALL PROC	_						
		1		+	183 Session			
					Progress			
		-		→	PRACK			
		 			200 OK			
		1		→	UPDATE			
		-			200 OK			
	CONN PI# VA	+		-	200 OK INVITE			
	CONN FI# VA	_		→	ACK			
		1	Conversation	7	AUN			
	DISC	→	Conversation	→	BYE			
	REL	-			200 OK BYE			
	IVEL		L		200 ON DIE			

IS_XX_07	ISDN reference t	NGN reference to:						
	EN 300 403-1 [i.3], clause 5.1.5.1 Q.1912.5 [51], clause			lause 7.3.				
	EN 300 899-1 [23], clau			001 [49],	clause 7.3			
TSS reference:		SDN-SIP/Basic_call/Successful/Voice						
Selection criteria:	Basic_call; Q.1912.5 [51]							
Test purpose:	Ensure that the call establishment using en-bloc sending is performed correctly.							
	Ensure that the ISDN use							
	progress indicator I.E. with							
	"Network beyond Interwork	rking point	" when the SIP user a	nswers w	vith a 200 OK			
	message.	!! -4-4- /!	(140) the coeffee two sets		and Dahamala			
	Ensure that in the active of			on the r	nedia and B-channels			
ISDN Parameter	is performed correctly (e.g BC=PIXIT, no HLC	g. testing c	205 parameters).					
values:	BC=PIXIT, 110 FLC							
SIP Parameter values:	Dial string parameters opt	tions_DIVI	т					
SIF Farameter values.	Diai string parameters opi	110119=11/1	1					
	TYPE SDP= PIXIT;							
	PIXIT for supported head	er:						
	Case a) no 100 rel							
	Case b) Supported: 100 re	el						
	Case c) Supported: 100 rel and precondition							
Comments:	ISDN		SUT		SIP			
	Case a)							
	SETUP	→		→	INVITE			
	CALL PROC	+						
	CONN	+		←	200 OK INVITE			
				→	ACK			
			Conversation					
	DISC	→		→	BYE			
	REL	+		+	200 OK BYE			
	Case c)							
	SETUP	→		→	INVITE			
	CALL PROC	+						
					400 0			
				←	183 Session Progress			
				→	PRACK			
				7	200 OK			
				→ -	UPDATE			
				+	200 OK			
	CONN	+		+	200 OK INVITE			
	OCIVIV			→	ACK			
			Conversation		/ COIX			
	DISC	→	Conversation	→	BYE			
	REL	′		-	200 OK BYE			
	IXLL	•			200 ON DIL			

IS SP_08	ISDN reference to:		NGN reference to:						
10_01 _00	EN 300 403-1 [i.3], clause 5.1.5.2		_		clause 7.3				
	EN 300 899-1 [23],		EN 383 001 [49], clause 7.3						
					ause 7.2.3.5.1				
TSS reference:	ISDN-SIP/Basic call/	ISDN-SIP/Basic_call/Successful/Voice							
Selection criteria:				S 283 02	27 [48]				
Test purpose:		Basic_call; SIP Profile A or EN 383 001 [49] Profile B or ES 283 027 [48] Ensure that call establishment using overlap sending is performed correctly.							
Tool parpood.	Ensure that the ISDN user in the state U2 receives an ALERTING message with a								
	progress indicators "o								
	Interworking point" w								
					nedia and B-channels				
	is performed correctly								
ISDN Parameter	BC=speech, no HLC		,						
values:	' '								
SIP Parameter values:	Dial string parameter	s options=PIXIT							
		·							
	TYPE_SDP= PIXIT;								
	PIXIT for supported h	eader:							
	Case a) no 100 rel								
	Case b) Supported: 1								
	Case c) Supported: 1	00 rel and preco	ndition						
Comments:				1	1 015				
	ISDN		SUT		SIP				
	Case a)								
	SETUP	→							
	SETUP ACK	+							
	INFO	→		→	INVITE				
	ALERTING	+		←	180 Ringing				
	PI #1				222 214 11 11 11 11				
	CONN	+		+	200 OK INVITE				
				→	ACK				
			Conversation						
	DISC	→		→	BYE				
	REL	+		+	200 OK BYE				
	Case c)								
	SETUP)							
	SETUP ACK	+							
	INFO	→		→	INVITE				
				+	183 Session				
					Progress				
				→	PRACK				
				<u> </u>	200 OK				
				→	UPDATE				
				+	200 OK				
	ALERTING	←		+	180 Ringing				
	PI #1				77.4016				
				→	PRACK				
	2.21111			+	200 OK				
	CONN	+		+	200 OK INVITE				
				→	ACK				
			Conversation						
	DISC	→		→	BYE				
	REL	+		←	200 OK BYE				

IS SP 08A	ISDN refere	ence to:	NG	N refer	ence to:				
	EN 300 403-1 [i.3],	EN 300 403-1 [i.3], clause 5.1.5.2 ES 283 027 [48], claus			clause 7.2.3.5.1				
	EN 300 899-1 [23]	, clause 2.1.1							
TSS reference:		ISDN-SIP/Basic_call/Successful/Voice							
Selection criteria:		Basic_call; 283 027 overlap receiving supported; In-Dialog Method							
	SIP PBX								
Test purpose:	Ensure that call establishment using overlap sending is performed correctly.								
	Ensure that the ISDN			RTING	message when the				
	SIP user answers with								
				on the r	nedia and B-channels				
IODNI D	is performed correctly	(e.g. testing Qos	parameters).						
ISDN Parameter	BC=speech, no HLC								
values: SIP Parameter values:	Diel etvie v v everenteve	antions DIVIT							
SIP Parameter values:	Dial string parameters	s options=PIXII							
	TYPE_SDP= PIXIT;								
	PIXIT for supported header:								
	Case a) no 100 rel	caaci.							
	Case b) Supported: 1	00 rel							
	Case c) Supported: 1		dition						
Comments:	, , ,	•							
	ISDN		SUT		SIP				
	Case a)								
	SETUP	→							
	SETUP ACK	←							
	INFO	→		→	INVITE cseg1				
				+	183 Session				
					Progress cseg1				
	INFO	→		→	INFO cseg2				
				+	200 OK cseg2				
	Call proceeding	+		+	183 cseg1				
	ALERTING ← 180 Ring								
	CONN	+		+	200 OK INVITE				
				→	ACK				
			Conversation						
	DISC	→		→	BYE				
	REL	+		+	200 OK BYE				

IS_SP_08B	ISDN refere EN 300 403-1 [i.3] EN 300 899-1 [23	, clause 5.1.5.2], clause 2.1.1	NGN reference to: ES 283 027 [48], clause 7.2.3.5.1						
TSS reference:		ISDN-SIP/Basic_call/Successful/Voice							
Selection criteria:	Basic_call; ES 283 02 Dialling Procedures; o	ne dialog open			·				
Test purpose:	Ensure that the ISDN SIP user answers with Ensure that in the actichannels is performed	Ensure that call establishment using overlap sending is performed correctly. Ensure that the ISDN user in the state U2 receives an ALERTING message when the SIP user answers with a 180 Ringing message. Ensure that in the active call state (N10) the voice transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters).							
ISDN Parameter values:	BC=speech, no HLC								
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition								
Comments:	,	•							
	ISDN Case a)		SUT		SIP				
	SETUP	→		→	INVITE				
	SETUP ACK	-		-	484				
				→	ACK				
	INFO	→		→	INVITE				
		_		-	484				
				→	ACK				
	Call proceeding ← 183 Sess Progress								
	ALERTING ← 180 Ringing								
	CONN	+		←	200 OK INVITE				
				→	ACK				
		(Conversation						
	DISC	→		→	BYE				
	REL	+		-	200 OK BYE				

IS_SP_08C	ISDN refer	ISDN reference to: NGN reference to:							
	EN 300 403-1 [i.3] EN 300 899-1 [23		ES 283 027 [48], clause 7.2.3.5.1						
TSS reference:	ISDN-SIP/Basic_call/	ISDN-SIP/Basic_call/Successful/Voice							
Selection criteria:	Basic_call; ES 283 02		eiving supported; n	nultiple I	NVITE Overlap				
	Dialling Procedures; t								
Test purpose:		Ensure that call establishment using overlap sending is performed correctly.							
	Ensure that the ISDN			RTING	message when the				
	SIP user answers with								
				on the r	nedia and B-channels				
IODAL D	is performed correctly	(e.g. testing QoS	parameters).						
ISDN Parameter	BC=speech, no HLC								
values:	Diel etrice e e e e e e e e e	ti DIVIT							
SIP Parameter values:	Dial string parameters	s options=PIXII							
	TYPE_SDP= PIXIT;	TYPE_SDP= PIXIT;							
	PIXIT for supported h	PIXIT for supported header:							
	Case a) no 100 rel	cauci.							
	Case b) Supported: 1	00 rel							
	Case c) Supported: 1		dition						
Comments:									
	ISDN		SUT		SIP				
	Case a)								
	SETUP	→		→	INVITE csq 1				
	SETUP ACK	+							
	INFO	→		→	INVITE csq 2				
				-	484 csq 1				
				→	ACK				
	Call proceeding	←		←	183 Session csq 2				
					Progress				
	ALERTING	+		+	180 Ringing csq2				
	CONN	+		-	200 OK INVITE				
	CONIN			→	ACK				
			Conversation		AUIX				
	DISC	→	Conversation	→	BYE				
	REL	+		+	200 OK BYE				
<u> </u>	IIVEE	•		~	200 ON DIL				

IS_XX_09	ISDN referenc	NGN reference to:						
	EN 300 403-1 [i.3], cla EN 300 899-1 [23], c	ause 5.1.5.2 lause 2.1.1	Q.1912.5 [51], clause 7.3 EN 383 001 [49], clause 7.3					
TSS reference:	ISDN-SIP/Basic_call/Successful/Voice							
Selection criteria:	Basic_call;Q.1912.5 [51] Profile B with PI							
Test purpose:	Ensure that call establishment using overlap sending is performed correctly.							
	Ensure that the ISDN user in the state U2 receives a ALERTING message with a							
	progress indicators #1 or			d Inter	working point" when			
	the SIP user answers wit							
	Ensure that in the active			n the m	ledia and B-channels			
	is performed correctly (e. NOTE: According to C	g. testing QoS p	arameters)	~ ISDN	I access may contain			
		licator informatio		e ISDIN	access may contain			
ISDN Parameter	BC=PIXIT, no HLC	iicator imormatic	ii cicilicitis.					
values:	PI_VA (PIXIT)							
SIP Parameter values:	Dial string parameters op	tions=PIXIT						
	TYPE_SDP= PIXIT;							
	PIXIT for supported head	er:						
	Case a) no 100 rel Case b) Supported: 100 i	·ol						
	Case c) Supported: 100 r		ion					
Comments:	Cacc of Capportoa. 100 1	or and procential	1011					
	ISDN		SUT		SIP			
	Case a)							
	SETUP	→						
	SETUP ACK	+						
	INFO	→		→	INVITE			
	ALERTING	←		←	180 Ringing			
	PI #VA			+	IND //TE			
	CONNI	+		→	INVITE			
	CONN			→	200 OK INVITE ACK			
			Conversation	7	ACK			
	DISC	→	Conversation	→	BYE			
	REL	+			200 OK BYE			
	Case c)	_						
	SETUP	→						
	SETUP ACK	+						
	INFO	→		→	INVITE			
				←	183 Session			
					Progress			
				→	PRACK			
				+	200 OK			
				→	UPDATE 200 OK			
	ALERTING	+		+	180 Ringing			
	PI #VA	`		`	Too Kinging			
				→	PRACK			
				+	200 OK			
	CONN	+		+	200 OK INVITE			
				→	ACK			
			Conversation					
	DISC	→		→	BYE			
	REL	+		+	200 OK BYE			

IS_XX_10	ISDN reference to:			NGN reference to:				
	EN 300 403-1 [i.3], clause 5.1.5.1			Q.1912.5 [51], clause 7.3.1				
	EN 300 899-1			EN	N 383 001	1 [49], clause 7.1.1		
TSS reference:	ISDN-SIP/Basic_	call/Succes	ssful/Voice					
Selection criteria:	Basic_call; Q.1912.5 [51] Profile B without PI							
Test purpose:	Ensure that call e	stablishme	ent using ov	erlap send	ing is per	rformed correctly.		
	Ensure that the IS	SDN user ii	n the state l	J2 receives	an ALER	TING message without the		
	progress indicato	r information	on element '	"call is not e	nd-to-en	d ISDN (#1)" when the SIP		
	user answers wit							
						n the media and B-channels		
	is performed corr		testing QoS	parameters	s).			
ISDN Parameter	BC=PIXIT, no HL	.C						
values:								
SIP Parameter values:	Dial string param	eters optio	ns=PIXIT					
	TYPE_SDP= PIX	IT;						
	DIVIT (
	PIXIT for support							
	Case a) no 100 re							
	Case b) Supporte		and proces	dition				
Comments:	Case c) Supporte	a. 100 rei a	and precond	JILION				
Comments.	ISDN		9	UT		SIP		
	Case a)			01		SIF		
	SETUP	→						
	SETUP ACK	-						
	INFO	→				INIVITE		
	ALERTING	+			→	INVITE 180 Ringing		
	ALERTING					160 Kinging		
	CONN	+			+	200 OK INVITE		
	CONIN				→	ACK		
			Conve	ersation		Non		
	DISC	→	Oonve	713ation	→	BYE		
	REL	+			/	200 OK BYE		
	INEL				_	200 OK BTE		
	Case c)					+		
	SETUP	→				+		
	SETUP ACK	-						
	INFO	→			→	INVITE		
		-			,	183 Session Progress		
					`	PRACK		
					+	200 OK		
					→	UPDATE		
					+	200 OK		
	ALERTING	+			È	180 Ringing		
		-						
					→	PRACK		
					+	200 OK		
	CONN	←			+	200 OK INVITE		
					→	ACK		
			Conve	ersation				
	DISC	→			→	BYE		
	REL	+			+	200 OK BYE		
1						1		

IS_XX_11	ISDN refero EN 300 403-1 [i.3] EN 300 899-1 [23	, clause 5.1.5.2], clause 2.1.1	NGN reference to: Q.1912.5 [51], clause 7.3 EN 383 001 [49], clause 7.3 ES 283 027 [48], clause 7.2.3.5.1			
TSS reference:	ISDN-SIP/Basic_call					
Selection criteria:	Basic_call; SIP Profi					
Test purpose:	Ensure that call esta Ensure that the ISDN progress indicators " Interworking point" w Ensure that in the ac is performed correctl	N user in the state I call is not end-to-e then the SIP user a tive call state (N10	U2 receives a CC nd ISDN (#1)" loo answers with a 20) the voice transf	ONNECT me cation "Netw 00 OK mess	ssage with a ork beyond age.	
ISDN Parameter	BC=PIXIT, no HLC	y (org. toothing Qoo	paramotoroj.			
values:	BO-1 17(11, 110 TIEO					
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition					
Comments:						
	ISDN Case a) SETUP SETUP ACK INFO CONN PI #1	÷ + + + + + + + + + + + + + + + + + + +	SUT	→ ← →	INVITE 200 OK INVITE ACK	
			onversation		/ tort	
	DISC	→	onversation	→	BYE	
	REL	+			200 OK BYE	
	Case c)				INIV/ITE	
	SETUP CALL PROC	→		→	INVITE	
				+	183 Session Progress	
				→	PRACK	
				+	200 OK	
				→	UPDATE	
				+	200 OK	
	CONN PI #1	+		+	200 OK INVITE	
				→	ACK	
		C	onversation			
	DISC	→		→	BYE	
	REL	+		+	200 OK BYE	

IS_XX_12	ISDN refere		NGN reference to:				
	EN 300 403-1 [i.3],		Q.1912.5 [51], clause 7.3				
	EN 300 899-1 [23], clause 2.1.1 EN 383 00						
TSS reference:		ISDN-SIP/Basic_call/Successful/Voice					
Selection criteria:	Basic_call; Q.1912.5 [
Test purpose:	Ensure that call estab			s performed	correctly.		
	Ensure that the ISDN						
	progress indicators se	t to PI_VA loca	tion "Network beyo	ond Interwork	king point" when the		
	SIP user answers with				•		
	Ensure that in the acti	ve call state (N	10) the voice trans	fer on the me	edia and B-channels		
	is performed correctly	(e.g. testing Q	oS parameters)				
ISDN Parameter	BC= PIXIT, no HLC						
values:	PI_VA (PIXIT)						
SIP Parameter values:	Dial string parameters	options=PIXIT					
	TYPE_SDP= PIXIT;						
	PIXIT for supported he	eader:					
	Case a) no 100 rel						
	Case b) Supported: 10						
	Case c) Supported: 10	00 rel and prece	ondition				
Comments:	1001		OUT		OID		
	ISDN		SUT		SIP		
	Case a)						
	SETUP	→					
	SETUP ACK	+					
	INFO	→		→	INVITE		
	CONN PI #VA	+		+	200 OK INVITE		
				→	ACK		
			Conversation				
	DISC	→		→	BYE		
	REL	←		+	200 OK BYE		
	Case c) Supported:						
	100 rel and						
	precondition						
	SETUP	→					
	SETUP ACK	←					
	INFO			→	INVITE		
				←	183 Session		
					Progress		
				→	PRACK		
				+	200 OK		
				→	UPDATE		
				+	200 OK		
	CONN PI #VA	+		+	200 OK INVITE		
				→	ACK		
			Conversation				
	DISC	→		→	BYE		
	REL	+		+	200 OK BYE		

	Values for test purposes IS_XX_12					
VA	PI information element					
VA_1	# 1 (call is not end-to-end ISDN)					
VA_2	# 2 (destination address is non-ISDN)					
VA_3	PI # 1 and PI # 2					

IS_XX_13	ISDN reference to: NGN reference to:							
10_XX_10	EN 300 403-1 [i.3], clause							
	EN 300 899-1 [23], claus			EN 383 001 [49], clause 7.3				
	ES 283 027 [48], clause 7.2.3.5.1							
TSS reference:	ISDN-SIP/Basic_call/Succe	essful/Vo						
Selection criteria:	Basic_call; Q.1912.5 [51] F							
Test purpose:	Ensure that call establishm	ent using	overlap sending	is perform	ed correctly.			
	Ensure that the ISDN user							
	progress indicators "call is							
	Interworking point" when the							
	Ensure that in the active ca			sfer on the	media and B-channels			
IODNI Danasa atau	is performed correctly (e.g.	testing C	los parameters).					
ISDN Parameter values:	BC=PIXIT, no HLC							
SIP Parameter values:	Dial string parameters option	one-DIVI						
SIF Farailleter values.	Diai string parameters option	0115=171	ı					
	TYPE_SDP= PIXIT;							
	PIXIT for supported heade	r:						
	Case a) no 100 rel							
	Case b) Supported: 100 re							
	Case c) Supported: 100 re	Case c) Supported: 100 rel and precondition						
Comments:								
	ISDN		SUT		SIP			
	Case a)							
	SETUP =							
	SETUP ACK							
	INFO -			<u>→</u>	INVITE			
	ALERTING			+	180 Ringing			
	CONN			+	200 OK INVITE			
				→	ACK			
	7100		Conversation		D)/E			
	DISC)	BYE			
	REL •			+	200 OK BYE			
	C							
	Case c) SETUP							
	SETUP ACK							
	INFO =			→	INVITE			
	11110	<u>/</u>			183 Session			
				•	Progress			
				→	PRACK			
				+	200 OK			
				`	UPDATE			
				+	200 OK			
	ALERTING •	_		`	180 Ringing			
				→	PRACK			
				+	200 OK			
	CONN			+	200 OK INVITE			
				→	ACK			
			Conversation					
	DISC			→	BYE			
	ISDN •			+	200 OK BYE			

IS_XX_14	ISDN refer	nce to:						
	EN 300 403-1 [i.3			Q.1912.5 [51], clause 7.7				
	EN 300 899-1 [23	oj, ciause 2.1.1		3 001 [49], clause 7.7				
TSS reference:	ES 283 027 [48], clause 7.2.3.2.13 ISDN-SIP/Basic_call/Successful/Voice/							
Selection criteria:	Basic_call	all/Successiul/vc	DICE/					
Test purpose:		Il octoblichment	and the call clearing	n procedure	e is performed correctly			
rest purpose.					CT message indicating			
	the Cause value #			IOCOIVINE	or message mulcating			
	The called user sh							
				Reason H	eader field shall be			
	included with Caus							
			all state U4 the trans	sfer of tone	or announcement on			
	the B- channel is p	performed correct	tly.					
ISDN Parameter	BC=PIXIT, no HLC							
values:								
SIP Parameter values:	Dial string parame	ters options=PIX	IT					
	TYPE_SDP= PIXI	Т;						
	PIXIT for supporte							
	Case a) no 100 re							
		Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition						
Comments:	Case c) Supported	a. 100 fel allu pre	CONTUILION					
Comments.	ISDN		SUT		SIP			
	Case a)		301		311			
	SETUP	→		→	INVITE			
	CALL PROC	′			INVIIL			
	ALERTING	`		+	180 Ringing			
	CONN	+		`	200 OK INVITE			
	001111	•		<u>`</u>	ACK			
			Conversation		, tort			
	DISC	→	Conversation	→	BYE			
	REL	+			200 OK BYE			
	1122				200 01(312			
	Case c)							
	SETUP	→		→	INVITE			
	CALL PROC	←						
				←	183 Session			
					Progress			
				→	PRACK			
				(200 OK			
				→	UPDATE			
	ALEDTIN'S			-	200 OK			
	ALERTING	+		+	180 Ringing			
)	PRACK			
	CONINI			+	200 OK INIVITE			
	CONN	+		←	200 OK INVITE			
			Company - ti - :-	7	ACK			
	DICC		Conversation		DVE			
	DISC	}		→	BYE			
	ISDN	+		-	200 OK BYE			

IS_XX_15	ISDN reference to	NGN reference to:			
10_701_10	EN 300 403-1 [i.3], claus	Q.1912.5 [51], clause 7.7 EN 383 001 [49], clause 7.7			
	EN 300 899-1 [23], claus				
			ES 283 027 [4		
TSS reference:	ISDN-SIP/Basic_call/Succ	cessful/Vo			
Selection criteria:	Basic_call				
Test purpose:	Ensure that the call clearing	ng proced	lure is performed correc-	tly when	the called user
	clears after answering with				
	The calling user shall rece	eive a DIS	CONNECT message wi	th the C	ause value # 16
	"normal call clearing".				
	Ensure that in the Call De				
	transfer of tone or announ	cement o	n the B- channel is perfe	ormed co	orrectly.
ISDN Parameter	BC=PIXIT, no HLC				
values:	Dial strice a second street	i DIV	i T		
SIP Parameter values:	Dial string parameters opt	ions=PIX	H		
	TYPE_SDP= PIXIT;				
	PIXIT for supported heade	er:			
	Case a) no 100 rel				
	Case b) Supported: 100 re	el			
	Case c) Supported: 100 re	el and pre	condition		
Comments:					
	ISDN		SUT		SIP
	Case a)				
	SETUP	→		→	INVITE
	CALL PROC	+			
	ALERTING	+		←	180 Ringing
	CONN	+		+	200 OK INVITE
				→	ACK
		_	Conversation		
	DISC	(+	BYE
	REL	→		→	200 OK BYE
	0				
	Case c) Supported: 100				
	rel and precondition SETUP	→		→	INVITE
	CALL PROC	+			IIIVIIL
	O/LET TROO				
				+	183 Session
					Progress
				→	PRACK
				+	200 OK
				→	UPDATE
				+	200 OK
	ALERTING	+		+	180 Ringing
				→	PRACK
				+	200 OK
	CONN	+		+	200 OK INVITE
				→	ACK
	7100		Conversation	-	
	DISC	<u> </u>		<u> </u>	BYE
	REL	→		→	200 OK BYE

IS_SP_16	ISDN reference t	NGN reference to:				
10_01 _10	EN 300 403-1 [i.3], clau	Q.1912.5 [51], clause 7.3 EN 383 001 [49], clause 7.3				
	EN 300 899-1 [23], clau					
	TBR 008 [i.16], clause		ES 283 027 [48], clause 7.2.3.2.2.2			
	EG 201 018 [i.2], claus		LO 203 027 [4	oj, ciac	136 1.2.3.2.2.2	
TSS reference:	ISDN-SIP/Basic_call/Succ		`			
Selection criteria:	Basic_call;	cessiui/ voice	,			
Test purpose:	Ensure that call establishr	mont cuppor	ting the telephony 2.1	k∐z tol	ocarvica is parformed	
rest purpose.	correctly.	neni suppoi	ung the telephony 3, i	KI IZ LEI	eservice is periorified	
	Ensure that in the active of	eall state (N1	(1) the voice transfer of	n the m	adia and R-channels	
	is performed correctly (e.g			,,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	icaia ana B chamileis	
ISDN Parameter	BC=speech, HLC=telepho		o paramotoroj.			
values:	20-000011, 1120-101001110	,,,,				
SIP Parameter values:	Dial string parameters opt	ions=PIXIT				
on rarameter values.	Dia cuing parameters opt					
	TYPE_SDP= PIXIT;					
	,					
	PIXIT for supported heads	er:				
	Case a) no 100 rel					
	Case b) Supported: 100 re					
	Case c) Supported: 100 re	el and preco	ndition			
Comments:						
	ISDN		SUT		SIP	
	Case a)					
	SETUP	→		→	INVITE	
	CALL PROC	+				
	ALERTING	+		+	180 Ringing	
	CONN	+		+	200 OK INVITE	
				→	ACK	
			Conversation			
	DISC	+		←	BYE	
	REL	→		→	200 OK BYE	
	Case c) Supported: 100					
	rel and precondition					
	SETUP	→		→	INVITE	
	CALL PROC	+				
				←	183 Session	
					Progress	
				→	PRACK	
				+	200 OK	
				→	UPDATE	
				+	200 OK	
	ALERTING	+		+	180 Ringing	
				→	PRACK	
				+	200 OK	
	CONN	+		+	200 OK INVITE	
				→	ACK	
			Conversation			
	DISC	+		+	BYE	
	REL	→		→	200 OK BYE	

Table 1: PIXIT Values for test purposes IS_XX_01 to IS_XX_16

Variable		m= lin	е	b= line	a= line
	<media></media>	<transport></transport>	<fmt-list></fmt-list>	<modifier>:<bandwidth-value></bandwidth-value></modifier>	rtpmap: <dynamic-pt> <encoding name="">/<clock rate=""> [/encoding parameters></clock></encoding></dynamic-pt>
VA_01	audio	RTP/AVP	0 (and possibly 8)	AS:64	rtpmap:0 PCMU/8000 (and possibly rtpmap:8 PCMA/8000)
VA_02	audio	RTP/AVP	Dynamic PT (and possibly a second Dynamic PT)	AS:64	rtpmap: <dynamic-pt> PCMU/8000 (and possibly rtpmap:<dynamic-pt> PCMA/8000)</dynamic-pt></dynamic-pt>
VA_03	audio	RTP/AVP	8	AS:64	rtpmap:8 PCMA/8000
VA_04	audio	RTP/AVP	Dynamic PT	AS:64	rtpmap: <dynamic-pt> PCMA/8000</dynamic-pt>
VA_05	audio	RTP/AVP	0 and/or 8	AS:64	rtpmap:0 PCMU/8000 and/or rtpmap:8 PCMA/8000
VA_06	audio	RTP/AVP	0 (and possibly 8)	AS:64	rtpmap:0 PCMU/8000 (and possibly rtpmap:8 PCMA/8000)
VA_07	audio	RTP/AVP	8	AS:64	rtpmap:8 PCMA/8000

IS_AU_17	ISDN refere	NGN reference to:						
	EN 300 403-1 [i.3], clause 4.5.17 Q.1912.5 [51], clause 7.1 EN 300 899-1 [23], clause 2.1.1							
TSSreference:	ISDN-SIP/Basic_call/Successful/Voice							
Selection criteria:	Basic_call; Telefax G3 terminals; Telefax G3 terminals with T.38							
Test purpose:		Support of Telefax G3.						
	Ensure that in the activ	e call state (N10) t	he Fax transfer on	the me	edia and B-channels			
ICDNI Davamatav	is performed correctly.	C Fassimila 00/	30					
ISDN Parameter values:	BC=3,1 kHz audio, HL	C = Facsimile G2/C	3 3					
SIP Parameter values:	Dial string parameters	options=PIXIT						
	TYPE_SDP= PIXIT;							
	PIXIT for supported he	ader:						
	Case a) no 100 rel	0!						
	Case b) Supported: 10 Case c) Supported: 10		ion					
	Case c) Supported. 10	o rei and precondi	IOH					
	a = line Based on T.38	_						
	b = line AS: 64	•						
	m = line: udptl; T38							
Comments:								
	ISDN		SUT		SIP			
	Case a)							
	SETUP	→						
	ALEDTINO			→	INVITE			
	ALERTING	-		+	180 Ringing			
	CONN			→ -	200 OK INVITE ACK			
			Conversation	 	ACK			
	DISC	+	Conversation	+	BYE			
	REL	<u>`</u>		→	200 OK BYE			
	7122	-		1 -	200 OKBIL			
	Case c)							
	SETUP	→						
	SETUP ACK	+						
	INIEO				IND //TE			
	INFO			→	INVITE			
				_	183 Session Progress			
				→	PRACK			
				+	200 OK			
				→	UPDATE			
				+	200 OK			
	ALERTING	+		+	180 Ringing			
				→	PRACK			
				+	200 OK			
	CONN	+		+	200 OK INVITE			
				→	ACK			
			Conversation					
	DISC	+		+	BYE			
	REL	→		→	200 OK BYE			

IS_AU_18	EN 300 403-1 [i.3], clau	EN 300 403-1 [i.3], clause 4.5.17 Q.1912 EN 300 899-1 [23], clause 2.1.1 EN 383			IGN reference to: 012.5 [51], clause 7.1 033 001 [49], clause 7.1			
TCCroforonoo	ES 283 027 [48], clause 7.2.3.2 ISDN-SIP/Basic_call/Successful/Voice							
TSSreference: Selection criteria:								
	Basic_call; Telefax G3 terminals-inband Support of Telefax G3.							
Test purpose:	Ensure that in the active ca							
	in the gateway takes place							
ISDN Parameter values:	BC=3,1 kHz audio, HLC =		G3					
SIP Parameter	Dial string parameters option	ons=PIXIT						
values:	TYPE_SDP= PIXIT;							
	PIXIT for supported header Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel	l	ition					
	a = line RTP/AVP b = line 64 kbit/s m = line: 8							
Comments:	III = line. 0							
Commonto.	ISDN		SUT		SIP			
	Case a)		001		- Cii			
	SETUP	→						
				→	INVITE			
	ALERTING	-		+	180 Ringing			
	CONN	(+	200 OK INVITE			
				→	ACK			
			Conversation					
	DISC	+		+	BYE			
	REL	→		→	200 OK BYE			
	Case c)							
	SETUP	→						
	SETUP ACK	+						
	INFO			→	INVITE			
				←	183 Session			
					Progress			
				→	PRACK			
				+	200 OK			
				→	UPDATE			
				+	200 OK			
	ALERTING	+		←	180 Ringing			
				→	PRACK			
				+	200 OK			
	CONN	+		+	200 OK INVITE			
				→	ACK			
			Conversation					
	DISC	+		+	BYE			
		→		→	200 OK BYE			

IS_AU_19	ISDN reference to: NGN reference to:					
	EN 300 403-1 [i.3], clause 4.5.5 Q.1912.5 [51], clause 7.1					
	EN 300 899-1 [23], clause 2.1.1 ES 283 027 [48], clause 7.2.3.2					
TSSreference:	ISDN-SIP/Basic_call/Successful/Voice					
Selection criteria:	Basic_call; Bearer service					
Test purpose:	Ensure that the ISDN SET					
	capability 3,1 kHz audio, v			ironous/	asynchronous mode	
	is set to MODE is mapped Ensure that in the active of			o tha ma	adia and B channols	
	is performed correctly (e.g.	ali State (1. testina (OoS parameters) and the	echo c	cancellers in the GW	
	are not activated.	g. tosting	QUO parameters) and the	o cono c	Danochors in the OVV	
ISDN Parameter	BC= 3,1 kHz audio, voice	band data	a via modem.			
values:	synchronous/ asynchro					
	user rate: USER_RAT	E (table 2	2)			
SIP Parameter values:	Dial string parameters opt	ions=PIX	IT			
	TYPE_SDP= PIXIT;					
	DIVIT (
	PIXIT for supported heads	er:				
	Case a) no 100 rel Case b) Supported: 100 re	ol.				
	Case c) Supported: 100 re	ਰ। al and nre	econdition			
	Case c) Supported. 100 fe	si and pre	CONTUINION			
	a = line (PIXIT)					
	b = line (PIXIT)					
	m = line (PIXIT)					
Comments:						
	ISDN		SUT		SIP	
	Case a)					
	SETUP	→				
		_		→	INVITE	
	ALERTING	(+	180 Ringing	
	CONN	+		+	200 OK INVITE	
			0	→	ACK	
	DICC		Conversation		DVE	
	DISC	←		+	BYE	
	REL	7		→	200 OK BYE	
	Case c)					
	SETUP	→				
	SE 101			→	INVITE	
				+	183 Session	
					Progress	
				→	PRACK	
				+	200 OK	
				→	UPDATE	
				+	200 OK	
	ALERTING	+		+	180 Ringing	
				→	PRACK	
				+	200 OK	
	CONN	+		+	200 OK INVITE	
				→	ACK	
			Conversation			
	DISC	(-	BYE	
	REL	→		→	200 OK BYE	

IS_AU_20	ISDN reference to:		NGN	referer	nce to:				
10_A0_20	EN 300 403-1 [i.3], clause	4.5.18		Q.1912.5 [51], clause 7.1					
	EN 300 899-1 [23], clause	, clause 7.1							
		[48], clause 7.2.3.2							
TSSreference:	ISDN-SIP/Basic call/Success	ISDN-SIP/Basic_call/Successful/Voice							
Selection criteria:	Basic_call; Bearer service 3,1 kHz audio								
Test purpose:	Ensure that the ISDN SETUP			nformat	ion transfer				
	capability 3,1 kHz audio and t	he LLC IS	DN Parameter value	s: 3,1 k	Hz audio, voice band				
	data via modem, synchronous								
	USER_RATE is mapped to the	ie SIP INV	TTE Message.						
	Ensure that in the active call s								
	is performed correctly (e.g. te	sting QoS	parameters) and the	echo c	cancellers in the GW				
	are not activated.								
ISDN Parameter	BC = 3,1 kHz audio,								
values:	LLC = 3,1 kHz audio, voice ba								
	synchronous/ asynchrono		MODE						
OID Developed	user rate: USER_RATE (t								
SIP Parameter values:	Dial string parameters options	S=PIXII							
	TYPE_SDP= PIXIT;								
	TIFE_SDF=FIXIT,								
	PIXIT for supported header:								
	Case a) no 100 rel								
	Case b) Supported: 100 rel								
	Case c) Supported: 100 rel ar	nd precond	dition						
	,	•							
	a = line (PIXIT)								
	b = line (PIXIT)								
	m = line (PIXIT)								
Comments:				_					
	ISDN		SUT		SIP				
	Case a)								
	SETUP	→		+	IN D //TE				
	ALEBTING			→	INVITE				
	ALERTING	+		-	180 Ringing				
	CONN			←	200 OK INVITE				
			Convergation	7	ACK				
	DISC	+	Conversation	+	BYE				
	DISC REL			→	200 OK BYE				
	KEL	7		+ -	200 OK BTE				
	C250.6)								
	Case c) SETUP	→							
	SETOI								
				→	INVITE				
				+	183 Session				
				•	Progress				
				→	PRACK				
				+	200 OK				
				→	UPDATE				
				+	200 OK				
	ALERTING	+		+	180 Ringing				
				→	PRACK				
				+	200 OK				
	CONN	+		+	200 OK INVITE				
				→	ACK				
			Conversation						
	DISC	+		+	BYE				
1	REL	→		→	200 OK BYE				

IS_AU_21	ISDN reference to: EN 300 403-1 [i.3], clause 4	NGN reference to: Q.1912.5 [51], clause 7.1 EN 383 001 [49], clause 7.1							
	EN 300 899-1 [23], clause 2.1.1 EN 383 001 [49], clause 7.1 ES 283 027 [48], clause 7.2.3.2								
TSSreference:	ISDN-SIP/Basic_call/Successful/Voice								
Selection criteria:	Basic_call; Bearer service 3,1 kHz audio								
SIP selection criteria:	Audio	Audio							
Test purpose:	Ensure that the ISDN SETU								
	3,1 kHz audio voice band da MODE, user rate set to USE	R_RA	ΓE	•					
	and the LLC ISDN Paramete synchronous/ asynchronous mapped to the SIP INVITE.								
	In the active call state (N10) performed correctly (e.g. tes								
ISDN Parameter	not activated. BC=LLC=3,1 kHz audio, voice	oo bon	d data via madam						
values:	synchronous/ asynchronuser rate: USER_RATE	ous mo	de: MODE						
SIP Parameter values:	Dial string parameters option								
	TYPE_SDP= PIXIT;								
	PIXIT for supported header:								
	Case a) no 100 rel Case b) Supported: 100 rel								
	Case c) Supported: 100 rel and precondition								
	a = line (PIXIT) b = line (PIXIT)								
	m = line (PIXIT)								
Comments:	10711			1	0.5				
	ISDN		SUT		SIP				
	Case a) SETUP	→							
	SETUP	7		→	INVITE				
	ALERTING	+		+	180 Ringing				
	ALERTING CONN	-		_					
	CONN	_		←	200 OK INVITE ACK				
			Convergation	7	ACK				
	DISC	←	Conversation	+	BYE				
		→		→ -					
	REL	7		7	200 OK BYE				
	Case c)	→							
	SETUP	7			INIVITE				
				→	INVITE 183 Session				
				_					
					Progress				
				→	PRACK				
				_	200 OK				
				→ ←	UPDATE				
	ALEDTING	←		+	200 OK				
	ALERTING	_		_	180 Ringing				
				→	PRACK 200 OK				
	CONN	_		-					
	CONN	+		+	200 OK INVITE				
			Oanua	→	ACK				
	DICC	_	Conversation	-	DVE				
	DISC	←		-	BYE				
i.	REL	7		→	200 OK BYE				

Table 2: Values for test purposes IS_AU_19 to IS_AU_21

VA_01	MODE: synchronous
	USER_RATE: 1,2 kbit/s
VA_02	MODE: synchronous
	USER_RATE: 2,4 kbit/s
VA_03	MODE: synchronous
	USER_RATE: 3,6 kbit/s
VA_04	MODE: synchronous
	USER_RATE: 4,8 kbit/s
VA_05	MODE: synchronous
	USER_RATE: 7,2 kbit/s
VA_06	MODE: synchronous
	USER_RATE: 8 kbit/s
VA_07	MODE: synchronous
_	USER_RATE: 9,6 kbit/s
VA_08	MODE: synchronous
_	USER_RATE: 14,4 kbit/s
VA_09	MODE: synchronous
	USER_RATE: 16 kbit/s
VA_10	MODE: synchronous
·/\	USER_RATE: 19,2 kbit/s
VA_11	MODE: synchronous
V/_11	USER_RATE: 32 kbit/s
VA_12	MODE: synchronous
VA_12	USER_RATE: 48 kbit/s
VA_13	MODE: synchronous
VA_13	
VA_14	USER_RATE: 56,0 kbit/s
VA_14	MODE: synchronous
\/\ 45	USER_RATE: 64 kbit/s
VA_15	MODE: asynchronous
\/A 40	USER_RATE: 1,2 kbit/s
VA_16	MODE: asynchronous
1/4 47	USER_RATE: 2,4 kbit/s
VA_17	MODE: asynchronous
	USER_RATE: 3,6 kbit/s
VA_18	MODE: asynchronous
	USER_RATE: 4,8 kbit/s
VA_19	MODE: asynchronous
	USER_RATE: 7,2 kbit/s
VA_20	MODE: asynchronous
	USER_RATE: 8 kbit/s
VA_21	MODE: asynchronous
	USER_RATE: 9,6 kbit/s
VA_22	MODE: asynchronous
	USER_RATE: 14,4 kbit/s
VA_23	MODE: synchronous
_	USER_RATE: 16 kbit/s
VA_24	MODE: asynchronous
_	USER_RATE: 19,2 kbit/s
VA_25	MODE: asynchronous
<u></u>	USER_RATE: 32 kbit/s
VA_26	MODE: asynchronous
· · · <u> ~ ~</u>	USER_RATE: 48 kbit/s
VA_27	MODE: asynchronous
···\	USER_RATE: 56 kbit/s
VA_28	MODE: asynchronous
V/_20	USER_RATE: 64 kbit/s
	USER_RATE. 04 KUII/S

Table 3: PIXIT Values for the test purpose IS_AU_19 to IS_AU_21

	m= line			b= line	a= line	
VA	<media></media>	<transport></transport>	<fmt-list></fmt-list>	<modifier>:<bandwidth-value> (see note)</bandwidth-value></modifier>	rtpmap: <dynamic-pt> <encoding name="">/ <clock rate="">[/encoding parameters></clock></encoding></dynamic-pt>	
VA_01	Audio	RTP/AVP	0	N/A or up to 64 kbit/s	N/A	
VA_02	Audio	RTP/AVP	Dynamic PT	N/A or up to 64 kbit/s	rtpmap: <dynamic-pt> PCMU/8000</dynamic-pt>	
VA_03	Audio	RTP/AVP	8	N/A or up to 64 kbit/s	N/A	
VA_04	Audio	RTP/AVP	Dynamic PT	N/A or up to 64 kbit/s	rtpmap: <dynamic-pt> PCMA/8000</dynamic-pt>	
VA_05	Image	Udptl	t38	N/A or up to 64 kbit/s	Based on T.38	
VA_06	Image	Tcptl	t38	N/A or up to 64 kbit/s	Based on T.38	
NOTE: <	bandwidth	value> for <mo< td=""><td>odifier> of AS i</td><td>s evaluated to be B kbit/s.</td><td></td></mo<>	odifier> of AS i	s evaluated to be B kbit/s.		

IS_XX_22	ISDN reference to:	NGN reference to:
	EN 300 403-1 [i.3], clause 4.5.18	ES 283 027 [48] clause A.1.4
	EN 300 899-1 [23], clause 2.1.1	
TSSreference:	ISDN-SIP/Basic_call/Successful/Voice	
Selection criteria:	Basic_call;	
	announcement towards a PSTN/ISDN	
	Providing announcements to a user during	the establishment of a communication session
SIP selection criteria:	Audio	
Test purpose:	Ensure that an announcement towards a F	
		network provides an announcement e.g. "The
		is not reachable". The announcement should
	be received after the CALL PROCEEDING	Smessage with PI#8.
ISDN Parameter	BC= PIXIT	
values:		
SIP Parameter values:	Dial string parameters options=PIXIT	
	DIVIT (
	PIXIT for supported header:	
	Case a) no 100 rel	
	Case b) Supported: 100 rel	
	Case c) Supported: 100 rel and precondition	on
	a line (DIVIT)	
	a = line (PIXIT) b = line (PIXIT)	
	m = line (PIXIT)	
Comments:		
Comments.		

IS_AU_23	ISDN reference to	•	NGN r	eferenc	e to:				
10_A0_20	EN 300 403-1 [i.3], clause								
	EN 300 899-1 [23], claus	EN 383 001 [49], clause 7.1							
	ES 283 027 [48], clause 7.2.3.2								
TSSreference:	ISDN-SIP/Basic_call/Succ	essful/Vo							
Selection criteria:	Basic_call; Telefax G3 terr								
Test purpose:	Support of Telefax G3.								
	Ensure that in the active ca	all state (N10) the Fax transfer or	n the me	dia and B-channels is				
	performed correctly and th	e echo c	ancellers in the GW are	not activ	ated. In the active				
	call state the callee sends								
ISDN Parameter	BC=3,1 kHz audio, HLC =	Facsimil	e G2/G3						
values:									
SIP Parameter values:	Dial string parameters opti	ions=PIX	IT						
	a = line RTP/AVP								
	b = line 64 kbit/s								
	m = line: 8								
	N. 0.475								
	re-INVITE								
	a = line Based on T.38.								
	b = line AS: 64								
Comments:	m = line: udptl; T38								
Comments.	ISDN		SUT		SIP				
	Case a)		301		SIF				
	SETUP	→		→	INVITE				
	ALERTING	-		+	180 Ringing				
	CONN	+		+	200 OK INVITE				
	CONN	_		→	ACK				
			Conversation		AUN				
			Conversation	+	INVITE				
				<u>`</u>	200 OK INVITE				
				-	ACK				
	DISC	+		+	BYE				
	REL	<u>`</u>		<u>`</u>	200 OK BYE				
	Case c) Supported: 100				200 OK BIL				
	rel and precondition								
	SETUP	→							
	SETUP ACK	+							
	0210171011	-							
	INFO			→	INVITE				
				+	183 Session				
					Progress				
				→	PRACK				
				+	200 OK				
				→	UPDATE				
				+	200 OK				
	ALERTING	+		+	180 Ringing				
				→	PRACK				
				+	200 OK				
	CONN	+		+	200 OK INVITE				
				→	ACK				
				+	INVITE				
				→	200 OK INVITE				
				+	ACK				
	DISC	+		+	BYE				
	REL	REL → 200 OK BYE							

6.1.1.2 Codec negotiation

IS_CN_01	ISDN reference to EN 300 403-1 [i.3], clause EN 300 899-1 [23], claus	5.1.5.1 e 2.1.1	NGN reference to: Q.1912.5 [51], clause 7.1.1 EN 383 001 [49], clause 7.1.1 ES 283 027 [48], clause 7.2.3.2.1 RFC 3264 [30]				
TSS reference:	ISDN-SIP/Basic_call/Code	c negotia	ition				
Selection criteria:	Basic_call						
Test purpose:	Ensure that the call establi						
		all state (l	N10) the voice trans	183 Session Progress message fer on the media and B-channels			
ISDN Parameter	BC=speech, no HLC	testing (200 parameters).				
values:	BC-speech, no rice						
SIP Parameter values:	Dial string parameters option	ons=PIXI	Т				
	Case a) no 100 rel Case b) Supported: 100 re	PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition					
	a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)						
Comments:							
Commonto:	ISDN		SUT	SIP			
	A) SDP pre-condition not re	equested					
	SÉTUP	→	→	INVITE offer1			
	CALL PROC	+	+	183 Session Progress answer 1			
	ALERTING	+	+	180 Ringing			
	CONNECT	+	+	200 OK INVITE			
		→	→	ACK			
	DISC	+	+	BYE			
	REL	→	→	200 OK BYE			
	b) pre-condition and 100 re	el					
	SETUP	→	→	INVITE offer 1			
	CALL PROC	+					
			+	183 Session Progress answer 1			
			→	PRACK			
			+	200 OK PRACK			
			→	UPDATE			
			←	200 OK			
	ALERTING	+	+	180 Ringing			
			→	PRACK			
			+	200 OK PRACK			
	CONNECT	+	+	200 OK INVITE			
	DISC	→	→	ACK			
	REL	+	+	BYE			
		→	→	200 OK BYE			

IS_CN_02	ISDN referer EN 300 403-1 [i.3], (EN 300 899-1 [23],	clause 5.1.5.1	E	NGN reference to: Q.1912.5 [51], clause 7.1.1 EN 383 001 [49], clause 7.1.1 ES 283 027 [48], clause 7.2.3.2.1 RFC 3264 [30]					
TSS reference:	ISDN-SIP/Basic_call/0	Codec negotia	tion						
Selection criteria:	Basic_call								
Test purpose:	Ensure that the call es The answer related to Ensure that in the activis performed correctly	the SDP offer ve call state (f	is contained in N10) the voice t	the 180 F ransfer or	Ringing message n the media and B-channels				
ISDN Parameter values:	BC=speech, no HLC								
SIP Parameter values:	Dial string parameters	options=PIXI	T						
	PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)								
Comments:									
	a) SDP pre-condition r	a) SDP pre-condition not requested							
	SETUP	→		→	INVITE offer1				
	CALL PROC	(
	ALERTING	+		+	180 Ringing answer 1				
	CONNECT	+		+	200 OK INVITE				
	331111231	→		→	ACK				
1	DISC	+		+	BYE				
	REL	→		<u>`</u>	200 OK BYE				
	b) pre-condition and 1				200 OK BTE				
	SETUP	<u>→ </u>		→	INVITE offer1				
	CALL PROC	-			INVITE OFFI				
	CALLTROO			+	183 Session Progress				
		→		→	PRACK				
		+		+	200 OK PRACK				
	ALERTING	+		+	180 Ringing Answer 1				
	ALLIVING	→ ·		→ ·	PRACK				
				+	200 OK PRACK				
	CONNECT	+		-	200 OK PRACK 200 OK INVITE				
	DISC	→ 		→ -	ACK				
	REL	+		7	BYE				
		→		→					
	200 OK BYE	7			200 OK BYE				

IS_CN_03	ISDN reference EN 300 403-1 [i.3], clau EN 300 899-1 [23], clau	se 5.1.5.1 use 2.1.1	NGN reference to: Q.1912.5 [51], clause 7.1.1 EN 383 001 [49], clause 7.1.1 ES 283 027 [48], clause 7.2.3.2.1 RFC 3264 [30]					
TSS reference:	ISDN-SIP/Basic_call/Coded	negotiation						
Selection criteria:	Basic_call							
Test purpose:	Ensure that the call establishment is performed correctly. The answer related to the SDP offer is contained in the 200 OK INVITE message. Ensure that in the active call state (N10) the voice transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters).							
ISDN Parameter	BC=speech, no HLC							
values:								
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT)							
	b = line (PIXIT)							
	m = line (PIXIT)							
Comments:								
Comments.	ISDN		SUT	SIP				
	a) SDP pre-condition not re		, 0 1	UII UII				
	SETUP	→	→	INVITE offer1				
	CALL PROC	-		INVITE OHOLI				
	ALERTING	È	+	180 Ringing				
	CONNECT	(`	200 OK INVITE answer 1				
	CONNECT	→	→	ACK				
	DICC		 	BYE				
	DISC	(
	REL	→	→	200 OK BYE				
	b) pre-condition and 100 re			IN 10 (T.E. (C. 4)				
	SETUP	→	→	INVITE offer 1				
	CALL PROC	(
			(183 Session Progress				
			→	PRACK				
			(200 OK PRACK				
	ALERTING	+	+	180 Ringing				
			→	PRACK				
			+	200 OK PRACK				
	CONNECT	+	+	200 OK INVITE answer 1				
	DISC	→	→	ACK				
	REL	+	+	BYE				
		→	→	200 OK BYE				

IS_CN_04	ISDN reference	. to:			NI.	GN reference to:			
13_CN_04						Q.1912.5 [51], clause 7.1.1			
					EN 383 001 [49], clause 7.1.1				
	EN 300 899-1 [23], clause 2.1.1				ES 283 027 [48], clause 7.1.1				
TCC reference:	RFC 3264 [30] ISDN-SIP/Basic_call/Codec negotiation								
TSS reference:		aec ne	egotiatioi	1					
Selection criteria:	Basic_call								
Test purpose:	Ensure that the call estat	blishn	nent is pe	erformed co	rrect	ly.			
						ed in the 183 Session Progress			
	message. A new offer (co								
	Ensure that in the active								
	channels is performed co	orrect	ly (e.g. te	esting QoS p	arar	neters).			
ISDN Parameter values:	BC=speech, no HLC								
SIP Parameter values:	Dial string parameters or	otions	=PIXIT						
	PIXIT for supported head	der:							
	Case a) no 100 rel								
	Case b) Supported: 100	rel							
	Case c) Supported: 100		d precor	dition					
	,		•						
	a = line (PIXIT)								
	b = line (PIXIT)								
	m = line (PIXIT)								
Comments:	(,								
	ISDN	SUT			c	SIP			
	a) SDP pre-condition not					511			
	SETUP	→	CSICG		→	INVITE Offer 1			
	<u> </u>	-			7	INVITE Offer 1			
	CALL PROC	7			,	400 Oi Dr			
					←	183 Session Progress			
						Answer 1			
	ALERTING	←			<u>←</u>	180 Ringing offer 2			
	CONNECT	+			(200 OK INVITE			
					→	ACK answer 2			
	DISC	+			(BYE			
	REL	→			→	200 OK BYE			
	b) pre-condition and 100	rel		I.					
	Option a)								
	SETUP	→			→	INVITE Offer 1			
	CALL PROC	-				IIIII GIIGI I			
	OKEETKOO	•			-	183 Session Progress			
					•	Answer 1			
					_				
		-			<u> </u>	PRACK			
					<u>←</u>	200 OK PRACK			
	ALERTING	+	ļ		<u>←</u>	180 Ringing offer 2			
			ļ		<u>→</u>	PRACK			
					←	200 OK PRACK			
	CONNECT	(←	200 OK INVITE			
		→			→	ACK answer 2			
	DISC	+			(BYE			
	REL	→			→	200 OK BYE			
	Option c)		Ì						
	SETUP	→			→	INVITE Offer 1			
	CALL PROC	′	 						
	OALL I IOO	+			(183 Session Progress			
					•	Answer 1			
		1	1		_				
	-	1	1		}	PRACK			
	AL EDTU-S	<u> </u>			<u> </u>	200 OK PRACK			
	ALERTING	+	ļ		<u>←</u>	180 Ringing offer 2			
			<u> </u>		<u>→</u>	PRACK			
		<u> </u>	<u> </u>		→	UPDATE answer 2			
					(200 OK			
					-	200 OK PRACK			
	CONNECT	+			-	200 OK INVITE			
	-	→	Ì		→	ACK			
	DISC	-			_	BYE			
	REL	<u>`</u>			<u>`</u>	200 OK BYE			
	11766	1	Ī			200 ON DIL			

IS_CN_05	ISDN reference to EN 300 403-1 [i.3], claus EN 300 899-1 [23], clau	se 5.1.5.1 se 2.1.1	NGN reference to: Q.1912.5 [51], clause 7.1.1 EN 383 001 [49], clause 7.1.1 ES 283 027 [48], clause 7.2.3.2.1 RFC 3264 [30]					
TSS reference:		ISDN-SIP/Basic_call/Codec negotiation						
Selection criteria:	Basic_call; RE-INVITE							
Test purpose:	During the session, the called user decides to change the characteristics of the media session. This is accomplished by sending a re-INVITE containing a new media description. This re-INVITE references the existing dialog so that the other party knows that it is to modify an existing session instead of establishing a new session. The other party sends a 200 (OK) to accept the change. The requestor responds to the 200 (OK) with an ACK.							
ISDN Parameter values:	BC=speech, no HLC							
SIP Parameter values:	Dial string parameters option	ns=PIXIT						
	PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition $a = line (PIXIT)$ $b = line (PIXIT)$ $m = line (PIXIT)$							
Comments:								
	ISDN		SUT	SIP				
	a) SDP pre-condition not re	rauested						
	SETUP	 	→	INVITE Offer 1				
	CALL PROC	-		INVITE OHOL I				
	CALLTROO	`	+	183 Session Progress				
	ALEDTING	+	+	180 Ringing				
	ALERTING							
	CONNECT	+	(200 OK INVITE				
			→	ACK				
			<u> </u>	RE-INVITE offer 2				
			→	200 OK answer 2				
			←	ACK				
	DISC	-	(BYE				
	REL	→	→	200 OK BYE				
	b) TS 124 229 [55] / ES 283	3 003 [42] (pre-condition an	d 100 rel)				
	SETUP	→	→	INVITE				
	CALL PROC	+						
			+	183 Session Progress				
			→	PRACK				
			-	200 OK PRACK				
			→	UPDATE				
			/	200 OK				
	ALERTING	+	+	180 Ringing				
	ALLIVING			PRACK				
			→	200 OK PRACK				
	CONNECT		+					
	CONNECT	((200 OK INVITE				
		→	→	ACK				
			(RE-INVITE offer 2				
			→	200 OK answer 2				
			←	ACK				
	DISC	+	(BYE				
1	REL	→	→	200 OK BYE				

6.1.1.3 Test purposes for ISDN-SIP Basic call Successful - UPDATE

IS_XX_UP_01				NGN reference to: EN 383 001 [49], clause 7.1.1 ES 283 027 [48], clause 7.2.3.2.1 RFC 3311 [31], clause 5.1					
TSS reference:		ISDN -SIP/Basic_call/Successful							
Selection criteria:	UPDATE proced								
Test purpose:	Ensure that the of INVITE transaction		n send UP	DATE after	comple	tion of the initial			
ISDN Parameter values:	BC=PIXIT, no H	LC							
SIP Parameter values:		Dial string parameters options=PIXIT							
	Case a) no 100 Case b) Support	PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition							
	a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)								
Comments:									
	ISDN		S	UT		SIP			
	SETUP	→			→	INVITE Offer 1			
	CALL PROC	+							
					←	183 Session Progress answer 1			
					→	PRACK			
		+ - +			←	200 OK PRACK			
	ALERTING	+			←	180 Ringing			
	CONNECT	+			←	200 OK INVITE			
					→	ACK			
			Conv	ersation					
					←	UPDATE offer			
					→	200 OK UPDATE			
	DIGG	+	Conv	ersation		D) (5			
	DISC	→			→	BYE			
	REL	←			+	200 OK BYE			

IS_XX_UP_02				ES	N 383 00 283 027	reference to: 11 [49], clause 7.1.1 [48], clause 7.2.3.2.1 11 [31], clause 5.1
TSS reference:	ISDN - SIP/Basic					
Selection criteria:	Subsequent UPD	ATE is	rejected if	a pending offe	er (PRAC	CK) is not answered
Test purpose:		sequei	nt UPDATE	following an	UPDATE	is rejected (500 Server
ISDN Parameter values:	BC=speech, no H	LC				
SIP Parameter values:	Dial string parame	eters o	ptions=PIX	IT		
	Case a) no 100 re Case b) Supporte	b = line (PIXIT)				
Comments:						
	ISDN			SUT		SIP
	SETUP	→			→	INVITE with Offer 1
	CALL PROC	←				
					+	183 Session Progress answer 1
					→	PRACK
					+	200 OK PRACK
						LIDDATE (C. O.
					-	UPDATE offer 2
					-	UPDATE offer 3
					→	500 Server Internal Error
					→	200 OK UPDATE answer 2
	ALERTING	+			+	180 Ringing
	CONNECT	È			÷	200 OK INVITE
	-	† - I			→	ACK
		1	Con	versation	<u> </u>	
	DISC	→			→	BYE
	REL	+			-	200 OK BYE

IS_XX_UP_03				NGN reference to: EN 383 001 [49], clause 7.1.1 ES 283 027 [48], clause 7.2.3.2.1 RFC 3311 [31], clause 5.1						
TSS reference:		ISDN - SIP/Basic_call/Successful Received UPDATE is rejected if a pending offer (INVITE) is not answered								
Selection criteria:										
Test purpose:	Ensure that a su (500 Server Inte					vith SDP offer is rejected answered.				
ISDN Parameter values:	BC=speech, no	HLC								
SIP Parameter values:	Dial string para PIXIT for support Case a) no 100 Case b) Support Case c) Support a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)	rted head rel ted: 100 i	ler: rel							
Comments:										
	ISDN			SUT		SIP				
	SETUP	→			→	INVITE offer 1				
	CALL PROC	←								
					←	UPDATE offer 2				
					→	500 Server Internal Error				
					←	183 Session Progress answer 1				
					→	PRACK				
				-	←	200 OK PRACK				
	ALERTING	+			←	180 Ringing				
	CONNECT	←			←	200 OK INVITE				
					→	ACK				
			Con	versation						
	DISC	→			→	BYE				
	REL	+			+	200 OK BYE				

IS_XX_UP_04		NGN reference to: EN 383 001 [49], clause 7.1.1 ES 283 027 [48], clause 7.2.3.2.1 RFC 3311 [31], clause 5.1						
TSS reference:	ISDN - SIP/Basi	c_call/S	uccessful					
Selection criteria:	Execution of UP							
Test purpose:	Ensure that an U				.g. band	dwidth parameter changed), if		
ISDN Parameter values:	BC=speech, no	HLC						
SIP Parameter values:	PIXIT for suppor Case a) no 100 Case b) Support	b = line (PIXIT)						
Comments:								
Comments.	ISDN			SUT		SIP		
	SETUP	→		001	→	INVITE with offer 1		
	OL 10.	1			 	with SDP version identifier		
	CALL PROC	+				With GDT Vereien Identifier		
	0/12211100				+	183 Session Progress answer		
					→	PRACK		
					+	200 OK (PRACK)		
					+	UPDATE with offer 2		
						different SDP version identifier		
					→	200 OK UPDATE answer 2		
				n parameter anged				
	ALEDTING				-	400 Dia sia s		
	ALERTING	-			-	180 Ringing		
	CONNECT	+			+	200 OK INVITE		
					→	ACK		
	DIGG	+	Con	versation	+	D)/E		
	DISC	→			→	BYE		
	REL	←			+	200 OK BYE		

IS_XX_UP_05			ES 2	383 0 83 027	N reference to: 01 [49], clause 7.1.1 7 [48], clause 7.2.3.2.1 11 [31], clause 5.1				
TSS reference:	ISDN - SIP/Basio								
Selection criteria:	Execution of UP	DATE	procedure, SDP version ide	ntifier	exists				
Test purpose:			E procedure is executed bu						
			rsion identifier and SDP co	ntent h	ave not changed.				
ISDN Parameter	BC=speech, no l	HLC							
values:									
SIP Parameter values:	Dial string param	neters o	options=PIXIT						
	Case a) no 100 i Case b) Support	PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition							
	a = line (PIXIT)								
	b = line (PIXIT)								
	m = line (PIXIT)								
Comments:									
	ISDN		SUT		SIP				
	SETUP	→		→	INVITE with offer 1				
					with SDP version identifier				
	CALL PROC	+							
				+	183 Session Progress answer				
				→	PRACK				
				+	200 OK (PRACK)				
					, , ,				
				+	UPDATE with offer 2				
					identical SDP as offer 1				
				→	200 OK UPDATE answer 2				
			Session parameter are no changed	ot					
	ALEDTI::0			-	Loo Bi				
	ALERTING	-		-	180 Ringing				
	CONNECT	+		-	200 OK INVITE				
			0	→	ACK				
	DICC		Conversation		DVE				
	DISC	→		→	BYE				
	REL	7		←	200 OK BYE				

6.1.1.4 Test purposes for ISDN-SIP Basic call Successful - DTMF Tests

IS_XX_DT_01	ISDN reference	to:	NGN reference to:					
10_3.10.1	EN 300 403-1 [i.3], clau		Q.1912.5 [51], clause 7.1.1					
	EN 300 899-1 [23], cla				clause 7.1.1			
					ause 7.2.3.2.1			
TSS reference:	ISDN-SIP/Basic_call/Succ	essful/DTMF						
Selection criteria:	Basic call; DTMF -Inband							
Test purpose:	Ensure that the call estable	ishment using	en-bloc sending is	perfori	med correctly.			
	Ensure that in the active of							
	transmitted inband to the		,		,			
ISDN Parameter	BC=speech, no HLC							
values:								
SIP Parameter values:	Dial string parameters opt	ions=PIXIT						
	PIXIT for supported heade	er:						
	Case a) no 100 rel							
	Case b) Supported: 100 re	el						
	Case c) Supported: 100 re	el and precond	dition					
	a = line (PIXIT)							
	b = line (PIXIT)							
	m = line (PIXIT)							
Comments:								
	ISDN		SUT		SIP			
	Case a)							
	SETUP	→		→	INVITE with offer 1			
	CALL PROC	-						
	ALERTING	+		←	180 Ringing			
	CONN	+		←	200 OK INVITE			
				→	ACK			
			Conversation					
	DISC	+		+	BYE			
	REL	→		→	200 OK BYE			
	Case c) Supported: 100							
	rel and precondition							
	SETUP	→		→	INVITE			
	CALL PROC	←						
				←	183 Session			
					Progress			
				→	PRACK			
				←	200 OK			
				→	UPDATE			
				←	200 OK			
	ALERTING	+		←	180 Ringing			
				→	PRACK			
				+	200 OK			
	CONN	+		+	200 OK INVITE			
				→	ACK			
			Conversation					
	DISC	(+	BYE			
	REL	→		→	200 OK BYE			

Values of codecs for test purposes IS_XX_DT_01										
VARIABLE	PT	Encoding	media type	clock rate	channels					
VA_01	0	PCMU	A	8,000	1					
VA_02	3	GSM	A	8,000	1					
VA_03	8	PCMA	A	8,000	1					

IS_XX_DT_02	ISDN reference	to:	NGN	refere	ence to:				
10_777_01_02	EN 300 403-1 [i.3], clar								
	EN 300 899-1 [23], cla		Q.1912.5 [51], clause 7.1.1 EN 383 001 [49], clause 7.1.1						
					lause 7.2.3.2.1				
TSS reference:	ISDN - SIP/Basic_call/Successful/DTMF								
Selection criteria:	Basic call; DTMF-RFC 283								
Test purpose:	Ensure that the call estable	ishment using e	en-bloc sending is	perfori	med correctly.				
	Ensure that in the active c	all state (N10) t	he DTMF Digits (ev	ents 0	through 15) can be				
	transmitted as payload for	DTMF Digits (F	RFC 2833 [56]) to the	ne calle	ed user.				
ISDN Parameter	BC=speech, no HLC								
values:									
SIP Parameter values:	Dial string parameters opti	ions=PIXIT							
	PIXIT for supported heade	er:							
	Case a) no 100 rel								
	Case b) Supported: 100 re								
	Case c) Supported: 100 re	el and precondit	ion						
	a = line (PIXIT)								
	b = line (PIXIT)								
	m = line (PIXIT)								
Comments:									
Comments.	ISDN		SUT		SIP				
	Case a)				- On				
	SETUP	→		→	INVITE with offer 1				
	CALL PROC	,		1 -	INVITE WITH OHOL 1				
	OALLINGO	•							
	ALERTING	+		+	180 Ringing				
	CONN	+		+	200 OK INVITE				
	001111	-		→	ACK				
			Conversation	 -	7.01				
	DISC	(Conversation	+	BYE				
	REL	<u>`</u>		→	200 OK BYE				
	Case c) Supported: 100			 -	200 OK BIL				
	rel and precondition								
	SETUP	→		→	INVITE				
	CALL PROC	+		-					
				+	183 Session				
					Progress				
				→	PRACK				
				+	200 OK				
				→	UPDATE				
				+	200 OK				
	ALERTING	+		+	180 Ringing				
	_			→	PRACK				
				+	200 OK				
	CONN	+		+	200 OK INVITE				
		-		→	ACK				
			Conversation	1-					
	DISC	(222.000.1	+	BYE				
	REL	<u>→</u>		→	200 OK BYE				

6.1.1.5 Test purposes for ISDN-SIP Basic call Successful -UDI

Successful	
UDI	

IS_UD_01	ISDN reference to:			NGN reference to:			
	EN 300 403-1 [i.3], clause 5.1.5.1 EN 300 899-1 [23], clause 2.1.1		Q.1912.5 [51], clause 7.1 EN 383 001 [49], clause 7.1				
	EN 300 899-	i [23], cia	ause 2.1.1			71 [49], clause 7.1 [48], clause 7.2.3.2	
TSS reference:	ISDN - SIP/Basio	call/Suc	rcessful/LIDI	E3 203	021	[40], Clause 7.2.3.2	
Selection criteria:	Basic call; UDI		CC33IUI/ODI				
Test purpose:		all establ	ishment using e	n-bloc sending	a is	performed correctly.	
rest purpose.	Ensure that the n						
	parameters is pe			aramotoro ana t		TVITE moosage	
				he data transfei	r on	the media and B-channels	
	is performed corr						
ISDN Parameter	BC= UDI, no HLO		<u> </u>	,			
values:	,						
SIP Parameter values:	Dial string param	eters opt	ions=PIXIT				
		•					
	PIXIT for support		er:				
	Case a) no 100 r						
	Case b) Supporte						
	Case c) Supporte	ed: 100 re	el and precondit	ion			
	a = line : rtpmap:	<dynamic< td=""><td>c-PT> CLEARM</td><td>IODE/8000</td><td></td><td></td></dynamic<>	c-PT> CLEARM	IODE/8000			
	b = line AS: 64						
	m = RTP/AVP						
Comments:	IODNI		01.17	-		CID	
	ISDN		SU			SIP	
	Case a) SETUP	→			→	INVITE	
					7	INVITE	
	CALL PROC	+			_	400 Dinging	
	ALERTING				<u>←</u> ←	180 Ringing	
	CONN				<u>▼</u>	200 OK INVITE	
			Convers		<u> </u>	ACK	
	DICC		Convers		_	DVE	
	DISC REL	→			<u>→</u> ←	BYE 200 OK BYE	
	-				_	200 OK BYE	
	Case c)				→	INIVITE	
	SETUP	→			7	INVITE	
	CALL PROC				-	102 Cassian Dragrass	
					<u>▼</u>	183 Session Progress PRACK	
		+			<u>~</u> ←	200 OK	
		+			<u>▼</u> →	UPDATE	
					<u>~</u> ←	200 OK	
	ALERTING	+			-	180 Ringing	
	ALLINING	+			<u>~</u> →	PRACK	
					7	200 OK	
	CONN	+			-	200 OK INVITE	
	COININ	+			<u>~</u> →	ACK	
			Convers			AOR	
	DISC	→	Convers		→	BYE	
	REL	+			<u>~</u> ←	200 OK BYE	
	INEL		<u> </u>		_	ZUU UN DTE	

IS_UD_02	ISDN ref	0:	NGN reference to:						
.0_02_02	EN 300 403-1 [i.			Q.1912.5 [51], clause 7.3					
	EN 300 899-1 [EN 300 899-1 [23], clause 2.1.1				EN 383 001 [49], clause 7.1			
				ES	283 027 [48], clause 7.2.3.2			
TSS reference:	ISDN-SIP/Basic_call/Successful/UDI								
Selection criteria:		Basic call; UDI; Q.1912.5 [51] Profile A							
Test purpose:	Ensure that call establishment using en-bloc sending is performed correctly.								
						TING message with the			
						I ISDN (#1)" location			
	_	interwor	king point v	when the SIP	user ansv	vers with 180 Ringing			
	message.	active c	all state (N1	IN) the data tr	anefor on	the media and B-channels			
	is performed corre					the media and B-channels			
ISDN Parameter	BC= UDI, no HLC		,. toog 🔾 c	o parameters	·/·				
values:									
SIP Parameter values:	Dial string parame	eters opt	ions=PIXIT						
		•							
	PIXIT for support		er:						
	Case a) no 100 re		_						
	Case b) Supporte			1					
	Case c) Supporte	ed: 100 re	el and preco	ndition					
	a = line : rtpmap:	-dvnami	~_DT_ CLE/	NPMODE/800	Λ				
	b = line AS: 64	Cuyriairii	5-1 12 OLLA	KIKINODE/000	U				
	m = RTP/AVP								
Comments:									
	ISDN			SUT		SIP			
	Case a)								
	SETUP	→			→	INVITE			
	CALL PROC	+							
	ALERTING	←			←	180 Ringing			
	PI #1	<u> </u>				200 014 11 11 11 11			
	CONN	+			<u>+</u>	200 OK INVITE			
			0		→	ACK			
	DICC		Con	versation		DVE			
	DISC REL	→			→ ←	BYE 200 OK BYE			
	KEL					200 OK BYE			
	Case c)	+				1			
	SETUP	→			→	INVITE			
	CALL PROC	,				IIIVII E			
	O'NEE I TOO								
		1			+	183 Session Progress			
					→	PRACK			
		L			+	200 OK			
					→	UPDATE			
					+	200 OK			
	ALERTING	+			+	180 Ringing			
	PI #1								
					→	PRACK			
	CONN	<u> </u>			-	200 OK			
	CONN	+			-	200 OK INVITE			
		1	0-	vorostis.	→	ACK			
	DISC	<u> </u>	Con	versation	→	BYE			
	REL	→			+	200 OK BYE			
	INEL					1200 ON DIE			

IS_UD _03	ISDN reference	NGN reference to:						
	EN 300 899-1 [23], cla	N 300 403-1 [i.3], clause 5.1.5.1 Q.1912.5 [51], clause 7.3 N 300 899-1 [23], clause 2.1.1						
TSS reference:	ISDN-SIP/Basic_call/Suc							
Selection criteria:	Basic call; UDI; Q.1912.5 [51] Profile B with PI							
Test purpose:	Ensure that call establishment using en-bloc sending is performed correctly.							
	Ensure that the ISDN use							
	progress indicator inform							
	Interworking point" when							
	Ensure that in the active			er on the me	dia and B-channels			
IODNI D	is performed correctly (e.	g. testing C	loS parameters).					
ISDN Parameter values:	BC= UDI, no HLC							
SIP Parameter	Dial atring parameters on	tions DIVI	F					
values:	Dial string parameters op	DIIONS=PIAI	I					
values.	PIXIT for supported head	lor:						
	Case a) no 100 rel	iei.						
	Case b) Supported: 100	rol						
	Case c) Supported: 100 (condition					
	Sade of Supported. 100 l	ioi ana piet	, or raidon					
	a = line : rtpmap: <dynam< td=""><td>ic-PT> CLE</td><td>EARMODE/8000</td><td></td><td></td></dynam<>	ic-PT> CLE	EARMODE/8000					
	b = line AS: 64							
	m = RTP/AVP							
Comments:								
	ISDN		SUT		SIP			
	Case a)							
	SETUP	→		→	INVITE			
	CALL PROC	+						
	ALERTING PI	+		←	180 Ringing			
	CONN	+		(200 OK INVITE			
				→	ACK			
			Conversation					
	DISC	→		→	BYE			
	REL	+		+	200 OK BYE			
	Case c)							
	SETUP	→		→	INVITE			
	CALL PROC	+						
				-	183 Session			
					Progress			
				→	PRACK			
				+	200 OK			
				→	UPDATE			
				+	200 OK			
	ALERTING PI# VA	+		+	180 Ringing			
				→	PRACK			
				+	200 OK			
	CONN	+		+	200 OK INVITE			
				→	ACK			
			Conversation					
	DISC	→		→	BYE			
	REL	+		+	200 OK BYE			

IS_UD_04	ISDN refe	erence to:	NGN reference to:				
.0_02_0 :		3], clause 5.1.5.1	Q.1912.5 [51], clause 7.3				
		23], clause 2.1.1			49], clause 7.3		
	_	<u>-</u> .], clause 7.2.3.2		
TSS reference:	ISDN-SIP/Basic_	call/Successful/UD		_	_		
Selection criteria:		N 383 001 [49] or E					
Test purpose:		establishment using					
					IG message without the		
	. •	r information eleme	ent when the SIP us	ser answ	ers with 180 Ringing		
	message.		IAO) the endete to end		diad D abancada ia		
				rer on the	e media and B-channels is		
ISDN Parameter	BC= UDI, no HLC	tly (e.g. testing Qos	o parameters).				
values:	DC= ODI, NO FIEC	,			ļ		
SIP Parameter values:	Dial string param	eters options=PIXI7	<u> </u>				
on randinotor valuos.	Diai othing param	otoro optiono-i iztri					
	PIXIT for support	ed header:					
	Case a) no 100 re	el					
	Case b) Supporte	ed: 100 rel					
	Case c) Supporte	ed: 100 rel and prec	ondition				
		<dynamic-pt> CLE</dynamic-pt>	:ARMODE/8000				
	b = line AS: 64 m = RTP/AVP						
Comments:	III = KIP/AVP						
Comments.	ISDN		SUT		SIP		
	Case a)		301		OII		
	SETUP	→		→	INVITE		
	CALL PROC	(
	ALERTING	+		+	180 Ringing		
	CONN	+		+	200 OK INVITE		
				→	ACK		
			Conversation				
	DISC	→		→	BYE		
	REL	+		+	200 OK BYE		
	Case c)						
	SETUP	→		→	INVITE		
	CALL PROC	←					
					400 Oi- B		
				<u>+</u>	183 Session Progress		
				}	PRACK		
				<u>+</u>	200 OK		
				<u>→</u>	UPDATE 200 OK		
	ALERTING	+			180 Ringing		
	ALENTING	~		<u> </u>	PRACK		
			+		200 OK		
	CONN	+		-	200 OK INVITE		
	COININ	`		→	ACK		
			Conversation		7.010		
	DISC	→	20117010dtioi1	→	BYE		
	REL	(+	200 OK BYE		
	_1	1					

IS_UD_05	ISDN reference to: NGN reference to:							
	EN 300 403-1 [i.3], clause 5.1.5.1 Q.1912.5 [51], clause 7.3 EN 300 899-1 [23], clause 2.1.1							
TSS reference:								
Selection criteria:	ISDN-SIP/Basic_call/Successful/UDI							
	Basic call; UDI; SIP Profile A or Profile B optional							
Test purpose:	Ensure that call establishment using en-bloc sending is performed correctly. Ensure that the ISDN user in the state U3 receives a CONNECT message with the							
	progress indicator informat							
					vers with 200 OK message.			
	Ensure that in the active ca	all state (N	10) the data tran	sfer on	the media and B-channels			
	is performed correctly (e.g.							
ISDN Parameter	BC= UDI, no HLC		,					
values:								
SIP Parameter values:	Dial string parameters option	ons=PIXI7	•					
	PIXIT for supported header	r:						
	Case a) no 100 rel							
	Case b) Supported: 100 rel		an dition					
	Case c) Supported: 100 rel	and pred	onation					
	a = line : rtpmap: <dynamic< td=""><td>-PT\ CI F</td><td>4 RMODE/8000</td><td></td><td></td></dynamic<>	-PT\ CI F	4 RMODE/8000					
	b = line AS: 64	-1 12 OLL	AINIODE/0000					
	m = RTP/AVP							
Comments:								
	ISDN		SUT		SIP			
	Case a)							
	SETUP	→		→	INVITE			
	CALL PROC	+						
	CONN PI# 1	+		+	200 OK INVITE			
				→	ACK			
			Conversation					
	DISC	→		→	BYE			
	REL	+		←	200 OK BYE			
	Case c) Supported: 100							
	rel and precondition	<u> </u>						
	SETUP	→		→	INVITE			
	CALL PROC	+						
				-	400 0			
		+		+	183 Session Progress			
		+		→	PRACK			
		+			200 OK			
		+ +		→	UPDATE 200 OK			
	CONN PI# 2	+		-	200 OK 200 OK INVITE			
	OCININ I I# Z	+ +		→	ACK			
		+ +	Conversation	+ -	7.01			
	DISC	→	Conversation	→	BYE			
	REL	+		+	200 OK BYE			
					LOU OIL DIL			

IS_UD_06	ISDN reference to:	ISDN reference to:		NGN reference to:			
	EN 300 403-1 [i.3], clause	Q.19	Q.1912.5 [51], clause 7.3				
	EN 300 899-1 [23], clause						
TSS reference:	ISDN-SIP/Basic_call/Succes	sful/Voi	ce				
Selection criteria:	Basic call; UDI; Q.1912.5 [51						
Test purpose:	Ensure that call establishment using en-bloc sending is performed correctly.						
	Ensure that the ISDN user in						
	progress indicator information element PI#1 or PI#2 or both location "Network beyond						
	Interworking point" when the	SIP use	er answers with 180	Ringing me	ssage.		
	Ensure that in the active call		er on the me	dia and B-channels is			
	performed correctly (e.g. tes	ting QoS	S parameters).				
ISDN Parameter	BC= UDI, no HLC						
values:							
SIP Parameter	Dial string parameters option	ns=PIXIT	-				
values:							
	PIXIT for supported header:						
	Case a) no 100 rel						
	Case b) Supported: 100 rel						
	Case c) Supported: 100 rel a	ana prec	ondition				
	- Unit of the second se	T 015	A DMODE (0000				
	a = line : rtpmap: <dynamic-f< td=""><td>1> CLE</td><td>ARMODE/8000</td><td></td><td></td></dynamic-f<>	1> CLE	ARMODE/8000				
	b = line AS: 64						
Commonter	m = RTP/AVP						
Comments:	ICDN		CLIT		CID		
	ISDN		SUT		SIP		
	Case a)				INIV/ITE		
	SETUP	→		→	INVITE		
	CALL PROC CONN PI	+		+	200 OK INIVITE		
	CONN PI	_			200 OK INVITE		
			Camuanatian	→	ACK		
	DIGG		Conversation		DVE		
	DISC	→		<u>→</u>	BYE		
	REL	_			200 OK BYE		
	0) 0 1 1 100 1						
	Case c) Supported: 100 rel						
	and precondition				IN IV /ITE		
	SETUP	→		→	INVITE		
	CALL PROC	-					
					183 Session		
				+			
				→	Progress PRACK		
				<u>+</u>	200 OK		
					UPDATE 200 OK		
	CONN. DI# \/A	_		+	200 OK		
	CONN PI# VA	+		+	200 OK INVITE		
			0	→	ACK		
	DIGG		Conversation		DVE		
	DISC	→		→	BYE		
	REL	←		+	200 OK BYE		

IS UD 07	ISDN reference to:		NGN reference to:				
	EN 300 403-1 [i.3], cla	EN 300 403-1 [i.3], clause 5.1.5.1		Q.1912.5 [51], clause 7.3			
	EN 300 899-1 [23], cla	ause 2.1.1	EN 383 001 [49], clause 7.1				
		ES 283 027 [48], clause 7.2.3.2					
TSS reference:		ISDN-SIP/Basic_call/Successful/UDI					
Selection criteria:	Basic call; UDI; EN 383						
Test purpose:	Ensure that call establishment using en-bloc sending is performed correctly.						
		Ensure that the ISDN user in the state U3 receives a CONNECT message without a					
	progress indicator inforn	nation elemer	nt when the SIP user a	nswers	with 200 OK		
	message.						
	Ensure that in the active call state (N10) the data transfer on the media and B-channels						
IODN D	is performed correctly (e	e.g. testing Qo	S parameters).				
ISDN Parameter	BC= UDI, no HLC						
values:	D: L · ·	e DIVIT					
SIP Parameter	Dial string parameters o	ptions=PIXI I					
values:	DIVIT for our ported has	don					
	PIXIT for supported hea Case a) no 100 rel	iuer.					
	Case b) Supported: 100	rol					
	Case c) Supported: 100		andition				
	Case c) Supported. 100	Tel alla prece	manion				
	a = line : rtpmap: <dynan< td=""><td>mic-PT> CLEA</td><td>ARMODE/8000</td><td></td><td></td></dynan<>	mic-PT> CLEA	ARMODE/8000				
	b = line AS: 64	11101 17 0227					
	m = RTP/AVP						
Comments:							
	ISDN		SUT		SIP		
	Case a)						
	SETUP	→		→	INVITE		
	CALL PROC	→					
	CONN	+		+	200 OK INVITE		
				→	ACK		
			Conversation				
	DISC	→		→	BYE		
	REL	+		←	200 OK BYE		
	Case c)						
	SETUP	→		→	INVITE		
	CALL PROC	+					
				+	183 Session		
				`	Progress		
				→	PRACK		
				+	200 OK		
				<u>→</u>	UPDATE		
					200 OK		
	CONN		+	200 OK INVITE			
		+		<u>→</u>	ACK		
			Conversation	<u> </u>	1.5.		
1							
	DISC	→		→	BYE		

IS_UD_08	ISDN refe		NGN reference to:			
	EN 300 403-1 [i.		Q.1912.5 [51], clause 7.7 EN 383 001 [49], clause 7.7			
	EN 300 899-1 [2	3], clause 2.1.1				
TSS reference:	ES 283 027 [48], clause 7.2.3.2 ISDN-SIP/Basic_call/Successful/UDI					
Selection criteria:	ISDN-SIP/Basic_call/Successful/UDI Basic call; UDI					
Test purpose:	Ensure that the call establishment and the call clearing procedure is performed correctly					
rest purpose.					message indicating	
		# 16 "normal call o		OCCIVILOT	message maleating	
		hall receive a BYE				
			ause Value #16 in t	he case of E	N 383 001 [49] and	
	ES 283 027 [48].					
ISDN Parameter	BC= UDI, no HLC	;				
values:						
SIP Parameter values:	Dial string parame	eters options=PIX	IT			
	PIXIT for support					
	Case a) no 100 re					
	Case b) Supporte		a an dition			
	Case c) Supporte	d: 100 rel and pre	condition			
	a – line · rtnman·	<dynamic-pt> CL</dynamic-pt>	EARMODE/8000			
	b = line AS: 64	caynamic i i > 0L	L/ (((() O D L/ O O O O			
	m = RTP/AVP					
Comments:	·					
	ISDN		SUT		SIP	
	Case a)					
	SETUP	→		→	INVITE	
	CALL PROC	(
	ALERTING	←		+	180 Ringing	
	CONN	+		+	200 OK INVITE	
				→	ACK	
			Conversation			
	DISC	→		→	BYE	
	REL	+		+	200 OK BYE	
	Case c)					
	SETUP	→		<u>→</u>	INVITE	
	CALL PROC	←				
				L	100 Casair	
				←	183 Session Progress	
				→	PRACK	
					200 OK	
			+	<u>→</u>	UPDATE	
				′	200 OK	
	ALERTING	←		`	180 Ringing	
			+	`	PRACK	
				′	200 OK	
	CONN	(-	200 OK INVITE	
				→	ACK	
			Conversation			
	DISC	→		→	BYE	
	REL	+		←	200 OK BYE	

IS_UD_09	ISDN refe	rence to:	NGN reference to:			
10_02_00	EN 300 403-1 [i.3], clause 5.3.3		Q.1912.5 [51], clause 7.7			
	EN 300 899-1 [2		EN 383 001 [49], clause 7.7			
	ES 283 027 [48], clause 7.2.3.2					
TSS reference:		call/Successful/UE				
Selection criteria:			ES 283 027 [48] and			
Test purpose:	Ensure that the call clearing procedure is performed correctly when the called u					
		vith a BYE messag				
			CONNECT message	e with the Ca	ause value # 16	
100110	"normal call clearing".					
ISDN Parameter	BC= UDI, no HLC	3				
values:	D: 1		_			
SIP Parameter values:	Dial string param	eters options=PIX	l I			
	DIVIT for accompand					
	PIXIT for support					
	Case a) no 100 re Case b) Supporte					
		ed: 100 rel and pre	condition			
	Case of Supporte	o. 100 lei aliu pie	CONTRICTOR			
	a = line : rtpmap:	<dynamic-pt> CL</dynamic-pt>	EARMODE/8000			
	b = line AS: 64					
	m = RTP/AVP					
Comments:						
	ISDN		SUT		SIP	
	Case a)					
	SETUP	→		→	INVITE	
	CALL PROC	+				
	ALERTING	+		+	180 Ringing	
	CONN	+		+	200 OK INVITE	
				→	ACK	
			Conversation			
	DISC	+		+	BYE	
	REL	→		→	200 OK BYE	
	Case c)					
	SETUP	→		→	INVITE	
	CALL PROC	+				
					100.0	
				+	183 Session	
					Progress	
				→	PRACK	
				+	200 OK	
				}	UPDATE	
	ALERTING	-		+	200 OK 180 Ringing	
	CONN	+			200 OK INVITE	
	CONIN	7		<u> </u>	PRACK	
				7	200 OK	
				<u> </u>	ACK	
			Conversation	7	AUN	
	DISC	-	Conversation		DVE	
	DISC	←		<u>←</u>	BYE	
	REL	7		7	200 OK BYE	

6.1.1.6 Test purposes for ISDN-SIP Basic call Unsuccessful

Unsuccessful

IS_XX_U01	ISDN refer	ence to:	l	NGN reference	to:
	EN 300 40	3-1 [i.3],	Q.19	12.5 [51], claus	se 7.7.6
	clause 5.2.5	5.1, G.1.7	EN 38	3 001 [49], clau	ıse 7.7.6
	EN 300 899-1 [23	3], clause 2.1.1	ES 283	027 [48], claus	se 7.2.3.2
TSS reference:	ISDN-SIP/Basic_ca	II/Unsuccessful			
Selection criteria:	Basic call;				
Test purpose:	Ensure that, when t				
	the circuit switched			DISCONNECT	or RELEASE
	message indicating	cause value #17 "	user busy".		
ISDN Parameter	BC = PIXIT				
values:					
SIP Parameter values:	Dial string paramete	ers options=PIXIT			
	PIXIT for supported	l header:			
	Case a) no 100 rel				
	Case b) Supported:				
	Case c) Supported:	100 rel and preco	ndition		
	" (DD(IT)				
	a = line (PIXIT)				
	b = line (PIXIT)				
	m = line (PIXIT)				***
Comments:	The originating excl				
	progress indicator #				
	release procedure a				lected. The calling
	user shall receive in		`	(2) the in-band	
	tone/announcemen	t on the B-channel			OID
	ISDN		SUT		SIP
	SETUP)		→	INVITE
	DISC	+		<u> </u>	486 Busy Here
	REL	→		→	ACK
	RLC	←			

IS_XX_U02	ISDN re	ference to:		NGN reference to:	
		403-1 [i.3],	Q.1	912.5 [51], clause 7	7.7.6
		5.2.5.1, G.1.7			
		[23], clause 2.1.1			
TSS reference:	ISDN-SIP/Basic_c	call/Unsuccessful			
Selection criteria:	Basic call;				
Test purpose:	Ensure that, wher Here (NDUB).	n the called user is bu	usy and the PRO	DXY responds with a	a 486 Busy
		ed side is initiating cang cause value #17 "		a DISCONNECT or	RELEASE
ISDN Parameter	BC = PIXIT	ig daddo valdo ii i i	acci bacy .		
values:	30 - 1 1741				
SIP Parameter values:	PIXIT for supporte	ed header:			
	Case a) no 100 re	el			
	Case b) Supporte	d: 100 rel			
	Case c) Supporte	d: 100 rel and preco	ndition		
	a = line (PIXIT)				
	b = line (PIXIT)				
	m = line (PIXIT)				
Comments:		change sends a DIS			
	progress indicator	#8 thus indicating the	nat in-band infor	mation is available.	Normal
		e applies after the in-			ed. The calling
		in the disconnect inc		12) the in-band	
		ent on the B-channel.			
	ISDN		SUT		SIP
	SETUP	→			
	DISC	(
	REL	→			
	RLC	(

IS_XX_U03	ISDN reference EN 300 403-1 [clauses 5.2.5.4, EN 300 899-1 [23], cla	i.3], G.1.9	EN	1912.5 [5 383 001 [ference to: 1], clause 7.7.6 49], clause 7.7.6 8], clause 7.2.3.2	
TSS reference:	ISDN-SIP/Basic_call/Un	successful/				
Selection criteria:	Basic call; Reason Head	der field is sup	ported			
Test purpose:		ring to the cal swer from use	ling user with a r (user alerted	a DISCON)" and ser		
ISDN Parameter values:	BC = PIXIT					
SIP Parameter values: Comments:	PIXIT for supported hea Case a) no 100 rel Case b) Supported: 100	Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT)				
	ISDN		SUT		SIP	
	SETUP	→		→	INVITE	
	CALL PROCEEDING	+				
	ALERTING	+		+	180 Ringing	
	DISC#19	←		→	CANCEL	
				+	200 OK	
				-	487 Request terminated	
				→	ACK	

IS_XX_U04	ISDN reference EN 300 403-1 [clauses 5.2.5.4, EN 300 899-1 [23], cl	i.3], G.1.9 ause 2.1.1	EN:	1912.5 [5 383 001 [ference to: 1], clause 7.7.6 49], clause 7.7.6 8], clause 7.2.3.2		
TSS reference:	ISDN-SIP/Basic_call/Un						
Selection criteria:	Basic call; Reason Head						
Test purpose:	SIP network initiate call send to the calling user initiate call clearing to the value # 20 Subscriber at	Ensure that when there is no answer from the called user (but user alerted) and if the SIP network initiate call clearing before the SCN release the call, the SIP network shall send to the calling user a 480 Temporarily unavailable message and the SCN network initiate call clearing to the calling user with a DISCONNECT message indicating cause value # 20 Subscriber absent.					
ISDN Parameter	BC = PIXIT						
values:							
SIP Parameter values:	PIXIT for supported hea Case a) no 100 rel Case b) Supported: 100	Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT)					
Comments:	IODN	Ī	OUT		I OID		
	ISDN		SUT	+	SIP		
	SETUP	→		→	INVITE		
	CALL PROCEEDING	+					
	ALERTING	+		+	180 Ringing		
	DISC#20	←		+	480 temp. Unavailable		
	REL	→		→	ACK		

IS_XX_U05	ISDN reference to: EN 300 403-1 [i.3], clauses 5.2.5.4, G.1.9 EN 300 899-1 [23], clause 2.1.1		NGN reference to: Q.1912.5 [51], clause 7.7.6 EN 383 001 [49], clause 7.7.6 ES 283 027 [48], clause 7.2.3.2				
TSS reference:	ISDN-SIP/Basic_call/Un						
Selection criteria:	Basic call; Reason Head	der field is not	supported				
Test purpose:		ring to the cal	ling user with a	DISCON	user alerted), the ISDN INECT message indicating ads to the called user a		
ISDN Parameter	BC = PIXIT						
values:							
SIP Parameter values:	PIXIT for supported hea Case a) no 100 rel Case b) Supported: 100	Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT)					
Comments:	ISDN	T	SUT	1	SIP		
	SETUP	→	301	→	INVITE		
	CALL PROCEEDING	-		+ -	IIIVIIE		
	CALL PROCEEDING			+			
	ALERTING	+		+	180 Ringing		
	DISC#19	+		→	CANCEL		
				←	200 OK		

IS_XX_U06	ISDN reference EN 300 403-1 [i. clauses 5.2.5.4, G EN 300 899-1 [23], cla	3], 6.1.9 use 2.1.1	Q.19 EN 38 ES 283	012.5 [51 33 001 [4	erence to:], clause 7.7.6 9], clause 7.7.6], clause 7.2.3.2		
TSS reference:	ISDN-SIP/Basic_call/Un						
Selection criteria:	Basic call; Reason Head						
Test purpose:	SIP network initiate call send to the calling user initiate call clearing to th value # 20 Subscriber at	Ensure that when there is no answer from the called user (but user alerted) and if the SIP network initiate call clearing before the SCN release the call, the SIP network shall send to the calling user a 480 Temporarily unavailable message and the SCN network initiate call clearing to the calling user with a DISCONNECT message indicating cause value # 20 Subscriber absent.					
ISDN Parameter	BC = PIXIT						
values:							
SIP Parameter values:	PIXIT for supported hea Case a) no 100 rel Case b) Supported: 100	Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT)					
Comments:	IODAL	1	OUT.		I OID		
	ISDN		SUT	+ .	SIP		
	SETUP	→		→	INVITE		
	CALL PROCEEDING	+					
	ALERTING	+		+	180 Ringing		
	DISC#20	+		+	480 temp. Unavailable		
	REL	→		→	ACK		

IS_XX_U07	ISDN reference to EN 300 403-1 [i.3 clauses 5.1.9, 5.3.2, 0	5],	Q.19	12.5 [51]	erence to:], clause 7.7.6 9], clause 7.7.6		
	EN 300 899-1 [23], clau], clause 7.7.0], clause 7.2.3.2		
TSS reference:	ISDN-SIP/Basic_call/Uns			•	•		
Selection criteria:	Basic call						
Test purpose:	Ensure that when the called side rejects the call and responds with a 603 Decline message containing the Cause information element indicating the cause value #21 "call reject". The circuit switched network initiates call clearing to the calling user with a DISCONNECT or RELEASE message indicating cause value # 21 "call reject".						
ISDN Parameter	BC = PIXIT		-		,		
values:							
SIP Parameter values:	PIXIT for supported head Case a) no 100 rel Case b) Supported: 100 rel	Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT)					
Comments:	ICDN		CUT	1	CID		
	ISDN SETUP	→	SUT	→	SIP		
	0=:0:			7	INVITE		
	CALL PROCEEDING DISC#21	-		+	603 Decline Unavailable		
	DI30#21				ACK		
				7	AUN		

IS_XX_U08	ISDN reference	to:	N	IGN ref	erence to:
	EN 300 403-1 [i.	- 4/], clause 7.7.6
	clauses 5.1.9, 5.3.2,				9], clause 7.7.6
	EN 300 899-1 [23], cla	use 2.1.1	ES 283	027 [48	3], clause 7.2.3.2
TSS reference:	ISDN-SIP/Basic_call/Un	successful			
Selection criteria:	Basic call;				
Test purpose:	Ensure that the call will				
	The circuit switched net				
	DISCONNECT or RELE	ASE COM	PLETE message w	ith a ca	use value # 28.
ISDN Parameter	BC = PIXIT				
values:					
SIP Parameter values:	Dial string parameters o	ptions=PIX	IT		
	DIVIT for a comparted bear	al a. u.			
	PIXIT for supported hea Case a) no 100 rel	der:			
	Case b) Supported: 100	rol			
	Case c) Supported: 100		condition		
	Case c) Supported. 100	rei and pre	Condition		
	a = line (PIXIT)				
	b = line (PIXIT)				
	m = line (PIXIT)				
Comments:		or annound	cement can be ger	nerated i	n the destination exchange
	(or intermediate exchange				G
	The originating exchang	e sends a [DISCONNECT me	ssage to	the calling user with
	progress indicator #8 the				
	release procedure applie				
	The calling user shall re		disconnect indica	tion stat	e (N12)
	the in-band tone/annour	cement.			
	ISDN		SUT		SIP-S-CSCF
	SETUP	→		→	INVITE
	CALL PROCEEDING	+			
	DISC#28	+		+	484 Address Incomplete
				→	ACK

IS_XX_U09	ISDN reference			NGN reference to:
	EN 300 403-1 [i.3], cla	use G.1.13		12.5 [51], clause 7.7.6
	EN 300 899-1 [23], cl	ause 2.1.1		3 001 [49], clause 7.7.6
			ES 283	027 [48], clause 7.2.3.2.12
TSS reference:	ISDN-SIP/Basic_call/Ur	nsuccessful		
Selection criteria:	Basic call;			
Test purpose:	Ensure that when the ca			
	The circuit switched net			
	DISCONNECT or RELE		LETE message w	vith a cause:
	# 20 "subscriber absent	t "		
ISDN Parameter	BC = PIXIT			
values:				
SIP Parameter values:	PIXIT for supported hea	ader:		
	Case a) no 100 rel			
	Case b) Supported: 100			
	Case c) Supported: 100	rel and pre	condition	
	a – line (DIVIT)			
	a = line (PIXIT) b = line (PIXIT)			
	m = line (PIXIT)			
Comments:				
Comments.	ISDN	T	SUT	
		_	301	
	SETUP	→		
	CALL PROCEEDING	+		
	DISC#20	←		

IS_XX_U10	ISDN reference	to:		NGN ref	ference to:		
	EN 300 403-1 [i.3],	Q.1912.5 [51], clause 7.7.6				
	clauses 5.2.2, 0	3.5. 7	EN 383 001 [49], clause 7.7.6				
	EN 300 899-1 [23], cla	ause 2.1.1	ES 283	027 [48]	, clause 7.2.3.2.12		
TSS reference:	ISDN-SIP/Basic_call/Un	successful					
Selection criteria:	Basic call						
Test purpose:	Ensure that when the ca Unavailable		•	-			
	the circuit switched netw DISCONNECT with Cau			e calling	user with a		
ISDN Parameter	BC = PIXIT						
values:							
SIP Parameter values:	Dial string parameters o	ptions=PIXIT					
	PIXIT for supported hea	der					
	Case a) no 100 rel						
	Case b) Supported: 100	rel					
	Case c) Supported: 100		ondition				
	a = line (PIXIT)						
	b = line (PIXIT)						
	m = line (PIXIT)						
Comments:							
	ISDN		SUT		SIP		
	SETUP	→		→	INVITE		
	CALL PROCEEDING	+					
	DISC#127	+		+	503 Service Unavailable		
				→	ACK		

IS_XX_U11	ISDN reference (EN 300 403-1 [i.3], clau EN 300 899-1 [23], clau	ise G.1.6	NGN reference to: Q.1912.5 [51], clause 7.7.6 EN 383 001 [49], clause 7.7.6 ES 283 027 [48], clause 7.2.3.2.12		
TSS reference:	ISDN-SIP/Basic_call/Un	successful			
Selection criteria:	Basic call;				
Test purpose:	Ensure that when the ca before answer from calle a CANCEL or BYE mess	ed user, the			"normal call clearing" ing to the called user with
ISDN Parameter values:	BC=PIXIT				
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)				
Comments:					
	ISDN		SUT		SIP
	SETUP	→		→	INVITE
	CALL PROCEEDING	+			
	ALERTING	+		+	180 Ringing
	DISC#16	→		→	CANCEL
	REL	+		+	200 OK CANCEL
	RLC	→		+	487 Request terminated
				→	ACK

IS_XX_U012	ISDN reference EN 300 403-1 [i.3], EN 300 899-1 [23], clar	G.1.6	Q.191 EN 383	IGN reference to: 12.5 [51], clause 7.7.6 3 001 [49], clause 7.7.6 27 [48], clause 7.2.3.2.12	
TSS reference:	ISDN-SIP/Basic_call/Un	successful			
Selection criteria:	Basic call;				
Test purpose:	Ensure that the call will I the circuit switched netw DISCONNECT with Cau	ork initiates	call clearing to the	e calling user with a	
ISDN Parameter values:	BC=PIXIT				
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)				
Comments:			1		
	ISDN		SUT		
	SETUP	→			
	CALL PROCEEDING	+			
	DISC#22	+			
	REL	→			

IS_XX_U13	ISDN reference EN 300 403-1 [i.3], clau EN 300 899-1 [23], clau	use G.1.6 use 2.1.1	NGN reference to: Q.1912.5 [51], clause 7.7.6, EN 383 001 [49], clause 7.7.6 ES 283 027 [48], clause 7.2.3.2.12 RFC 3261 [28] and RFC 4566 [25]		
TSS reference:	ISDN-SIP/Basic_call/Un	successful			
Selection criteria:	Basic call				
Test purpose:	Ensure that when there INVITE messages), the DISCONNECT message	network ini	iate call clearing	to the cal	ling user with a
ISDN Parameter values:	BC=PIXIT				
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)				
Comments:					
	ISDN		SUT		SIP
	SETUP	→		→	INVITE
	CALL PROCEEDING	+			
				→	INVITE
				→	INVITE
				→	INVITE
				→	INVITE
				→	INVITE
	DISC#20	+		→	INVITE
	REL	→			
	RLC	+			

IS_XX_U14	ISDN reference t EN 300 403-1 [i.3], clau EN 300 899-1 [23], clau	se G.1.6	Q.19 [.] EN 38 ES 283 (12.5 [51] 3 001 [4)27 [48],	erence to: , clause 7.7.6, 9], clause 7.7.6 clause 7.2.3.2.12 nd RFC 4566 [25]
TSS reference:	ISDN-SIP/Basic call/Un:	successful	111 0 020	r [zo] a	114 Ki O 4000 [20]
Selection criteria:	Basic call; Reason Head		upported		
Test purpose:	Ensure that the SUT if the SIP Failure response is interworked on receipt of a Failure message 4XX defined as SIP_Failure_VA. Sends a DISC or RELEASE message. The Cause Value in the header field set to CV_SIP is mapped to the ISDNCause Value field in the ISDNREL message with the Cause value set to CV_ ISDN.				
ISDN Parameter	BC=PIXIT				
values:					
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)				
Comments:	IODAL		OUT		OID
	ISDN	→	SUT	→	SIP
	SETUP			7	INVITE
	CALL PROCEEDING	+			
	DISC#CV_ISDN	+		+	SIP_Failure_VA
	REL	→		→	ACK
	RLC	+			

Values for test purposes IS_XX_U14					
	←REL (Cause Value) CV ISDN	←4XX/5XX/6XX SIP message SIP_Failure_VA			
VA_01	CV_ ISDN	415 Unsupported Media type CV_SIP (PIXIT)			
VA_02	CV_ ISDN	420 Bad Extension CV_SIP (PIXIT)			
VA_03	CV_ ISDN	421 Extension required CV_SIP (PIXIT)			

 $CV_SIP = CV_ISDN$

IS_XX_U15	ISDN reference to: NGN reference to:				
	EN 300 403-1 [i.3], clau				, clause 7.7.6,
	EN 300 899-1 [23], clar	use 2.1.1			9], clause 7.7.6
					clause 7.2.3.2.12
			RFC 32	61 [28] a	nd RFC 4566 [25]
TSS reference:	ISDN-SIP/Basic_call/Un				
Selection criteria:	Basic call; Reason Head				
Test purpose:	Ensure that the SUT if the				
	message 4XX defined a	s SIP_Failu	<u>ire_VA sends a D</u>	ISC with	Cause Value 127.
ISDN Parameter	BC=PIXIT				
values:					
SIP Parameter values:	Dial string parameters o	ptions=PIX	IT		
Comments:	PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)				
Comments:	ICDN	1	CLIT		
	ISDN		SUT	+	IND/ITE
	SETUP	→		→	INVITE
	CALL PROCEEDING	+		-	
	DISC#127	+		+	SIP_Failure_VA
	REL	→		→	ACK
	RLC	+			

	Values for test purposes IS_XX_U15					
	←REL (Cause Value)	←4XX/5XX/6XX SIP message				
		SIP_Failure_VA				
VA_01	127	415 Unsupported Media type				
VA_02	127	420 Bad Extension				
VA_03	127	421 Extension required				

IS_UD_U16	ISDN reference (EN 300 403-1 [i.3], clau EN 300 899-1 [23], clau	use 5.3.3	Q.19 EN 3	912.5 [5 ⁻ 83 001 [erence to: 1], clause 7.7 49], clause 7.7 clause 7.2.3.2.12
TSS reference:	ISDN-SIP/Basic_call/Un	successful			
Selection criteria:	Basic call; SIP Network				
Test purpose:	Ensure that when the SI clearing to the calling us "Bearer capability not im	er with a D	SCONNECT mes		network initiate call licating cause value # 65
ISDN Parameter	BC= UDI, no HLC				
values:					
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)				
Comments:					
	ISDN		SUT		
	SETUP	→		→	INVITE
	CALL PROCEEDING	+			
	DISC#65	+			
	REL	→			
	RLC	+			

IS_AU_U17	ISDN reference t EN 300 403-1 [i.3], clau EN 300 899-1 [23], clau	use 5.3.3	Q.1 EN 3	912.5 [5 ⁻ 83 001 [-	erence to: 1], clause 7.7 49], clause 7.7 clause 7.2.3.2.12
TSS reference:	ISDN-SIP/Basic_call/Uns	successful			
Selection criteria:	Basic call; SIP Network	does not su	pport Teleservice	FAX G3	
Test purpose:		e calling us	er with a DISCON		ervice Fax G3, the network nessage indicating cause
ISDN Parameter	BC=3,1 kHz audio, HLC:	= Facsimile	G2/G3		
values:					
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)				
Comments:				_	_
	ISDN		SUT	_	
	SETUP	→		→	INVITE
	CALL PROCEEDING	+		1	
	DISC#79	←			
	REL	→			
	RLC	←			

IS_XX_U18	ISDN reference to: EN 300 403-1 [i.3], clause 5.3.3 EN 300 899-1 [23], clause 2.1.1	NGN reference to: Q.1912.5 [51], clause 7.7 EN 383 001 [49], clause 7.7
TSS reference:	ICDN CID /Basis call/Unavessatu	ES 283 027 [48], clause 7.2.3.2.12
	ISDN-SIP /Basic_call/Unsuccessful Basic_call	
Selection criteria:	245.5 54	
Test purpose:	containing a new media description that the other party knows that it is new session.	n. This is accomplished by sending a re-INVITE . This re-INVITE references the existing dialog so to modify an existing session instead of establishing a not accept the change, he sends an error response , which also receives an ACK.
ISDN Parameter	BC=PIXIT	
values:		
SIP Parameter values:	Dial string parameters options=PIXI PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and pre a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)	
Comments:		

IS_XX_U19	ISDN reference to: EN 300 403-1 [i.3], clause 5.1.5.1 EN 300 899-1 [23], clause 2.1.1		EN ES 2 F	NGN reference to: Q.1912.5 [51], clause 7.1.1 EN 383 001 [49], clause 7.1.1 ES 283 027 [48], clause 7.2.3.2 RFC 3264 [30], clause 6		
TSS reference:	ISDN-SIP/Basic_call/Su	ccessful/Voice	Э			
Selection criteria:	Basic call					
Test purpose:	Ensure that answer rela The media stream is rej Ensure that the call is re	ected (port nu	mber is set to	zero).	e 180 Ringing message.	
ISDN Parameter values:	BC=PIXIT					
SIP Parameter values:		Dial string parameters options=PIXIT PIXIT for supported header:				
	Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)					
Comments:						
	ISDN		SUT		SIP	
	SETUP	→		→	INVITE	
	CALL PROCEEDING	+				
	ALERTING	+		+	180 Ringing answer 1	
	Case a) DISC	+		→	CANCEL	
	REL	→		+	200 OK CANCEL	
	RLC	-		+	487 Request terminated	
	RLC			→ ·	ACK	
				 7	ACK	
	Case b)			+		
	DISC	+		→	BYE	
	REL	→		+	200 OK	
	RLC	+		+	487 Request terminated	
			<u> </u>	→	ACK	

IS_XX_U20	ISDN reference EN 300 403-1 [i.3], cla EN 300 899-1 [23], c	ause 5.1.5.1 lause 2.1.1		Q.1912.5	reference to: [51], clause 7.1.1 4 [30], clause 6
TSS reference:	ISDN-SIP/Basic_call/Su	ccessful/Voice			
Selection criteria:	Basic call				
Test purpose:	Ensure that answer rela message. The media str Ensure that the call is re	ream is rejected	(port numb		
ISDN Parameter values:	BC=PIXIT				
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)				
Comments:	10511	1			1 017
	ISDN		SUT		SIP
	SETUP	→		→	INVITE offer 1
	CALL PROCEEDING	+			
				-	200 OK INVITE answer 1
				→	ACK
	DISC	+		→	BYE
	REL	→		+	200 OK
	RLC	+		+	487 Request terminated
				→	ACK

6.1.2 Test purposes for ISDN-SIP Supplementary services

6.1.2.1 CLIP/OIP

IS_XXSSCLIP01	ISDN reference to:	NGN reference to:				
	EN 300 092-1 [i.14], clause 9.3 EN 300 403-1 [i.3],	Q.1912.5 [51], clause 7.1.3 EN 383 001 [49], clause 7.1.3				
	clauses 4.5.10, 4.5.11], clause 7.2.3.2.2.3		
	Clauses 4.5.10, 4.5.11	TS 183 007 [43]				
TSS reference:	ISDN-SIP/Supplementary_service					
Selection criteria:	The called user is provided with C					
Test purpose:	Ensure that when the Calling part		d by th	e calling user (verified and		
	passed) with the APRI "presentati		0			
	The Type of number is defined as information elements is correctly of					
	rules:	lelivered to the calle	u (serv	ved) with following mapping		
	The SIP P-Asserted-Identity head	er is Derived from C	alling r	party information element		
	Address Signal.	01 10 2011100 110111 0	ag	sarty information clotholic		
	The Calling Party Number is map	oed into the SIP Fro	m head	der.		
ISDN Parameter	BC= PIXIT,					
values:						
SIP Parameter values:	Dial string parameters options=PI	XIT				
	PIXIT for supported header:					
	Case a) no 100 rel					
	Case b) Supported: 100 rel					
	Case c) Supported: 100 rel and p	recondition				
	a = line (PIXIT)					
	b = line (PIXIT)					
	m = line (PIXIT)					
Comments:						
	ISDN	SUT		SIP		
	SETUP →		→	INVITE		
	CALL PROCEEDING					
	ALEBENIO A			100 B: :		
	ALERTING CONN C		+	180 Ringing 200 OK INVITE		
	CONN +	Conversation	_	200 OK INVITE		
	DISC →	Conversation	→	BYE		
	REL +		- 	200 OK BYE		
	RLC →					

Values for the test purpose IS_XXSSCLIP01

SET	ſUP→	INVITE→	
Calling part	y number i.e.	From Header Field	P-Asserted -Identity
TYPE_NUMBER	Numbering plan identification		
	ISDN/telephony	The user is derived from the	The user is derived from the
National number	numbering plan	address string of the calling	address string of the calling
	or	party number IE	party number IE
	Unknown	sip: "+"CC+ NDC + SN	"+"CC+ NDC + SN
		@hostportion; user=phone	@hostportion; user=phone
		The user is derived from the	The user is derived from the
International		address string of the calling	address string of the calling
number		party number IE	party number IE
		sip: "+"CC+ NDC+ SN	sip: "+"CC+ NDC + SN
		@hostportion; user=phone	@hostportion; user=phone
Unknown		The user is derived from the	The user is derived from the
		address string of the calling	address string of the calling
		party number IE	party number IE
		sip: "+"CC+ NDC + SN	sip: "+"CC+ NDC + SN
		@hostportion; user=phone	@hostportion; user=phone
Subscriber number		The user is derived from the	The user is derived from the
		address string of the calling	address string of the calling
		party number IE	party number IE
		sip: "+"CC+ NDC + SN	sip: "+"CC+ NDC + SN
		@hostportion; user=phone	@hostportion; user=phone

IS_XXSSCLIP02	ISDN reference to: EN 300 092-1 [i.14], clause 9.3 EN 300 403-1 [i.3], clauses 4.5.10, 4.5.11	NGN reference to: Q.1912.5 [51], clause 7.1.3 EN 383 001 [49], clause 7.1.3 ES 283 027 [48], clause 7.2.3.2.2.3 TS 183 007, [43]					
TSS reference:	ISDN-SIP/Supplementary_services/C						
Selection criteria:	The called user is provided with CLIP						
Test purpose:	user, (and no Calling party subaddres network provided and correctly delive mapping rules:	The SIP P-Asserted-Identity header is Derived from Calling party information element Address Signal.					
ISDN Parameter	BC = PIXIT	into the SIF FIGHT	neauer.				
values:	BC = FIXIT						
SIP Parameter values:	PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel	Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT)					
Comments:							
	ISDN	SUT		SIP			
	SETUP →		→	INVITE			
	CALL PROCEEDING						
	ALERTING		←	180 Ringing			
	CONN ←		+	200 OK INVITE			
		Conversation					
	DISC →		→	BYE			
	REL ←		←	200 OK BYE			
	RLC →						

Values for the test purpose IS_XXSSCLIP02

SETUI	9→	INVITE→					
Calling party r	Calling party number i.e.		P-Asserted -Identity				
TYPE_NUMBER	Numbering plan identification						
No or invalid calling party number information element (see note)		Default Public user identity	Default Public user identity				
-	·	sip: "+"CC+ NDC + SN	sip: "+"CC+ NDC + SN				
		@hostportion; user=phone @hostportion; user=phone					
NOTE: Validity conditio ITU-T Q.951 [i.1		umber information element are	defined in clause 3.5.2.2.1 of				

IS_XXSSCLIP03	ISDN reference to: EN 300 092-1 [i.14], clause 9.3 EN 300 403-1 [i.3], clauses 4.5.10, 4.5.11	EN:	1912.5 383 00 3 027 [reference to: [51], clause 7.1.3 1 [49], clause 7.1.3 48], clause 7.2.3.2.2.3			
			TS	183 007 [43]			
TSS reference:	SDN-SIP/Supplementary_services/CLIP						
Selection criteria:	The called user is provided with CLIP						
	Special arrangement applies						
Test purpose:	Ensure that when a special arrangement applies and a Calling party number information element and a valid calling number is provided by the calling user, the user provided, not screened number (generic number) delivered to the called (served) user. In the SIP From header field the addr-spec is derived from unscreened Calling party number. The SIP P-Asserted-Identity header is Derived from Calling party information element						
ISDN Parameter	BC = PIXIT	Address Signal.					
values:	DC = PIXII						
SIP Parameter values:	Dial string parameters options=PIXIT						
	PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition $a = line (PIXIT)$ $b = line (PIXIT)$ $m = line (PIXIT)$						
Comments:							
	ISDN	SUT		SIP			
	SETUP →		→	INVITE			
	CALL PROCEEDING ←						
	ALERTING ←	ALERTING ← 180 Ringing					
	CONN ←		+	200 OK INVITE			
		Conversation					
	DISC →		→	BYE			
	REL +		+	200 OK BYE			
	RLC →						

Values for the test purpose IS_XXSSCLIP03

SETUP→		IN	/ITE→
Calling party number i.e.		From Header Field	P-Asserted -Identity
TYPE_NUMBER	Numbering plan identification		
National number	ISDN/telephony numbering plan	The user is derived from the address string of the calling	Default Public user identity
	or <i>Unknown</i>	party number IE sip: "+"CC+ NDC + SN @hostportion; user=phone	sip: "+"CC+ NDC + SN @hostportion; user=phone
International		The user is derived from the address string of the calling	Default Public user identity
number		party number IE sip: "+"CC+ NDC + SN @hostportion: user=phone	sip: "+"CC+ NDC + SN @hostportion; user=phone

IS_XXSSCLIP04	ISDN reference to: EN 300 092-1 [i.14], clause 9. EN 300 403-1 [i.3], clauses 4.5.10, 4.5.11	EN : ES 283	1912.5 [51] 383 001 [49 3 027 [48],	rence to: , clause 7.1.3)], clause 7.1.3 clause 7.2.3.2.2.3 007 [43]			
TSS reference:	ISDN-SIP/Supplementary_service	s/CLIP					
Selection criteria:	The called user is provided with C Special arrangement applies.						
Test purpose:	Ensure that when a special arran information element is provided by the calling user is correctly deliver described in the attached table.	the calling user, the	ne default n	umber of the access of			
ISDN Parameter	BC = PIXIT						
values:							
SIP Parameter values:	Dial string parameters options=PI	XIT					
	PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition						
	a = line (PIXIT)						
	b = line (PIXIT)						
	m = line (PIXIT)						
Comments:							
	ISDN	SUT		SIP			
	SETUP →		→	INVITE			
	CALL PROCEEDING						
	ALERTING		+	180 Ringing			
	CONN +		+	200 OK INVITE			
		Conversation					
	DISC →		→	BYE			
	REL ←		+	200 OK BYE			
	RLC →						

Mapping rules for the test purpose IS_XXSSCLIP04

SETUP→		INVITE→		
Calling party number i.e.		From Header Field	P-Asserted -Identity	
TYPE_NUMBER	Numbering plan identification			
No or invalid calling party number information element		Default Public user identity	Default Public user identity	
			sip: "+"CC+ NDC + SN @hostportion; user=phone	

6.1.2.2 CLIR/OIR

IS_XXSSCLIR01	ISDN reference to: EN 300 093-1 [i.4], clause 9.4.1, EN 300 092-1 [i.14], clause A.2 Figure 2			EN ES 28	1912 383 33 02 T	GN reference to: 2.5 [51], clause 7.1.3 001 [49], clause 7.1.3 7 [48], clause 7.2.3.2.2.3 'S 183 007 [43] 23 [33], RFC 3325 [34]
TSS reference:	ISDN-SIP/Supplementary_se	ervices/	CLIR			
Selection criteria:	The calling user is provided	with CL	IR permane	ent mode	e subs	scription
Test purpose:	Ensure that when the Calling party subaddress: Sends a INVITE message will "unavailable" and no P-Asse	here the	e he SIP Fr	om head	der fie	
ISDN Parameter	BC = PIXIT					
values:						
SIP Parameter values: Comments:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)					
Comments.	ISDN	т —	SUT			SIP
	SETUP	→	301		→	INVITE
	CALL PROCEEDING	+				IIIVIIE
	CALL PROCEEDING					
	ALERTING	+			+	180 Ringing
	CONN	+			←	200 OK INVITE
			Conversa	ation		
	DISC	→			<u>→</u>	BYE
	REL	+			+	200 OK BYE
	RLC	→				

IS_XXSSCLIR02	EN 300 093-1	eference to: [i.4], clause 9.4.1, 4], clause A.2 Figure 2	Q.1912 EN 383 ES 283 02	001 [49], 7 [48], cl 'S 183 00	clause 7.1.3 clause 7.1.3 ause 7.2.3.2.2.3	
TSS reference:	ISDN-SIP/Suppler	mentary_services/CLIR				
Selection criteria:		provided with CLIR tem				
Test purpose:	"presentation rest Sends a INVITE n	the Calling party numbe ricted" and with Calling p nessage where the he S no P-Asserted-Identity h	oarty subaddress: IP From header f	eld is set		
ISDN Parameter values:	BC=PIXIT					
SIP Parameter values:	PIXIT for supporte Case a) no 100 re Case b) Supporte	b = line (PIXIT)				
Comments:						
	ISDN		SUT		SIP	
	SETUP CALL PROCEEDING	→ ←		→	INVITE	
	ALERTING 180 Ring					
	CONN	←	ve re etie re	+	200 OK INVITE	
	DICC		versation		BYE	
	DISC REL	→		<u>→</u>		
	RLC	→			200 OK BYE	
	KLC	7				

IS_XXSSCLIR03	ISDN reference to: EN 300 093-1 [i.4], clause 9.4.1 EN 300 092-1 [i.14], clause A.2 Figure 2		2 EN ES 28	NGN reference to: Q.1912.5 [51], clause 7.1.3 EN 383 001 [49], clause 7.1.3 ES 283 027 [48], clause 7.2.3.2.2.3 TS 183 007 [43] RFC 3323 [33], RFC 3325 [34]		
TSS reference:	ISDN-SIP/Supplementary_ser	vices/CLIR				
Selection criteria:	The calling user is provided w	ith CLIR pe	ermanent mod	le subs	scription	
Test purpose:	Ensure that when no Calling party subaddress): Sends a INVITE message who "unavailable" and no P-Assert	ere the he	SIP From hea	der fie		
ISDN Parameter values:	BC=PIXIT					
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)					
Comments:				1		
	ISDN	_	SUT		SIP	
	SETUP	→		→	INVITE	
	CALL PROCEEDING	+				
	<u> </u>					
	ALERTING	+		+	180 Ringing	
	CONN	`		+	200 OK INVITE	
		Co	nversation			
	DISC	→		→	BYE	
	REL	+		+	200 OK BYE	
	RLC	→				

IS_XXSSCLIR04	ISDN reference to: EN 300 093-1 [i.4], clause 9.4. EN 300 092-1 [i.14], clause A.2 Figure 2	2	EN 3 ES 283 RFC	912.5 83 00 027 [TS	reference to: [51], clause 7.1.3 [1 [49], clause 7.1.3 48], clause 7.2.3.2.2.3 183 007 [43] [33], RFC 3325 [34]	
TSS reference: Selection criteria:	ISDN-SIP/Supplementary_services The calling user is provided with CI			2 01160	porintion	
	The called user is provided with CL Special arrangement applies.	ΙΡ;				
Test purpose:	Ensure that when a special arrangement applies and a Calling party number information element and a valid calling number with presentation in not allowed is provided by the calling user: Sends a INVITE message where the he SIP From header field is set to "anonymous" or "unavailable" and no P-Asserted-Identity header is received.					
ISDN Parameter	BC = PIXIT					
values: SIP Parameter values:						
	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)					
Comments:	1001		01.17		0.00	
	ISDN		SUT		SIP	
	SETUP -			→	INVITE	
	CALL PROCEEDING ←	•				
	ALEBENIO A					
	ALERTING +			<u>+</u>	180 Ringing	
	CONN ←			+	200 OK INVITE	
			Conversation			
	DISC -			<u>→</u>	BYE DYE	
	REL +			+	200 OK BYE	
	RLC →	•				

6.1.2.3 COLP/COLR (TIP/TIR)

IS_XXSSCOLP01	EN : EN	N reference to: 800 092-1 [i.14] 300 403-1 [i.3]	EN ES	reference to: 383 001 [49] 283 027 [48] 183 008 [44]		
TSS reference:	ISDN-SIP/SS/0	COLP				
SIP selection criteria:	Temporary mo	de presentation not restri	cted			
ISDN selection criteria:	COLP service	has been requested by th	e calling party			
Test purpose:	SIP_MESSAG from the terming no P- sends information	Ensure that the SUT on receipt of a provisional 1XX response defined as SIP_MESSAGE_VA with priv-value component is set to "none" has been received rom the terminating user: on P-Preferred-Identity header field is provided within the 1xx response sends a CONNECT message with the Connected Party Number information element coded: Address signals = default public user identity Numbering plan indicator = ISDN numbering plan				
	_	Type of number = PIXIT	- lobit nambering p	Siair		
		Screening indicator = net	work provided			
				esentation allowed		
SIP Parameter values:		- Address presentation restriction indicator = presentation allowed Dial string parameters options=PIXIT				
	Case a) no 100 Case b) Suppo Case c) Suppo a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)	PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)				
ISDN Parameter	CONNECT;					
values:	Connected nu					
	User provided	I, not screened Connect	t ed Party Number ne	ot present		
Comments:			•			
	ISDN	SU		SIP		
	SETUP	→	→	INVITE		
	CALL PROC	+				
	XXXX	-	+	SIP_MESSAGE_VA		
	CONN	+	+	200 OK INVITE		
			→	ACK		
		Conversation	Conversation			
	DISC	→	→	BYE		
	REL	+	+	200 OK BYE		
	RLC	→				

	Values for test purpose IS_XXSSCOLP01		
VA	SIP MESSAGE_VA		
VA_1	180 Ringing		
VA_2	183 Session Progress		

IS_XXSSCOLP02	EN 3	N reference to: 300 092-1 [i.14] 300 403-1 [i.3]		EN 3 ES 2	reference to: 183 001 [49] 183 027 [48] 83 008 [44]	
TSS reference:	ISDN-SIP/SS/C	ISDN-SIP/SS/COLP				
SIP selection criteria:	Temporary mod	Temporary mode presentation not restricted				
ISDN selection criteria:	COLP service h	COLP service has been requested by the calling party				
Test purpose:	Ensure that the SUT on receipt of a provisional 1XX response defined as SIP_MESSAGE_VA with priv-value component is set to "id" has been received from the terminating user: • no P-Preferred-Identity header field is provided within the 1xx response • sends a CONNECT message with the Connected Party Number information element coded: - Address signals = not available - Numbering plan indicator = ISDN numbering plan - Type of number = (PIXIT) - Screening indicator = network provided				as been received from the 1xx response arty Number	
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)					
ISDN Parameter values:						
Comments:					2:2	
	ISDN		SUT		SIP	
	SETUP)		→	INVITE	
	CALL PROC	(
	XXXX	+		+	SIP_MESSAGE_VA	
	CONN	-		+	200 OK INVITE	
				→	ACK	
	2100	Conversation	Co	nversation		
	DISC)		<u>→</u>	BYE	
	REL	+		+	200 OK BYE	
	RLC	→				

	Values for test purpose IS_XXSSCOLP02
VA	SIP MESSAGE_VA
VA_1	180 Ringing
VA_2	183 Session Progress

IS_XXSSCOLP03	EN 3 EN 3	l reference to: 00 092-1 [i.14] 300 403-1 [i.3]	EN :	reference to: 383 001 [49] 283 027 [48] 183 008 [44]		
TSS reference:	ISDN-SIP/SS/C					
SIP selection criteria:		Temporary mode presentation not restricted				
ISDN selection criteria:	COLP service has been requested by the calling party					
Test purpose:	Ensure that the SUT on receipt of a provisional 1XX response defined as SIP_MESSAGE_VA with priv-value component is set to "user" has been received from the terminating user: • no P-Preferred-Identity header field is provided within the 1xx response • sends a CONNECT message with the Connected Party Number information element coded: - Address signals = not available					
		Numbering plan indicato	i = iodiv numbering p	Dian		
		Type of number = PIXIT Screening indicator = ne	twork provided			
		Address presentation re		acontation rootricted		
SIP Parameter values:		meters options=PIXIT	striction indicator = pr	esentation restricted		
ISDN Parameter	PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT) CONNECT;					
values:	Connected num		J Darty Number not nu	rocent		
Common outo	Oser provided,	not screened Connected	a Party Number not pr	esent		
Comments:	ISDN	91	UT	SIP		
	SETUP	→	→	INVITE		
	CALL PROC		7	INVITE		
	XXXX	-	+	SIP_MESSAGE_VA		
	CONN	-	-	200 OK INVITE		
	COININ		→ ·	ACK		
				AOR		
		Conversation	Conversation			
	DISC	->	Onversation	BYE		
	REL			200 OK BYE		
	RLC	→	`	ZOO OR BIL		
	INLO					

Values for test purpose IS_XXSSCOLP03		
VA	SIP MESSAGE_VA	
VA_1	180 Ringing	
VA_2	183 Session Progress	

IS_XXSSCOLP04		N reference to:			eference to:	
		300 092-1 [i.14]			33 001 [49]	
	EN	300 403-1 [i.3]			33 027 [48]	
				TS 18	33 008 [44]	
TSS reference:		ISDN-SIP/SS/COLP				
SIP selection criteria:	Temporary mode presentation not restricted					
ISDN selection criteria:	COLP service has been requested by the calling party					
Test purpose:	SIP_MESSAC		e compon	ent is set to "hea	ader" has been received	
	• send	ds a CONNECT mess	sage with t			
	_	Address signals = r		le		
	-	Numbering plan ind	icator = IS	DN numbering p	olan	
	-	Type of number = F				
	-	Screening indicator				
	-			on indicator = pr	esentation restricted	
SIP Parameter values:	Dial string parameters options=PIXIT					
		ported header:				
	Case a) no 100 rel					
	Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition					
			econdition			
	a = line (PIXIT)					
	b = line (PIXIT)					
ISDN Parameter values:	m = line (PIXIT) CONNECT:					
liodiv Farameter values.	CONNECT; Connected number					
	User provided, not screened Connected Party Number not present					
Comments:	OSCI PIOVIGE	a, not sorcence oo	illicotca i	arty Hamber III	or present	
Commonto.	ISDN		SUT		SIP	
	SETUP	→		→	INVITE	
	CALL	(_		
	PROC	_				
	XXXX	+		+	SIP MESSAGE VA	
	CONN	+		+	200 OK INVITE	
	-	ACK				
		Conversation		Conversation		
	DISC	→		→	BYE	
	REL	+		+	200 OK BYE	
	RLC	→				

Values for test purpose IS_XXSSCOLP04		
VA	SIP MESSAGE_VA	
VA_1	180 Ringing	
VA 2	183 Session Progress	

IS_XXSSCOLP05	EN:	N reference to: 300 092-1 [i.14] 300 403-1 [i.3]		EN:	reference to: 383 001 [49] 283 027 [48]
					183 008 [44]
TSS reference:	ISDN-SIP/SS/COLP				
SIP selection criteria:	Temporary mo	ode presentation not	restricted	t	
ISDN selection criteria:	COLP service has been requested by the calling party				
Test purpose:	Ensure that the SUT having not received a provisional 1XX response, on receipt of a 200 OK INVITE for this call without a Privacy header field: • no P-Preferred-Identity header field is provided within the 200 OK response sends a CONNECT message with the Connected Party Number information				
	element coded: - Address signals = default public user identity - Numbering plan indicator = ISDN numbering plan - Type of number = PIXIT - Screening indicator = network provided - Address presentation restriction indicator = presentation allowed				
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)				
ISDN Parameter values:	ANM; Connected number User provided, not screened Connected Party Number not present				
Comments:				•	
	ISDN		SUT		SIP
	SETUP	→		→	INVITE
	CALL PROC	+			
	CONN	+		+	200 OK INVITE
				→	ACK
		Conversation		Conversation	
	DISC	→		→	BYE
	REL	+		←	200 OK BYE
	RLC	→			

IS_XXSSCOLP06	ISDN reference to: EN 300 092-1 [i.14] EN 300 403-1 [i.3]		EN ES	reference to: 383 001 [49] 283 027 [48] 183 008 [44]		
TSS reference:	ISDN-SIP/SS/	/COLP				
SIP selection criteria:	Temporary m	Temporary mode presentation not restricted				
ISDN selection criteria:	COLP service has been requested					
Test purpose:	Ensure that the SUT on receipt of a 200 OK INVITE for this call with a Privacy header field was received with the value "none" has been received: • no P-Preferred-Identity header field is provided within the 200 OK response • sends a CONNECT message with the Connected Party Number information element coded: - Address signals = default public user identity - Numbering plan indicator = ISDN numbering plan - Type of number = PIXIT					
	-	Screening indicator = n	etwork provided			
	-	Address presentation re	striction indicator =	presentation allowed		
ISDN Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT) CONNECT; Connected Party Number information element User provided, not screened Connected Party Number not present NoAS: NoA VALUE					
Comments:						
	ISDN	SU		SIP		
	SETUP CALL PROC	→	→	INVITE		
	ALERTING	+	+	180 Ringing		
	CONN	(+	200 OK INVITE		
			→	ACK		
		Conversation	Conversation	+		
	DISC	- Conversation	- Conversation	BYE		
	REL	,	′	200 OK BYE		
	RLC	→		200 010 12		
L	I. (FO			_1		

IS_XXSSCOLP07	EN 3	N reference to: 800 092-1 [i.14],	EN:	reference to: 383 001 [49]	
	EN	300 403-1 [i.3]		283 027 [48] 183 008 [44]	
TSS reference:	ISDN-SIP/SS/	/COLP	13	183 008 [44]	
SIP selection criteria:	Temporary mode presentation not restricted				
ISDN selection criteria:		has been requested	10104		
Test purpose:	Ensure that the SUT on receipt of a 200 OK INVITE for this call with a Privacy hea field was received with the value "PRIV_VALUE" has been received:				
				thin the 200 OK response	
	 send 	ls a CONNECT message	•	Party Number information	
	eiem	ient coded: Address signals = not av	(ailabla		
	_	Numbering plan indicato		ınlan	
	_	Type of number = PIXIT	r – robry namboning	, plan	
	-	Screening indicator = ne			
	_	Address presentation re-	•	presentation restricted	
SIP Parameter values:	Dial string par	ameters options=PIXIT			
	PIXIT for supr	oorted header:			
	Case a) no 10				
	Case b) Supp				
	Case c) Supp	orted: 100 rel and precon	dition		
	a = line (PIXIT)				
	b = line (PIXIT				
	m = line (PIXI	T)			
ISDN Parameter values:	CONNECT;				
	Connected Pa	arty Number information e	lement		
-	User provided	I, not screened Connected	d Party Number not	present	
Comments:				T	
	ISDN	SU		SIP	
	SETUP	→	→	INVITE	
	CALL	←			
	PROC			1,22,51	
	ALERTING	+	-	180 Ringing	
	CONN	+	+	200 OK INVITE	
			→	ACK	
		Conversation	Conversation		
	DISC	→	→	BYE	
	REL	(+	200 OK BYE	
	RLC	→			
	j		1	1	

	Values for test purpose IS_XXSSCOLP07		
VA	PRIV_VALUE		
VA_1	ld		
VA_2	User		
VA_3	Header		

IS_XXSSCOLP08	EN 3 EN 3	N reference to: 800 092-1 [i.14] 300 403-1 [i.3]	EN :	reference to: 383 001 [49] 283 027 [48] 183 008 [44]	
TSS reference:	ISDN-SIP/SS/COLP				
SIP selection criteria:	Temporary mod	de presentation restricted			
ISDN selection criteria:		nas been requested by the			
Test purpose:	Ensure that the SUT on receipt of a provisional 1XX response defined as SIP_MESSAGE_VA with priv-value component is set to "none" has been received f the terminating user: • no P-Preferred-Identity header field is provided within the 1xx response • sends a CONNECT message with the Connected Party Number informatic element coded:				
		Address signals = default p	ublic user identity		
		Numbering plan indicator =		olan	
	- '	Type of number = PIXIT	٠.		
	- ;	Screening indicator = netwo	ork provided		
		Address presentation restri	ction indicator = pr	esentation allowed	
SIP Parameter values:	Dial string para	meters options=PIXIT			
	PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)				
ISDN Parameter	CONNECT;				
values:	Connected nun				
_	User provided,	not screened Connected P	arty Number not pr	resent	
Comments:		I			
	ISDN	SUT		SIP	
	SETUP	→	→	INVITE	
	CALL PROC	+			
	XXXX	+	-	SIP_MESSAGE_VA	
	CONN	←	-	200 OK INVITE	
			→	ACK	
		Conversation	Conversation		
	DISC	→	→	BYE	
	REL	+	+	200 OK BYE	
	RLC	→			

	Values for test purpose IS_XXSSCOLP08		
VA	SIP MESSAGE_VA		
VA_1	180 Ringing		
VA_2	183 Session Progress		

IS_XXSSCOLP09	EN 3 EN 3	N reference to: 100 092-1 [i.14] 1300 403-1 [i.3]	EN 38 ES 28	eference to: 83 001 [49] 83 027 [48] 33 008 [44]		
TSS reference:	ISDN-SIP/SS/COLP					
SIP selection criteria:	Temporary mod	de presentation restricted				
ISDN selection criteria:	COLP service h	nas been requested by the	calling party			
Test purpose:	Ensure that the SUT on receipt of a provisional 1XX response defined as SIP_MESSAGE_VA with priv-value component is set to "id" has been received from the terminating user: • no P-Preferred-Identity header field is provided within the 1xx response • sends a CONNECT message with the Connected Party Number information element coded: - Address signals = not available - Numbering plan indicator = ISDN numbering plan					
		Type of number = (PIXIT)		···		
		Screening indicator = netwo	ork provided			
		Address presentation restri		sentation restricted		
SIP Parameter values:		meters options=PIXIT	outer maleuter – pro-			
	PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)					
ISDN Parameter	CONNECT;					
values:	Connected nun					
_	User provided,	not screened; Connected F	Party Number not pre	esent		
Comments:		T				
	ISDN	SUT		SIP		
	SETUP	→	→	INVITE		
	CALL PROC	+				
	XXXX	+	+	SIP_MESSAGE_VA		
	CONN	←	←	200 OK INVITE		
			→	ACK		
		Conversation	Conversation			
	DISC	→	→	BYE		
	REL ← 200 OK BYE					
	RLC →					

Values for test purpose IS_XXSSCOLP09			
VA	SIP MESSAGE_VA		
VA_1	180 Ringing		
VA_2	183 Session Progress		

IS_XXSSCOLP10	EN 3 EN	N reference to: 300 092-1 [i.14] 300 403-1 [i.3]	EN 38 ES 28	eference to: 33 001 [49] 33 027 [48] 33 008 [44]	
TSS reference:	ISDN-SIP/SS/0	COLP			
SIP selection criteria:	Temporary mo	de presentation restricted			
ISDN selection criteria:	COLP service	has been requested by the	calling party		
Test purpose:	Ensure that the SUT on receipt of a provisional 1XX response defined as SIP_MESSAGE_VA with priv-value component is set to "user" has been received from the terminating user. • no P-Preferred-Identity header field is provided within the 1xx response • sends a CONNECT message with the Connected Party Number information element coded: - Address signals = not available - Numbering plan indicator = ISDN numbering plan				
		Type of number = PIXIT	1021 Tramboning Pic		
		Screening indicator = netwo	ork provided		
		Address presentation restri		sentation restricted	
SIP Parameter values:		ameters options=PIXIT	otion indicator – prot	ontailen reemetee	
	PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)				
ISDN Parameter	CONNECT;				
values:	Connected nur				
	User provided,	not screened; Connected F	Party Number not pre	esent	
Comments:			T		
	ISDN	SUT	-	SIP	
	SETUP	→	→	INVITE	
	CALL PROC	+			
	XXXX	+	+	SIP_MESSAGE_VA	
	CONN	-	+	200 OK INVITE	
			→	ACK	
		Conversation	Conversation		
	DISC	→	→	BYE	
	REL	+	+	200 OK BYE	
	RLC →				

	Values for test purpose IS_XXSSCOLP10			
VA	SIP MESSAGE_VA			
VA_1	180 Ringing			
VA_2	183 Session Progress			

IS_XXSSCOLP11	EN 3 EN	N reference to: 300 092-1 [i.14] 300 403-1 [i.3]	NGN reference to: EN 383 001 [49] ES 283 027 [48] TS 183 008 [44]			
TSS reference:	ISDN-SIP/SS/					
SIP selection criteria:	Temporary mo	ode presentation restrict	ed			
ISDN selection criteria:		has been requested by				
Test purpose:	Ensure that the SUT on receipt of a provisional 1XX response defined as SIP_MESSAGE_VA with priv-value component is set to "header" has been received from the terminating user: • no P-Preferred-Identity header field is provided within the 1xx response • sends a CONNECT message with the Connected Party Number information element coded: - Address signals = not available - Numbering plan indicator = ISDN numbering plan - Type of number = PIXIT - Screening indicator = network provided					
SIP Parameter values:		Address presentation reameters options=PIXIT	estriction indicator = p	resentation restricted		
ISDN Parameter values:	PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT) CONNECT; Connected number User provided, not screened; Connected Party Number not present					
Comments:						
	ISDN		JT	SIP		
	SETUP CALL PROC	→	→	INVITE		
	XXXX	+	+	SIP_MESSAGE_VA		
	CONN					
	→ ACK					
		Conversation	Conversation			
	DISC	→	→	BYE		
	REL	-	'	200 OK BYE		
	RLC	→		ZOU OR DIL		
	INLO					

Values for test purpose IS_XXSSCOLP11				
VA	SIP MESSAGE_VA			
VA_1	180 Ringing			
VA_2	183 Session Progress			

IS_XXSSCOLP12	EN 3 EN 3	I reference to: 00 092-1 [i.14] 300 403-1 [i.3]		EN 38 ES 28	eference to: 33 001 [49] 33 027 [48] 33 008 [44]	
TSS reference:	ISDN-SIP/SS/C					
SIP selection criteria:		de presentation res				
ISDN selection criteria:		nas been requested				
Test purpose:	Ensure that the SUT having not received a provisional 1XX response, on receipt of a 200 OK INVITE for this call without a Privacy header field: • no P-Preferred-Identity header field is provided within the 1xx response • sends a CONNECT message with the Connected Party Number information element coded: - Address signals = not available - Numbering plan indicator = ISDN numbering plan - Type of number = PIXIT - Screening indicator = network provided					
		Address presentation			sentation restricted	
SIP Parameter values:	Dial string para	meters options=PI		Trindicator – proc	octricited .	
	PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)					
ISDN Parameter values:	CONNECT; Connected number User provided, not screened Connected Party Number not present					
Comments:						
	ISDN		SUT		SIP	
	SETUP	→		→	INVITE	
	CALL PROC	+				
	CONN	+		+	200 OK INVITE	
	→ ACK					
		Camuanastia		Compression		
	D100	Conversation		Conversation	D)/E	
	DISC	→		→	BYE	
	REL	(+	200 OK BYE	
	RLC	→				

IS_XXSSCOLP13	EN 3 EN 3	l reference to: 00 092-1 [i.14] 300 403-1 [i.3]		EN 38 ES 28	eference to: 33 001 [49] 33 027 [48] 33 008 [44]
TSS reference:	ISDN-SIP/SS/C	OLP			
SIP selection criteria:	Temporary mod	de presentation restr	icted		
ISDN selection criteria:		nas been requested l			
Test purpose:	Ensure that the SUT having not received a provisional 1XX response, on receipt of a 200 OK INVITE for this call, a Privacy header field with the value "none" has been received: • no P-Preferred-Identity header field is provided within the 200 OK response • sends a CONNECT message with the Connected Party Number information element coded: - Address signals = default public user identity - Numbering plan indicator = ISDN numbering plan				
		Type of number = PI		0.	
		Screening indicator =		provided	
		Address presentation			sentation allowed
SIP Parameter values:		meters options=PIXI		,	
	PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)				
ISDN Parameter	CONNECT;				
values:	Connected number Address signals = default public user identity User provided, not screened; Connected Party Number not present				
Comments:					
	ISDN		SUT		SIP
	SETUP	→		→	INVITE
	CALL PROC	+			
	CONN	+		+	200 OK INVITE
	_			→	ACK
		Conversation		Conversation	
	DISC	→		→	BYE
	REL	+		+	200 OK BYE
	RLC	→			

IS_XXSSCOLP14	EN 30	I reference to: 00 092-1 [i.14],		EN 38	eference to: 3 001 [49]		
	EN 3	300 403-1 [i.3]			3 027 [48] 3 008 [44]		
TSS reference:	ISDN-SIP/SS/COLP						
SIP selection criteria:		de presentation restricte	d				
ISDN selection criteria:		nas been requested by t		g party			
Test purpose:	Ensure that the SUT having not received a provisional 1XX response, on receipt of a 200 OK INVITE for this call, a Privacy header field with the value "PRIV_VALUE" has been received: • no P-Preferred-Identity header field is provided within the 200 OK response • sends a CONNECT message with the Connected Party Number information element coded: - Address signals = not available - Numbering plan indicator = ISDN numbering plan - Type of number = PIXIT - Screening indicator = network provided						
	- 1	Address presentation re	striction	indicator = pres	entation restricted		
SIP Parameter values:	PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)						
ISDN Parameter	CONNECT;						
values:	Connected number Address signals = not available User provided, not screened Connected Party Number not present						
Comments:							
	ISDN		SUT		SIP		
	SETUP	→		→	INVITE		
	CALL PROC						
	CONN ← 200 OK INVITE						
		→ ACK					
		Conversation		Conversation			
	DISC	→		→	BYE		
	REL	-		′	200 OK BYE		
	RLC	→					

IS_XXSSCOLP15	ISDN reference to: EN 300 092-1 [i.14] EN 300 403-1 [i.3]			NGN reference to: EN 383 001 [49] ES 283 027 [48] TS 183 008 [44]				
TSS reference:		SDN-SIP/SS/COLP						
SIP selection criteria:		de presentation restric	ted					
ISDN selection criteria:	COLP service h	nas been requested						
Test purpose:	Ensure that the SUT on receipt of a 200 OK INVITE for this call with a Privacy header field was received with the value "none" has been received: • no P-Preferred-Identity header field is provided within the 200 OK response • sends a CONNECT message with the Connected Party Number information element coded: - Address signals = default public user identity - Numbering plan indicator = ISDN numbering plan - Type of number = PIXIT							
		Screening indicator =						
		Address presentation		indicator = pres	sentation allowed			
ISDN Parameter values: ISDN Parameter values: Comments:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT) COONECT; Connected Party Number information element User provided, not screened Connected Party Number not present NoAS: NoA_VALUE							
Comments.	ISDN		SUT		SIP			
	SETUP	→	301	→	INVITE			
				7	IIIVIIE			
	CALL PROC				400 Dinging			
	ALERTING	+		<u>+</u>	180 Ringing			
	CONN	+		<u> </u>	200 OK INVITE			
				→	ACK			
		0		0				
	DIGG	Conversation		Conversation	5) (5			
	DISC	→		<u>→</u>	BYE			
	REL	(-	200 OK BYE			
	RLC	→						

IS_XXSSCOLP16	EN 3	I reference to: 00 092-1 [i.14], 300 403-1 [i.3]		EN 38 ES 28	eference to: 13 001 [49] 13 027 [48] 3 008 [44]			
TSS reference:	ISDN-SIP/SS/C	SDN-SIP/SS/COLP						
SIP selection criteria:		de presentation not res	stricted					
ISDN selection criteria:		nas been requested						
Test purpose:	Ensure that the SUT on receipt of a 200 OK INVITE for this call with a Privacy header field was received with the value "PRIV_VALUE" has been received: • no P-Preferred-Identity header field is provided within the 200 OK response • sends a CONNECT message with the Connected Party Number information element coded: - Address signals = not available - Numbering plan indicator = ISDN numbering plan - Type of number = PIXIT							
		Screening indicator =		ovided				
		Address presentation	•		entation restricted			
SIP Parameter values:		meters options=PIXIT		indicator – proc	onadion roomotou			
	PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT)							
	b = line (PIXIT)							
ISDN Parameter	m = line (PIXIT)							
values:	CONNECT; Connected Party Number information element User provided, not screened Connected Party Number not present NoAS: NoA_VALUE							
Comments:								
	ISDN		SUT		SIP			
	SETUP	→		→	INVITE			
	CALL PROC	+						
	ALERTING	+		+	180 Ringing			
	CONN	+	İ	+	200 OK INVITE			
		→ ACK						
		Conversation		Conversation	 			
	DISC	- Conversation		→	BYE			
	REL				200 OK BYE			
	RLC	→			ZUU UN BTE			
	IKLU	7						

	Values for test purpose IS_XXSSCOLP16					
VA	PRIV_VALUE					
VA_1	ld					
VA_2	User					
VA_3	Header					

IS_XXSSCOLP17	EN 3 EN	N reference to: 800 092-1 [i.14] 300 403-1 [i.3]	EN 38 ES 28	eference to: 33 001 [49] 33 027 [48] 33 008 [44]			
TSS reference:	ISDN-SIP/SS/0	COLP					
SIP selection criteria:	permanent mod	de					
ISDN selection criteria:		has been requested by the					
Test purpose:	Ensure that the SUT on receipt of a provisional 1XX response defined as SIP_MESSAGE_VA with priv-value component is set to "none" has been received from the terminating user: • no P-Preferred-Identity header field is provided within the 200 OK response • sends a CONNECT message with the Connected Party Number information element coded: - Address signals = default public user identity - Numbering plan indicator = ISDN numbering plan						
		Type of number = PIXIT					
		Screening indicator = netwo					
		Address presentation restri	ction indicator = pres	sentation allowed			
ISDN Parameter values: ISDN Parameter values: Comments:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT) CONNECT; Connected number User provided, not screened Connected Party Number not present						
Comments:	ICDN	CLIT	·	SIP			
	ISDN	SUT		- · · ·			
	SETUP	→	→	INVITE			
	CALL PROC	<u> </u>		OID MESSAGE VA			
	XXXX	+	<u> </u>	SIP_MESSAGE_VA			
	CONN	+	-	200 OK INVITE			
		→ ACK					
		Conversation	Conversation				
	DISC	→	→	BYE			
	REL	+	+	200 OK BYE			
	RLC	→					

Values for test purpose IS_XXSSCOLP17				
VA	SIP MESSAGE_VA			
VA_1	180 Ringing			
VA_2	183 Session Progress			

IS_XXSSCOLP18	EN 3 EN 3	l reference to: 00 092-1 [i.14] 300 403-1 [i.3]		EN 38 ES 28	eference to: 13 001 [49] 13 027 [48] 3 008 [44]		
TSS reference:	ISDN-SIP/SS/C	OLP					
SIP selection criteria:	Permanent mod	de					
ISDN selection criteria:	COLP service h	nas been requested by	the callir	ng party			
Test purpose:	Ensure that the SUT having not received a provisional 1XX response, on receipt of a 200 OK INVITE for this call without a Privacy header field: • no P-Preferred-Identity header field is provided within the 200 OK response • sends a CONNECT message with the Connected Party Number information element coded: - Address signals = not available - Numbering plan indicator = ISDN numbering plan - Type of number = PIXIT - Screening indicator = network provided						
SIP Parameter values:	- Address presentation restriction indicator = presentation restricted Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)						
ISDN Parameter values:	Connected num	CONNECT; Connected number User provided, not screened Connected Party Number not present					
Comments:	ISDN	Т	SUT	1	SIP		
			301	→			
	SETUP	→		7	INVITE		
	CALL PROC				000 01/ 10 1/175		
	CONN	+		-	200 OK INVITE		
		→ ACK					
		Conversation		Conversation			
	DISC	- Conversation		->	BYE		
	REL				200 OK BYE		
	RLC	→		`	200 OK BIL		
	INLO	,		<u> </u>			

IS_XXSSCOLP19	ISDN reference to: EN 300 092-1 [i.14] EN 300 403-1 [i.3]			NGN reference to: EN 383 001 [49] ES 283 027 [48] TS 183 008 [44]				
TSS reference:	ISDN-SIP/SS/C	SDN-SIP/SS/COLP						
SIP selection criteria:	Permanent mod	de						
ISDN selection criteria:	COLP service h	nas been requested by	the callin	g party				
Test purpose:	Ensure that the SUT on receipt of a 200 OK INVITE for this call with a Privac field was received with the value "none" has been received: • no P-Preferred-Identity header field is provided within the 200 OK receipts the second secon							
	• sends eleme		ge with the available	Connected Par	ty Number information			
		Type of number = PIX		v numbering pie	al I			
		Screening indicator =		rovided				
		Address presentation			entation allowed			
SIP Parameter values:		meters options=PIXIT		indicator – pres	dentation allowed			
ISDN Parameter values:	PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT) CONNECT; Connected Party Number information element User provided, not screened Connected Party Number not present NoAS: NoA_VALUE							
Comments.	ISDN		SUT		SIP			
	SETUP	→	301	→	INVITE			
		+		7	IIIVIIE			
	CALL PROC				400 Diversions			
	ALERTING	-		-	180 Ringing			
	CONN	+		+	200 OK INVITE			
				→	ACK			
		Conversation		Conversation				
	DISC	Conversation		-	BYE			
				-				
	REL			_ ~	200 OK BYE			
	RLC	→						

IS_XXSSCOLP20	EN 3	N reference to: 600 092-1 [i.14], 300 403-1 [i.3]	EN 38	eference to: 33 001 [49] 33 027 [48]				
	LIN	300 4 03-1 [1.3]		33 008 [44]				
TSS reference:	ISDN-SIP/SS/	COLP						
SIP selection criteria:		Temporary mode presentation not restricted						
ISDN selection criteria:	COLP service	has been requested by the	e calling party					
Test purpose:	Ensure that the SUT on receipt of a provisional 1XX response defined as							
		E_VA with priv-value com	ponent is set to "non	e" has been received				
	from the termin	o .						
		eferred-Identity header field						
		s a CONNECT message w	with the Connected Pa	arty Number information				
	elem	ent coded: Address signals = default	nublic upor identity					
	_	Numbering plan indicator		Jan				
	_	Type of number = PIXIT	- ISDN Humbering p	nai i				
	_	Screening indicator = net	work provided					
	-	Address presentation rest	-	esentation allowed				
SIP Parameter values:	Dial string para	ameters options=PIXIT						
	PIXIT for supp							
	Case a) no 10							
	Case b) Suppo		••					
	Case c) Suppo	orted: 100 rel and precond	tion					
	a = line (PIXIT	.)						
	b = line (PIXIT							
	m = line (PIXI)							
ISDN Parameter values:	CONNECT;	- 7						
	Connected nu	mber						
	User provided	, not screened Connected	Party Number not pr	esent				
Comments:								
	ISDN	SUT		SIP				
	SETUP	→	→	INVITE				
	CALL PROC	+						
	XXXX	+	+	SIP_MESSAGE_VA				
	CONN	←	+	200 OK INVITE				
			→	ACK				
		Conversation	Conversation					
	DISC	→	→	BYE				
	REL	+	+	200 OK BYE				
	RLC	→						

Values for test purpose IS_XXSSCOLP20				
VA	SIP MESSAGE_VA			
VA_1	180 Ringing			
VA_2	183 Session Progress			

IS_XXSSCOLP21	EN 3 EN	N reference to: 800 092-1 [i.14] 300 403-1 [i.3]	EN 38 ES 28	eference to: 33 001 [49] 33 027 [48] 33 008 [44]		
TSS reference:	ISDN-SIP/SS/C	COLP				
SIP selection criteria:	Temporary mod	de presentation not restricte	ed			
ISDN selection criteria:	COLP service I	nas been requested by the	calling party			
Test purpose:	SIP_MESSAGI the terminating		onent is set to "id" ha	as been received from		
	 P-Preferred-Identity header field is provided within the 1xx response Sends a CONNECT message with the Connected Party Number information element coded: Address signals = not available Numbering plan indicator = ISDN numbering plan Type of number = (PIXIT) Screening indicator = network provided 					
SIP Parameter values:		Address presentation restri meters options=PIXIT	ction indicator = pres	seniation restricted		
	PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)					
ISDN Parameter	CONNECT;					
values:	Connected nun User provided,	nber not screened Connected P	arty Number not pre	sent		
Comments:						
	ISDN	SUT		SIP		
	SETUP	→	→	INVITE		
	CALL PROC	+				
	XXXX	+	+	SIP_MESSAGE_VA		
	CONN	+	+	200 OK INVITE		
		 	<u>`</u>	ACK		
				AON		
		Conversation	Conversation			
	DISC	→	→	BYE		
	REL	+	+	200 OK BYE		
	RLC	→				

Values for test purpose IS_XXSSCOLP21					
VA	SIP MESSAGE_VA				
VA_1	180 Ringing				
VA_2	183 Session Progress				

IS_XXSSCOLP22	EN 3 EN	N reference to: 800 092-1 [i.14] 300 403-1 [i.3]	EN 38 ES 28	eference to: 33 001 [49] 33 027 [48] 33 008 [44]		
TSS reference:	ISDN-SIP/SS/0	COLP				
SIP selection criteria:	Temporary mo	de presentation not restricte	ed			
ISDN selection criteria:	COLP service	nas been requested by the	calling party			
Test purpose:	SIP_MESSAGE the terminating		onent is set to "user"	has been received from		
	 P-Preferred-Identity header field is provided within the 1xx response Sends a CONNECT message with the Connected Party Number information element coded: Address signals = not available Numbering plan indicator = ISDN numbering plan Type of number = PIXIT Screening indicator = network provided 					
SIP Parameter values:		Address presentation restri meters options=PIXIT	ction indicator – pres	seritation restricted		
ISDN Parameter	PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)					
	CONNECT;					
values:	Connected nur		arty Nyumbar nat ara	aant		
Camananta	Oser provided,	not screened Connected P	arty Number not pre	sent		
Comments:	ISDN	SUT	- T	SIP		
	SETUP	→	→	INVITE		
	CALL PROC	<u> </u>		015 145001 05 1/4		
	XXXX	+	+	SIP_MESSAGE_VA		
	CONN	+	+	200 OK INVITE		
			→	ACK		
		Conversation	Conversation			
	DISC	→	→	BYE		
	REL	+	+	200 OK BYE		
	RLC	→				

Values for test purpose IS_XXSSCOLP22			
VA	SIP MESSAGE_VA		
VA_1	180 Ringing		
VA_2	183 Session Progress		

IS_XXSSCOLP23	ISDN	I reference to:		NGN re	eference to:		
_	EN 3	EN 300 092-1 [i.14]			EN 383 001 [49]		
	EN 3	300 403-1 [i.3]		ES 28	3 027 [48]		
				TS 18	3 008 [44]		
TSS reference:		SDN-SIP/SS/COLP					
SIP selection criteria:		de presentation not restri					
ISDN selection criteria:	COLP service h	COLP service has been requested by the calling party					
Test purpose:		SUT on receipt of a pro-					
	SIP_MESSAGE_VA with priv-value component is set to "header" has been rec						
	from the termina	•					
		ferred-Identity header fie					
		a CONNECT message nt coded:	with the	Connected Pa	rty Number information		
		ni coded. Address signals = not av	ailahla				
		Numbering plan indicato		numbering als	an		
		Type of number = PIXIT	1 – 10011	numbering pic	411		
		Screening indicator = ne	twork pro	ovided			
		Address presentation res	•		sentation restricted		
SIP Parameter values:		meters options=PIXIT					
	0.	•					
	PIXIT for suppo						
	Case a) no 100						
	Case b) Suppor						
	Case c) Suppor	rted: 100 rel and precond	dition				
	- Un - (DIVIT)						
	a = line (PIXIT) b = line (PIXIT)						
	m = line (PIXIT)						
ISDN Parameter	CONNECT;						
values:	Connected num	nher					
		not screened Connected	d Party N	umber not pres	sent		
Comments:				· · · · ·			
	ISDN	S	UT		SIP		
	SETUP	→		→	INVITE		
	CALL PROC	+					
	XXXX	+		+	SIP_MESSAGE_VA		
	CONN	+		+	200 OK INVITE		
				→	ACK		
		Conversation		Conversation			
	DISC	→		→	BYE		
	REL	+		+	200 OK BYE		
	RLC	→					
		L					

	Values for test purpose IS_XXSSCOLP23			
VA	SIP MESSAGE_VA			
VA_1	180 Ringing			
VA_2	183 Session Progress			

IS_XXSSCOLP24	EN 3	I reference to: 00 092-1 [i.14] 300 403-1 [i.3]		EN 38 ES 28	eference to: 33 001 [49] 33 027 [48] 33 008 [44]		
TSS reference:	ISDN-SIP/SS/C	ISDN-SIP/SS/COLP					
SIP selection criteria:	Temporary mod	de presentation not restri	cted				
ISDN selection criteria:	COLP service h	as been requested by the	ne calling	party			
Test purpose:	Ensure that the SUT having not received a provisional 1XX response, on receipt of a 200 OK INVITE for this call without a Privacy header field: • P-Preferred-Identity header field is provided within the 200 OK response • Sends a CONNECT message with the Connected Party Number information element coded: - Address signals = default public user identity - Numbering plan indicator = ISDN numbering plan - Type of number = PIXIT - Screening indicator = network provided						
SIP Parameter values:		Address presentation res meters options=PIXIT	striction in	dicator = pres	sentation allowed		
ICDN Parameter	PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)						
ISDN Parameter values:	ANM; Connected num User provided,	nber not screened Connected	l Party Nu	ımber not pre	sent		
Comments:	IODNI				O.D.		
	ISDN		UT		SIP		
	SETUP)		→	INVITE		
	CALL PROC	+					
	CONN	+		-	200 OK INVITE		
				→	ACK		
		Conversation	(Conversation			
	DISC	→		→	BYE		
	REL	′		′	200 OK BYE		
	RLC	→		•	200 011 212		

IS_XXSSCOLP25	EN 3 EN 3	I reference to: 00 092-1 [i.14] 300 403-1 [i.3]		EN 38 ES 28	eference to: 33 001 [49] 33 027 [48] 33 008 [44]		
TSS reference:		ISDN-SIP/SS/COLP					
SIP selection criteria:	Temporary mod	de presentation not re	estricted				
ISDN selection criteria:		nas been requested					
Test purpose:	Ensure that the SUT on receipt of a 200 OK INVITE for this call with a Privacy header field was received with the value "none" has been received: • P-Preferred-Identity header field is provided within the 200 OK response • Sends a CONNECT message with the Connected Party Number information element coded: - Address signals = default public user identity - Numbering plan indicator = ISDN numbering plan						
		Type of number = PI>					
		Screening indicator =					
		Address presentation		indicator = pres	sentation allowed		
ISDN Parameter values: ISDN Parameter values: Comments:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT) CONNECT; Connected Party Number information element User provided, not screened Connected Party Number not present NoAS: NoA_VALUE						
Comments:	ICDNI		CLIT		CID		
	ISDN SETUP	_	SUT		SIP		
		}		→	INVITE		
	CALL PROC	+		-	400 B: :		
	ALERTING	+		<u>+</u>	180 Ringing		
	CONN	+		+	200 OK INVITE		
				→	ACK		
		Conversation		Conversation			
	DISC	→		→	BYE		
	REL	′		/	200 OK BYE		
	RLC	→		`	ZOO OK DIL		
	INLO						

IS_XXSSCOLP26	EN 3 EN 3	N reference to: 100 092-1 [i.14] 1300 403-1 [i.3]	EN 38 ES 28	eference to: 83 001 [49] 83 027 [48] 83 008 [44]		
TSS reference:	ISDN-SIP/SS/COLP					
SIP selection criteria:		de presentation not restrict	ed			
ISDN selection criteria:	COLP service has been requested					
Test purpose:	Ensure that the SUT on receipt of a 200 OK INVITE for this call with a Privacy header field was received with the value "PRIV_VALUE" has been received: • P-Preferred-Identity header field is provided within the 200 OK response • Sends a CONNECT message with the Connected Party Number information element coded: - Address signals = not available - Numbering plan indicator = ISDN numbering plan					
		Type of number = PIXIT				
		Screening indicator = netw				
		Address presentation restr	iction indicator = pres	sentation restricted		
ISDN Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT) CONNECT; Connected Party Number information element					
0	User provided,	not screened Connected F	arty Number not pre	sent		
Comments:	ISDN	SU'	- 	SIP		
	SETUP	→ SU	<u> </u>	INVITE		
			7	IINVII E		
	CALL PROC	(400 Dinging		
	ALERTING	+	-	180 Ringing		
	CONN	+	-	200 OK INVITE		
			→	ACK		
		Conversation	Conversation			
	DISC	→	→	BYE		
	REL	+	+	200 OK BYE		
	RLC	→				

Values for test purpose IS_XXSSCOLP26				
VA	PRIV_VALUE			
VA_1	ld			
VA_2	User			
VA 3	Header			

IS_XXSSCOLP27	EN 3 EN	N reference to: 300 092-1 [i.14] 300 403-1 [i.3]	EN 38 ES 28	eference to: 33 001 [49] 33 027 [48] 33 008 [44]	
TSS reference:	ISDN-SIP/SS/0	COLP			
SIP selection criteria:	Temporary mo	de presentation restricted			
ISDN selection criteria:		has been requested by the			
Test purpose:	Ensure that the SUT on receipt of a provisional 1XX response defined as SIP_MESSAGE_VA with priv-value component is set to "none" has been received the terminating user: • P-Preferred-Identity header field is provided within the 1xx response • Sends a CONNECT message with the Connected Party Number information.				
		ent coded:		,	
		Address signals = default	oublic user identity		
		Numbering plan indicator =		an	
		Type of number = PIXIT			
		Screening indicator = netw			
		Address presentation restr	riction indicator = pres	sentation allowed	
SIP Parameter values:	Dial string para	ameters options=PIXIT			
	PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)				
ISDN Parameter	CONNECT;				
values:	Connected nur				
	User provided,	not screened Connected F	Party Number not pre	sent	
Comments:			_		
	ISDN	SU		SIP	
	SETUP	→	→	INVITE	
	CALL PROC	+			
	XXXX	+	-	SIP_MESSAGE_VA	
	CONN	+	+	200 OK INVITE	
			→	ACK	
		Conversation	Conversation		
	DISC	→	→	BYE	
	REL	+	+	200 OK BYE	
	RLC	→			

	Values for test purpose IS_XXSSCOLP27			
VA	SIP MESSAGE_VA			
VA_1	180 Ringing			
VA_2	183 Session Progress			

IS_XXSSCOLP28	ISDN	I reference to:	NGN re	eference to:		
IO_XXGGGGEI 20	_	00 092-1 [i.14]		33 001 [49]		
		300 403-1 [i.3]		33 027 [48]		
		300 400 1 [0]		33 008 [44]		
TSS reference:	ISDN-SIP/SS/COLP					
SIP selection criteria:		de presentation restricted				
ISDN selection criteria:		nas been requested by the	calling party			
Test purpose:	Ensure that the SUT on receipt of a provisional 1XX response defined as					
	SIP_MESSAGE_VA with priv-value component is set to "id" has been received from					
	the terminating					
		ferred-Identity header field				
		a CONNECT message wi	th the Connected Pa	rty Number information		
		nt coded:				
		Address signals = not avail				
		Numbering plan indicator =	ISDN numbering pla	an		
		Type of number = (PIXIT)	ark provided			
		Screening indicator = netwo				
SIP Parameter values:		Address presentation restri meters options=PIXIT	ction indicator = pres	sentation restricted		
SIP Parameter values.	Diai String para	meters options=PIXII				
	PIXIT for suppo	orted header:				
	Case a) no 100					
	Case b) Suppor					
		rted: 100 rel and preconditi	on			
	, , , , , ,	•				
	a = line (PIXIT)					
	b = line (PIXIT)					
	m = line (PIXIT)					
ISDN Parameter	CONNECT;					
values:	Connected num					
	User provided,	not screened; Connected F	Party Number not pre	esent		
Comments:	1001			I OID		
	ISDN	SUT		SIP		
	SETUP	→	→	INVITE		
	CALL PROC	+		OID MESSAGE VA		
	XXXX	+	+	SIP_MESSAGE_VA		
	CONN	+	+	200 OK INVITE		
			→	ACK		
		0	0-1- "			
	DIGG	Conversation	Conversation	D)/E		
	DISC)	→	BYE		
	REL	+	+	200 OK BYE		
	RLC	→				

Values for test purpose IS_XXSSCOLP28			
VA	SIP MESSAGE_VA		
VA_1	180 Ringing		
VA_2	183 Session Progress		

IS_XXSSCOLP29	EN 3 EN	N reference to: 800 092-1 [i.14] 300 403-1 [i.3]	EN 38 ES 28	eference to: 33 001 [49] 33 027 [48] 33 008 [44]		
TSS reference:	ISDN-SIP/SS/COLP					
SIP selection criteria:	Temporary mo	de presentation restricted				
ISDN selection criteria:	COLP service I	has been requested by the	calling party			
Test purpose:	Ensure that the SUT on receipt of a provisional 1XX response defined as SIP_MESSAGE_VA with priv-value component is set to "user" has been received the terminating user:					
	 P-Preferred-Identity header field is provided within the 1xx response sends a CONNECT message with the Connected Party Number information element coded: Address signals = not available Numbering plan indicator = ISDN numbering plan Type of number = PIXIT Screening indicator = network provided 					
SIP Parameter values:		Address presentation restri	ction indicator – proc	Sentation restricted		
ISDN Parameter	PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)					
ISDN Parameter	CONNECT;					
values:	Connected nur		Double Meanalage and a second			
0	User provided,	not screened; Connected F	Party Number not pre	esent		
Comments:	ISDN	CUIT	- 1	SIP		
		SUT		INVITE		
	SETUP	→	→	INVITE		
	CALL PROC	+		OID MESSAGE VA		
	XXXX	+	-	SIP_MESSAGE_VA		
	CONN	+	+	200 OK INVITE		
			→	ACK		
		Conversation	Conversation			
	DISC	->	->	BYE		
			+			
	REL	-		200 OK BYE		
	RLC	<u> </u>		1		

Values for test purpose IS_XXSSCOLP29			
VA	SIP MESSAGE_VA		
VA_1	180 Ringing		
VA_2	VA_2 183 Session Progress		

IS_XXSSCOLP30	EN 3 EN	N reference to: 300 092-1 [i.14] 300 403-1 [i.3]	EN 38 ES 28	eference to: 33 001 [49] 33 027 [48] 33 008 [44]		
TSS reference:	ISDN-SIP/SS/0	ISDN-SIP/SS/COLP				
SIP selection criteria:	Temporary mo	de presentation restricted				
ISDN selection criteria:	COLP service	has been requested by the	calling party			
Test purpose:	SIP_MESSAG from the termin P-Pre sends eleme	e SUT on receipt of a provis E_VA with priv-value componenting user: Inferred-Identity header field is a CONNECT message with ent coded: Address signals = not avail	onent is set to "head is provided within the h the Connected Pa	er" has been received e 1xx response		
		Numbering plan indicator =		an		
		Type of number = PIXIT	10DIT Hamboring pic	311		
		Screening indicator = netwo	ork provided			
		Address presentation restri		sentation restricted		
SIP Parameter values:		Dial string parameters options=PIXIT				
	PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)					
ISDN Parameter	CONNECT;					
values:	Connected nur					
	User provided, not screened Connected Party Number, number not present					
Comments:				1		
	ISDN	SUT		SIP		
	SETUP	→	→	INVITE		
	CALL PROC	+				
	XXXX	+	+	SIP_MESSAGE_VA		
	CONN	-	+	200 OK INVITE		
			→	ACK		
		Conversation	Conversation			
	DISC	→	→	BYE		
	REL	+	+	200 OK BYE		
	RLC	→				

Values for test purpose IS_XXSSCOLP30		
VA	SIP MESSAGE_VA	
VA_1	180 Ringing	
VA_2	183 Session Progress	

IS_XXSSCOLP31	EN 3 EN 3	I reference to: 00 092-1 [i.14] 300 403-1 [i.3]		EN 38 ES 28	eference to: 33 001 [49] 33 027 [48] 33 008 [44]	
TSS reference:	ISDN-SIP/SS/C	SDN-SIP/SS/COLP				
SIP selection criteria:	Temporary mod	de presentation resti	ricted			
ISDN selection criteria:		as been requested				
Test purpose:	Ensure that the SUT having not received a provisional 1XX response, on receipt of a 200 OK INVITE for this call without a Privacy header field: • P-Preferred-Identity header field is provided within the 1xx response • sends a CONNECT message with the Connected Party Number information element coded: - Address signals = not available - Numbering plan indicator = ISDN numbering plan - Type of number = PIXIT - Screening indicator = network provided					
SIP Parameter values:	- Address presentation restriction indicator = presentation restricted Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)					
ISDN Parameter values:	CONNECT; Connected num User provided,	nber not screened Conne	ected Party	Number not pre	sent	
Comments:	ISDN		SUT		SIP	
	SETUP	→	301	→	INVITE	
	CALL PROC	+		7	IIIVI I C	
					000 01/ INI) //TE	
	CONN	+		+	200 OK INVITE	
				→	ACK	
		Conversation		Conversation		
	DISC	->		->	BYE	
	REL			+	200 OK BYE	
	RLC	→		_		

IS_XXSSCOLP32	EN : EN	N reference to: 300 092-1 [i.14] 300 403-1 [i.3]	EN 3 ES 2	eference to: 83 001 [49] 83 027 [48] 83 008 [44]	
TSS reference:	ISDN-SIP/SS/				
SIP selection criteria:	Temporary me	ode presentation restricte	ed		
ISDN selection criteria:		has been requested by			
Test purpose:	200 OK INVIT received:	E for this call, a Privacy	neader field with the v		
	 P-Preferred-Identity header field is provided within the 200 OK response sends a CONNECT message with the Connected Party Number information element coded: Address signals = default public user identity Numbering plan indicator = ISDN numbering plan 				
	_	Type of number = PIXIT Screening indicator = no			
	_	Address presentation re		recentation allowed	
SIP Parameter values:	Dial string par	rameters options=PIXIT	striction maleator – p	esentation anowed	
PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)					
ISDN Parameter values:		ımber Address signals = I, not screened; Connect			
Comments:					
	ISDN	Sl	JT	SIP	
	SETUP	→	→	INVITE	
	CALL PROC	+			
	CONN	+	+	200 OK INVITE	
			→	ACK	
				,	
		Conversation	Conversation	+	
	DISC	-	->	BYE	
			-		
	REL	→		200 OK BYE	
	RLC	7			

IS_XXSSCOLP33	ISDN reference to: EN 300 092-1 [i.14] EN 300 403-1 [i.3]			EN 38 ES 28	eference to: 33 001 [49] 33 027 [48] 33 008 [44]
TSS reference:	ISDN-SIP/SS/COLP				
SIP selection criteria:		ode presentation re			
ISDN selection criteria:		has been request			
Test purpose:	Ensure that the SUT having not received a provisional 1XX response, on receipt of a 200 OK INVITE for this call, a Privacy header field with the value "PRIV_VALUE" has been received: • P-Preferred-Identity header field is provided within the 200 OK response • sends a CONNECT message with the Connected Party Number information element coded: - Address signals = not available - Numbering plan indicator = ISDN numbering plan - Type of number = PIXIT - Screening indicator = network provided - Address presentation restriction indicator = presentation restricted				
SIP Parameter values:	Dial string par	rameters options=F		ion indicator – pr	esentation restricted
ISDN Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT) CONNECT:				
	Connected number Address signals = not available				
	User provided, not screened Connected Party Number not present				
Comments:					
	ISDN		SUT		SIP
	SETUP	→		→	INVITE
	CALL PROC	+			
	CONN	+		(200 OK INVITE
				→	ACK
		Conversation		Conversation	
	DISC	→		→	BYE
	REL	+		←	200 OK BYE
	RLC	→			

	Values for test purpose IS_XXSSCOLP33		
VA	PRIV_VALUE		
VA_1	ld		
VA_2	User		
VA_3	Header		

IS_XXSSCOLP34	EN 3 EN	N reference to: 800 092-1 [i.14] 300 403-1 [i.3]	EN 38 ES 28	eference to: 33 001 [49] 33 027 [48] 33 008 [44]	
TSS reference:	ISDN-SIP/SS/C	COLP			
SIP selection criteria:	Temporary mod	de presentation restricted			
ISDN selection criteria:	COLP service I	nas been requested			
Test purpose:	Ensure that the SUT on receipt of a 200 OK INVITE for this call with a Privative field was received with the value "none" has been received: P-Preferred-Identity header field is provided within the 200 OK resends a CONNECT message with the Connected Party Number in element coded: Address signals = default public user identity Numbering plan indicator = ISDN numbering plan				
		Type of number = PIXIT Screening indicator = netw	ork provided		
		Address presentation restri		sentation allowed	
SIP Parameter values:		meters options=PIXIT	ction indicator – pres	serilation allowed	
ICDN Darameter	a = line (PIXIT) b = line (PIXIT) m = line (PIXIT) rel rted: 100 rel rted: 100 rel and preconditi	on		
ISDN Parameter	COONECT; Connected Party Number information element				
values:		not screened Connected P		sent	
Comments:					
	ISDN	SUT	-	SIP	
	SETUP	→	→	INVITE	
	CALL PROC	+			
	ALERTING	←	+	180 Ringing	
	CONN	+	+	200 OK INVITE	
			→	ACK	
		Conversation	Conversation		
	DISC	→	→	BYE	
	REL	+	+	200 OK BYE	
	RLC	→			

IS_XXSSCOLP35	EN 3 EN 3	l reference to: 00 092-1 [i.14] 300 403-1 [i.3]		EN 38 ES 28	eference to: 13 001 [49] 13 027 [48] 3 008 [44]		
TSS reference:	ISDN-SIP/SS/C	SDN-SIP/SS/COLP					
SIP selection criteria:	Temporary mod	de presentation not r	estricted				
ISDN selection criteria:		nas been requested					
Test purpose:	Ensure that the SUT on receipt of a 200 OK INVITE for this call with a Privacy header field was received with the value "PRIV_VALUE" has been received: • P-Preferred-Identity header field is provided within the 200 OK response • sends a CONNECT message with the Connected Party Number information element coded: - Address signals = not available - Numbering plan indicator = ISDN numbering plan - Type of number = PIXIT						
	- 9	Screening indicator =	= network p	provided			
		Address presentation		n indicator = pres	entation restricted		
ISDN Parameter values:	PIXIT for support Case a) no 100 Case b) Support Case c) Support a = line (PIXIT) b = line (PIXIT) m = line (PIXIT) CONNECT; Connected Part	rted: 100 rel rted: 100 rel and pred ty Number information	condition		sent		
Comments:	IODNI		OUT		OLD		
	ISDN		SUT	1	SIP		
	SETUP	→		→	INVITE		
	CALL PROC	+					
	ALERTING	+		+	180 Ringing		
	CONN	+		+	200 OK INVITE		
				→	ACK		
		Conversation		Conversation			
	DISC	→		→	BYE		
	REL	+		+	200 OK BYE		
	RLC	→					

	Values for test purpose IS_XXSSCOLP35			
VA	PRIV_VALUE			
VA_1	ld			
VA_2	User			
VA_3	Header			

IS_XXSSCOLP36	EN 3 EN	N reference to: 300 092-1 [i.14] 300 403-1 [i.3]	EN 38 ES 28	eference to: 33 001 [49] 33 027 [48] 33 008 [44]		
TSS reference:	ISDN-SIP/SS/0	ISDN-SIP/SS/COLP				
SIP selection criteria:	permanent mo	de				
ISDN selection criteria:	COLP service	has been requested by the	calling party			
Test purpose:	SIP_MESSAG the terminating P-Pre sends	e SUT on receipt of a provis E_VA with priv-value compo- luser: eferred-Identity header field a a CONNECT message with ent coded:	onent is set to "none is provided within the	has been received from 200 OK response		
		Address signals = default p	ublic user identity			
		Numbering plan indicator =		an		
		Type of number = PIXIT	10D11 Hamboring pic			
		Screening indicator = netwo	ork provided			
		Address presentation restri		sentation allowed		
SIP Parameter values:		ameters options=PIXIT				
	PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)					
ISDN Parameter	CONNECT;					
values:	Connected number					
	User provided, not screened Connected Party Number not present					
Comments:						
	ISDN	SUT		SIP		
	SETUP	→	→	INVITE		
	CALL PROC	-				
	XXXX	(←	SIP_MESSAGE_VA		
	CONN	+	+	200 OK INVITE		
			→	ACK		
		Conversation	Conversation			
	DISC	→	→	BYE		
	REL	+	+	200 OK BYE		
	RLC	→				

Values for test purpose IS_XXSSCOLP36		
VA	SIP MESSAGE_VA	
VA_1	180 Ringing	
VA_2	183 Session Progress	

IS_XXSSCOLP37	EN 3 EN 3	I reference to: 00 092-1 [i.14] 300 403-1 [i.3]		EN 38 ES 28	eference to: 33 001 [49] 33 027 [48] 33 008 [44]
TSS reference:	ISDN-SIP/SS/C	OLP			
SIP selection criteria:	Permanent mod	de			
ISDN selection criteria:		as been requested			
Test purpose:	200 OK INVITE P-Pref sends eleme	for this call without erred-Identity heads	t a Privacy or field is privacy age with the ot available cator = ISD XIT = network p	header field: rovided within the e Connected Par N numbering pla	rty Number information
SIP Parameter values:	Dial string para PIXIT for support Case a) no 100 Case b) Support Case c) Support Case c) Support a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)	meters options=PIX orted header: rel rted: 100 rel rted: 100 rel and pre	Т	Timuloutor — proc	
ISDN Parameter values: Comments:	CONNECT; Connected num User provided,	nber not screened Conne	ected Party	Number not pre	sent
Comments.	ISDN		SUT		SIP
	SETUP	→	301	→	INVITE
	CALL PROC	+		7	IIIVI I C
		+		+	000 01/ INI) //TE
	CONN	200 OK INVITE			
				→	ACK
	DISC	Conversation		Conversation	BYE
	REL	-		+	200 OK BYE
	RLC	→			

IS XXSSCOLP38	ISDN refere	ence to:	NGN re	eference to:									
10_3(3000021 00	EN 300 092			33 001 [49]									
	EN 300 403			33 027 [48]									
	211 000 400	, i [o]		33 008 [44]									
TSS reference:	ISDN-SIP/SS/COLP												
SIP selection criteria:	Permanent mode												
ISDN selection criteria:	COLP service has bee	en requested by the	calling party										
Test purpose:	Ensure that the SUT o	n receipt of a 200 C	K INVITE for this cal	Il with a Privacy header									
	field was received with												
			is provided within the										
			h the Connected Par	rty Number information									
	element code												
		s signals = not avail											
			ISDN numbering pla	an									
	- Type of number = PIXIT												
	- Screening indicator = network provided												
OID Developed		- Address presentation restriction indicator = presentation allowed Dial string parameters options=PIXIT											
SIP Parameter values:	Diai string parameters	options=PIXII											
	PIXIT for supported he	ador.											
	PIXIT for supported header: Case a) no 100 rel												
	Case a) no 100 rel Case b) Supported: 100 rel												
	Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition												
	a = line (PIXIT)												
	b = line (PIXIT)												
	m = line (PIXIT)												
ISDN Parameter	CONNECT;												
values:	Connected Party Num												
	User provided, not scr	eened Connected P	arty Number not pre	sent									
	NoAS: NoA_VALUE												
Comments:	ISDN	SUT	1	SIP									
	SETUP	→ SUI	→	INVITE									
	CALL PROC		7	INVITE									
		+	+	400 Dinging									
	ALERTING	180 Ringing											
	CONN	+	←	200 OK INVITE									
			7	ACK									
	0	to wo officer	Conversation										
		versation	Conversation	DVE									
	DISC)	→	BYE									
	REL	+	+	200 OK BYE									
	RLC	→											

IS_XXSSCOLP39	EN:	N reference to: 300 092-1 [i.14], 300 403-1 [i.3]		EN 3 ES 2	reference to: 883 001 [49], 83 027 [48], 44], TIP/TIR reference								
					use 4.5.2.12								
TSS reference:	ISDN-SIP/SS/	COLP	•										
SIP selection criteria:		ode presentation not											
ISDN selection criteria:		er has special arrar		lling porty									
Test purpose:	COLP service has been requested by the calling party The Terminating UE sends an UPDATE request with an updated From and To header.												
	Ensure that if the UE receives a "from-change" tag in a Supported header in an initial INVITE, and the user equipment sends an UPDATE request after the ACK for the 200 OK INVITE containing a connected identity in the From header												
		ent coded: Address signals = Numbering plan ind Type of number = Screening indicato	unscreene dicator = IS PIXIT r = networl	d number SDN numbering p									
SIP Parameter values:	- Address presentation restriction indicator = presentation allowed Dial string parameters options=PIXIT												
	Case b) Suppo Case c) Suppo a = line (PIXIT b = line (PIXIT	Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)											
	SIP messages	s: INVITE: Support 18x/200: Support UPDATE: From	rted: from-	change									
ISDN Parameter values:	CONNECT; Connected nu User provided				ot present								
Comments:	_												
	ISDN		SUT		SIP								
	SETUP	→		→	INVITE with "from- change" tag								
	ALERTING	((180 Ringing								
				→	200 OK INVITE								
					ACK								
				←	UPDATE with updated From and To header								
				→	200 OK UPDATE								
	CONN	+		+									
	CONN												
		Conversation		Conversation									
	DISC	→		→	BYE								
	REL ← 200 OK BY												
	RLC	→											

6.1.2.4 CFU

6.1.2.4.1 CFU - ISI

ISI_XXS	SSC	CFU 01		EN	300 207	-1 [i.	5],										
TSS refere	nce	9:						ervice	es/CFU								
Configurati			The u	ser A	and the	user	C are in n	etwo	rk N1. The	use	er B is in r	net	work N2 a	and is	3		
3					A 300 207-1 [i.5], see 6.1, 9.2.2, 9.2.5 -ISDN/Supplementary_services/CFU -A and the user C are in network N1. The user B is in network N2 and is with CFU. User C is point-to-multipoint riding by the network riding unconditional supported at when user A calls user B, the call is forwarded to user C. at in the active call state (N10) the voice transfer on the media and B-s performed correctly (e.g. testing QoS parameters). T parameters options=PIXIT supported header:												
Selection of	rite	ria:			A 300 207-1 [i.5], see 6.1, 9.2.2, 9.2.5 -ISDN/Supplementary_services/CFU A and the user C are in network N1. The user B is in network N2 and is with CFU. User C is point-to-multipoint rding by the network rding unconditional supported at when user A calls user B, the call is forwarded to user C. at in the active call state (N10) the voice transfer on the media and B-s performed correctly (e.g. testing QoS parameters). T parameters options=PIXIT supported header: 0 100 rel upported: 100 rel upported: 100 rel and precondition PIXIT) PIXIT) -CSCF S-CSCF AS P-CSCF UE-B UE-C INVITE INVI												
			Call fo	orwar	ding unco	onditi	onal supp	ortec	<u> </u>								
Test purpo	se:				A 300 207-1 [i.5], see 6.1, 9.2.2, 9.2.5 -ISDN/Supplementary_services/CFU A and the user C are in network N1. The user B is in network N2 and is with CFU. User C is point-to-multipoint rding by the network rding unconditional supported at when user A calls user B, the call is forwarded to user C. at in the active call state (N10) the voice transfer on the media and B-is performed correctly (e.g. testing QoS parameters). T parameters options=PIXIT supported header: 0 100 rel upported: 100 rel upported: 100 rel and precondition PIXIT) PIXIT) -CSCF S-CSCF AS P-CSCF UE-B UE-C INVITE												
					N 300 207-1 [i.5], ses 6.1, 9.2.2, 9.2.5 -ISDN/Supplementary_services/CFU A and the user C are in network N1. The user B is in network N2 and is with CFU. User C is point-to-multipoint arding by the network arding unconditional supported at when user A calls user B, the call is forwarded to user C. at in the active call state (N10) the voice transfer on the media and B-is performed correctly (e.g. testing QoS parameters). IT g parameters options=PIXIT supported header: o 100 rel supported: 100 rel supported: 100 rel and precondition PIXIT) PIXIT) PIXIT) -CSCF S-CSCF AS P-CSCF UE-B UE-C												
			chanr	nels is	s perform	ed co	rrectly (e.	g. te	sting QoS	para	meters).						
ISDN Para	me	ter	BC =	PIXI	Γ												
values:																	
SIP Param	ete	r values:	Dial s	tring	paramete	ers op	tions=PIX	IT									
			Case Case Case a = lir b = lir	a) no b) Su c) Su ne (Pl ne (Pl	i 100 rel upported: upported: IXIT) IXIT)	100	rel	econ	dition								
Comments	:																
ISDN		MG	CF	I-	CSCF	S	-CSCF		AS	Р	-CSCF		UE-B	U	IE-C		
OFTUD (UE A)			IN 0.775	→	15.0.475												
SETUP (UE 1)	7		INVITE	7	INVITE	7	INVITE	→									
					101	4	181	+									
NOTIFY	+		181	+	101												
(UE 1)					15.0.475	,											
			INVITE	+	INVITE												
SETUP (UE 2)																	
ALERTING (UE 2)	→		180	→													
(===)																	
ALERTING	+		180	+	180	+	180	+									
(UE 1)			100	_													
CONNECT (UE 2)	→		200 OK	→													
(OL Z)					200 OK	→	200 OK	→									
00011505	+		000 611	+	200 OK	+	200 OK	+									
CONNECT (UE 1)	7		200 OK	_													
\·/			ACK	→	ACK	→	ACK	→									
DISC (LIE4)	→		ACK	+	ACK	←	ACK	<u>+</u>									
DISC (UE1) DISC (UE2)	7		BYE BYE	+	BYE BYE	+	BYE BYE	7		 	 	\vdash		<u> </u>	\vdash		
REL (UE2)	→	20	0 OK BYE	→	5.2									1			
RLC (UE2)	+				200 OK BYE	→	200 OK BYE	→									
					200 OK BYE	+	200 OK BYE	+									
REL (UE1)	+	20	0 OK BYE	+	DIL												
RLC (UE1)	→																

ISI_XXSS	CF	U 02			reference 00 207-1						N referei S 183 004					
					6.1, 9.2.											
TSS reference							ntary_serv									
Configuration	า:		("Served	d use on" = eives	r allows t Yes, "di	he pr vertin	esentation ng number	of fo	N1. The use prwarded to leased to to been forwa	b UF he d	RI to originalized or to original to original to the contract of the contract	nati o us	ing user i ser" = Yes	n dive s, "se	rved	
Selection crit	- Cri	a.			ng by the	notw	ork									
Selection chi	CII	a.	Call forw	vardir		dition	ial support	ed								
Test purpose	e:		Ensure t call dive no COLF allowed) Ensure t	sure that when user A calls user B, the call is forwarded to user C, user A is notified diversion and informed of the diverted-to number (user C has presentation allowed COLR) and user C is informed of the forwarding number (user B has presentation bwed). User B is notified of call diversion. Sure that in the active call state (N10) the voice transfer on the media and B-channed correctly (e.g. testing QoS parameters). = PIXIT I string parameters options=PIXIT												
ISDN Param	ete	r				(3-										
values:				•												
SIP Paramet	er	values:	Dial strir	string parameters options=PIXIT IT for supported header:												
			Case a) Case b)	no 1 Supp Supp (PIXI)	.00 rel corted: 10 corted: 10 T) T)	00 rel		onditi	on							
Comments:				(1 17)	,											
ISDN		M	GCF	l-	CSCF	S	-CSCF		AS	Р	-CSCF		UE-B	U	E-C	
SETUP (UE 1)	→		INVITE	→	INVITE	→										
						-	INVITE INVITE	}								
							181	÷	MESSAGE	→						
NOTIFY	1		181	+	181	+					MESSAGE	+				
(UE 1)				•												
SETUP (UE 2) ALERTING	↓ ↑		INVITE 180	←		<u> </u>										
(UE 2)			100													
					180 180	→ +	180 180	<u>→</u>						1		
ALERTING (UE 1)	+		180	+	100	Ì	100									
CONNECT (UE 2)	→		200 OK	→												
					200 OK 200 OK	→ +	200 OK 200 OK	<u>→</u>								
CONNECT (UE 1)	+		200 OK	+												
			ACK ACK	→	ACK ACK	→	ACK ACK	<u>→</u>						1		
DISC (UE1)	→		BYE	→												
					BYE BYE	→	BYE BYE	<u>→</u>		<u> </u>	-			+		
DISC (UE2)	+		BYE	+			T									
REL (UE2) RLC (UE2)	→		200 OK BYE	→	200 OK	→	200 OK BYE	→		<u> </u>		\vdash		├		
TIEG (GEZ)					BYE 200 OK	+	200 OK BYE	+								
REL (UE1)	+		200 OK BYE	+	BYE					L	<u> </u>			$oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{ol}}}}}}}}}}}}}}}}}}$		
RLC (UE1)	→															

ISI_XXSS	CF	U 03	ı	EN 30	referenc 00 207-1	[i.5],					N referei S 183 004				
TCC votovov					6.1, 9.2.			:/	OFLI						
TSS reference Configuration							ntary_serv		N1. The us	orl) io in not		rk N2 one	lio n	rovidad
Configuration	1.								tation of fo						
									mber is rele						
									call has be						
			point-to-										-,		
Selection crit	eria	:	Call forw	/ardir	ng by the	netw	ork								
					•		al support	ed							
					ns suppo										
Test purpose	: :								call is forw						
									rted-to num						not
									ed of the fo			nbe	er (user B	has	
									tified of cal				dia and E) aha	nnala
									ne voice tra		er on the	ше	dia and E	o-cna	nneis
ISDN Parame			BC = PI		COLLECTIV	ισ.y.	woung QC	ο με	arameters).						
values:	U (C)		50 - 117	XI I											
SIP Paramet	er v	alues:	Dial strin	ng na	rameters	optic	ns=PIXIT								
	J. 1		2.5. 5.11	یم و		270									
			PIXIT fo	r sup	ported he	ader	:								
			Case a)												
			Case b)	Supp	orted: 10	00 rel									
			Case c)	Supp	orted: 10	00 rel	and preco	nditi	on						
			a = line												
			b = line												
0			m = line	(PIX	11)										
Comments: ISDN	—	N 4 /	J GCF	-	CSCF	<u> </u>	CCCE		۸.		CCCE	1	UE-B		IE-C
ISDIN	\dashv	IVIC	301	1-	CSCF	0	-CSCF		AS	Г	-CSCF		UE-B	U	E-C
SETUP (UE 1)	→		INVITE	→	INVITE	→	15.15 (17.5								
							INVITE INVITE	}							
							181	+							
NOTIFY	+		181	+	181	+	INVITE	+							
(UE 1)	Ш				15.0.475	,									
SETUP (UE 2)	+		INVITE	+	INVITE	+									
ALERTING	→		180	→											
(UE 2)	+				180	→	180	→							
ALERTING			100		180	+	180	+							
(UE 1)	-		180	~											
CONNECT	→		200 OK	→											
(UE 2)	7		200 OK	7											
	柙				200 OK 200 OK	→	200 OK 200 OK	}							
CONNECT	+		200 OK	+	200 UN	<u> </u>	200 OR								
(UE 1)	+		ACK	→	ACK	→	ACK	→		-	1				
	\Box		ACK	+	ACK	-	ACK	÷							
DISC (UE1)	→		BYE	→	BYE	→	BYE	→			1				
	\Box				BYE	-	BYE	÷							
DISC (UE2) REL (UE2)	↓ ↑		BYE 200 OK BYE	<u>+</u>							1				
RLC (UE2)	+		200 ON DIE		200 OK	→	200 OK BYE	→							
	\vdash				BYE 200 OK	+	200 OK BYE	+			-				
					BYE		200 ON DIE	ν-							
REL (UE1) RLC (UE1)	+		200 OK BYE	+											
INLO (UE I)	1 7						1		l	l	L	ldot			

ISI_XXSS	3CF	U 04			reference 300 207-1					_	N referer S 183 004				
					6.1, 9.2					- 1	. 100 001	י נייין			
TSS reference	e:						ntary_ser	vices	s/CFU						
Configuration									etwork N1	. The	e user B i	s in netwo	rk N2 a	and is	
J			provide	d wit	h CFU										
									κ N1. The u						
									he present						
									No, "dive					}	
									ives notific	atior	n that the	call has be	een		
Selection crit	orio				ing by the		s point-to-	nuiti	point						
Selection chi	спа						vork nal suppor	ted							
					ons supp			lou							
Test purpose	 :							3, the	call is for	ward	ed to use	r C, user A	is no	t	
									of the dive						
									ing numbe	r (us	er B has	presentati	on not	·	
							ified of cal								
									the voice tr		er on the	media and	d B-ch	annels	
IODNIS	- 1				correctly	/ (e.g.	. testing Q	oS p	arameters).					
ISDN Paramet			BC = P	ing parameters options=PIXIT											
oir raramet	er v	aiues:	Diai Stři	string parameters options=PIXTI for supported header:											
			PIXIT fo	וו פיוו	onorted h	eade	r·								
			Case a			caac									
					ported: 1	00 re	l								
							I and prec	ondi	tion						
							•								
			a = line												
			b = line												
0			m = line	e (PI)	(11)										
Comments: ISDN		MG	CF		CCCE	6	CCCE		A.C.	ь	CCCE	UE-B		JE-C	
IODIN		IVIC	I	-	CSCF	3	-CSCF		AS T	Г	-CSCF	UE-B)E-C	
SETUP (UE 1)	→		INVITE	→	INVITE	→	15.17.47.5								
							INVITE INVITE	<u>→</u>						-	
			IND/ITE	+	INVITE	+									
SETUP (UE 2)	+		INVITE	_										-	
ALERTING (UE 2)	→		180	→											
(UE 2)					180	→	180	→							
ALERTING	+		180	+	180	+	180	+						+-	
(UE 1)	Ļ		100												
CONNECT	→		200 OK	→									+	+	
(UE 2)	\perp				300 014		200 014			<u> </u>				1	
	\pm				200 OK 200 OK	+	200 OK 200 OK	}					\pm	 	
CONNECT (UE 1)	+		200 OK	+]						
(OL 1)	\pm		ACK	→	ACK	→	ACK	→						†	
DISC (UE1)			ACK BYE	+ +	ACK	+	ACK	+						\vdash	
2.00 (021)	Í				BYE	→	BYE	→							
DISC (UE2)	+		BYE	+	BYE	+	BYE	+						1	
REL (UE2)	→		200 OK	÷					İ						
RLC (UE2)	+		BYE		200 OK	→	200 OK BYE	→		 				-	
,	\vdash				BYE	+	200 OK BYE	+						 	
					200 OK BYE	_	200 OK BIE	~							
REL (UE1)	+		200 OK BYE	+						1					
RLC (UE1)	→		DIL						1					+	

ISI_XXSS	CF	U 05	cl	EN:	N reference 300 207-1 es 6.1, 9.2	[i.5]	,				GN refere FS 183 00					
TSS reference	e:		ISDN-SI	P-IS	DN/Supple	emer	ntary_serv	ices/	CFU							
Configuration	۱:							ovide	d with CF	U. U	ser C is p	oint-to-mult	ipoint			
Selection crit	eria	:			ng by the r											
					ng uncond r determin			ed								
Test purpose	:				a call is re			tly if	CFU was	not	successf	ul.				
												termined us	er bu	sy.		
ISDN Parame	eter		BC = PI	XIT										J		
SIP Paramet	er v	alues:	Dial strir	ring parameters options=PIXIT												
			Case a) Case b) Case c) a = line b = line	IXIT for supported header: case a) no 100 rel case b) Supported: 100 rel case c) Supported: 100 rel and precondition = line (PIXIT) = line (PIXIT) n = line (PIXIT)												
Comments: ISDN		MC	CF		-CSCF		-CSCF		AS		-CSCF	UE-B	1	IE-C		
ISDN		IVIC	3CF	1	-030F	3	-0301		AS	Г	-0301	OE-B		<u> </u>		
SETUP (UE 1)	→		INVITE	→	INVITE	→										
							INVITE INVITE	+								
							181	+								
					181	+										
NOTIFY (UE 1)	4		181	+			INVITE	+								
					INVITE	+										
SETUP (UE 2)	+		INVITE	+		 				-			-			
RLC (UE 2)	→	ì	486 Busy	→	486 Busy	→	486 Busy	→		+			1			
			here		here	<u> </u>	here			1			<u> </u>			
DISC (UE 1)	+		486 Busy here	+	486 Busy here	+	486 Busy here	+								
REL	→		ACK	→	ACK	→	ACK	→								
RLC	+		ACK	+	ACK	+	ACK	+						<u> </u>		

ISI_XX		U 06	cla	EN 3	l reference 00 207-1 [i s 6.1, 9.2.2	i.5], , 9.	2.5				GN refer FS 183 0	ence to: 04 [45]			
TSS refere					DN/Supple										
Configurati								ovid	ed with C	FU. Us	er C is p	oint-to-multip	point		
Selection of	riteria	:	Call for												
Test purpo	se:		User A	erify that a call is released correctly if CFU was not successful. A calls user B, the call is forwarded to user C who is network determined user PIXIT											
ISDN Para values:	meter		BC = PI												
Comments			Case a) Case b)	no 1 Sup Sup (PIX (PIX	.00 rel ported: 100 ported: 100 IT) IT)) rel		ondit	ion						
ISDN		MC	SCF		-CSCF	٩	S-CSCF		AS	P-(CSCF	UE-B	UE-C		
10011		1010	,,,,		1	_	 		T	- 	0001	7 5	1		
SETUP (UE 1)	→		INVITE	→	INVITE	→	INVITE	→							
							INVITE	7	1	-		+			
							181	+							
NOTIFY	 ←	1	181	+	181	+	INVITE	+		+ +					
(UE 1)	,		101	<u> </u>				`							
			INVITE	+	INVITE	+			1						
	+		IIN VIII C		1				+	+		+			
			486 Busy	→	486 Busy	→	486 Busy	→							
DISC (UE 1)	+		here 486 Busy here	+	here 486 Busy here	+	here 486 Busy here	+							
REL	→		ACK	→	ACK	→	ACK	→				+			
RLC	+		ACK	+	ACK	+	ACK	+							
				ļ	_		1								

ISII_XXSSCFU 07	ISDN reference to: EN 300 207-1 [i.5],	NGN reference to: TS 183 004 [45]
	clause 6.1, 9.2.2, 9.2.5	
TSS reference:	ISDN-SIP-ISDN-ISDN/Supplementa	ary_services/CFU
Configuration:		re in network N1. The user B is in network N2 and is s the call to back to user B. User C is
Selection criteria:	Call forwarding by the network Call forwarding unconditional support	orted
Test purpose:		B, the call is forwarded to user C and D. user B. Ensure that the call is released.
ISDN Parameter values:	BC = PIXIT	
SIP Parameter values:	Dial string parameters options=PIX	IT
	PIXIT for supported header: Case a) no 100 rel	
	Case b) Supported: 100 rel	
	Case c) Supported: 100 rel and pre	condition
	a = line (PIXIT)	
	b = line (PIXIT)	
	m = line (PIXIT)	
Comments:		

SII_XXSSCFU 08	ISDN reference to:	NGN reference to:
	EN 300 207-1 [i.5], clauses 6.1, 9.2.2, 9.2.5	TS 183 004 [45]
TSS reference:	ISDN-SIP-ISDN-ISDN/Supplementa	ary_services/CFU
Configuration:		re in network N1. The user B is in network N2 and is s the call. User C is point-to-multipoint.
Selection criteria:	Call forwarding by the network Call forwarding unconditional suppo Network option: maximal number of	
Test purpose:	Ensure that when user A calls user User D has call forwarding activate	B, the call is forwarded to user C, C to D. d. Ensure that the call is released.
ISDN Parameter	BC = PIXIT	
values:		
SIP Parameter values:	Dial string parameters options=PIX	Т
	PIXIT for supported header:	
	Case a) no 100 rel	
	Case b) Supported: 100 rel	
	Case c) Supported: 100 rel and pre	condition
	a = line (PIXIT)	
	b = line (PIXIT)	
	m = line (PIXIT)	
Comments:		

6.1.2.4.2 CFU - ISS

ISS_XXS	SCF	U 01			referenc 00 207-1						N referen 3 183 004			
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ISS_XXSSCFU 02					referenc 00 207-1			NGN reference to: TS 183 004 [45]								
			clauses 6.1, 9.2.2, 9.2.5													
TSS refere			ISDN-SIP-SIP/Supplementary_services/CFU													
Configurati	on:		The user B is provided with CFU ("Served user allows the presentation of forwarded to URI to originating user in diversion notification" = Yes, "diverting number is released to the diverted-to user" = Yes, "served user receives notification that the call has been													
Selection of	riteri	a:	forwarded" = Yes). Call forwarding by the network Call forwarding unconditional supported													
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Test purpos			Ensure that when user A calls user B, the call is forwarded to user C, user A is notified of call diversion and not informed of the diverted-to number (user C has presentation not allowed - TIR) and user C is not informed of the forwarding number (user B has presentation not allowed). User B is not notified of call diversion Ensure that in the active call state (N10) the voice transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters).												
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DISC (UE1) → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE		-		ACK	→	ACK	→				1					
BYE	DIOC (UEA)	Ļ		D)/E	_					ACK	→		ACK	→		
BYE → BYE → BYE → BYE → 200 OK BYE ← 200 OK BYE ← REL (UE1) ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ←	DISC (UE1)	7		RAF	7	BYE	→				\vdash					
BYE → BYE → 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← REL (UE1) ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK																
200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200 OK BYE ← 200		-				1		BAF	-	BYE	→		BYE	→		
200 OK BYE → 200 OK BYE ← 200 OK BYE ← REL (UE1) ← 200 OK BYE ←																
200 OK BYE ← 200 OK BYE ← REL (UE1) ← 200 OK BYE ←		-				 		200 OK BYE	→	200 OK BYE	-					
	DEL (UEA)	_		200 OK BYE	_	200 OK BYE	+				H					
	REL (UE1) RLC (UE1)	+		ZUU OK BYE	_						\vdash					

ISS_XX	SSCI	FU 05	cla	EN 3	l referenc 300 207-1 s 6.1, 9.2	[i.5] .2, 9.	, .2.5			_	N referen 3 183 004			
TSS refere							ntary_serv							
Configurati							N2 and is p	orovic	ded with C	FU				
Selection c	riteria	a:			ling by the									
							nal suppo							
Test purpor	se:						ased corre							
			User A	calls	user B, t	he ca	all is forwa	rded	to user C	who	is user d	etermined u	ıser b	usy.
ISDN Para	mete	r values:	BC = F	PIXIT										
SIP Param	eter v	/alues:	Dial st	ring p	arameter	s opt	ions=PIXI	Т						
Comments	-		Case a	a) no b) Sup c) Sup e (PI) e (PI)	· (IT) (IT)	00 re		condi	tion					
ISDN		MG	CF	Ι.	-CSCF	9	-CSCF		AS	P	-CSCF	UE-B		IE-C
IODIN		IVIO	<u> </u>	- 1			1		70		0001	J CL-D		l I
SETUP	→		INVITE	→	INVITE	→								
					100 Trying	+								
					100 Hymg	<u> </u>	INVITE	→						
							100 Trying	+						
							100 Trying	+						
							181	+						
					181	+	INVITE	_		→				
NOTIFY	+		181	+								INVITE	→	
				1			100	<u> </u>	486	+		486	+	
				<u> </u>	486	+	486 486	→		+		ACK	→	
DISC # 17	+		486	+	400	_	400	_		+				
REL	→		ACK	<u>→</u>									1	
RLC	+				ACK	→								
							ACK	→						
							ACK	+	4014	\perp				
	_			1	l	l .		l	ACK	→			1	l

ISS_XXSSCI	FU 06	cla	EN 3	l reference 300 207-1 s 6.1, 9.2	[i.5] 2, 9.	, 2.5				N referen S 183 004			
TSS reference:						ntary_serv							
Configuration:						l2 and is p	orovio	ded with C	FU				
Selection criteria	a:			ling by the									
						nal suppo							
Test purpose:						ased corre							
		User A	calls	user B, t	he ca	all is forwa	arded	to user C	who	is netwo	rk determir	ned u	ser
		busy.											
ISDN Paramete	r values:	BC = F	TIXI										
SIP Parameter v	/alues:	Dial str	ing p	arameter	s opt	ions=PIXI	Т						
Comments:		Case a Case b Case c a = line b = line m = lin	a) no b) Sup c) Sup e (PI) e (PI) e (PI	(IT) (IT) XIT)	00 re	el el and pre	condi						
ISDN	MG	CF	Į.	CSCF	S	-CSCF		AS	Р	-CSCF	UE-B	L	JE-C
SETUP →		INVITE	→	INVITE	→								
				100 Tmdc =	+								
				100 Trying	-	INVITE	→					+	
						100 Trying	+						
						INVITE	+						
						100 Trying INVITE	→		→			 	
						INVITE		486	+			1	
						486	→	700	<u> </u>			1	
				486	+	486	+						
DISC # 17 🗲		486	+										
REL →		ACK	→										
RLC 🗲				ACK	→	4014	\vdash						
 	-					ACK ACK	→					+	
				1		ACK	+	ACK	→			1	
						1		7.010	Ť			1	

ISSI_XXSSCFU 09	ISDN reference to:	NGN reference to:
	EN 300 207-1 [i.5],	TS 183 004 [45]
	clauses 6.1, 9.2.2, 9.2.5	
TSS reference:	ISDN-SIP-SIP-ISDN/Supplementa	
Configuration:	The user A and the user C are in n	etwork N1. The user B is in network N2 and is
	provided with CFU. User D in netw	ork N2 forwards the call to back to user B.
Selection criteria:	Call forwarding by the network	
	Call forwarding unconditional supp	orted
Test purpose:	Ensure that when user A calls use	B, the call is forwarded to user C and then forwarded
	to user D. User D forwards the call	to back to user B. Ensure that the call is released.
ISDN Parameter values:	BC = PIXIT	
SIP Parameter values:	Dial string parameters options=PIX	(IT
	PIXIT for supported header:	
	Case a) no 100 rel	
	Case b) Supported: 100 rel	
	Case c) Supported: 100 rel and pro	econdition
	,	
	a = line (PIXIT)	
	b = line (PIXIT)	
	m = line (PIXIT)	
Comments:	, ,	

ISSI_XXSSCFU 10	ISDN reference to: EN 300 207-1 [i.5],	NGN reference to: TS 183 004 [45]
	clauses 6.1, 9.2.2, 9.2.5	1 1 1
TSS reference:	ISDN-SIP-SIP-ISDN/Supplementa	ry_services/CFU
Configuration:	The user is A in network N1. The uprovided with CFU. User D forward	ser B and the user C are in network N2. User B is the call.
Selection criteria:	Network option: maximal number of	of diversions for a single call N=3
Test purpose:	Ensure that when user A calls user call forwarding activated Ensure the	r B, the call is forwarded to user C, C to D. User D has at the call is released.
ISDN Parameter values:		
SIP Parameter values:	Dial string parameters options=PIX	KIT
	PIXIT for supported header:	
	Case a) no 100 rel	
	Case b) Supported: 100 rel	
	Case c) Supported: 100 rel and pro	econdition
	a = line (PIXIT)	
	b = line (PIXIT)	
	m = line (PIXIT)	
Comments:		

6.1.2.5 CFB

6.1.2.5.1 CFB - ISI

ISI_XXSS		B 01	cla	EN 30 uses	reference 00 207-1 6.1, 9.2.2	[i.5], 2, 9.2	2.5				N referei S 183 004				
TSS referen	ce:		ISDN-SIF	P-ISE	N/Supple	emen	tary_servi	ces/0	CFB						
Configuration	n:		The user	A ar	nd the use	er C a	are in netw	ork l	N1. The us point-to-mu			NOI	rk N2 and	is pr	ovided
Selection cri	teria	a:	Call forw	ardin	g by the r g busy su	netwo	ork								
Test purpose	э:		Ensure the	nat w nat in	hen user the activ	A ca e cal	lls user B, I state (N1	0) th	call is forwa					-chai	nnels is
ISDN Param	ete	r	BC = PIX		rrectly (e.g	g. ies	ting QoS	parai	neters).						
SIP Parame	ter v	/alues:	Dial strin	g par	rameters o	optio	ns=PIXIT								
			Case a) (no 10 Supp Supp PIXIT	orted: 100 orted: 100 Γ)) rel	and preco	nditio	on						
			m = line												
Comments: ISDN		M	GCF]-	-CSCF	S	-CSCF		AS	P	-CSCF		UE-B	l	JE-C
SETUP (UE 1)	→		INVITE	→	INVITE	→	INVITE	→							
							INVITE	-							
									INVITE	→					
									486	+					
							486 ACK	→				<u> </u>	-		
							ACK		ACK	→					
							181	+	AOR	Ť					
					181	+									
NOTIFY (UE 1)	+		181	+			100 Trying	←							
					INVITE	+									
					100 Trying	→									
			INVITE 100 Trying	←										1	
SETUP (UE 2)	+		100 Hyllig	7											
ALERTING (UE 2)	→		180	→	400		400								
					180 180	<u>→</u>	180 180	→							
ALERTING (UE 1)	+		180	+	100	_									
CONNECT (UE 2)	→		200 OK	→	000 014		000 014	→							
	H				200 OK 200 OK	+	200 OK 200 OK	7				\vdash	 	1	1
CONNECT (UE 1)	+		200 OK	+ 1				→							
	\vdash		ACK ACK	<u>→</u>	ACK ACK	<u>→</u>	ACK ACK	-		1		 		1	
DISC (UE1)	→		BYE	→	7.010	<u> </u>	7.010						<u> </u>	1	
, ,					BYE	→	BYE	→							
DIOC (1150)	Ļ		D)/E		BYE	+	BYE	+							
DISC (UE2) REL (UE2)	←		BYE 200 OK BYE	←					-	 		<u> </u>		+	-
RLC (UE2)	+		200 ON BIL		200 OK BYE	→	200 OK BYE	→							
					200 OK BYE	+	200 OK BYE	+							
REL (UE1)	+		200 OK BYE	+						<u> </u>		<u> </u>		1	
RLC (UE1)	→]		1		I	<u> </u>		<u> </u>	i	1	1

ISI_XXSS	SCF	В 02		EN 3	referenc 00 207-1 6 6.1, 9.2.2	[i.5],			١		referen 183 004				
TSS referen	ce:						ntary_serv	ices/	CFB						
Configuration	n:		The use	r A a	nd the use	er C	are in net	vork	N1. The user C is poin				rk N2 and	si t	
Selection cr	iteri	a:			ng by the										
Test purpos	e:		Ensure t	hat i	n the activ	e ca	Il state (N	10) th	call is forw ne voice tra sting QoS p	ansfe	er on the				
ISDN Param	nete	er	BC = PI		у репони	<i>5</i> a oc	mreetly (c.	g. tot	sting Qoo p	Jara	<u> </u>				
SIP Parame	ter	values:	Dial strin	ıg pa	rameters	optic	ns=PIXIT								
			Case a) Case b)	no 1 Supp Supp PIXI	oorted: 10 oorted: 10 T)	0 rel		onditi	on						
			m = line (
Comments:															
ISDN		MO	GCF	ŀ	-CSCF	S	-CSCF		AS	Р	-CSCF		UE-B	UE	E-C
SETUP (UE 1)	→		INVITE	→	INVITE	→								+	
					100 Trying	+	IND//ITE								1
							INVITE 100 Trying	→							†
							INVITE 100 Trying	4						+	
							100 Trying		INVITE	→					
									100 Trying	+	INVITE	→		+	+
							400	→	486	+	486	+		1	1
							486 ACK	+	1016		101/	Ļ		<u> </u>	
							181	+	ACK	→	ACK	→		+	+
NOTIFY	+		181	+	181	+	INVITE	+						1	
(UE 1)							100 Trying	→						-	
					INVITE	+	100 Trying								
			INVITE	+	100 Trying	→						-		-	
			100 Trying	À											
SETUP (UE 2) ALERTING	←		180	→										-	╀
(UE 2)	7		100	7											
					180 180	→	180 180	↑ ↓				-			
ALERTING (UE 1)	+		180	+	100	,	100	Ì							
CONNECT (UE 2)	→		200 OK	→										1	-
(0L 2)					200 OK 200 OK	→	200 OK 200 OK	→						 	
CONNECT	+		200 OK	+	200 OK	~	200 UK	_				1		1	
(UE 1)			ACK	→	ACK	→	ACK	→				+		+	+
BIO0 ":=::	Ę		ACK	+	ACK	+	ACK	+							
DISC (UE1)	→		BYE	<u>→</u>	BYE	→	BYE	→		 		+		+	+
					BYE	+	BYE	+				L			
DISC (UE2)	+		BYE	+										$\perp =$	\bot
REL (UE2) RLC (UE2)	^	-	200 OK BYE	→	200 OK	→	200 OK BYE	→				1		+	
, ,					BYE 200 OK BYE	+	200 OK BYE	+						-	
REL (UE1)	+		200 OK BYE	+	DIE					<u> </u>		+		+	+
RLC (UE1)	→														

ISI_XXS	SC	FB 03	1	EN 3	reference 00 207-1 6 6.1, 9.2.	[i.5],					N referei S 183 004				
TSS refere	enc	e:					ntary_ser	/ices	/CFB						
Configurat	ion	:	("Serve notificat user red	d use ion" : ceive:	er allows t = Yes, "di	he pr vertir	esentation ng number	n of f	N1. The u orwarded t eleased to been forw	o UI the o	RI to orig diverted-t	ina ο υ	ting user ıser" = Ye	in div s, "s	erved
Selection of	crite	eria:		wardi	ng by the		ork orted (use	dete	ermined)						
					ons suppo										
Test purpo	ose:		call dive forward User B Ensure	ersior ing n is not that i	n and info umber (us tified of ca n the acti	rmed ser B all div ve ca	of the div has prese ersion. all state (N	erted entati 10) t	call is forval-to number ion allowed he voice trarameters)	r an d). ansf	d user C	is i	nformed	of the)
ISDN Para	ame	ter	BC = PI	XIT											
values: SIP Param	201		Diel et-	na	. ro m -t	054	DIVIT								
values:		e1	PIXIT for Case a)	or sup no 1 Sup Sup (PIX (PIX	oported he 00 rel ported: 10 ported: 10 IT) IT)	eader 00 rel			ion						
Comments	S:	N //	<u> </u> GCF		CSCF	-	-CSCF		AS	В	-CSCF	1	UE-B		JE-C
		IVI					-CSCF		AS	Г	-0307		UE-B)E-C
SETUP (UE 1)	→		INVITE	→	INVITE	→									
					100 Trying	+	INVITE 100 Trying INVITE 100 Trying 100 Trying 486 ACK	+ + + + +	INVITE 100 Trying 486	→ ← ←	INVITE 486	→ ←			
					181	+									
NOTIFY (UE 1)	+		181	+			INVITE	•	MESSAGE	→					
					INVITE	+	100 Trying	→			MESSAGE	→			
			INVITE	+	100 Trying	→									
CETUD (UE 2)	+		100 Trying	→											
SETUP (UE 2) ALERTING (UE 2)	→		180	→											
(OL Z)					180	→	180	→							
ALERTING (UE 1)	+		180	+	180	+	180	+							
CONNECT (UE 2)	→		200 OK	→	200 OK	→	200 OK	→							
CONNECT	+		200 OK	+	200 OK	+	200 OK	+							
(UE 1)	H		ACK	` →	ACK	→	ACK	→							
DISC (UE1)	→		ACK BYE	←	ACK	+	ACK	+							
DIGC (UE1)	7		DIE	7	BYE	→	BYE	→							
DISC (UE2)	+		BYE	+	BYE	+	BYE	+				\vdash			
REL (UE2) RLC (UE2)	→		200 OK BYE	→	200 OK	→	200 OK BYE	→							
NEO (UEZ)					200 OK BYE 200 OK	-	200 OK BYE	+							
REL (UE1)	+		200 OK BYE	+	BYE		200 01012			-					
RLC (UE1)	→		_ CC ON DIL	<u> </u>											

ISI_XXS	SC	FB 04	ı	EN 3	referenc 00 207-1 6 6.1, 9.2.	[i.5],				_	N refere S 183 00				
TSS refere	nc.	٥.					ntary_ser	vices	/CEB						
Configurat	ion:	. :	The use	er A a	nd the user allows t	er C he pr	are in net	work n of f	N1. The u orwarded to eleased to	o UI	RI to orig	ina	ting user i	in div	ersion
			user rec multipoi	eives nt.	s notificat	ion th	nat the cal		been forw						
Selection	crite	eria:	Call forv	vardi	ng by the ng busy s ons suppo	suppo	orted (use	r dete	ermined)						
Test purpo	se:		Ensure call dive	that version	when use and info	r A ca	alls user E of the div	ertec	call is forw d-to numbe ion allowed	r an					
			User B i	is not that i	notified on the acti	of cal ve ca	I diversion all state (N	า. l10) t	he voice tra	ansf	er on the	m	edia and I	B-cha	annels
ISDN Para	ame	ter	BC = PI			(5.9.			<u></u>						
SIP Param	ote	\r	Dial etri	na na	ramatara	ontic	one_DIYIT	-							
values: PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT) Comments:															
Comments	s:														
ISDN		MC	CF	-	CSCF	S	-CSCF		AS	Р	-CSCF		UE-B	ľ	JE-C
SETUP (UE 1)	→		INVITE	→	INVITE 100 Trying	→						-		₩	
					100 Hying		INVITE	→						<u>t </u>	
							100 Trying INVITE	+						—	
							100 Trying	→						+	
									INVITE	→					
									100 Trying	+	INVITE	→		+	
									486	+	486	+			
							486 ACK	→						┼	
							71011		ACK	→	ACK	→		<u>t </u>	
					181	+	181	+						₩	
NOTIFY (UE 1)	+		181	+	101		INVITE	+							
(02 1)							100 Trying	→							
	H				INVITE 100 Trying	←								+	
			INVITE	+	, ,										
SETUP (UE 2)	+		100 Trying	→										+	
ALERTING	→		180	→											
(UE 2)					180	→	180	→							
ALERTING (UE 1)	+		180	+	180	+	180	+							
CONNECT (UE 2)	→		200 OK	→	200 OK	→	200 OK	→							
CONNECT (UE 1)	+		200 OK ACK	+	200 OK ACK	←	200 OK	÷							
DIGO (I := :)	Ų		ACK	+	ACK	+	ACK	+							
DISC (UE1)	→		BYE	→	BYE	→	BYE	→	1			1		+-	
	Ħ				BYE	÷	BYE	É						匚	
DISC (UE2) REL (UE2)	←		BYE 200 OK BYE	+ +								1		+-	
RLC (UE2)	+	<u> </u>	-55 OK BIE		200 OK BYE	→	200 OK BYE	→						 	
	H				200 OK BYE	+	200 OK BYE	+						\vdash	
REL (UE1) RLC (UE1)	←		200 OK BYE	+	515										
(01.1)	ئ						1					-	·		

ISI_XX	SSC	FB 05	5		EN 30	0 20	ence to: 7-1 [i.5], 9.2.2, 9.2.	5					ence to: 04 [45]	:	
TSS refere	nce:			ISDN					ervices/CF	В					
Configuration									etwork N1		e user B	is ir	networ	k N2 a	and is
Ü				provid	ded with 0	CFB ("Served u	ser a	allows the p	rese	entation	of fo	rwarded	to UF	₹I to
			(origin	ating use	r in d	iversion n	otific	ation" = Ye	s, "c	diverting	nun	nber is re	elease	ed to
			1	the di	verted-to	user'	' = No, "se	erved	l user recei	ves	notificat	ion 1	hat the	call ha	s been
									to-multipoir						
Selection c	riteri	ia:					ne networl								
									ser determ	ined)				
					otification			`			,				
Test purpos	se:							use	r B, the cal	l is f	orwarde	d to	user C.	user A	A is
									formed of t						
									and user C						
									not allowed						9
				divers			p			,					
						the a	ctive call s	tate	(N10) the v	/oice	e transfe	r on	the med	dia and	d
									(e.g. testin						~
ISDN Parai	mete	er valu			PIXIT	- 0.101			,	<u>ي حر</u>	parai		,-		
SIP Param						mete	ers options	=PI	(IT						
On raraffi	CICI	values			for supp			,—, 1/	XI I						
					a) no 100		neauel.								
					b) Suppo		100 rel								
								nd pr	econdition						
					ne (PIXIT)		ioo iei al	iu pr	cconuntion)						
					ne (PIXIT)										
C = =				m = 11	ne (PIXIT)									
Comments: ISDN		MG	CE	1 1	CSCF	-	-CSCF	1	AS	D	-CSCF		UE-B		JE-C
ISDIN		IVIG	CF	-	LOCE	3	- <u>CSCF</u>		AS I	Р	- <u>CSCF</u>		UE-D)E-C
SETUP (UE 1)	→	IN	IVITE	→	INVITE	→									
-					400 To do o	—									
		-			100 Trying	+	INVITE	→							
							100 Trying	+							
							INVITE 100 Trying	←							
		-					100 Hyllig	7	INVITE	→					
									100 Trying	+					
		_							486	+	INVITE 486	→			
		-					486	→	460	_	480	_			
							ACK	+							
		-					181	+	ACK	→	ACK	→		_	
					181	+	101								
NOTIFY	+		181	+			INVITE	+							
(UE 1)							100 Trying	→							
					INVITE	+									
		IN	VITE		100 Trying	→									
	+		VITE Trying	←	 	1			1					+	
SETUP (UE 2)	+														
ALERTING (UE 2)	→		180	→											
(UL Z)	上 十			L	180	→	180	→				╁		1	
			100		180	+	180	+							
ALERTING (UE 1)	+		180	+											
CONNECT	→	20	0 OK	→		<u> </u>						+			
(UE 2)	1			 	200 014		200 01/					-			_
	+			+	200 OK 200 OK	→ +	200 OK 200 OK	→	1		1	+			1
CONNECT	+	20	0 OK	+											
(UE 1)	+	- ,	\CK	→	VCh		VCh	→				1		-	1
	+		ACK ACK	+	ACK ACK	→	ACK ACK	+				+		+	
DISC (UE1)	→		SYE	→											
				1	BYE BYE	→	BYE BYE	→	1			-			
			BYE	+	DIE	+	DIE	<u> </u>	1					+	
DISC (UE2)	+	E							1						1
REL (UE2)	→		OK BYE												
	_				200 OK BYF	→	200 OK BYE	→							
REL (UE2)	→				BYE 200 OK	→	200 OK BYE 200 OK BYE	→							
REL (UE2)	→	200 (→	BYE										

ISI_XX	SS	CFB 0	6	(EN 300	207	ence to: -1 [i.5], .2.2, 9.2.5						ence to: 04 [45]				
TSS referer	nce		13	SDN-	SIP-ISDN	/Sup	plementar	y_se	rvices/CFE	3							
Configuration	n:								re in netwo		11. The u	ser	B is in ne	etwor	k N2		
			а	and is	provided	with	CFB										
			Т	he us	er A and	the u	ıser C are	in ne	etwork N1	and	user C is	pro	ovided wi	th CC	DLP.		
			Т	he us	er B is in	netv	ork N2 ar	id is	provided w	ith (CFB ("Se	rve	d user all	ows t	he		
			р	reser	tation of	forwa	arded to U	RI to	originating	use	er in dive	rsic	n notifica	tion"	= No,		
									diverted-t								
									rwarded" =								
Selection cr	iter	ia:					e network				,			•			
									er determir	ned)							
					tifications			(,							
Test purpos	e.							user	B, the call	is fo	rwarded	to	user C. u	ser A	is		
Tool purpod	<i>.</i>								ormed of th								
									ber (user E								
							all diversio		DCI (GSCI L	, ma	o prodein	ianc	iii iiot aiic	, wca	,. O3C1		
									N10) the v	പ്റച	tranefor	οn	the medi	a and	R-		
								,	,					a and	-ن		
ISDN Parar	not	or vol				UITHE	a conecti	y (E.	y. icoliny G	(00	paramet	J13)					
SIP Parame						note:	ro ontions	-DIV	IT								
oir Parame	eter	value						=PIX	11								
					nels is performed correctly (e.g. testing QoS parameters). PIXIT tring parameters options=PIXIT for supported header: a) no 100 rel b) Supported: 100 rel												
									11.41								
					a) no 100 rel b) Supported: 100 rel c) Supported: 100 rel and precondition												
					se c) Supported: 100 rel and precondition line (PIXIT)												
					= line (PIXIT)												
			n	n = lin	e (PIXIT)												
Comments:																	
ISDN		MG	CF	 -	CSCF	S	-CSCF		AS	Р	-CSCF		UE-B	U	E-C		
SETUP (UE 1)	I ->	_	INVITE	→	INVITE	→											
SETUP (UE 1)	7		IINVIIE	7	100 Trying	-											
							INVITE	→									
							100 Trying INVITE	+				+					
							100 Trying	÷									
									INVITE	→							
									100 Trying	+	INVITE	→					
									486	+	486	-					
							486	→									
							ACK	+	ACK	→	ACK	→					
	T						INVITE	+	7.0.1		7.011	Ĺ					
							100 Trying	→									
<u> </u>	+				INVITE 100 Trying	<u>←</u>						\vdash					
	Ħ		INVITE	+	.oo rrying												
OFTUD (UE 5)		1	00 Trying	→								П	-				
SETUP (UE 2) ALERTING	+		180	→								\vdash					
(UE 2)	\Box		130	الله						<u></u>				<u> </u>			
	П				180	→	180	→				Щ					
ALERTING	+		180	+	180	+	180	+		-		+		1			
(UE 1)	Ш									<u></u>				<u> </u>			
CONNECT	>		200 OK	→													
(UE 2)	+				200 OK	→	200 OK	→		-		+					
	П				200 OK	,	200 OK	÷									
CONNECT	+		200 OK	1		_		_					· <u> </u>				
(UE 1)	+		ACK	→	ACK	→	ACK	→		-		+					
	П		ACK	+	ACK	+	ACK	+									
DISC (UE1)	-		BYE	→	DVF		פער					\blacksquare					
<u> </u>	H				BYE BYE	<u>→</u>	BYE BYE	<u>→</u>		_		+		1			
DISC (UE2)	+		BYE	+	_												
REL (UE2)	→	20	0 OK BYE	→	200 014	→	200 OK BVE	→				\Box	-				
RLC (UE2)	٦				200 OK BYE	7	200 OK BYE	7		ĺ							
	Ħ				200 OK	+	200 OK BYE	+									
REL (UE1)	+	20	0 OK BYE	+	BYE					-		\vdash					
RLC (UE1)	7		- OK DIL	Ė								\Box		L			
	_		_	_	_	_		_	_	_		_					

ISI_X	XXS	SC	FB 07		ISDN re					_	N refere				
					EN 300					T	S 183 004	4 [4	! 5]		
TOO 4					lauses 6.				- de-ce/OED						
TSS refer							upplementary				ucor D i-	n-	ovidad ···	th C	D
Configura	itior	1.					e user C are ws the preser								
							on" = Yes, "d								
							receives noti								
							multipoint.								,
Selection	crit	eria	:				the network								
							sy supported	(net	work deter	min	ed)				
- .					Notification				D (1 11 11 11 11 11 11 11 11 11 11 11 11					•	<u>. </u>
Test purp	ose	:					user A calls usersion and infe								
							rwarding num							# C R	•
							of call diversi		user D rias	, pic	Scritation	ıaı	ioweu).		
							active call sta		N10) the vo	oice	transfer o	n t	he media	and	B-
						erfor	med correctly	e.g (. testing Q	oS p	oaramete	rs).			
ISDN Par					= PIXIT	-		-						-	
SIP Parar	met	er v	alues:				ters options=	PIXI	Т						
							ed header:								
					se a) no 1		d: 100 rel								
							d: 100 rel and	pred	condition						
					line (PIXI		100 for allo	. p. o	20114111011						
					line (PIXI										
					: line (PIX										
Comment															
ISDN			MGCF		I-CSCF		S-CSCF		AS	F	-CSCF		UE-B	L	JE-C
SETUP (UE 1)) >		INVITE	→	INVITE	→									
					100 Trying	+									
					100 Trying	Ì	INVITE	→							
							100 Trying INVITE	+						1	
							100 Trying	→	IND/ITE	Ţ					
									INVITE 486	→				1	
							486 ACK	→							
									ACK	→					
					181	+	181	+						-	-
NOTIFY	+		181	+		_	INVITE	+	MESSAGE	→					
(UE 1)	+						100 Trying	→			MESSAGE	→		1	
	\blacksquare				INVITE 100 Trying	←									
	Ш		INVITE	+	100 Hyllig										
SETUP (UE 2)) ←		100 Trying	→	-			+		-		<u> </u>		+	
ALERTING	→		180	→										1	
(UE 2)	旪				180	→	180	→		L		L	<u> </u>	\perp	
ALERTING	+		180	+	180	+	180	+							
(UE 1)			100	_											
CONNECT	→		200 OK	→	-			+		1		<u> </u>		+	
(UE 2)	\perp				200 014	-2	200 014	→		1		<u> </u>			
	$\pm \dagger$				200 OK 200 OK	+	200 OK 200 OK	+			<u> </u>	L		\pm	
CONNECT (UE 1)	+		200 OK	+											
(UE I)	Ш		ACK	→	ACK	→	ACK	→							
DISC (UE1)	→		ACK BYE	++	ACK	+	ACK	+		1		F		1	
DIOU (UL I)	Ħ		DIL		BYE	→	BYE	→							
DISC (UE2)	+		BYE	+	BYE	+	BYE	+						+	-
REL (UE2)	→		200 OK BYE	→	055.5		005 215-1	1.							
RLC (UE2)	+				200 OK BYE	→	200 OK BYE	→							
					200 OK BYE	+	200 OK BYE	+							
REL (UE1)	+		200 OK BYE	+	DIE					L		L		\perp	
RLC (UE1)	→							T						T	

ISI_XXS	SC	FB 08	1	EN 3	referenc 00 207-1 s 6.1, 9.2.	[i.5],					N referer 3 183 004				
TSS refere	enc	e:	ISDN-S	IP-IS	DN/Supp	leme	ntary_ser	vices	/CFB						
Configurat	ion	:	("Serveonotificat	d use ion" : eive:	er allows t = Yes, "di	he pr vertir	resentationg numbe	n of f r is re	N1. The user and the leased to been forwards.	to UI	RI to origi diverted-to	nat o u	ting user i ser" = Ye	in div s, "se	erved
Selection	crite	eria:	Call for Call for CF Noti	vardi vardi ficati	ons suppo	uppo orted	orted (netv		determine	•					
Test purpo	ose		call dive forwardi User B Ensure	ersior ing n is no that i	n and infor umber (us tified of ca in the acti	rmed ser B all div ve ca	of the divented has preserversion. All state (N	erted entati	call is ford d-to number ion allowed he voice transmeters	er an d). ransf	d user C	is i	nformed o	of the	•
ISDN Para	ame	eter	BC = PI	XIT											
values: SIP Param	204-	\r	Dial stri	200	aramatara	Onti	one-DIVIT								
values:		er	PIXIT for Case a)	no 1 Sup Sup (PIX (PIX	oported he 00 rel ported: 10 ported: 10 IT) IT)	eadei 00 rel			ion						
Comments	3:	NA/	GCF		CSCF	9	-CSCF		AS	1 6	-CSCF		UE-B		JE-C
		IVI					1-C3CF		AS	Г	-0301		UE-B	·) <u>-</u> -C
SETUP (UE 1)	→		INVITE	→	INVITE	→									
					100 Trying	+	INVITE 100 Trying INVITE	→ ← ←							
							100 Trying 486 ACK	→ → ←	INVITE 486 ACK	→ ← →					
					181	+	181	+							
NOTIFY (UE 1)	+		181	+			INVITE	+							
					INVITE	+	100 Trying	→							
			INVITE	+	100 Trying	→									
SETUP (UE 2)	+		100 Trying	→											
ALERTING	→		180	→											
(UE 2)					180	→	180	→							
ALERTING (UE 1)	+		180	+	180	+	180	+							
CONNECT (UE 2)	→		200 OK	→	200 OK	→	200 OK	→							
CONNECT (UE 1)	+		200 OK ACK	+	200 OK ACK	+	200 OK	÷							
DISC (LIE4)	→		ACK	+	ACK	÷	ACK	÷							
DISC (UE1)	7		BYE	→	BYE	→	BYE	→							
DISC (UE2)	+		BYE	+	BYE	+	BYE	+		+					
REL (UE2)	→		200 OK BYE	÷	000 014		000 01/ 51/5	Ļ							
RLC (UE2)	+				200 OK BYE	→	200 OK BYE	→							
DEL (UEA)	_		200 01/ 51/5	L	200 OK BYE	+	200 OK BYE	+							
REL (UE1) RLC (UE1)	←		200 OK BYE	+											

ISI_XXS	SSC	FB (09	E	DN refer N 300 20 use 6.1, 9	7-1 [i	.5],				GN refer TS 183 0			
TSS refer	enc	e:	ISD				mentary_s	servi	ces/CFB					
Configura	tion	:										network N2		
												warded to		
												ber is relea		the
										titica	tion that t	he call has	been	
Selection	Crit	aria:			arding by		C is point-	·เบ-m	uilipoint.					
Selection	UIILE	ııd.						etwo	ork determ	ined)			
					cations su	•		.OLVV	AN ACICIIII	iiiGu	,			
Test purpo	ose	:						er B.	the call is	forw	arded to i	user C, use	r A is	
												mber (user		
												of the forwa		
												otified of ca		rsion
												the media a	ind B-	
ISDN Para	ama	ter		nneis = PIX		nea c	orrectly (e	e.g. te	esting QoS	o par	ameters)	<u> </u>		
values:	ant	, ICI	BC :	- ΓΙΛ	.1.1									
SIP Parar	nete	er -	Dial	string	n paramet	ers	ptions=PI	XIT						
values:					supported									
					no 100 rel									
			Cas	e b) \$	Supported	l: 100								
						: 100	rel and p	recor	ndition					
					PIXIT)									
				١,	PIXIT)									
Comment	٠.		ın =	iine (PIXIT)									
ISDN	ა.	N	MGCF	I_	CSCF	S	-CSCF		AS	P	-CSCF	UE-B	11	E-C
_		<u> </u>					3001		7.0	Ľ	5551	<u>0</u> 2-0		
SETUP (UE 1)	→		INVITE	→	INVITE	→								
-,,					400 T :	,								
					100 Trying	+	INVITE	→					+ -	
							100 Trying	-						
							100 Trying	←						
									INVITE 486	→				
							486	→	700					
					-		ACK	+	ACK	→			+	
					401		181	+		Ė				
NOTIFY	+		181	+	181	+	INVITE	+						
(UE 1)				-			100 Trying	→						
					INVITE	+	100 Hyling	7						
<u> </u>			INVITE	+	100 Trying	→							+	
057: :5 ::::			100 Trying	÷										
SETUP (UE 2)	Ψ			L		L				L				
ALERTING (UE 2)	*		180	→										
(0 = 2)					180	→	180	→						
ALERTING	4		180	+	180	+	180	+						
(UE 1)	_			<u> </u>										
CONNECT	→		200 OK	→	1					-				
(UE 2)					200 OK	→	200 OK	→					+	
					200 OK	+	200 OK 200 OK	+						
CONNECT (UE 1)	+		200 OK	+										_
\ - -'/			ACK	→	ACK	→	ACK	→						
DISC (UE1)	→		ACK BYE	←	ACK	+	ACK	+						
(32.)					BYE	→	BYE	→						
DISC (UE2)	+		BYE	+	BYE	+	BYE	+						
REL (UE2)	→		200 OK BYE		200 014		200 OK BVE							
RLC (UE2)	_				200 OK BYE	→	200 OK BYE	→						
					200 OK BYE	+	200 OK BYE	+						
REL (UE1)	+		200 OK BYE	+	DIL									
RLC (UE1)	→					L	l						$oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{oldsymbol{ol}}}}}}}}}}}}}}}}}}$	

SI_XXS	SCF	B 10		EN	N refere 300 207 es 6.1, 9.	-1 [i.5	5],				GN refer TS 183 (
TSS refere	ence) :					entary_se	ervice	es/CFB								
Configurat			The u	ser A led w	and the ith CFB	user (C are in n	etwo	rk N1. The								
			user E of forv	3 is ir varde	networked to URI	N2 a to ori	nd is prov ginating u	ided ser i	with CFB (n diversion	"Se	rved use ification"	r al = 1	lows the p No, "divert	rese ing n	ntation umber is		
									served use to-multipoir		ceives no	otifi	cation tha	it the	call has		
Selection of	crite	ria:	Call fo	rwar	ding by th	ne ne	twork										
					ding busy itions sup			twor	k determin	ed)							
Test purpo	se:		Ensur	e tha	t when us	ser A	calls user		ne call is fo								
									verted-to n sentation n								
			call di	versi	on.	•		•			•						
) the voice parameter		sfer on th	ne i	media and	d B-c	hannels		
SIP Param	nete	r	Dial st	tring	paramete	rs op	tions=PIX		paramotor	<u> </u>							
					upported 100 rel	head	er:										
			Case	b) Su	ipported:												
			Case a = lin			100 r	el and pre	cond	dition								
			b = lin	ie (Pl	XIT)												
Comments	· ·		m = lir	m = line (PIXIT)													
ISDN	<i>J</i> .	MC	SCF	l-	CSCF	S-	-CSCF		AS	Р	-CSCF		UE-B		UE-C		
SETUP (UE 1)	→		INVITE	→	INVITE	→											
					100 Trying	+	INVITE 400 Trains	→									
							100 Trying INVITE 100 Trying	+									
							100 Trying		INVITE 100 Trying	→							
									486	+							
							486 ACK	→									
							INVITE	+	ACK	→							
					INVITE	+	100 Trying	→									
			INVITE	+	100 Trying	→											
SETUP (UE 2)	+	1	00 Trying	→													
ALERTING (UE 2)	→		180	→													
					180 180	→	180 180	+									
ALERTING (UE 1)	+		180	+													
CONNECT (UE 2)	→		200 OK	→	200 OK	→	200 OK	→									
CONNECT (UE 1)	+		200 OK	+	200 OK	+	200 OK	+									
			ACK ACK	→	ACK ACK	→ +	ACK ACK	}									
DISC (UE1)	→		BYE	→	BYE	→	BYE	→									
DISC (UE2)	÷		BYE	+	BYE	+	BYE	+									
REL (UE2) RLC (UE2)	→	20	00 OK BYE	→	200 OK	→	200 OK BYE	→									
					200 OK BYE	+	200 OK BYE	+				H					
REL (UE1) RLC (UE1)	←	20	00 OK BYE	+								E					

ISI_XXSS			EN claus	30 es	referenc 00 207-1 6.1, 9.2.	[i.5], 2, 9.2	2.5				N referer 3 183 004				
TSS refere							ntary_servic								
Configurati							2 and is prov	'ide	d with CFI	3. U	ser C is p	ooir	nt-to-multi	point	
Selection c	crite	ria:	Call forwar												
			Call forwar												
_			user C is u	se	r determi	<u>ned ι</u>	iser busy	.,							
Test purpo	se:						sed correctly								
100110					user B, th	e cai	l is forwarde	a t	o user C w	no i	s user de	etei	rmined us	er bu	sy.
ISDN Para	me	ter	BC = PIXI	ı											
values: SIP Param	oto	r	Dial string		romotoro	ontic	no_DIVIT								
values:	iete	ľ	Dial string	μa	rameters	opuc	IIS=PIAII								
values.			PIXIT for s	un	norted he	ader									
			Case a) no			auci	•								
			Case b) Su			00 rel									
							and precon	ditio	on						
			a = line (Pl	Χľ	T)										
			b = line (Pl												
			m = line (P	ΊX	IT)										
Comments	S: _														
ISDN		M	IGCF		-CSCF		S-CSCF		AS	Р	-CSCF		UE-B	U	E-C
SETUP (UE 1)	→		INVITE	→	INVITE	→									
					100 Trying	+	INVITE	→							
							100 Trying	+							
							INVITE 100 Trying	↓ ↑							
									INVITE	→					
									100 Trying	+	INVITE	→			
											486	+			
							486	→	486	+		1			
							ACK	÷		Ļ					
							INVITE	+	ACK	→	ACK	→		-	
							100 Trying	`							
					INVITE 100 Trying	+						1			
			INVITE	+	100 Hying	Ĺ									
SETUP	+		100 Trying	→						\vdash		\perp			
(UE 2)															
RLC (UE 2)	→		486 Busy here	→	486 Busy	→	486 Busy here	→		\vdash		\perp			
					here		,								
			ACK	+	ACK	+	ACK	+				1			
			AUN	_	486 Busy	+	486 Busy here	+				1			
DISC (UE 1)	+		486 Busy here	+	here							1			
RÈL	→		ACK	<u>~</u>				H		L		t			
RLC	+				ACK	→	ACK	→							
				l			L	Ш		<u> </u>		1	l	<u> </u>	

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TSS reference	e:			DN/Suppl			vices	/CFB						
Configuration		The use	r B is	in netwo	rk N2	and is p	rovide	ed with CF	B. U	ser C is	poir	nt-to-mult	ipoint	t.
Selection crite	eria:	Call forv	vardii	ng by the	netw	ork								
		Call forv	vardii	ng busy s	uppo	rted								
				work dete										
Test purpose:	:							CFB was i						
			calls	user B, th	e cal	l is forwa	rded t	to user C w	/ho i	s netwo i	r k d	letermine	d use	er
		busy.												
ISDN Parame	eter	BC = PI	XIT											
values:														
SIP Paramete	er	Dial stri	ng pa	rameters	optio	ns=PIXI7	-							
values:														
				ported he	eader	:								
		Case a)												
				ported: 10										
		Case c)	Supp	oorted: 10	υ rel	and pred	onditi	ion						
		l	/DI) //	- \										
		a = line												
		b = line												
C = 100 100 100	4	m = line	(PIX	11)										
Commen		I GCF		-CSCF		-CSCF	1	AS		-CSCF		UE-B	1 11	E-C
IODIN	IVIC	JCI		-0001		-0001		7.0		-0001		OL-D		L-O
SETUP (UE →		INVITE	→	INVITE	→									
1)														
				100 Trying	+									
						INVITE 100 Trying	→							
						INVITE	+							
						100 Trying	→	INVITE	→					
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										INVITE 486	→			
							L	486	+	400	É			
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 	-			181	+	181	-				\vdash		1	
NOTIFY (181	+			INVITE	+							
(UE 1)						100 Trying	→				H		-	
				INVITE	÷									
	+	INVITE	+	100 Trying	→		-				\vdash		-	
		100 Trying	÷											
		486 Busy	→								oxdot			
		here												
				486 Busy here	→	·								
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		ACK	+	400 D	-						П			
				486 Busy here	+									
DISC (UE 1)	ĺ	486 Busy	+											
REL →		here ACK	→								H		-	
RLC 🗲				ACK	→									

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TSS referen	ce:						ry_service	es/CF	- В						
Configuratio			The user												
Selection cri	teria	a:	Call forw Call forw				ork ted (user	deter	rmined)						
Test purpose	e:		Ensure the active ca correctly	nat w II stat (e.g.	hen user te (N10) t	A ca	lls user B,	the or	call is forwa						the
ISDN Param	ete	r	BC = PIX	ΊΤ											
values:															
SIP Parame	ter v	/alues:	Dial strin	g par	ameters	optio	ns=PIXIT								
			PIXIT for Case a) (Case b) (Case c) (a = line (b = line (no 10 Supp Supp Supp PIXIT PIXIT	00 rel orted: 10 orted: 10 (0 rel	and preco	nditio	on						
Comments:															
ISDN		М	GCF	Į-	CSCF	S	S-CSCF		AS	P	-CSCF		UE-B	UE	-C
SETUP	→		INVITE	→	INVITE	→									
							INVITE INVITE	→							
							IIIVIIL	,	INVITE	→	INVITE	→			
							100		486	+	486	+			
							486 ACK	→	+		ACK	→			
									ACK	→					
NOTIFY (UE 1)	+		181	+	181	+	181	+							
							INVITE INVITE	+				-	INVITE	→	
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ALEDTING.	+		400	+	400	+	180	→				1			
ALERTING	-		180		180	-	180	-	 			+	200 OK	+	
									200 OK	+					
CONNECT			000 01/	_	000 011		200 OK	→				1			
CONNECT	+		200 OK ACK	+	200 OK ACK	←	200 OK ACK	+	+			+			-
	L				7.01	Ĺ	ACK	•				T			
DISC (UE1)	→		BYE	→	D) (=		D: /=		ACK	→			ACK	→	
					BYE	→	BYE BYE	→				+			
							DIE	-	BYE	→		+			
													BYE	→	
-	-					1			200 OK BYE	+		-	200 OK BYE	+	
							200 OK BYE	→	200 ON BTE			+			-
					200 OK BYE	+	200 OK BYE	+						_	
REL (UE1) RLC (UE1)	+		200 OK BYE	+											

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TSS reference	. o .						y_services	:/CFI	R						
Configuration			The user to originat	B is p ing u o use	rovided v ser in div r" = Yes,	vith C ersio	FB ("Serv	ed u on" =	ser allows = Yes, "dive es notificat	ertin	g number	· is	released		
Selection crit	eria:		Call forwa Call forwa CF Notific	rding rding	by the no	porte		etern	mined)						
Test purpose	0		Ensure th call divers no TIR) at allowed). User B is	at whion and us	en user And informer C is infection to the contraction of call the active	calls ed of forme diver calls	the diverted of the forsion. State (N10)	ted-to orwa	all is forward on number (rding number of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the cont	use er (r C has pr user B ha	es Is p	entation a presentation	llowe on	ed -
ISDN Parame	eter		BC = PIX				•		•						
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Comments:			a = line (F b = line (F m = line (TIXI ^r)											
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							INVITE	+							
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	_						486	→	400	<u> </u>	ACK	÷			
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(UE 1)	+						INVITE	+							
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	廿						ACK	+							
DISC (UE1)	→		BYE	→	D)/C	→	D)/C	→	ACK	→		L	ACK	→	lacksquare
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RLC (UE1)	→		1			1	Ì		Ì						

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Configura							FB ("Serve			ha n	recentat	ion	of forward	t hat	o LIRI to
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Selection	crite	eria:			ding by th	e net	work								
							orted (user	de	termined)						
					tions sup				,						
Test purp	ose:						calls user B	s, th	e call is for	war	ded to us	ser	C, user A	is no	otified of
							rmed of the								
			allowe	d - TI	IR) and u	ser C	is not infor	me	d of the for	ward	ding num	be	r (user B h	as	
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						y (e.g	g. testing Q	oS	parameters	s).					
ISDN Pai	rame	eter	BC = F	PIXIT											
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SETUP	→		INVITE	→	INVITE	→	INVITE	→							
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(UE 1)							INVITE	+							
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DISC (UE1)	→		BYE	→					ACK	→			ACK	→	
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TSS refer	rence	z.					entary_se	rvice	s/CFR						
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Selection	crite	eria:	Call f	orwa forwa	rding by	the n	etwork pported (u		letermined)		, , , , , , , , , , , , , , , , , , , ,			<u> </u>	
Test purp	ose:		ensu of ca of the call of Ensu	ire that Il dive e forw livers ire that	at when uersion an varding nion.	user / d not umbe	A calls use informed er (user B e call state	of the has p	the call is for the diverted-foresentation (a) the voice	to nu n no e tra	imber ar t allowed nsfer on	nd u d).U the	iser C is n Iser B is n	ot inf ot no	ormed
ISDN Par	ame	ter	BC =			nea c	correctly (e	.g. te	esting QoS	para	ameters)				
values: SIP Parai	mete	r values:	PIXIT Case Case Case a = li b = li	Γ for sea) notes b) Sec) Sec) Sec) Rec) Proper (Proper proper pr	supported o 100 rel upported upported PIXIT)	d hea l: 100			ndition						
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NOTIFY	+		181	+	181	+	181	+	ACK	→					
(UE 1)							INVITE	+							
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_									letermined)					
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Sir raramet	ici v	aiues.	Diai Still	iy pa	iaineteis	optio	113-11/11							
			PIXIT fo	r sup	ported he	eader	•							
			Case a)											
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							and preco	nditi	on					
			a = line ((PIXI	T)									
			b = line (
			m = line	(PIX	IT)									
Comments:	1		205		0005	_	0005		4.0	_	0005			.E.O
ISDN		MC	GCF	-	CSCF	S	-CSCF		AS	Р	-CSCF	UE-B		JE-C
SETUP	→		INVITE	→	INVITE	→								
							INVITE INVITE	→						
							IINVITE		INVITE	→				
							486	→	486	+				
							ACK	+						
NOTIFY	+		181	+	181	+	181	+	ACK	+				
(UE 1)			101	,	101	`								
							INVITE INVITE	↓				INVITE	→	
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ALERTING	+		180	+	180	+	180 180	+						
ALEKTING			100		100	_	100	_				200 OK	+	
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			ACK	→	ACK	→	ACK	→						
DISC (UE1)	→		BYE	→			ACK	+	ACK	→		ACK	→	
()	Ħ				BYE	→	BYE	→						
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RLC (UE1)	→													

ISS_XXSS	CFE	3 06	EN	1 300	eference) 207-1 [i	.5],			ı		N referen 3 183 004				
					5.1, 9.2.2										
TSS reference			ISDN-SIP	-SIP	/Supplen	nenta	ry_service	s/CF	В						
Configuration	1:		to origina	ting i	ıser in di	versio	on notificat	ion"	user allows = Yes, "div ves notifica	ertir	ng numbe	r is	released	to th	ne
Selection crit	eria:		Call forwa	arding	g busy su	ippor		rk de	etermined)						
Test purpose	Ē		Ensure th call divers TIR) and User B is Ensure th	at when a sion a substitution a sion	nen user and inforr C is infor ied of cal the activ	A cal ned o med I dive e call	of the diver of the forw rsion.	ted-t ardi	call is forwa to number ng number e voice trar meters).	(use (us	er C has p er B has l	ores	sentation a sentation	allow allov	ed - no ved).
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ISDN		M	IGCF	I-(CSCF	S	-CSCF		AS	۲	-CSCF		UE-B	L	JE-C
SETUP	→		INVITE	→	INVITE	→									
	\dashv						INVITE INVITE	<u>→</u>							
									INVITE	→					
	-						486	→	486	+					
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NOTIFY	+		181	+	181	+	181	+	ACK	→					
(UE 1)	$\perp \!\!\!\!\perp \!\!\!\!\perp$								145004.05	L.					
	+						INVITE INVITE	<u>+</u>	MESSAGE	→	MESSAGE	→			
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	\Box								200 OK	_			200 OK	+	
	+						200 OK	→	200 OK	+					
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DISC (UE1)	→		BYE	→					ACK	→			ACK	→	
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					s 6.1, 9. <mark>2</mark>							•	•		
TSS refere	ence	e:	ISDN-S	IP-SI	P/Supple	ment	ary_servic	ces/C	FB						
Configurat	tion:		User B originati	is pro ing us I-to u	vided wit ser in div ser" = No	th CF ersior	B ("Served n notification	d use on" =	er allows the Yes, "dive ves notifica	erting	g numbe	r is	released t	to the	URI to
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Test purpo	ose:		call dive allowed present Ensure	ersion - TIF ation that i	and not R) and us not allow n the acti	inforr er C i /ed). I ive ca	med of the s not infor User B is i all state (N	divermed not n	call is forwarted-to nure of the forwartified of cathe voice transmeters)	nbei ardi all di ansf	r (user C ng numb iversion.	ha er	s presenta (user B ha	ation as	not
ISDN Para	ame	ter	BC = PI		corroony	(o.g.	tooming Q	<u>оо р</u>	<u>aramotoroj</u>	•					
values:			D					-							
SIP Param	nete	r	Dial stri	ng pa	arameters	s optio	ons=PIXIT	=							
values:			Case a) Case b)	no 1 Sup Sup	ported: 1 ported: 1	00 rel		ondit	ion						
			b = line m = line	(PIX	T)										
Comments	<u>. </u>		111 – 11116	; (1 17	.11)										
ISDN	٥.	MG	CF	I-	CSCF	S	-CSCF		AS	Р	-CSCF		UE-B	U	IE-C
									,	Ė					
SETUP	→		INVITE	→	INVITE	→	INVITE	→				+			
							INVITE	+				Ļ			
									INVITE 486	+	INVITE 486	→			
							486	→	400	_	ACK	→			
							ACK	+	ACK	→					
NOTIFY (UE 1)	+		181	+	181	+	181	+	ACK	7					
							INVITE INVITE	←					INVITE	→	
							IIIVIIL	7	180	+			180	+	
							180	→							
ALERTING	-		180	+	180	+	180	+				+	200 OK	+	
									200 OK	+					
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CONNECT	•		ACK	→	ACK	→	ACK	→							
B100 (1154)			D)/E				ACK	+	101/				101/		
DISC (UE1)	→		BYE	→	BYE	→	BYE	→	ACK	→		+	ACK	→	
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REL (UE1)	+		200 OK BYE	+											
RLC (UE1)	→								1						

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Colocion	Onto	iu.						etwo	rk determir	ned)			
					ations su			00	in dotoiiiii	.04)			
Test purp	ose:							r B.	the call is f	orwarded to	user C, user	A is	notified
1											nd user C is n		
											d). User B is i		
					ersion.		. (-,		
			Ensu	re th	at in the a	active	call state	(N1	0) the voice	transfer on	the media an	d B-	
										parameters			
ISDN Par	amete	er	BC =				, \		<u> </u>	•			
values:													
SIP Parai	meter	value	s: Dial s	string	paramet	ers c	ptions=PI	XIT					
			PIXIT	for:	supported	d hea	ider:						
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			Case	b) S	Supported	: 100	rel						
			Case	c) S	supported	: 100	rel and pi	ecor	ndition				
					PIXIT)								
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			m = I	ine (I	PIXIT)								
Comment	ts:					1				•	•		
ISDN		MG	CF	l-	CSCF	S	-CSCF		AS	P-CSCF	UE-B	l	UE-C
SETUP	→		INVITE	→	INVITE	→					++		
							INVITE	→					
	_						INVITE	+	INVITE	→			
	_								486	-	1 1		
							486	→					<u> </u>
	+						ACK	+	ACK	→			
							INVITE	ŕ				Į,	
	\vdash						INVITE	→	180	+	INVITE 180	→	
	ᄪ						180	→	. 50				
ALERTING	+		180	+	180	+	180	+			200 OK	+	
									200 OK	+	200 OK		
CONNECT			200 014	_	200 014	_	200 OK	→					
CONNECT	+		200 OK ACK	<u>+</u>	200 OK ACK	+	200 OK ACK	4					1
	Ę						ACK	+					
DISC (UE1)	→		BYE	→	BYE	→	BYE	→	ACK	→	ACK	→	<u> </u>
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KLC (UE1)	7				l	l	I		l		1 1	L	

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TSS reference:					ary_servic								
Configuration:	provided N2 and i originati	d with is prov ng use	CFB. The	e use h CFI rsion	er A and th B ("Serve	ne us d use	etwork N1. er C are in er allows the No, "divert	net e pr	work N1. esentatio	Th n c	e user B is of forwarde	s in red	network
Selection criteria:	User B h	nas ac vardin	tivated th	ne C <i>i</i> uppo			ION service I by the UE						
Test purpose:	Ensure t call dive forwardi Ensure t	that wording rsion a number of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of	hen user and not i mber (us the activ	A canform er B er ca	ned of the has prese	dive entati 10) th	call is forwarted-to numeron not alloware voice transmeters).	nber wed)	and use).	r C	is not info	rme	d of the
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SETUP (UE 1) →	INVITE	→	INVITE	→			7.0	'	0001		OL D		JL 0
			100 Trying	+	INVITE 100 Trying INVITE 100 Trying 302 ACK INVITE 100 Trying	+ + + + + + +	INVITE 100 Trying 302 ACK	÷ + +	INVITE 100 Trying 302 ACK				
					180	→	INVITE	→			INVITE 100 Trying 180	→ ←	
ALERTING (UE 1)	180	+	180	+	180	+					200 OK	+	
					200 OK 200 OK	→	200 OK	+					
CONNECT 4	200 OK	4	200 OK	+	200 010								
CONNECT ←	200 OK ACK BYE	÷ →	ACK	÷	ACK ACK	→ ←	ACK	→			ACK	→	
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TSS reference: ISDN-SIP-SIP/Supplementary_services/CFB Configuration: The user B is in network N2 and is provided with CFB Selection criteria: Call forwarding by the network Call forwarding busy supported Test purpose: To verify that a call is released correctly if CFB was not successful. User A calls user B, the call is forwarded to user C who is user determined user busy. ISDN Parameter values: BC = PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) b = line (PIXIT) m = line (PIXIT) SETUP	ISS_XXSSC		cla	EN 30 uses	reference 00 207-1 6 6.1, 9.2.	[i.5], .2, 9.2	2.5				N refere S 183 00			
Selection criteria: Call forwarding by the network Call forwarding busy supported To verify that a call is released correctly if CFB was not successful. User A calls user B, the call is forwarded to user C who is user determined user busy. ISDN Parameter values: BC = PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT) m = line (PIXIT) SETUP → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVIT														
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A86														
486														
ACK							486	→	486	-				
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DISC # 17												486		
DISC # 17 ← 486 ← 486 ← REL → ACK → ACK → RLC ← ACK ← ACK ←						-	400		486	+		ACK	→	
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RLC C ACK C										1 1				
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SETUP	→		INVITE	→	INVITE	→							
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									ACK	→			
							INVITE	+			ļļ		
							1	 	INVITE	→			
-	+					-	486	→	486	7	 		
DISC # 17	+		486	+	486	+	486	+		+	+	+	+ +
REL	→		ACK	÷	ACK	À	ACK	À		1	† †		
RLC	+						ACK	+					
									ACK	→			
						<u> </u>	ļ				<u> </u>		

ISSI_XXSSCFB 14	ISDN reference to: EN 300 207-1 [i.5],	NGN reference to: TS 183 004 [45]
	clauses 6.1, 9.2.2, 9.2.5	
TSS reference:	ISDN-SIP-SIP-SIP/Supplementary_s	
Configuration:	The user A and the user C are in new with CFU. User D forwards the call to	twork N1. The user B is in network N2 and is provided back to user B.
Selection criteria:	Call forwarding busy by the network Call forwarding busy supported	
Test purpose:		3, the call is forwarded to user C and D. ser B. Ensure that the call is released.
ISDN Parameter	BC = PIXIT	
values:		
SIP Parameter values:	Dial string parameters options=PIXI	
	PIXIT for supported header:	
	Case a) no 100 rel	
	Case b) Supported: 100 rel	
	Case c) Supported: 100 rel and pred	condition
	a = line (PIXIT)	
	b = line (PIXIT)	
	m = line (PIXIT)	
Comments:		

ISSI_XXSSCFB 15	ISDN reference to:	NGN reference to:
	EN 300 207-1 [i.5],	ES 283 027 [48]
	clauses 6.1, 9.2.2, 9.2.5	
TSS reference:	ISDN-SIP-SIP-ISDN/Supplementary	_services/CFU
Configuration:		er B and the user C are in network N2. User B is
	provided with CFU. User E forwards	
Selection criteria:	Network option: hop counter support	
Test purpose:	Ensure that when user A calls user E	B, the call is forwarded to user C, C to D. User D
	forwards the call to back to user B.	
	User D forwards the call to back to u	ser B. Ensure that the call is released.
ISDN Parameter	BC = PIXIT	
values:		
SIP Parameter values:	Dial string parameters options=PIXI	
	PIXIT for supported header:	
	Case a) no 100 rel	
	Case b) Supported: 100 rel	
	Case c) Supported: 100 rel and pred	condition
	a = line (PIXIT)	
	b = line (PIXIT)	
	m = line (PIXIT)	
Comments:		

6.1.2.6 CFNR

6.1.2.6.1 CFNR - ISI

ISI_XXS	SC	FNR01	cl	EN	DN refere N 300 403 s 9.2.2, 9	-1 [i.	3],				GN refer TS 183 0				
TSS refere	ence	9:	ISDN-	SIP-I	SDN/Sup	plem	entary_se	rvice	s/CFNR/						
Configurat	ion:		The us	ser A	and the u	ıser (C are in ne	etwoi	rk N1. The	use	r B is in n	etv	vork N2 a	nd is	
									multipoint.						
									n invocation						
						ar ca	II to the se	ervec	d user on in	VOC	ation of c	all	diversion		
Selection of			CFNR												
Test purpo	se:								unanswere						r C.
									the voice			e r	nedia and	B-	
			chann	els is	performe	d co	rrectly (e.ç	g. tes	sting QoS p	ara	meters).				
ISDN Para	me	ter													
values:															
SIP Param	ete	r values	s: Dial st	ring	parameter	s op	tions=PIXI	IT							
			DUAT												
					upported h	nead	er:								
					100 rel										
					ipported:				1:4:						
			Case	c) Su	pportea: 1	iuu r	el and pre	conc	iiiion						
			0 - 11-	ים / חי	VIT\										
			a = lin												
			b = lin												
Comments			m = lir	ie (P	1/11)										
ISDN	٠.	1/10	GCF	1	CSCF		-CSCF		AS	Ь	-CSCF		UE-B	1	JE-C
ISDIN		IVIC	301	1-	I	3	-0307		I AS	Г	-030F		UE-B	L	JE-C
SETUP (UE 1)	→		INVITE	→	INVITE	→									
					100 Trying	+									
					100 Tryllig	_	INVITE	→							
							100 Trying	+							
							INVITE 100 Trying	+							
									INVITE	→					
									180	+	INVITE 180	→			
							180	→	.00		100				
					180	+	180	+							
			180	+	100	Ì									
					181	+	181	+							
NOTIFY	+		181	+	101	_									
(UE 1)							CANCEL	+							
							CANCEL	`							
											CANCEL	→			
											487 Request	+			
									487 Request	+	terminated			 	
									terminated	Ĺ					<u></u>
							487 Request terminated	→							
							ACK	+				L			
			-		-				ACK	→	ACK	→	-		
							INVITE	+			ACK	7		1	
					INVITE	+									
SETUP (UE 2)	+		INVITE	+	100 Trying	→						\vdash		 	
			100 Trying	→											
ALERTING (UE 2)	4		180	→											
·/					180	→	180	→							
ALERTING	+		180	+	180	+	180	+	1			\vdash		1	
(UE 1)														<u> </u>	
CONNECT	→		200 OK	→	200 OK	→	200 OK	→		 		1		1	1
(UE 2)														<u> </u>	
CONNECT (UE 1)	+		200 OK	+	200 OK	+	200 OK	+							
·- ·/			ACK	→	ACK	→	ACK	→							
DISC (UE1)	→		ACK BYE	←	ACK BYE	+	ACK BYE	←	1					-	-
DISC (UE2)	+		BYE	+	BYE	÷	BYE	+							
REL (UE2)	1		200 OK BYE	→					1						1

RLC (UE2)	+			200 OK BYE	→	200 OK BYE	+				
				200 OK BYE	4	200 OK BYE	1				
REL (UE1)	+	200 OK BYE	+								
RLC (UE1)	→										

ISI_XXS	SC	FNR02	cl	EN	DN refere N 300 403 s 9.2.2, 9	-1 [i.	3],				GN referer TS 183 004				
TSS refere	ence	9:					entary_se	rvice	s/CFNR/						
Configurati			The us ("Serv divers Yes, "s user c [Clear	ser A ed us ion n serve omm call t	and the user allows otificationed user reunication	user (the " = Y ceive reter	C are in ne presentation es, "divertes es notificates ntion on in	etworetword on of ing roon to ion to	rk N1. The forwarded number is re hat the call tion of dive	to l elea has rsio	JRI to originate sed to the sed to the seen forwarding in the second second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the sec	national dive arde ng c	ng use erted-to ed" = Y or defle	r in user es, S ection	." = Served
Selection of	crite	ria:	CFNR	sup	oorted tions sup	oorto	d								
Test purpo	se:		Ensur User <i>A</i> preser	e tha A is n ntatio	t when us otified of n allowed	er A call d - no	calls user liversion a COLR) ar	nd in	unanswere formed of t ser C is info B is notifie	he o	diverted-to ed of the fo	nun wai	nber (u	ser C	has
ISDN Para values:	me	ter	BC = I				anorroa).	000.	D to mount	<u>u 01</u>	can arvoro				
SIP Param	ete	r values:	Dial st	ring	paramete	rs op	tions=PIXI	IT							
Comments			Case I	a) no b) Su c) Su e (PI e (PI	XIT) XIT)	100 r		cond	lition						
Comments ISDN	S: 	MGC	\		CSCF	0	-CSCF		AS	_	P-CSCF	1	JE-B	T 1	IE-C
IODIN		IVIGC	<i>)</i> [- 1-			-0301		A3 	-	0301	_) <u>L-D</u>		L-C
SETUP (UE 1)	→		INVITE	→	INVITE	→									
					100 Trying	+									
							INVITE 100 Trying	+						1	
							INVITE	+							
							100 Trying	→	INVITE	→					
											INVITE	→			
							180	→	180	+	180	+			
							180	+							
			100		180	+									
			180	+			181	+							
					181	+									
NOTIFY (UE 1)	+		181	+											
X - /							CANCEL	+							
	\vdash		-				CANCEL	→			CANCEL	→		\vdash	
											487 Request	+			
									487 Request	+	terminated				
									terminated	Ĺ					
							487 Request terminated	→]						
	H						ACK	+						$^{\perp}$	
									ACK	→	1017	_			
	H		1	-			INVITE	+	MESSAGE	→	ACK	→			
					INVITE	+					MESSAGE	→			
SETUP (UE 2)	+		INVITE	+	100 Trying	→								\vdash	
OL 101 (UL Z)	Ħ		100	→										†	
ALERTING	→		Trying 180	→					1					₩	
(UE 2)			180						<u> </u>	L		L		<u> </u>	<u> </u>
					180	→	180	→							
ALERTING	+		180	+	180	+	180	4	1					+	
(UE 1)	· →			· →	200 014	→	300 014	→							
(UE 2)	7		200 OK	7	200 OK	7	200 OK	7							

CONNECT (UE 1)	+	200 OK	+	200 OK	+	200 OK	+				
		ACK	→	ACK	→	ACK	→				
		ACK	+	ACK	+	ACK	+				
DISC (UE1)	→	BYE	→	BYE	→	BYE	→				
DISC (UE2)	+	BYE	+	BYE	+	BYE	+				
REL (UE2)	→	200 OK BYE	→								
RLC (UE2)	+			200 OK BYE	→	200 OK BYE	→				
				200 OK BYE	+	200 OK BYE	+				
REL (UE1)	+	200 OK BYE	+								
RLC (UE1)	→								•		

ISI_XXSSCF	NR 03		_	referenc 00 207-1						N referer S 183 004				
				6.1, 9.2.		5				.00 00	. L-	.0]		
TSS reference	•					ntary_serv	ices/	CENR						
Configuration:	•	The use with CFI in divers	r A a NR (" ion n ved u	nd the use Served us otification user recei	er Caser al ser al ser al ves n	are in nety llows the p 'es, "diver notification	vork brese ting r that	N1. The usentation of for the call has the call has	orw elea s be	arded to lased to the en forward	UR e d rde	tI to original diverted-to ed" = no) S	ating use Serve	user " = ed user
						invocatio	n of o	diversion (f	orw	arding or	de	flection) =	No.	User
0 1 1: 1				multipoint										
Selection criter	na:	Call forv	<i>ı</i> ardir	ng by the ng not rep ons suppo	ly su									
Test purpose:		Ensure 1	hat v	vhen user	A ca	Ils user B	, if ur	nanswered,	the	call is fo	rwa	arded to u	ser C	C, user
								ned of the o						
								r C is not in	nfor	med of th	e f	orwarding	num	ber
						t allowed)								
100110				notified o	t call	diversion								
ISDN Paramet values:	er	BC = PI	XII											
SIP Parameter	r values:	Dial strir	ng pa	rameters	optio	ns=PIXIT								
				ported he	ader	:								
		Case a)			0 1									
				orted: 10		and preco	nditi	on						
		Case ()	Supp	onea. 10	o rei	and precc	mann	OH						
		a = line	(PIXI	T)										
		b = line												
		m = line												
Comments:		-11												
ISDN	М	GCF	I-	CSCF	S	-CSCF		AS	Р	-CSCF		UE-B	U	E-C
SETUP (UE 1)	•	INVITE	→	INVITE	→									
OLTOT (OLT)		IIVVIIL												
				100 Trying	+	INVITE	→							
						100 Trying	+							
						INVITE 100 Trying	←							
						100 Hyllig		INVITE	→					
								180	+	INVITE 180	→			
						180	→	.00			Ì			
				180	+	180	+							
		180	+	100										
				181	+	181	+							
NOTIFY (-	181	+	.51										
(UE 1)				 		CANCEL	+	1				1		
						CANCEL	→			041:0=:	Ļ			
				 				1		CANCEL 487	→	1		
								407 D		Request terminated				
								487 Request terminated	+		L		L	<u> </u>
						487 Request terminated	→							
	+			 		ACK	+	ACK	→		_	1		
						IND #TE	_			ACK	→			
1		i	ı	l	1	INVITE	4	1	l	I	ı	1	ı	ı

				INVITE	+						
				100 Trying	→						
SETUP (UE 2)	+	INVITE	+								
		100 Trying	→								
ALERTING (UE 2)	→	180	1								
				180	1	180	→				
				180	4	180	+				
ALERTING (UE 1)	Α	180	+								
CONNECT (UE 2)	→	200 OK	→	200 OK	→	200 OK	→				
CONNECT (UE 1)	+	200 OK	+	200 OK	+	200 OK	+				
		ACK	→	ACK	→	ACK	→				
		ACK	4	ACK	4	ACK	+				
DISC (UE1)	→	BYE	→	BYE	→	BYE	→				
DISC (UE2)	+	BYE	+	BYE	+	BYE	+				
REL (UE2)	→	200 OK BYE	1								
RLC (UE2)	+			200 OK BYE	→	200 OK BYE	→				
				200 OK BYE	Ψ	200 OK BYE	+				
REL (UE1)	+	200 OK BYE	+			_					
RLC (UE1)	1										

ISI_XXSSC	FN	R 04		EN 3	referenc 00 207-1 s 6.1, 9.2.2	[i.5],				_	N referei S 183 004				
TSS reference	:				DN/Suppl			/ices	/CFNR						
Configuration:			The use provided The use user B is	r A a d with r A a s in r	and the use on CFNR. and the use network N2	er C er C 2 and	and D are are in net d is provid	in now work ed w	etwork N1. N1 and us ith CFNR (diversion n	er C	is provic	ded all	with COL	₋P. T orese	he ntation
			released been for	d to t ward	he diverted ded" = no);	d-to ; Ser	user" = No ved user	o, "se comn	erved user nunication point-to-m	rece rete	eives notif ntion on i	fica	tion that t	he ca	all has
Selection crite	ria:		Call forv	vardi	ng by the ng not rep ons suppo	ly su				•					
Test purpose:			A is noti presenta (user B	fied of ation has p	of call dive	ersion no C on no	n and not COLR) and ot allowed	inforr I use).	nanswered med of the r C is not in	dive	erted-to n	um	ber (user	C ha	ıs
ISDN Paramet	er	values.			i notinoa o	ı oaı	aivoioioi								
SIP Paramete	r va	alues:	Dial strii PIXIT fo Case a) Case b)	ng pa no 1 Sup Sup (PIX (PIX	ported: 10 ported: 10 IT) IT)	ader 0 rel	:		ion						
Comme	ents									_					
ISDN		M	GCF		I-CSCF	,	S-CSCF		AS	F	P-CSCF		UE-B	L	JE-C
SETUP (UE 1)	→		INVITE	→	INVITE	→									
					100 Trying	+	INVITE 100 Trying INVITE 100 Trying	+ + + + +	INVITE 180	→	INVITE 180	→ ←			
							180 180	+							
			180	+	180	+									
ALERTING (UE1)	+		180				CANCEL CANCEL	+			CANCEL 487 Request terminated	→			
							487 Request terminated	→	487 Request terminated	+					
					INVITE	+	INVITE	+	ACK	→	ACK	→			
					100 Trying	→									
ALERTING (UE 2)	+		INVITE 100 Trying 180	+ +											
\/					180	→	180	→							
			180	+	180	+	180	+							
CONNECT (UE 2)	→		200 OK	→	200 OK	→	200 OK	→							
CONNECT (UE 1)	+		200 OK ACK	+ +4	200 OK	+ +	200 OK	+ +							
DISC (UE1)	→		ACK BYE	↓ ↑	ACK BYE	1	ACK BYE	1				H		L	
DISC (UE2) REL (UE2)	+		BYE 200 OK BYE	+ +	BYE	+	BYE	+							
RLC (UE2)	+				200 OK BYE 200 OK BYE	→	200 OK BYE 200 OK BYE	→				L			
REL (UE1) RLC (UE1)	+		200 OK BYE	4											

ISI_XXSS(CFN	IR 05	E	EN 30	referenc 00 403-1 0.2.2, 9.2.	[i.3],	.2.5	NGN reference to: TS 183 004 [45]									
TSS reference	ce:		clauses 9.2.2, 9.2.4.4, 9.2.5 ISDN-SIP-ISDN/Supplementary_services/CFNR/														
Configuration			The user A and the user C are in network N1. The user B is provided with CFNR Served user communication retention on invocation of diversion (forwarding or deflection) = Yes. User C is point-to-multipoint.														
Selection crit	teria	a:	CFNR supported CF Notifications supported														
Test purpose	e:		Ensure that when user A calls user B, if unanswered, the call is forwarded to user C The diverting user accepts the communication after sending the INVITE request, the communication path towards the diverted to user shall be released according to the rules and procedures in RFC 3261 [28].														
ISDN Param values:	etei	r	BC = PIXIT														
SIP Paramet	ter v	/alues:	Dial string parameters options=PIXIT														
Comments:			Case a) Case b) Case c) a = line (b = line (PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)													
ISDN		М	GCF		CSCF		-CSCF		AS	Р	-CSCF	UE-B UE			E-C		
SETUP (UE 1)	→		INVITE	<u>→</u>	INVITE	→											
					100 Trying	+											
						INVITE 100 Trying	→										
							INVITE	+									
	_						100 Trying	→	INVITE	→							
											INVITE	→					
									180	+	180	+					
							180	→	180	_							
					400		180	+									
ALERTING (UE:	1)	+	180	+	180	+											
NOTIFY	+		181	+	181	+	181	+									
(UE 1)					INVITE	+	INVITE	+									
					100 Trying	→											
			100 Trying	<u>←</u>													
SETUP (UE 2)	÷		, ,		400		400										
ALERTING (UE 2)	→		180	→	180	→	180	1									
							CANCEL CANCEL	4									
							CANCEL				CANCEL 487 Request	→					
	+								487 Request	+	terminated						
	\forall						487 Request	→	terminated								
ļ	\vdash						terminated ACK	+									
			AC		AUN		ACK	→		L							
			400	-			400	-			ACK	→					
CONNECT	→		180 200 OK	<u>+</u>	180	+	180	+									
(UE 2)	\sqcup		22 211		200 014		200 014		-								
	$oxed{H}$				200 OK 200 OK	→	200 OK 200 OK	+ +				L					
CONNECT (UE 1)	+		200 OK	+													
(UE I)			ACK → ACK → ACK														
DISC (UE1)	→		ACK BYE	←	ACK	+	ACK	+									
DISC (UET)	7		DIE		BYE	→	BYE	→				L					
DICC (1550)			DVE		BYE	+	BYE	+									
DISC (UE2) REL (UE2)	↓		BYE 200 OK BYE	<u>+</u>													
RLC (UE2)	+		_		200 OK BYE	→	200 OK BYE	→									
					200 OK BYE	+	200 OK BYE	4									
REL (UE1) RLC (UE1)	+		200 OK BYE	+													
ILO (OL I)					ı	L	ı		Ĭ.	<u> </u>	l	1	ı				

ISI_XXSSC	06	E	N 30	reference 00 403-1 [i. .2.2, 9.2.4.	3],	.2.5	NGN reference to: TS 183 004 [45]									
TSS reference	e:				N/Supplem			es/C	FNR/							
	Configuration:				d the user (C ar	e in netwo	ork N	1. The use					₹		
			("Served user allows the presentation of forwarded to URI to originating user in diversion notification" = Yes, "diverting number is released to the diverted-to user" = Yes, "served user receives notification that the call has been forwarded" = Yes, Served													
			user communication retention on invocation of diversion (forwarding or deflection) = Yes. User C is point-to-multipoint.													
Selection crite	eria:		CFNR supported CF Notifications supported													
Test purpose:			Ensure that when user A calls user B, if unanswered, the call is forwarded to user C The diverting user accepts the communication after sending the INVITE request, the													
									user shall	be	released	aco	cording to	the		
			rules and procedures in RFC 3261 [28]. User A is notified of call diversion and informed of the diverted-to number and user C is													
			informed of the forwarding number (user B has presentation allowed). User B is notified of call diversion													
ISDN Parame values:	ter															
SIP Paramete	er va	lues:	Dial string	para	ameters on	tion	s=PIXIT									
			PIXIT for s	suppo	orted head											
			Case a) n			اما										
					orted: 100 r orted: 100 r		nd precon	ditio	n							
			a = line (P	TİXI')	J. U	p. 00011		· •							
			b = line (P	,												
Comments:			m = line (F	ZIXII)											
ISDN		N	/IGCF	I	-CSCF		S-CSCF		AS	UE-B	UE	-C				
SETUP (UE 1)	→		INVITE	→	INVITE 100 Trying	→					-CSCF					
					100 Trying	_	INVITE	→								
							100 Trying INVITE	+								
							100 Trying	→	INVITE	→						
											INVITE 180	→				
							100		180	+	100	È				
							180 180	→								
ALERTING (UE1)	+	180	+	180	+										
NOTIFY (UE 1)	+		181	4	181	+	181	+								
	H				INVITE 100 Trying	←	INVITE	+	MESSAGE	→	MESSAGE	→				
			INVITE 100 Tryina	←	100 1179						III.ZOGI (GZ	Ĺ				
SETUP (UE 2)	+		, , ,													
ALERTING (UE 2)	→		180	→	180	1	180	→								
							CANCEL CANCEL	+			CANCEL	→				
											487 Request	+				
	+								487 Request	+	terminated			+		
							487 Request	→	terminated							
					ļ		terminated							igspace		
	\Box						ACK	+	ACK	→		L		\Box		
	╁╢		180	4	180	+	180	+			ACK	→		╆┩		
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RLC (UE1)	→															

with CFNR ("Served user allows the presentation of forwarded to URI to originating user in diversion notification" = Yes, "diverting number is released to the diverted-to user" = No, "served user receives notification that the call has been forwarded" = no) Served user communication retention on invocation of diversion (forwarding or deflection) = Yes. User C is point-to-multipoint. Selection criteria: Call forwarding by the network Call forwarding not reply supported CF Notifications supported Ensure that when user A calls user B, if unanswered, the call is forwarded to user C The diverting user accepts the communication after sending the INVITE request, the communication path towards the diverted to user shall be released according to the rules and procedures in RFC 3261 [28].	ISI_XXSSC	FN	R 07	E	N 30	reference 00 207-1 [i 6.1, 9.2.2,	.5],	2.5	NGN reference to: TS 183 004 [45]									
Configuration: The user A and the user C are in network N1. The user B is in network N2 and is provided with CFNR ("Served user allows the presentation of horwarded to User to diversion notification" = Yes, "diverting number is released to the diverted-to user" = No, "served user receives notification that the call has been forwarded" = No Served user communication retention on invocation of diversion (forwarding or deflection) = Yes. User C: is point-to-multipoint. Selection criteria: Call forwarding by the network C: Call forwarding by the network C: Call forwarding by the network C: Call forwarding by the network C: Call forwarding by the network C: Call forwarding not reply supported C: F Notifications supported Test purpose: Ensure that when user A calls user B, if unanswered, the call is forwarded to user C The diverting user accepts the communication after sending the INVITE request, the communication path towards the diverted to user shall be released according to the rules and procedures in RFC 3261 [28]. User A is notified of call diversion and informed of the diverted-to number and user C is not informed of the forwarding number (user B has presentation not allowed). User B is not notified of call diversion. SIDN Parameter values: SIP Parameter values: SIP Parameter values: SIP Parameter values: Dial string parameters options=PIXIT PIXIT (or supported headers: Case a) on 100 rel (Case C) Supported: 100 rel and precondition a line (PIXIT) b in (PIXIT) b in (PIXIT) b in (PIXIT) b in (PIXIT) b in (PIXIT) b in (PIXIT) b in (PIXIT) b in (PIXIT) b in (PIXIT) b in (PIXIT) b in (PIXIT) b in (PIXIT) b in (PIXIT) b in (PIXIT) b in (PIXIT) b in (PIXIT) b in (PIXIT) b in (PIXIT) b in (PIXIT) b in (PIXIT) b in (PIXIT) b in (PIXIT) b in (PIXIT) b in (PIXIT) b in (PIXIT) b in (PIXIT) b in (PIXIT) b in (PIXIT) b in (PIXIT) b in (PIXIT) b in (PIXIT) b in (PIXIT) b in (PIXIT) b in (PIXIT) b in (PIXIT) b in (PIXIT) b in (PIXIT) b in (PIXIT) b in (PIXIT) b in (PIXIT) b in (PIXIT) b in (PIXIT) b in (PIXIT) b	TSS referenc	e:		ISDN-SIP	-ISD	N/Suppler	nen	tary_servi	ces/C	CFNR								
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			The diverting user accepts the communication after sending the INVITE request, the														
			communication path towards the diverted to user shall be released according to the rules and procedures in RFC 3261 [28].User A is notified of call diversion and not informed of the diverted-to number (user C has presentation not allowed - COLR) and user C is not														
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SETUP (UE 2)	+		100 Trying	→	1					 				+-			
ALERTING	→		180	→	180	→	180	→									
(UE 2)	+					 	CANCEL	+				-		+			
	\perp						CANCEL	→			CANCE	,					
	+		1		1					 	CANCEL 487	→		+-			
											Request						
	+								487 Request	+	terminated			+			
			1			<u> </u>	487 Request	→	terminated	ļ				₩	<u> </u>		
	Ш						terminated			L		L		<u>L</u>			
							ACK	+	ACK	→	ACK	→	-	+	\perp		
			180	+	180	+	180	+	AON	É	AUN	É					
CONNECT (UE 2)	→		200 OK	→													
(02.2)					200 OK	→	200 OK	→									
CONNECT	+		200 OK	+	200 OK	+	200 OK	+				L		 			
(UE 1)						<u> </u>								Щ.	<u> </u>		
	+		ACK ACK	→	ACK ACK	→	ACK ACK	}		<u> </u>				+			
DISC (UE1)	→		BYE	→								L		士			
	$+\Box$				BYE BYE	→	BYE BYE	→ +						\perp			
DISC (UE2)	+		BYE	+	DIE	-	DIE	~						+			
\/					•	•				•							

REL (UE2)	→	200 OK BYE	→								
RLC (UE2)	+			200 OK BYE	1	200 OK BYE	+				
				200 OK BYE	+	200 OK BYE	1				
REL (UE1)	+	200 OK BYE	+								
RLC (UF1)	+										

ISI_XXSS(CFN	IR 09	ı	EN 3	reference 00 207-1 [6.1, 9.2.2	i.5],					N referei S 183 004				
TSS reference	e:				DN/Supple			ices	CFNR						
Configuration			The use retention	r B is on i	in networ	k N2 of d	2 and is priversion (f	ovide orwa	ed with CFN rding or de]. User C is	flec	tion) = No) [C	Clear call t	ication	on e
Selection crit	eria	:	Call forw Call forw user C is	ardir ardir use	ng by the r ng uncond r determin	netw ition ed u	ork al support ıser busy	ed							
Test purpose	: :								CFNR was o user C w					er bu	ısy.
ISDN Paramovalues:	eter		BC = PI	KIT											
SIP Paramet	er v	alues:	Dial strir	ıg pa	rameters of	optic	ns=PIXIT								
Commenter			Case a) Case b)	no 1 Supp Supp (PIXI)	oorted: 100 oorted: 100 T) T)) rel		onditi	on						
Comments: ISDN		N 44	I GCF	- 1	-CSCF	-	-CSCF		AS	В	-CSCF	1	UE-B		IE-C
ISDIN		IVI	ЭСГ	1.	-0307	3	1		AS	Г	I		UE-B	U	JE-C
SETUP (UE 1)	→		INVITE	→	INVITE	→									
					100 Trying	+						-			
					100 Hying		INVITE	→							
							100 Trying	+							
							INVITE 100 Trying	←				-			
							100 Trying	7	INVITE	→					
											INVITE	→			
							400	_	180	+	180	+			
ALERTING		+	180	+	180	+	180 180	→							
/ LEITH TO		_	100		100		181	+							
NOTIEN	+		101	+	181	+									
NOTIFY (UE 1)	_		181	~											
,							CANCEL	+							
	1						CANCEL	→	ļ		CANCEL	→			
											487 Request terminated	+			
									487 Request	+					
							487 Request terminated	→	terminated						
							ACK	+	1011	Ļ					
	-					 	1		ACK	→	ACK	→		-	
	+				INVITE	+	INVITE	+	 	 	AUN	7		1	
					100 Trying	→	100 Trying	→							
	+		INVITE 100 Trains	+		<u> </u>			1	<u> </u>		1			
SETUP (UE 2)	+		100 Trying	→		1	1		1			1	<u> </u>		
RLC (UE 2)	→		486 Busy here	→	486 Busy here	→	486 Busy here	→							
DISC (UE 1)	+		486 Busy here	+	486 Busy here	+	486 Busy here	4							
REL (UE1)	→		ACK	→	ACK	→	ACK	→				匸			
			ACK	+	ACK	+	ACK	+	1						
	1				l	<u> </u>	1	<u> </u>	<u> </u>	l]	<u> </u>	<u> </u>		l

ISI_XXSSCI	FNR	10	E	EN 30	reference 00 207-1 [6.1, 9.2.2	i.5],					N referen S 183 004				
TSS reference	:				ON/Supple			ices/	CFNR						
Configuration:			The use	r B is n on i	in networ	k N2	and is pr	ovide	ed with CFI rding or de						
Selection criter	ria:		Call forw CFNR su	ardir uppo	ng by the r rted work deter			ISV/							
Test purpose:			To verify	that	a call is re	eleas	sed correc	tly if	CFNR was o user C w				termine	d use	er busy.
ISDN Paramet values:			BC = PI												
SIP Parameter	r valı	ues:		-	rameters o	-									
			Case a) Case b)	no 1 Supp	ported hea 00 rel ported: 100 ported: 100) rel		onditi	on						
			a = line (b = line (m = line	PIXI	T)										
Comments: ISDN		MC	GCF		-CSCF		S-CSCF		AS	F	P-CSCF		UE-B	l t	JE-C
	→		INVITE	→	INVITE	→									
OLTOT (OLT)	1		IIVVIIL			·									
					100 Trying	_	INVITE	→							
	+						100 Trying INVITE	↑							
							100 Trying	→	INVITE	→					
											INVITE	→			
							180	→	180	+	180	+			
ALERTING		+	180	+	180	+	180	+							
					181	+	181	+							
NOTIFY (UE 1)	+		181	+	101										
							CANCEL CANCEL	+							
											CANCEL 487 Request terminated	+			
							487 Request	→	487 Request terminated	+					
	+						terminated ACK	+							
									ACK	→					
	+				INVITE	+	INVITE	+			ACK	→		1	
					100 Trying	÷	100 Trying	<u>`</u>							
	+		INVITE 100 Trying	←										1	
	#														
DISC (UE 1)	(486 Busy here 486 Busy	→	486 Busy here 486 Busy	→	486 Busy here 486 Busy	→						<u> </u>	
,	` →		here ACK	` →	here ACK	` →	here ACK	` →							
(021)			ACK	,	ACK	÷	ACK	-							

ISI_XXSSC	FN	R 11	ı	EN 3	reference 00 207-1 [6 6.1, 9.2.2	i.5],					N refere 3 183 00				
TSS reference	e :		ISDN-SI	P-IS	DN/Supple	mei	ntary_serv	ices	/CFNR						
Configuration:									ed with CFI	NR,					
					communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication communication co			on i	nvocation of	of div	version (forv	warding c	r defl	ection)
Selection crite	rio				ng by the r										
Selection the	IIa	•			ng by the r			~ d							
			user C is	suse	er determin	ed ι	ıser busy								
Test purpose:			User A c	alls	user B, the	cal	l is forward	ded t	to user C w	ho is	s user de	ete	rmined us	ser bu	ısy.
			The forw	<i>r</i> ardii	ng user Us	er E	s continues	s to a	alert.						-
ISDN Paramet	ter		BC = PI	KIT											
values:															
SIP Paramete	r v	alues:	Dial strir	ng pa	rameters o	ptic	ns=PIXIT								
			PIXIT fo	r sup	ported hea	ader	:								
			Case a)	no 1	00 rel										
			Case b)	Sup	ported: 100										
			Case c)	Supp	oorted: 100) rel	and preco	nditi	ion						
			a = line	PIXI	T)										
			b = line												
			m = line												
Comments:				1	,										
ISDN		М	GCF	ı	-CSCF	S	S-CSCF		AS	Р	-CSCF		UE-B	l	JE-C
SETUP (UE 1)	→		INVITE	→	INVITE	→									
					100 Trying	+	INVITE	→							
							100 Trying	+							
							INVITE	+							
					-		100 Trying	→	INVITE	→	INVITE	→		-	
									180	÷	180	÷			
ALEDTING.		+	100	+	100	+	180	+				\bot			
ALERTING		~	180	_	180 INVITE	+	180 INVITE	+	1			+		+	+
	+		INVITE	+											
RLC (UE 2)	+		486 Busy here	→	486 Busy here	→	486 Busy here	→							
			ACK	+	ACK	+	ACK	+							
							000 011		200 OK	+	200 OK	+			
CONNECT	+		200 OK	+	200 OK	+	200 OK 200 OK	+ +				<u> </u>		+	1
(UE 1)	_			→		` →		→				1			
			ACK	7	ACK	7	ACK ACK	+				1		+	+
									ACK	→	ACK	→			
DISC (UE1)	→		BYE	→	BYE	→	BYE	→ +				1		1	
1							BYE	-	BYE	→	BYE	→			
									200 OK BYE	+	200 OK BYE	+			
							200 OK BYE	→			DIL	t			
REL (UE1)	+		200 OK BYE	+	200 OK BYE	+	200 OK BYE	+							
RLC (UE1)	→					<u> </u>						1			

ISI_XXSS(IR 12	cla	EN 3 uses	reference 00 207-1 [6 6.1, 9.2.2	i.5], , 9.2	2.5				N refere S 183 00				
TSS reference					DN/Supple										
Configuration	1:		The use retention multipoir	n on i	s in network invocation	k N2 of d	2 and is pro iversion (fo	ovide orwa	ed with CFI or de	VR, flec	Served ution) = Ye	isei es.	r commun User C is	icatio poin	on t-to-
Selection crit	eria	:	CFNR so	uppo s net	work deter	mine	ed user bu	sy							
Test purpose	:				user B, the				o user C walert.	ho i	s netwo r	k d	letermine	d use	er busy.
ISDN Paramo	eter		BC = PI		-										
SIP Paramet	er v	alues:	Dial strir	ng pa	rameters o	ptic	ns=PIXIT								
			Case a) Case b)	no 1 Supp Supp (PIXI (PIXI	ported: 100 ported: 100 T) T)) rel		onditi	ion						
Comments:			III = IIIIE	(FIX	.11)										
ISDN		NA	GCF	ı	-CSCF	<u> </u>	S-CSCF		AS	Р	-CSCF	T	UE-B	П	JE-C
10011		101					7 0001		7.0 T	- '	<u> </u>				
SETUP (UE 1)	→		INVITE	→	INVITE	→									
					100 Trying	+									
							INVITE	→							
							100 Trying INVITE	+							
							100 Trying	`							
									INVITE	→	INVITE	→			
							180	→	180	+	180	+			
ALERTING		+	180	+	180	+	180	+							
					INVITE	+	INVITE	+							
			INVITE 486 Busy here	+	486 Busy here	→	486 Busy here	→							
-	+		ACK	+	ACK	+	ACK	+	200 OK	+	200 OK	+		1	-
						1	200 OK	→	200 010	Ė	200 010	È		1	
CONNECT (UE 1)	+		200 OK	+	200 OK	+	200 OK	+							
DISC (UE1)	→		BYE	→	BYE	→	BYE BYE	→		 		1		1	-
	\vdash						DIL		BYE	→	BYE	→			
	_				1		1		200 OK BYE	+	200 OK	+		1	İ
									200 01012	_	BYE	Ĺ			
REL (UE1)	+		200 OK BYE	+	200 OK BYE	+	200 OK BYE 200 OK BYE	→	200 OK BTE						

ISII_XXSSCFNR 13	ISDN reference to: EN 300 207-1 [i.5],	NGN reference to: TS 183 004 [45]
	clauses 6.1, 9.2.2, 9.2.5	
TSS reference:	ISDN-SIP-ISDN-ISDN/Supplement	ary_services/CFNR
Configuration:		etwork N1. The user B is in network N2 and is provided II to back to user B. User C is point-to-multipoint.
Selection criteria:	Call forwarding by the network CFNR supported	
Test purpose:		B, the call is forwarded to user C and D. user B. Ensure that the call is released.
ISDN Parameter	BC = PIXIT	
values:		
SIP Parameter values:	Dial string parameters options=PIX	Т
	PIXIT for supported header:	
	Case a) no 100 rel	
	Case b) Supported: 100 rel	
	Case c) Supported: 100 rel and pre	condition
	a = line (PIXIT)	
	b = line (PIXIT)	
	m = line (PIXIT)	
Comments:		

6.1.2.6.2 CFNR - ISS

ISS_XXSS	CFN	NR 01		EN 3	reference 00 207-1 6 6.1, 9.2.	[i.5]					N referen S 183 004				
TSS reference			ISDN-SI	P-SII	P/Suppler	menta	ary_servic	es/C	FNR						
Configuration	1:		The use	r B is	provided	l with	CFNR		nvocation o	of di	version (fo	orwa	arding or	defl	ection)
Selection crit	eria	:			ng by the	netw	ork								
Test purpose			Ensure to procedure Ensure to is performant to the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the	hat wres. hat in med	when user	ve ca	ll state (N	10) tl	call is forw ne voice tra arameters).	ansf			Ì		
ISDN Param	eter		BC = PI	XII											
values: SIP Paramet	er v	alues:	Dial strin	ng pa	rameters	optic	ns=PIXIT								
			Case a) Case b)	no 10 Supp Supp (PIXI)	oorted: 10 oorted: 10 T) T)	00 rel		onditi	on						
Comments:				•	•										
ISDN		M	GCF	I-	CSCF	S	-CSCF		AS	F	P-CSCF		UE-B	U	IE-C
SETUP (UE 1)	→		INVITE	→	INVITE	→									
					100 Trying	+	INVITE	→							
							100 Trying	-							
							INVITE	+							
							100 Trying	→	INVITE	→					
									INVITE	7	INVITE	→			
									180	+	180	+			
							180	→		<u> </u>					
ALERTING		+	180	+	180	+	180	+							
ALLINING		•	100	_	100	<u> </u>	181	+							
					181	+									
NOTIFY (UE 1)	1		181	+											
(OE 1)							CANCEL	+							
							CANCEL	→			CANCEL	→			
									487 Request terminated	+	487 Request terminated	+			
							487 Request terminated	→	terminated		terminated				
							ACK	+	1014	_					
						1		 	ACK	→	ACK	→			
							INVITE	+							
	+					<u> </u>	1		100 Trying	→			INVITE	→	
	\vdash								100 Hyllig	Ť			100 Trying	+	
									180	+			180	+	
ALERTING	+		180	+	180	+	180 180	+		<u> </u>	1				
ALLITING	-		100		100	-	100	_					200 OK	+	
									200 OK	+					
					200 OK	+	200 OK 200 OK	→							-
CONNECT	+		200 OK	+	200 UK	<u> </u>	200 UK	<u> </u>						 	
-			ACK	→	ACK	→	ACK	→							
	+					 	ACK	+	ACK	→	1		ACK	→	
DISC (UE1)	→		BYE	→		<u> </u>	1		AUK	7			AUK	7	
	Ĺ		7		BYE	→	BYE	→							
	\Box						BYE	+	B) (=	Ę			D) (=	Ę	
	+					 		 	BYE	→	-	_	BYE 200 OK	→	
							<u>L</u>	L		L		L	BYE	L`	
							000 011		200 OK BYE	+					
REL (UE1)	+		200 OK BYE	+	200 OK	+	200 OK BYE 200 OK BYE		-	 	-	_		-	
` ,					BYE	L		L`				L		<u> </u>	
RLC (UE1)	→														

ISS_XXSS	SCFN	NR 02		EN 30	reference 00 207-1 [i 6.1, 9.2.2	.5],				_	N refere S 183 00				
TSS reference	ce:				P/Supplem			es/C	FNR						
Configuration			The use URI to o diverted forwarde	r B is rigina to us ed" =	provided vating user is ser" = Yes, Yes, Server deflection	with n di "se ed เ	CFNR ("S version no rved user iser comm	Serve otifica rece	ed user allo ation" = Yes ives notific	s, "d atio	iverting not that the	un ca	nber is rele Ill has bee	ease n	ded to d to the
Selection crit	teria	:	Call forw	/ardir /ardir	ng by the ning unconditions support	etw tion	ork	ed							
Test purpose			call dive no TIR) allowed)	rsion and ι . Use	when user A and inform user C is in er B is notif	ned forr	of the dive	erted forw	-to number arding nun	r (us	er C has	pre	esentation	allo	
ISDN Param values:			BC = PI												
SIP Paramet	ter v	alues:		•	rameters o	•									
			Case a) Case b) Case c)	no 1 Supp Supp	oorted: 100 oorted: 100	rel		onditi	on						
			a = line (b = line (m = line	PIXI	T)										
Comments: ISDN		N 4	GCF		I-CSCF		S-CSCF		AS	_	-CSCF	1	UE-B		JE-C
		IVI					0-030F		A0	\perp^{r}	-030F	F	UE-D	'	JE-U
SETUP (UE 1)	→	•	INVITE	→	INVITE 100 Trying	→									
							INVITE 100 Trying	+				\vdash			
							INVITE	+							
							100 Trying	1	INVITE	→					
									180	+	INVITE 180	→			
							180	→	100		100	Ĺ			
ALERTING		+	180	+	180	+	180	+	 						
, LEIGHNG			100				181	+							
NOTIFY	+		181	+	181	+						\vdash			
(UE 1)							CANCEL CANCEL	+			CANCEL	→			
									487 Request terminated	+	487 Request terminated	+			
							487 Request terminated	→							
	+						ACK	+	ACK	→		F			
							10.0				ACK	→			
	\pm						INVITE	+	MESSAGE	→	MESSAGE	→			
									INVITE 100 Trying	→			INVITE	→	
	1								180	+			100 Trying 180	+	
ALEBT:::	Ļ		100		100		180	→	100	È			150	È	
ALERTING	+		180	+	180	+	180	+	200 OK	+			200 OK	+	
					200 014	_	200 OK	→							
CONNECT	+		200 OK ACK	←	200 OK ACK	←	200 OK ACK	→							
DISC (UE1)	→		BYE	→			ACK	+	ACK	→			ACK	→	
			-		BYE	→	BYE	→							
	\pm					L	BYE	4	BYE	→		H	BYE	→	
	I					E			200 OK BYE	+		E	200 OK BYE	+	
REL (UE1) RLC (UE1)	+		200 OK BYE	+	200 OK BYE	+	200 OK BYE 200 OK BYE	+							
NEO (UL I)	17				l	<u> </u>	1		1	ı	·	<u> </u>	1		1

ISS_XXSS	CFN	NR 03	cla	EN 3 uses	reference 00 207-1 [6.1, 9.2.2	i.5] , 9.2	2.5			_	N referei S 183 004				
TSS reference			ISDN-SI	P-SII	P/Supplem	enta	ary_servic	es/C	FNR						
Configuration			The use URI to o the divers forwards	r B is rigina ted-t ed" =	provided vating user io user" = 1	with n di No, ' d us	CFNR ("S version no 'served us er commi	Serve otifica ser re	ed user allo ation" = Yes eceives not tion retenti	s, "d ifica	iverting n tion that t	ur the	nber is rele call has b	ease een	ed to d to
Selection crit	eria	:	Call forw	/ardir /ardir	ng by the n ng uncondi ons suppor	etw tion	ork	ed							
Test purpose			Ensure to call dive no TIR) allowed)	hat wrsion and u	hen user and inforn	A ca ned ot in	of the divention	erted the	call is forw -to number forwarding rsion.	us (us	er C has	pre	esentation	allov	ved -
ISDN Param values:			BC = PI												
SIP Paramet	er v	alues:			rameters o	-									
			Case a) Case b)	no 10 Supp	ported hea 00 rel ported: 100 ported: 100) rel		onditi	on						
			a = line (b = line (m = line	PIXI	T)										
Comments: ISDN		М	GCF	Į.	-CSCF	S	-CSCF		AS	Р	-CSCF		UE-B	U	E-C
SETUP (UE 1)	→		INVITE	→	INVITE 100 Trying	→									
ALERTING		+	180	+	180	+	INVITE 100 Trying INVITE 100 Trying 180 180	÷ + + + + + + + + + + + + + + + + + + +	INVITE 180		INVITE 180	→ ←			
					181	+	181	+							
NOTIFY (UE 1)	+		181	+			CANCEL CANCEL	←	487 Request terminated	+	CANCEL 487 Request	→			
							487 Request terminated ACK	→			terminated				
									ACK	→	ACK	→			
							INVITE	+	INVITE 100 Trying 180	→ +			INVITE 100 Trying 180	+	
ALERTING	+		180	+	180	+	180 180	→					200 OK	+	
					200 OK	+	200 OK 200 OK	→	200 OK	+					
CONNECT	+		200 OK ACK	+	ACK	→	ACK ACK	→	ACK	→			ACK	→	
DISC (UE1)	→		BYE	→	BYE	→	BYE BYE	→	BYE	→			BYE	→	
DEL (UEA)			000 01/ 51/5		000 01/ 51/7		200 OK BYE	→	200 OK BYE	+			200 OK BYE	+	
REL (UE1) RLC (UE1)	↓ ↑		200 OK BYE	+	200 OK BYE	+	200 OK BYE	+							

ISS_XXSS	CFN	NR 04	1	SDN	referenc	e to:				NG	N refere	nce	e to:		
_					00 207-1					T	S 183 00	4 [4	45]		
					6.1, 9.2.										
TSS reference							ary_servic			d			- ((-11 4	- 1101
Configuration	:								ser allows t " = No, "div						
									ves notifica						16
									tion retenti						
			(forward	ing o	r deflection	n) =	No.								
Selection crite	eria	:			ng by the	netw	ork								
			CFNR st												
Test purpose					ns suppo		ılle usar R	tho	call is forw	arde	nd to use	r C	ucor Λ ic	noti	fied of
l est puipose	•								rted-to nun						
									ntation not			. •	10 1101 11110	,,,,,	u 0.
							diversion				,				
ISDN Parame	eter		BC = PI	XIT											
values:			D: 1 ()				DIVIT								
SIP Paramete	er v	alues:	Dial strir	ng pa	rameters	optic	ns=PIXIT								
					ported he	ader	:								
			Case a)			01									
					orted: 10		and preco	nditi	ion						
			Case c)	Jupp	orica. 10	0 161	and prece	, iuili	1011						
			a = line	(PIXI	T)										
			b = line	(PIXI	T)										
			m = line	(PIX	IT)										
Comments: ISDN		N/	GCF		CSCF	0	-CSCF		AS	ь	-CSCF		UE-B		IE-C
		IVI		1-1			-0301		AS	Г	-0301		OE-B		L-C
SETUP (UE 1)	→		INVITE	→	INVITE 100 Trying	+ +									
							INVITE	→							
							100 Trying INVITE	↓ ↓							
							100 Trying	→	INVITE	→					
											INVITE	→			
							180	→	180	+	180	+			
ALERTING		+	180	+	180	+	180	+							
7.22.11.110							CANCEL	+				Ļ			
							CANCEL	→	487 Request	+	CANCEL 487	→			
									terminated		Request terminated				
							487 Request terminated	→							
							ACK	+							
									ACK	→	ACK	→			
							INVITE	+	INI)//ITC	→					
									INVITE 100 Trying	+			INVITE	→	
	-		-						180	+		1_	100 Trying 180	+	
ALEDTING	+		100	+	100	+	180	→		Ė					
ALERTING			180	_	180	7	180	7					200 OK	+	
	H						200 OK	→	200 OK	+		H			
COMMENT	_		200 014	_	200 OK	+	200 OK	+							
CONNECT	+		200 OK ACK	←	ACK	→	ACK	→							
							ACK	+	ACK	→			ACK	→	
DISC (UE1)	→		BYE	→	D)/E		D) //5		7.010	Ĺ			,		
	L				BYE	→	BYE BYE	→				L			
									BYE	→			BYE 200 OK BYE	→	
									200 OK BYE	+			-00 OK DIE		
REL (UE1)	+		200 OK BYE	+	200 OK	+	200 OK BYE 200 OK BYE	→				1	1		
RLC (UE1)	→		1		BYE										
(011)					·		1			1	l	1	<u> </u>		

ISS_XXSS	CFN	IR 05		_	referenc						N referen				
					00 207-1 6.1, 9.2.2		2.5			1	S 183 004	[43)]		
TSS reference	.e.						ary_servic	es/C	FNR						
Configuration			The use	r B is	provided	with	CFNR Se	erved	l user comr	nun	ication ret	enti	ion on inv	voca	tion of
Selection crit	eria				warding d		flection) =	Yes)							
Coloculor on	Ona	•	CFNR su	uppo											
Test purpose	:		Ensure t	hat v	vhen user	A ca			nanswered						
			commun	icatio		ward	ds the dive		ation after s to user sha						
ISDN Parame	eter		BC = PI				• 1								
SIP Paramet	er v	alues:	Dial strin	ıg pa	rameters	optic	ns=PIXIT								
			Case a) Case b)	no 1 Supp	orted: 10	0 rel		onditi	ion						
			a = line (b = line (m = line	PIXI	T)										
Comments: ISDN		M	GCF	I-	CSCF	S	-CSCF		AS		P-CSCF		UE-B	1	IE-C
		171					0001		1.0						
SETUP (UE 1)	→		INVITE	→	INVITE 100 Trying	1 +									
					100 Hying		INVITE	→							
							100 Trying INVITE	+							
							100 Trying	→							
									INVITE	→					
									180	+	INVITE 180	→			
							180	→	160	_	160	_			
							180	+							
ALERTING		+	180	+	180	+	181	+							
					181	+	101								
NOTIFY	+		181	+											
(UE 1)									INVITE	→					
									100 Trying	+			INVITE	→	
									180	+			100 Trying	+	
							180	→	180	_			180	_	
ALERTING	+		180	+	180	+	180	+							
							CANCEL CANCEL	+			CANCEL	→			
							CANCEL	7	487 Request terminated	+	487 Request terminated	+			
							487 Request terminated	→							
	\vdash						ACK	+	ACK	→			 		
											ACK	→	200 OK	+	
									200 OK	+			200 OK		
					200 OK	+	200 OK 200 OK	→					-		
CONNECT	+		200 OK	+	200 OK		200 OK	È	<u> </u>	L					
			ACK	→	ACK	→	ACK	→							
	H						ACK	+	ACK	→		L	ACK	→	
DISC (UE1)	→		BYE	→	BYE	→	BYE	→							
					DIE	7	BYE	+			 				
									BYE	→			BYE	→	
													200 OK BYE	+	
									200 OK BYE	+					
REL (UE1)	+		200 OK BYE	+	200 OK	+	200 OK BYE 200 OK BYE	→			-		-		
, ,				-	BYE										
RLC (UE1)	→				<u> </u>		1	l	1	<u> </u>	L		<u> </u>		l

ISS_XXSS	SCFI	NR 06	cla	EN 3	reference 00 207-1 [6 6.1, 9.2.2	i.5], 2, 9.2	2.5			_	N referen S 183 004				
TSS referen	ce:		ISDN-SI	P-SII	P/Supplem	nenta	ary_servic	es/C	FNR						
Configuratio			The use	r B is	provided	with	CFNR ("S	Serve	ed user allo	ws	the preser	ntati	on of forwa	arde	d to
									ation" = Ye						to
									eceives no						
								iunic	ation reten	tion	on invoca	tion	ot diversion	n	
Selection cri	torio				or deflection ng by the r										
Selection ch	terra		CFNR s			ICIW	OIK								
					ns suppoi	ted									
Test purpose	e:		Ensure t	hat v	vhen user	A ca	alls user B	, if ur	nanswered	, the	call is for	war	ded to use	r C	
' '									ation after s						
									to user sha						
			and prod	edui	res in RFC	326	81 [28].Use	er A	is notified o	of ca	III diversio	n ar	nd informed	d of	the
									of the for			er (user B has		
100110					allowed). I	Jsei	B is notifi	ed o	f call divers	sion.					
ISDN Param	eter		BC = PI	ΧΠ											
values: SIP Parame	tor	aluac:	Dial atria	20.00	romotors	nnti-	nc-DIVIT								
oir Parame	ıeı v	aiues:	Diai Strir	ıy pa	rameters of	วษแด	л15=P1XП								
			PIXIT fo	rsun	ported hea	ader	:								
			Case a)				•								
					oorted: 100) rel									
					oorted: 100			nditi	on						
			a = line												
			b = line												
Commonto			m = line	(PIX	11)										
Comments: ISDN		M	L GCF		I-CSCF	(S-CSCF		AS		P-CSCF	1	UE-B	П	E-C
		141					, 5551		/ (0	Ľ	3001		JL <i>D</i>		
SETUP (UE 1)	→		INVITE	→	INVITE 100 Trying	→									
					100 Hyling		INVITE	→							
							100 Trying INVITE	+							
							100 Trying	→							
					<u> </u>	1			INVITE	→	INVITE	→			
									180	+	180	÷			
							180 180	→			-				
ALERTING		+	180	+	180	+									
					181	+	181	+	1		1				
NOTIFY	+		181	+											
(UE 1)	╧					L			INVITE	→					
									100 Trying MESSAGE	+			INVITE	→	
									IVILGOAGE	7	MESSAGE	→			
	+				<u> </u>	1			180	+			100 Trying 180	1 1	
							180	→		È				È	
-	+		180	+	180	+	180 CANCEL	4				-			
							CANCEL	÷			CANCEL	→			
									487 Request terminated	+	487 Request terminated	+			
							487 Request	→							
							terminated ACK	+							
	F								ACK	→	ACK	→			
	ᆂ				<u> </u>	L			<u> </u>	L	AUK	_	200 OK	+	
							200 OK	→	200 OK	+					
	士				200 OK	+	200 OK 200 OK	+							
CONNECT	+		200 OK ACK	+	ACK	→	ACK	→							
			AUN		AUN		ACK	+							
DISC (UE1)	→		BYE	→					ACK	→			ACK	→	
DIOC (UE1)	7		טונ	7	BYE	→	BYE	→							
	+					\vdash	BYE	+	BYE	→			BYE	→	
													200 OK BYE	+	
							200 OK BYE	→	200 OK BYE	+					
REL (UE1)	+		200 OK BYE	+	200 OK BYE	+	200 OK BYE	+							
RLC (UE1)	→														

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TSS reference:					P/Supplem			es/C	FNR						
Configuration:			The user URI to or the diver forwarde	r B is rigina ted-t ed" =	provided ating user in o user" = \	with in di Yes, d us	CFNR ("S version no "served u ser commu	Serve otifica iser r	ed user allo ation" = Yes receives no tion retenti	s, "d	liverting nation that	um the	nber is rele e call has	ease beer	d to
Selection criteri	ia:		Call forw	ardir uppo	ng by the n	etw									
Test purpose:			Ensure t The dive commun and prod diverted-	hat verting ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ic	when user waser acce on path towers in RFC umber and	A ca pts vard 326 use	the comm Is the dive 31 [28].Use or C is info	unica rted er A i rmed	nanswered ation after s to user sha is notified o d of the forved of call di	sence all be of ca varc	ding the IN e release all diversion ding numb	d a	ITE reques sccording t and inform	st, th o the ned c	e rules
ISDN Paramete values:	er		BC = PI		,										
SIP Parameter	va	lues:	PIXIT for Case a) Case b)	r sup no 1 Supp Supp PIXI	oorted: 100 oorted: 100 T) T)	der rel	:	onditi	on						
Comments:			005		0005	_	N 000F	1	40	_	0005	1	LIE D		
ISDN		M	GCF	Į.	-CSCF	S	S-CSCF		AS	Р	-CSCF		UE-B	U	E-C
SETUP (UE 1)	•		INVITE	→	INVITE 100 Trying	→									
							INVITE 100 Trying INVITE 100 Trying 100 Trying 180 180	+ + +	INVITE	→	INVITE 180	→ ←			
ALERTING	+	+	180	+	180	+	181	+							
NOTIFY (UE 1)	F		181	+	181	+			INVITE 100 Trying MESSAGE	→ ← →	MESSAGE	→	INVITE	→	
			180	+	180	+	180 180 CANCEL CANCEL	+ + +	180 487 Request terminated	+	CANCEL 487 Request	→ ←	100 Trying 180	+	
							487 Request terminated ACK	→	ACK	→	terminated				
					200 04		200 OK	→	200 OK	+	ACK	→	200 OK	+	
CONNECT	-		200 OK ACK	←	200 OK ACK	+	200 OK ACK ACK	→	ACK	→			ACK	→	
DISC (UE1)	•		BYE	→	BYE	→	BYE BYE	→	BYE	→			BYE 200 OK BYE	→	
REL (UE1) RLC (UE1)			200 OK BYE	+	200 OK BYE	+	200 OK BYE 200 OK BYE	→	200 OK BYE	+			ZUU UN BYE		

ISS_XXSS0		NR 08	l cla	EN 3 uses	referenc 00 207-1 s 6.1, 9.2.2	[i.5], 2, 9.2	2.5				GN referer GS 183 004				
TSS referenc							ary_servic								
Configuration	:		URI to o the diver forwarde	rigin ted- ed" =	ating user to user" =	in di No, ' ed us	version no "served us ser commu	tific er r	ed user allo ation" = Ye eceives no ation retent	s, " tific	diverting n ation that t	umb he c	er is rele all has b	ease een	
Selection crite	eria	:	Call forw	ardi uppo	ng by the	netw									
Test purpose	·		Ensure t The dive commun and prod User A is not infor	hat verting icati cedu s not med	when user g user acco on path to res in RF0 tified of ca	A ca epts ward 326 Il div ward	the comme Is the dive 31 [28]. ersion and	unic rted I info	nanswered ation after to user shad ormed of th ser B has p	sen all b	ding the IN be released iverted-to	IVIT d ac num	E request cording to the cording to the cording to the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of the cordination of	st, th o the user	e rules C is
ISDN Parame	eter		BC = PI												
values:															
SIP Paramete	er v	alues:	PIXIT for Case a) Case b)	r sup no 1 Sup Sup Sup PIXI	oported he 00 rel ported: 10 ported: 10 IT)	ader o rel		ondit	ion						
ISDN		M	GCF	Ī.	-CSCF	S	-CSCF		AS	F	P-CSCF		UE-B	U	E-C
SETUP (UE 1)	→		INVITE	→	INVITE	→									
					100 Trying	+	INVITE 100 Trying INVITE 100 Trying	+ + + +	INVITE	→	INVITE 180) +			
ALERTING		+	180	+	180	+	100	_							
NOTIFY (UE 1)	+		181	+	181	+	181	+	INVITE	→					
							400		100 Trying	+			INVITE 100 Trying 180	+	
ALERTING	+		180	+	180	+	180 180	→							
							CANCEL CANCEL 487 Request terminated ACK	+ + +	487 Request terminated	+	CANCEL 487 Request terminated	}			
							7.0.1		ACK	→					
	-										ACK	→	200 OK	+	
							000.511	Ţ	200 OK	+			,,,,,,,		
	-				200 OK	+	200 OK 200 OK	→							
CONNECT	+		200 OK ACK	←	ACK	→	ACK ACK	→	1015						
DISC (UE1)	→		BYE	→					ACK	→			ACK	→	
, <i>'</i>					BYE	→	BYE	→							
							BYE	+	BYE	→			BYE 200 OK BYE	}	
	F						200 OK BYE	→	200 OK BYE	+					
REL (UE1) RLC (UE1)	←		200 OK BYE	+	200 OK BYE	+	200 OK BYE	÷							

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TSS reference			ISDN-SI	P-SIF	P/Suppler	nenta	ary_servic	es/C	FNR						
Configuration	1:		User B is to original diverted forwarde	s provating to used" =	vided with user in di ser" = No, no) Serve	n CFI iversi "ser ed us	NR ("Serve ion notifica ved user r ser commu	ed us ation' ecei	ser allows t " = No "dive ves notifica tion retenti	ertin ition	g numbe that the	r is call	released I has beer	to th	
Selection crite	eria	:	Call forw	ardir uppoi		netw									
Test purpose	:		Ensure t The dive commun and prod User A is is not inf	hat warting ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ication ic	user according path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the second path to the secon	A ca epts ward 326 Il div orwa	the comm Is the dive 61 [28]. ersion and rding num	unica rted I not ber (nanswered ation after s to user sha informed c (user B has	sence all be of the	ding the II e release e diverted	VVI d a d-to	ITE reque according to number a	st, th o the and u	e rules
ISDN Parame values:	eter		BC = PI		notified o	t call	diversion								
			Case a) Case b)	no 10 Supp Supp (PIXI ⁻ (PIXI ⁻	oorted: 10 oorted: 10 T) T)	0 rel		onditi	ion						
Comments:		D 44	005		0005		2.0005		4.0		0005		LIE D		IF 0
ISDN		IVI	GCF	Į-	-CSCF	`	S-CSCF		AS	Р	-CSCF		UE-B	L	IE-C
SETUP (UE 1) ALERTING	- 	+	INVITE 180	+	INVITE 100 Trying	÷	INVITE 100 Trying INVITE 100 Trying 100 Trying 180 180	+ + + + +	INVITE 180 INVITE 100 Trying	→ ←	INVITE 180	→ ←	INVITE	→	
									180	+			100 Trying 180	+	
ALERTING	+		180	+	180	+	180 180 CANCEL CANCEL	+ + + +	100		CANCEL	→	100	-	
							487 Request terminated ACK	→	487 Request terminated	+	487 Request terminated	+			
							,,,,,,		ACK	→		Ļ			
	\vdash									\vdash	ACK	→	200 OK	+	
							200 014	→	200 OK	+					
CONNECT	+		200 OK ACK	+	200 OK ACK	+	200 OK 200 OK ACK	÷							
DISC (UE1)	→		BYE	→	BYE	→	ACK BYE	÷	ACK	→			ACK	→	
	 						BYE	+	BYE	→		-	BYE	→	
													200 OK BYE	+	
	 						200 OK BYE	→	200 OK BYE	+					
REL (UE1)	+		200 OK BYE	+	200 OK	+	200 OK BYE	+							
RLC (UE1)	→				BYE	-	 		1	1-	 	1	 	-	

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TSS reference	e:						tary_servi	ces/C	CFNR						
Configuration									led with CF	NR	Served u	isei	r commur	icatio	on
									arding or de						
									n], Served						
									er = No acti						
Selection crite	eria	:			ing by the								<u> </u>		
		•					supporte	d							
Test purpose:									f CFNR wa	s no	of succe	ssf	ul		
root parpood.			User A	calls	user B. th	ne ca	ll is forwar	rded	to user C v	vho	is user d	ete	rmined us	ser b	usv.
ISDN Parame	ter	values.	BC = P		400. D, ti	10 00		uou	10 400. 0 1	*****	10 4001 4	0.0	TITILITIES OF	301 0	acy.
SIP Paramete					aramotoro	onti	ons=PIXIT	_							
On Talamete	,ı v	aiues.	Diai Sti	ing po	arameters	o Opti	0113-1 1/(11								
			PIXIT f	ייו פויי	oported h	pade	r·								
			Case a			cauc	1.								
					ported: 1	00 ro	d								
							l and prec	ondi	tion						
			Jase C	, Gup	portou. It	0016	i and piec	Jiiuli	uon						
			a = line	/DIY	IT\										
			b = line												
			m = line												
Comments:			111 = 11116	, (I I/	XI I <i>)</i>										
ISDN		MG	CF	I_	CSCF	9	-CSCF		AS	P	-CSCF		UE-B	ı	IE-C
IODIN		IVIG	<u> </u>	'-			3301		Λ0		0001	\vdash	OL-D		
SETUP (UE 1)	→		INVITE	→	INVITE	→									
					100 Trying	+									
					100 Trying	_	INVITE	→							
							100 Trying	+							
							INVITE 100 Trying	←							
							100 Trying		INVITE	→					
											INVITE	,			
							180	→	180	+	180	+			
							180	+							
ALERTING		+	180	+	180	+	041105:		1			П			
		+					CANCEL CANCEL	4				\vdash			
							5, IOLL				CANCEL	→			
											487 Request	+			
										<u></u>	terminated				
									487 Request	+					
		+					487 Request	→	terminated			H			
							terminated							<u> </u>	
						<u> </u>	ACK	+	ACK	→				<u> </u>	
		+							ACK	7	ACK	→			
							INVITE	+			-				
		-							INVITE	→		H	INVITE	→	
		+							486	+		\vdash	486	+	
							486	→					ACK	→	
DISC # 17 REL	←		486 ACK	←	486 ACK	←	486 ACK	←	1	<u> </u>				<u> </u>	
RLC	4		AUN	7	AUN	7	ACK	+				H		 	
									ACK	→					
]					1					

ISS_XXSSC		R 11	E cla	EN 30 uses	reference 00 207-1 6.1, 9.2.2	i.5], 2, 9.2					SN referer S 183 004				
TSS reference							ry_service								
Configuration	:		retention	on in	in networl nvocation ation of ca	of div	ersion (fo	vide rwar	d with CFI ding or de	NR S	Served use tion) = No	er d [Cl	communic ear call to	ation the	served
Selection crite	eria	:	Call forwa	ardin	g by the r g on no re	etwo	rk								
Test purpose:	:		To verify	that	a call is re	eleas	ed correct				t success s network			d use	er
ISDN Parame values:			BC = PIX												
SIP Paramete	er v	alues:	PIXIT for	supp	oorted hea		ns=PIXIT								
				Supp	orted: 100		and precor	nditio	n						
			a = line (l b = line (l m = line (PIXIT	<u></u>										
Comments:															
ISDN		М	GCF	l-	CSCF	S	-CSCF		AS	F	P-CSCF		UE-B	U	E-C
SETUP (UE 1)	→		INVITE	→	INVITE	→									
					100 Trying	+									
							INVITE 100 Trying	→							
							INVITE	+							
							100 Trying	<u>→</u>	INVITE	→					
											INVITE	→			
							100	→	180	+	180	+			
							180 180	7							
ALERTING		+	180	+	180	+	CANCEL				_		_		_
				1	 		CANCEL	<u>+</u>		 				 	
											CANCEL	→			
							407 D	→			487 Request terminated	+			
							487 Request terminated			<u> </u>					
	\vdash						ACK	+		 	ACK	→		 	
							INVITE	+	15.0.475	Ļ					
									INVITE	→			INVITE	→	
									486	+			486	É	
DISC # 17	+		486	+	486	+	486 486	<u>→</u>		1					
REL	→		ACK	→ ·	ACK	→ ·	ACK							 	
RLC	+						ACK	+	A C14						
				<u> </u>	1	ļ	1		ACK	→			ACK	→	

ISS_XXSS(CFN	R 12	E	EN 30	referenc 00 207-1	[i.5],	_			_	N refere S 183 00				
TCC votovov					6.1, 9.2.			-/0	-ND						
TSS reference			The week	7-5IP	/Supplen	nenta	ry_service	S/CI	d with CFN	D (Nam (a al			:4:-	
Configuration	1.		retention	on in	vocation	of div	version (fo		d with CFN ding or def				commun	icatio	n
Selection crit	eria	:	Call forward				ork supported								
Test purpose) :		User A ca	alls u	ser B, the	call	is forward		user C wh	no is	user de	terr	nined use	er bus	sy. The
ISDN Param	eter		BC = PIX		ei Usei b	CON	inues to al	ert.							
values:															
SIP Paramet	er v	alues:	Dial string	g par	ameters	option	ns=PIXIT								
			PIXIT for Case a) r Case b) S Case c) S	no 10 Supp	0 rel orted: 10	0 rel	and precor	nditio	on						
			a = line (l b = line (l m = line (PIXIT)										
Comments: ISDN		Λ	I //GCF	I 1_	CSCF	9	-CSCF		AS	Ь	-CSCF	l -	UE-B	T 1	IE-C
		11					-0301		AS	Г	-0301		OE-B		/L-C
SETUP (UE 1)	→		INVITE	→	INVITE	→	INVITE	→							
							INVITE	-							
									INVITE	→	INVITE	→			
											180	+			
									180	+					
							180 180	→	+						
					180	+									
ALERTING		+	180	+	181	+	181	+							
NOTIFY	+		181	+	101		101								
(UE 1)	+						INVITE	+							
									INVITE	→					
	+								486	+			INVITE 486	→ +	
	+						486	→	400	_	ACK	→	400		
							ACK	+							
	+								ACK 200 OK	→	200 OK	+	ACK	→	
							200 OK	→	200 010		ACK	<u>`</u>			
CONNECT	+		200 OK	+	200 OK	+	200 OK	+	-						
CONNECT	-		ACK	→	ACK	→	ACK	→				H		1	
							ACK	+							
DISC (UE1)	→		BYE	→					ACK	→					
5.00 (011)	Ĺ			Ĺ	BYE	→									
	\Box						BYE	→							
	++						BYE	+	BYE	→	BYE	→		1	
											200 OK	+		1	
<u> </u>	+								200 OK BYE	+	BYE	H		1	
							200 OK BYE	→	200 ON DIE	Ė					
					200 OK	+	200 OK BYE	+							
REL (UE1)	+		200 OK BYE	+	BYE	 			+			H		1	
RLC (UE1)	À											П			
	+											\vdash		<u> </u>	
				·	l .		1			<u> </u>	l .	ш			l

ISS_XXSS(CFN	R 13	E	N 30	referenc	[i.5],				_	N refere 6 183 00				
TSS reference	.e.				6.1, 9.2.2		ry_service	s/CF	NR						
Configuration			The user	Rie	in networ	k N2	and is nro	vida	d with CFN	R S	arvad us	Ωr	commun	icatio	'n
Comiguration	١.								ding or defl				Commun	icatio	111
Selection crit	eria	:	Call forwa												
Test purpose	:		User A ca	ılls u	ser B, the	call	is forward		user C wh	o is	network	d e	etermine	d use	r busy.
			The forward	arding	g user Us	er B	continues	to a	ert.						
ISDN Paramovalues:	eter		BC = PIX	IT											
SIP Paramet	er v	alues:	Dial string	par	ameters (option	ns=PIXIT								
			,	io 10 Suppo Suppo	0 rel orted: 100 orted: 100	0 rel	and precor	nditic	on						
			a = line (F												
			b = line (F												
0			m = line (PIXI	I)										
Comments: ISDN		N 4	GCF		CSCF		CCCE		AS	_	-CSCF		UE-B	1	JE-C
ואטפו		IVI	GUF	1-	COUR	3	-CSCF		AO	_ P	-0307	<u> </u>	UE-D	+ '	J⊑-U
SETUP (UE 1)	→		INVITE	→	INVITE	→									
							INVITE INVITE	<u>→</u>							
							INVITE	_	INVITE	→					
											INVITE	→			
									100	,	180	+			
							180	→	180	4					
							180	÷							
					180	+									
ALERTING		+	180	+	404		404								
NOTIFY (UE 1)	+		181	+	181	+	181	+							
(02.1)							INVITE	+							
									INVITE	→					
	-					<u> </u>	400	-2	486	+		<u> </u>		_	1
						 	486 ACK	<u>→</u>	ACK	7				+	1
									200 OK	+	200 OK	+			
							200 OK	→	1		ACK	→			
CONNECT	+		200 OK	+	200 OK	+	200 OK	+	1			-		-	1
CONNECT	+		ACK	-	ACK	→	ACK	→	+					+	1
							ACK	+				L			
DIOC (UE I)	ĻŢ		D)/F						ACK	→		lacksquare		1	
DISC (UE1)	→		BYE	→	BYE	→	 		 			1		-	+
					212	Ť	BYE	→	1						<u> </u>
							BYE	+							
						<u> </u>			BYE	→	BYE	→			
											200 OK BYE	+			
									200 OK BYE	+		L			
							200 OK BYE	→	1						
					200 OK BYE	+	200 OK BYE	+							
REL (UE1)	+		200 OK BYE	+	DIE	 			 			1		-	
RLC (UE1)	→											L			
			•				+							_	

ISSI_XXSSCFNR 14	ISDN reference to: EN 300 207-1 [i.5],	NGN reference to: TS 183 004 [45]
	clauses 6.1, 9.2.2, 9.2.5	10 100 004 [40]
TSS reference:	ISDN-SIP-ISDN-ISDN/Supplementa	ry_services/CFNR
Configuration:		twork N1. The user B and C are in network N2, and D forwards the call to back to user B.
Selection criteria:	Call forwarding by the network Call forwarding on no reply supporte	d
Test purpose:	Ensure that when user A calls user E	B, the call is forwarded to user C and D. ser B. Ensure that the call is released.
ISDN Parameter	BC = PIXIT	
values:		
SIP Parameter values:	Dial string parameters options=PIXIT	Г
	PIXIT for supported header:	
	Case a) no 100 rel	
	Case b) Supported: 100 rel	
	Case c) Supported: 100 rel and pred	condition
	a = line (PIXIT)	
	b = line (PIXIT)	
	m = line (PIXIT)	
Comments:		

6.1.2.7 CFNL

ISI_XXS			01		EN claus	ON refere I 300 207 ses 6.1, 9	·1 [i.:	5], 9.2.5				GN refere						
TSS refere				ISDN-	-SIP-	ISDN/Sup	plen	nentary_se	ervic	es/ CFNL								
Configurati	on:							C are in ner C is poir				er B is in r	netw	vork N2 a	and is	;		
Selection of	rite	ria:				rding by th ported	ne ne	twork										
Test purpo	se:			Ensur	e tha	at in the a	ctive	calls user call state or prectly (e.	(N10) the voic	e trar	nsfer on th			d B-			
ISDN Para values:	me	ter		BC =	PIXIT													
SIP Param	ete	r valu	ıes:															
Comments			values:															
ISDN			MGC	F	I-	CSCF	S	-CSCF		AS	P	-CSCF		UE-B	U	E-C		
SETUP (UE 1)	→		- 11	NVITE	→	INVITE	→											
						100 Trying	+						-					
						100 Hyllig	_	INVITE	→									
								100 Trying	+									
								INVITE	+									
			_					100 Trying 181	+			-						
						181	+	101	_									
NOTIFY (UE 1)	+			181	+			INVITE	+									
						INVITE	+	100 Trying	→									
						100 Trying	-											
			- 11	NVITE	+	100 Trying												
				0 Trying	→													
SETUP (UE 2)																		
ALERTING (UE 2)	+			180	→													
, ,						180	→	180	→									
	+					180	+	180	+				<u> </u>		<u> </u>			
ALERTING (UE 1)	•		_	180	+													
CONNECT (UE 2)	→		2	00 OK	→													
						200 OK 200 OK	+	200 OK 200 OK	+			-						
CONNECT (UE 1)	+		2	00 OK	+	200 OK		200 OK										
, ,				ACK	→	ACK	→	ACK	→									
DIOC (UE1)				ACK	+	ACK	+	ACK	+				$\sqcup \bot$		<u> </u>			
DISC (UE1) DISC (UE2)	+			BYE BYE	+	BYE BYE	}	BYE BYE	+		-		\vdash		-			
REL (UE2)	→			OK BYE	→	DIE	_	DIE	_		+	 	+		1			
RLC (UE2)	+					200 OK BYE	→	200 OK BYE	→									
DEL (UEA)	+		200	OK BYE	+	200 OK BYE	+	200 OK BYE	+									
REL (UE1) RLC (UE1)	→		200	ONDIE	_								+		1			

ISI_XXSS	CFN	NL 02		EN 3	referenc 00 207-1 6 6.1, 9.2.	[i.5],					N referer S 183 004			
TSS referen	ce.						ntary_serv	rices	/CFNI					
Configuratio										user F	3 is provid	ded with CFI	NI.	
garane			("Served	l use on" =	r allows th = Yes, "div	ne pr	esentation	of f	orwarded	to UF	RI to origin	nating user i user" = Ye	n dive	ersion ser C is
			point-to-											
Selection cri	teria	a:	CFNL su	ıppoı	ng by the rted ons suppo		ork							
Test purpos	ь.						alls user B	the	call is for	warde	ed to user	C, user A is	s noti	fied of
Tool purpos	.		call dive	rsion	and infor	med	of the dive	ertec	l-to numb	er (us	er C has	presentation B has prese	n allov	wed -
			allowed)						o		. (0.00.	2 p. 000		
ISDN Param	ete	r	BC = PI											
values:														
SIP Parame	ter \	/alues:												
Comments:														
ISDN		MC	GCF	l-	CSCF	S	-CSCF		AS	P	-CSCF	UE-B	U	JE-C
SETUP (UE 1)	→		INVITE	→	INVITE	→								
					100 Trying	+	INVITE	→						
							100 Trying	+						
							INVITE 100 Trying	←						
							181	-						
NOTIFY	+		181	+	181	+	INVITE	+						
(UE 1)			101	`										
					INVITE	+	100 Trying	→						
					100 Trying	→								
			INVITE	ŕ										
SETUP (UE 2)	+		100 Trying	<u>→</u>										
ALERTING (UE 2)	>		180	→										
					180 180	1	180 180	+						
ALERTING (UE 1)	+		180	+	100		100							
CONNECT (UE 2)	→		200 OK	→										
					200 OK 200 OK	→	200 OK 200 OK	→						
CONNECT (UE 1)	+		200 OK	+										
	+	1	ACK ACK	<u>→</u>	ACK ACK	→	ACK ACK	→	1				1	\vdash
DISC (UE1)	→		BYE	÷										
	\square				BYE BYE	+	BYE BYE	+						
DISC (UE2)	+		BYE	+	DIE	_	DIE	_						\vdash
REL (UE2)	→		200 OK BYE	→										
RLC (UE2)	+				200 OK BYE	→	200 OK BYE	→						
					200 OK BYE	+	200 OK BYE	+						
REL (UE1)	+		200 OK BYE	+										
RLC (UE1)	→				I		1	l	1	L	I		1	

ISI_XXSS	CFN	IL 03	E	EN 3	referenc 00 207-1 6 6.1, 9.2.	[i.5],				_	N refere S 183 00				
TSS reference	ce:						ntary_serv	ices	/CFNL						
Configuration			The use	r A a	nd the us	er C	are in net	vork	N1. The us	ser E	3 is in net	WO	rk N2 and	l is p	rovided
			with CFN	۱L ("	Served us	ser al	llows the p	rese	ntation of f	orwa	arded to	URI	l to origina	ating	user in
									mber is rele						
			User C is	s poi	nt-to-mult	ipoin	t.	_							·
Selection crit	eria	:			ng by the	netw	ork								
			CFNL su												
					ons suppo										
Test purpose	: :								call is forw						
									rted-to num						not
							C is not inf	form	ed of the fo	rwa	rding nun	nbe	r (user B	has	
					not allowe	ed).									
ISDN Param values:	eter		BC = PI	XIT											
SIP Paramet	er v	alues:	<u> </u>												
Comments:															
ISDN		MC	GCF	I	-CSCF	5	S-CSCF		AS	Р	-CSCF		UE-B	Į	JE-C
OFTUD (UE 4)			IND//ITE		INVITE										
SETUP (UE 1)	→		INVITE	→	INVITE	→									
					100 Trying	+									
							INVITE 100 Trying	1 +				H			
							INVITE	+							
							100 Trying 181	^ ↓				H			
					181	+									
NOTIFY (UE 1)	+		181	+			INVITE	+							
(02 1)							100 Trying	→							
	-				INVITE 100 Trying	+ +									
			INVITE	+	100 Hyllig	,									
SETUP (UE 2)	+		100 Trying	→											
ALERTING	→		180	→											
(UE 2)					400		400								
					180 180	→	180 180	→							
ALERTING (UE 1)	+		180	+											
CONNECT	→		000 014	→											
(UE 2)			200 OK												
					200 OK	→	200 OK	→				\square			_
CONNECT	+		200 OK	+	200 OK	-	200 OK	-							
(UE 1)	+		ACK	→	ACK	→	ACK	→	 			\vdash			
DICC (UEA)			ACK	←	ACK	+	ACK	+							
DISC (UE1)	→	1	BYE	<u>→</u>	BYE	→	BYE	→				H			
DIOC (1172)	Ļ		D)/=		BYE	+	BYE	+				Ш			
DISC (UE2) REL (UE2)	←		BYE 200 OK BYE	<u>←</u>			1			1		\vdash			
RLC (UE2)	+				200 OK	→	200 OK BYE	→							
	\vdash				BYE 200 OK	+	200 OK BYE	+				\vdash			
REL (UE1)	+	1	200 OK BYE	+	BYE							\vdash			
RLC (UE1)	→														

ISI_XXSSC	FN	L 0 4	E	N 30	reference 00 207-1 [6.1, 9.2.2	i.5],	5			_	N referei S 183 004				
TSS reference	e:		ISDN-SIP	-ISD	N/Supple	men	tary_servi	ces/C	CFNL						
Configuration	1:		The user with CFN	A an L.	d the use	r C a	re in netw	ork N	N1. The us					-	vided
			presentat	ion c	of forwarde	ed to	and is pro URI to ori d to the div	ginat	ting user i	n div	ersion no	tification	n" = N	lo,	ooint.
Selection crite	eria	:		ardin	g by the n ed	etwo						•		•	
Test purpose	:		Ensure th call divers	at w	hen user <i>i</i> and not in	A cal	ls user B, ed of the d as preser	divert	ted-to num	nber					
ISDN Parame	eter		BC = PIX	ĬΤ	,		•			,					
SIP Paramete	er v	alues:													
Comments:															
ISDN		М	GCF	I	-CSCF	S	S-CSCF		AS	F	-CSCF	UE-	В	U	E-C
SETUP (UE 1)	→		INVITE	→	INVITE	→									
					100 Trying	+									
							INVITE 100 Trying	→ +							
							INVITE	+							
	\Box						100 Trying	→							
	-						INVITE 100 Trying	+ +							
	t				INVITE	+	100 Hyllig								
	Ш		D. 0. 47.		100 Trying	→									
	++		INVITE 100 Trying	+											
SETUP (UE 2)	+														
ALERTING (UE 2)	→		180	→											
	-				180 180	→	180 180	→							
ALERTING (UE 1)	+		180	+	100		100	Ì							
CONNECT (UE 2)	>		200 OK	→											
	+				200 OK 200 OK	}	200 OK 200 OK	+		-					
CONNECT (UE 1)	+		200 OK	+											
	igoplus		ACK ACK	→	ACK ACK	+	ACK ACK	+		1					
DISC (UE1)	→		BYE		AUN		AUN			1				-	
, ,	П				BYE	→	BYE	→							
DISC (UE2)	+		BYE	+	BYE	+	BYE	+		+					
REL (UE2)	→		200 OK BYE	÷											
RLC (UE2)	+				200 OK BYE	→	200 OK BYE	→							
REL (UE1)	+		200 OK BYE	+	200 OK BYE	+	200 OK BYE	+							
RLC (UE1)	→		200 ON DIE												

ISI_XXSS(CFN	NL 05	cla	EN 3	reference 00 207-1 [6.1, 9.2.2	i.5], , 9.2	2.5				N referer S 183 004				
TSS reference	e:				DN/Supple										
Configuration	۱:		The use	r B is	in networ	k N2	and is pr	ovide	ed with Cl	FNL.	User C is	ро	int-to-mu	ltipoii	nt.
Selection crit	eria	1:	CFNL su	uppoi s use	r determin	ed u	iser busy								
Test purpose	:				a call is re user B, the									er bu	ısy.
ISDN Param	eter		BC = PI	XIT											
values:															
SIP Paramet	er v	alues:													
Comments:															
ISDN		МС	GCF	Į.	-CSCF	S	G-CSCF		AS	Р	-CSCF		UE-B	U	E-C
SETUP (UE 1)	→		INVITE	→	INVITE	→									
					100 Trying	+									
					, , <u>,</u>		INVITE	→							
							100 Trying	+						<u> </u>	
							INVITE 100 Trying	↓	-	-	-			ļ	
							181	+	1	-					
					181	+	101								
NOTIFY (UE 1)	+		181	+			INVITE	+							
							100 Trying	→							
	1				INVITE	+ +				_					
	+		INVITE	+	100 Trying	7						_		ļ	
			100 Trying	÷											
SETUP (UE 2)	+														
RLC (UE 2)	>		486 Busy here	→	486 Busy here	→	486 Busy here	→							
DISC (UE 1)	+		486 Busy here	+	486 Busy here	+	486 Busy here	+							
REL	→		ACK	→	ACK	→	ACK	→							
RLC	+		ACK	+	ACK	+	ACK	+							
	+	i										1		1	

Call forwar CFNL sup user C is r To verify th	B is i rding portenetw hat a lls us	in network g by the n ted ork deterior a call is re	k N2 netwo mine eleas	and is prork ed user bused corrected	usy otly if	ed with CF	s not	successf	point-to-mu ul. c determine	•	
Call forwa CFNL sup user C is r To verify th User A cal busy. BC = PIXI	rding portenetw hat a lls us	g by the n ted ork detern a call is re	mine	ork ed user bu sed correc	usy ctly if	CFNL was	s not	successf	ul.	•	
CFNL sup user C is r To verify th User A cal busy. BC = PIXI	portinetw hat a lls us	ted vork deter a call is re	mine	ed user bu	ctly if					d user	
User A cal busy. BC = PIXI	lls us									d user	
BC = PIXI											
CF	1-0										
CF	1-0										
CF	1-0										
		CSCF	S	-CSCF		AS	P	-CSCF	UE-B	UE	E-C
INVITE	→	INVITE	→								
		100 Trying	+				+				
		, , ,		INVITE	→						
				100 Trying	+		-				
				100 Trying	→						
				181	+						
181	-	181	+	INVITE	+						
		INIV/ITE	_	100 Trying	→						
			→							+	
		, ,									
100 Trying	→									 	
486 Busy here	→	486 Busy here	→	486 Busy here	→						
486 Busy here	+	486 Busy here	+	486 Busy here	+						
		ACK	→	ACK	→						
ACK	_	ACK	-	ACK	-		+				
							+			 	
•	INVITE 100 Trying 486 Busy here 486 Busy here ACK	INVITE (*) 100 Trying (*) 486 Busy here 486 Busy here ACK (*)	INVITE 100 Trying INVITE ← 100 Trying → 486 Busy here 486 Busy here 486 Busy here ACK → ACK	INVITE	181 ← 181 ← 1NVITE 181 ← 1NVITE 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Tryin	100 Trying + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 + 181 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100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying → 100 Trying →	100 Trying → 181 ← 181 ← 1NVITE ← 100 Trying → 1NVITE ← 100 Trying → 1NVITE ← 100 Trying → 486 Busy here here here here here here ACK → ACK → ACK →

ISS_XXS		NL 07		EN laus	N referei 300 207- es 6.1, 9.	1 [i. § 2.2,	5], 9.2.5				GN refere FS 183 00			
TSS referen			ISDN-S	SIP-S	IP/Supple	emer	tary_servi	ces/	CFNL					
Configuration	n:		The use	er B i	is provide	d wit	h CFNL.							
Selection cr	iteria:		Call for	ward	ing by the	net	work							
			CFNL s	suppo	orted									
Test purpos	e:		Ensure	that	when use	er A d	calls user E	3, the	e call is for	ward	ded to use	er C.		
ISDN Paran		values:	BC = P					,						
SIP Parame														
Comments:	toi ve	21000.												
ISDN		MG	CE		CSCF	0	-CSCF		AS	Р	-CSCF	UE-B	ı	IE-C
וועטו		IVIG	OF-	1-	I		-000F		AO	\vdash	-000F	UE-B	ر	-C
SETUP	→		INVITE	→	INVITE	→								
					100 Trying	+	INVITE	→						
							100 Trying	7						
							INVITE	+						
							100 Trying	→						
							181	+						
NOTIFY	 		101	+	181	+			INVITE	→		INVITE	→	
NOTIFY	-		181	_					INVITE	7		100 Trying	+	
	1 1								100 Trying	+		100 Hying		
									180	+		180	+	
							180	→						
AL EDTINO	1_		100	_	180	+	180	+						
ALERTING	+		180	+					200 OK	+		200 OK	+	
	1 +						200 OK	→	200 OK			200 OK	•	
	1 1						200 OK	+						
					200 OK	+								
CONNECT	+		200 OK	+			1.01							
	++		ACK	→	ACK	→	ACK ACK	→	1	1				1
	+						ACK		ACK	→		ACK	→	
DISC (UE1)	→		BYE	→					7.0.1			7.0.1		
,					BYE	→								
							BYE	→						
	++						BYE	+	5:	.		E1/2		
	++						 		BYE	→		BYE 200 OK BYE	+	-
	++						1		200 OK BYE	+		ZUU UN BYE	_	
	+						200 OK BYE	→		Ė		1		
					200 OK	+	200 OK BYE	+						
DEL (UEA)	12	0.0	00 OK DVC	+	BYE									
REL (UE1) RLC (UE1)	+	20	00 OK BYE				+			<u> </u>		_		

ISS_XXS	SSC	FNL 08	С	ΕN	N referer 300 207- es 6.1, 9.	1 [i.5	5],				SN refere S 183 00			
TSS refere	ence):	ISDN-	SIP-	SIP/Suppl	eme	ntary_serv	rices	/CFNL					
Configurat	ion:		The us	ser B	is provide	ed wi	th CFNL ("Ser	ved user al	lows	s the pres	entation of fo	orwa	rded to
			URI to	orig	inating us	er in	diversion	notifi	ication" = Y	es,	"diverting	number is re	eleas	sed to
			the div	erte	d-to user"	= Ye	es).							
Selection of	crite	ria:			ding by th	e ne	twork							
			CFNL											
_					tions sup									
Test purpo	ose:											er C, user A		
												has presenta		
					,		er C is into	rme	d of the for	ward	ding numb	er (user B h	as	
IODAL David					n allowed).								
ISDN Para	arme	ter	BC = F	וואוי										
values: SIP Param	noto	r values:												
Comments		i values.												
ISDN	٥.	MG			CSCF	0	-CSCF		AS		-CSCF	UE-B		IE-C
ISDIN		IVIG	JI	- '-		3	-0301		TAS	Г	-0301	OE-B	U	<u> </u>
SETUP	→		INVITE	→	INVITE	→								
					100 Trying	+								
					100 Trying		INVITE	→						
							100 Trying	+						
							INVITE 100 Trying	+						
							181	+						
NOTIFY	 ←		181	+	181	+			INVITE	→		INVITE	→	
NOTILI	Ť		101	_					INVIIL			100 Trying	-	
									100 Trying	+				
							180	→	180	+		180	+	
					180	+	180	+						
ALERTING	+		180	+					200 OK	+		200 OK	,	
	+-						200 OK	→	200 OK	-		200 OK	+	
							200 OK	+						
CONNECT	+		200 OK	+	200 OK	+			1					
CONNECT	-		ACK	→	ACK	→	ACK	→						
							ACK	+						
DISC (UE1)	→		BYE	→					ACK	→		ACK	→	
DIGG (OL 1)	Ľ		D.L.	É	BYE	→								
							BYE	→						
	+				-		BYE	+	BYE	→		BYE	→	
												200 OK BYE	÷	
	1						200 OK BYE	→	200 OK BYE	+				
					200 OK	+	200 OK BYE		<u> </u>					
DEI ****	1_		0.01/ 51/5		BYE									
REL (UE1) RLC (UE1)	+	20	0 OK BYE	+	-				-					
TALO (OL I)	Í									L				
				<u> </u>	I.	<u> </u>	1			L]			<u> </u>

ISS_XXS		NL 09		EN laus	N refere 300 207 es 6.1, 9	·1 [i.:	5], 9.2.5				IGN refer TS 183 0			
TSS referen	ce:		ISDN-S	SIP-S	SIP/Supple	emer	ntary_servi	ces/	CFNL					
Configuration	n:		to origi	natin	ovided wig user in user" = N	diver	FNL ("Servision notific	ed u catio	user allows n" = Yes, "	the dive	presentat rting num	tion of forwar ber is releas	rded ed to	to URI the
Selection cr	iteria	1:	CFNL S	supp ificat	ions supp	orte	d							
Test purpos	e:		call div	ersio d - TI	n and not	info ser C	rmed of the is not info	e div	erted-to nu	ımb	er (user C	er C, user A has present per (user B h	atio	
ISDN Paran	nete	values:	BC = P	TIXI										
SIP Parame														
Comments:														
ISDN		MG	CF	I-	CSCF	S	-CSCF		AS	Р	-CSCF	UE-B	Į	JE-C
SETUP	→		INVITE	→	INVITE	→								
					100 Trying	+								
							INVITE)						
+							100 Trying INVITE	+			 			
							100 Trying 181	→						
NOTITY			101		181	+			IND OTE			15.17.47.5		
NOTIFY	+		181	+					INVITE	→		INVITE 100 Trying	1	
									100 Trying	+				
									180	+		180	+	
					180	+	180 180	<u>→</u>						
ALERTING	+		180	+	100	_	100							
									200 OK	+		200 OK	+	
-							200 OK 200 OK	→	1					
					200 OK	+	200 OK							
CONNECT	+		200 OK	+										
-			ACK	→	ACK	→	ACK ACK	→	1					
	+	-					AUN		ACK	→		ACK	→	
DISC (UE1)	→		BYE	→					1.5.0					
					BYE	→	D)/E	→						
		-					BYE BYE	7						
							DIL		BYE	→		BYE	→	
										_		200 OK BYE	+	
	+						200 OK BYE	→	200 OK BYE	+				
					200 OK BYE	+	200 OK BYE	+						
REL (UE1)	+	2	00 OK BYE	+										
RLC (UE1)	→				<u> </u>				I	L	I			

ISS_XXSS	CFN	IL 10	С	EN	N referei 300 207- es 6.1, 9.	1 [i.5	5],			_	SN refere S 183 00			
TSS reference	э:		ISDN-S	IP-S	IP/Supple	men	tary_servi	ces/	CFNL					
Configuration:			The use	er A						ıser	B is in ne	twork N2 an	d is	
			present	tatior	of forwa	rded	to URI to	origir		in d	iversion r	user allows otification" =		,
Selection crite	ria:		Call for CFNL s	ward suppo	ling by the	net	work							
Test purpose:			Ensure of call of	that divers	when use sion and r	er A d not in	calls user I formed of	the o		num	ber and ι	er C, user A i user C is not		
ISDN Parame	ter v	alues:	BC = P											
SIP Paramete														
Comments:														
ISDN		MG	CF	-	CSCF	S	-CSCF		AS	Р	-CSCF	UE-B	U	E-C
SETUP	→		INVITE	→	INVITE	→								
					100 Trying	+	INVITE	→						
							100 Trying	+						
							INVITE	+						
	1						100 Trying	→	INVITE	→		INVITE	→	
									INVITE	7		100 Trying	+	
									100 Trying	+				
							400	→	180	+		180	+	
	+				180	+	180 180							
ALERTING	+		180	+										
							200 OK	→	200 OK	+		200 OK	+	
							200 OK	-						
					200 OK	+								
CONNECT	+		200 OK ACK	<u>←</u>	ACK	→	ACK	→						
			AOR		AOR		ACK	-						
									ACK	→		ACK	→	
DISC (UE1)	→		BYE	→	BYE	→								
					DIE		BYE	→						
							BYE	+						
	+								BYE	→		BYE 200 OK BYE	1	
	+	-							200 OK BYE	+		ZUU OK BYE	-	1
	力						200 OK BYE	→		Ė				
DEL (UEA)			000 OK DVC	+	200 OK BYE	+	200 OK BYE	+						
REL (UE1)	+	2	200 OK BYE	_					I	1		ı		

ISS_XXS	SCF	NL 11		EN laus	N refere 300 207- es 6.1, 9.	1 [i.{ 2.2,	5], 9.2.5				GN refere TS 183 00			
TSS referer							ıtary_servi							
Configuration	n:		The us	er B	is in netw	ork N	√l2 and is p	rovio	ded with C	FNL				
Selection cr	iteri	a:	CFNL:	supp										
Test purpos	e:						ased corre all is forwa					ssful . letermined ι	ıser b	usy.
ISDN Paran	nete	r values:	BC = F	TIXI										
SIP Parame	eter	values:												
Comments:														
ISDN		MG	CF	ŀ	-CSCF	S	S-CSCF		AS	Р	-CSCF	UE-B	l	JE-C
SETUP	→		INVITE	→	INVITE	→							1	
GETGI	1		IIIVIIL		IIVVIIL									
					100 Trying	+								
							INVITE	→						
					1		100 Trying INVITE	÷						
		-					100 Trying	`						
							181	+						
					181	Ψ	INVITE			→				
NOTIFY	+		181	+								INVITE	→	
	+ -				-		486	→	486	+		486 ACK	+	
	+ 1				486	+	486	-				ACK	7	
DISC # 17	+		486	+	400		700			1			1	
REL	→		ACK	→						1			1	
RLC	+				ACK	→								
					1		ACK	→					<u> </u>	
-	+				!		ACK	+	ACK	→			 	
1	+				 				ACK	7			1	
					1					1			1	

ISS_XXS	SSC	FNL 12		E	DN refere N 300 207 ses 6.1, 9	'-1 [i.	.5],				GN refere TS 183 00		
TSS referen	ice:		ISDN	-SIP	-SIP/Supp	olem	entary_ser	vices	s/CFNL				
Configuration	n:		The ι	ıser l	B is in net	work	N2 and is	prov	ided with	CFN	IL		
Selection cr		a:	Call f	orwa	rding by t	he n	etwork						
			Call f	orwa	rding unc	ondit	tional supp	orte	d				
Test purpos	e:			A ca			leased cor call is forv					essful. vork determ	ined user
ISDN Paran	nete	r values:	BC =		Т								
SIP Parame	eter v	values:			-								
Comments:			İ										
ISDN		MGC	F	I-	CSCF	9	S-CSCF		AS	Р	-CSCF	UE-B	UE-C
SETUP	→	II.	NVITE	→	INVITE	→							
					100 Trying	+							
							INVITE 100 Trying	→					
							INVITE	÷					
							100 Trying	→					
							INVITE			→			
	-						486	→	486	+			
	+				486	+	486	7					
DISC # 17	+		486	+	400		400			+			
REL	→		ACK	→			1			1	İ		1 1
RLC	+				ACK	→							
	$oldsymbol{\perp}$						ACK	→					
	+						ACK	+	4014	→			
	+				-		+		ACK	7			
	+				 		+			+			

6.1.2.8 CD

6.1.2.8.1 Call Deflection-ISI

ISI_XXSS	SCE	01	E	EN 30	referenc 00 207-1 6.1, 9.2.2	[i.5],	2.5				N refere 3 183 00				
TSS referen	ce:						tary_servi	ces/C	CD- Imme	diate	respons	е			
Configuration			The user with CD (diversion	A an "Ser notif iser r	nd the use ved user "ication" =	er C a allow : Yes	are in netwood the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the present of the pr	ork N entat I num	N1. The us tion of forw nber is rele	ser B varde ease	is in net ed to UR d to the c	wor I to dive	originatin erted-to us	ig use ser" =	er in Yes,
Selection cri	teria	a:			tivated th	ne CA	LL DEFLE	CTI	ON servic	е					
Test purpose			Ensure the call diversion COLR allowed). Ensure the	nat w sion () and nat in	hen user and inforr d user C i the activ	A cal med o s info	lls user B, of the dive ormed of th I state (N1 sting QoS	the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the co	call is deflet to number warding n e voice tra	ected (use numb	er C has er (user	pre B h	sentation as preser	allow ntatio	red - n
ISDN Param	ete	r	BC = PIX		7 \										
values:															
SIP Parame	ter v	values:	Dial string	g par	ameters	optio	ns=PIXIT								
Comments:			PIXIT for Case a) r Case b) S Case c) S a = line (l b = line (l	no 10 Supp Supp PIXIT PIXIT	00 rel orted: 100 orted: 100 () ()	0 rel	and preco	nditio	n						
ISDN		1.4	GCF	-	CSCF	-	-CSCF		AS	В	-CSCF		UE-B		E-C
ISDIN		IVI	GCF	1-	LSCF	3	-0307		AS	Г	-0307		UE-B		E-C
SETUP (UE 1)	→		INVITE	→	INVITE	→	INDUTE								
							INVITE INVITE	+						1	
									INVITE	→					
											INVITE 302	→		1	
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Clauses 6.1, 9.22, 9.25 ISSS reference: ISDN:SIP-ISDN/Supplementary services' CD- Immediate response	ISI_XXS\$	SCE	0 04		EN 30	referenc 00 207-1	[i.5],					N referer S 183 004				
Configuration: The user A and the user C are in network N1. The user B is in network N2 and is provided with CD Selection criteria: User B has activated the CALL DEFLECTION service Ensure that when user A call user B, the call is deflected to user C. Ensure that he nearly a call state (N10) the voice transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters). User C is point-to-multipoint. ISDN Parameter values: Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel Case c) Supported: 100 rel Case c) Supported: 100 rel Case c) Supported: 100 rel The line (PIXIT) De line (PIXIT) De line (PIXIT) De line (PIXIT) De line (PIXIT) SETUP (UE 1) INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVITE INVI	TSS reference	e.							ices/	CD- Imme	ediat	e respon	se			
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SETUP (UE 2)	(UE 1)					INVITE	+									
ALERTING	OFTUD (UE 0)			INVITE	+											
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(UE 1) CONNECT (UE 2) 200 OK																
(UE 2) 200 OK → 200 OK → 200 OK ← 200 OK ← 200 OK ← 200 OK ← 200 OK ← ACK → ACK → ACK → ACK ← ACK ← ACK ← CONNECT (UE 1) DISC (UE1) → BYE → BYE → BYE → BYE ← BYE ← REL (UE2) → 200 OK BYE → REL (UE1) ← 200 OK BYE ← REL (UE1) ← 200 OK BYE ← REL (UE1) ← 200 OK BYE ←		+		180	+											
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ACK	(UE 2)					200 OK	→	200 OK	→							
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CONNECT (UE 1) ← 200 OK ← DISC (UE1) → BYE → BYE → BYE → DISC (UE2) ← BYE ← REL (UE2) → 200 OK BYE → RLC (UE2) ← 200 OK BYE → REL (UE1) ← 200 OK BYE ← REL (UE1) ← 200 OK BYE ← REL (UE1) ← 200 OK BYE ←																
DISC (UE1)		+						1					T		1	
BYE → BYE → BYE → BYE → BYE → BYE → BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE ← BYE		→		BYE	→			1					\vdash			
DISC (UE2)	, ,															
REL (UE2) → 200 OK BYE → 200 OK BYE → RLC (UE2) ← 200 OK BYE → 200 OK BYE → REL (UE1) ← 200 OK BYE ← 200 OK BYE ← REL (UE1) ← 200 OK BYE ← - -	DISC (UE2)	+		BYE	+	RIF	-	RAF	~				╁		-	
BYE 200 OK BYE	REL (UE2)	→														
BYE	RLC (UE2)	+				BYE										
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I RLG (UE1) 7	REL (UE1) RLC (UE1)	↓ ↑		200 OK BYE	+			1					1			

ISI_XXSSCD 05			ISDN reference to: EN 300 207-1 [i.5], clauses 6.1, 9.2.2, 9.2.5						NGN reference to: TS 183 004 [45]								
TSS reference:		ISDN-SIP-ISDN/Supplementary_services/ CD- Immediate response															
Configuration:		The user B is in network N2 and is provided with CD. User C is point-to-multipoint.															
Selection crit	Selection criteria:		user C is network determined user busy														
			User B has activated the CALL DEFLECTION service														
Test purpose	: :		To verify that a call is released correctly if CD was not successful. User A calls user B, the call is forwarded to user C who is user determined user busy.														
				ser B, the	call	is forward	led to	user C w	ho is	user det	err	nined	user l	ousy.			
ISDN Parameter			BC = PIXIT														
values:																	
SIP Parameter values:		Dial string parameters options=PIXIT															
			Case a) r Case b) S	no 10 Suppo Suppo PIXIT PIXIT	orted: 100 orted: 100	rel	and preco	nditic	on								
Comments:																	
ISDN M		М	IGCF I-CSCF		S-CSCF		AS		P-CSCF		UE-B		UE-C				
SETUP (UE 1)	→		INVITE	→	INVITE	→								-			
							INVITE	→									
						-	INVITE	+			INVITE 100 Trying	→					
											302	÷					
							000		302	+							
							302 ACK	→				<u> </u>					
									ACK	→	ACK	→					
					181	+	181	+				-					
NOTIFY (UE 1)	+		181	+			INVITE	+									
	+		INVITE	+	INVITE	+				-				-			
SETUP (UE 2)	+		IINVITE	_		1		+		-				+			
RLC (UE 2)	→		486 Busy here	→	486 Busy here	→	486 Busy here	→									
DISC (UE 1)	+		486 Busy here	+	486 Busy here	+	486 Busy here	+									
REL	→		ACK	→	ACK	→	ACK	→									
RLC	+		ACK	+	ACK	+	ACK	+		-		<u> </u>		1			
	\dagger					 				1				1			

ISI_XXSSCD 06				EN 3	reference 00 207-1	[i.5],		NGN reference to: TS 183 004 [45]								
			clauses 6.1, 9.2.2, 9.2.5													
TSS reference:		ISDN-SIP-ISDN/Supplementary_services/ CD- Immediate response														
Configuration:		The user B is in network N2 and is provided with CD. User C is point-to-multipoint. user C is network determined network busy														
Selection crit	teria	:														
			User B has activated the CALL DEFLECTION service													
Test purpose	э:		To verify that a call is released correctly if CD was not successful.													
		User A calls user B, the call is forwarded to user C who is network determined user														
		busy.														
ISDN Parameter values:			BC = PI													
SIP Parameter values:			Dial stri	ng pa	rameters	optic	ns=PIXIT	_								
			Case a)	no 1 Supp Supp (PIXI (PIXI	ported: 10 ported: 10 T) T)	0 rel		onditi	ion							
Comments:				/ (1 1/)	/											
		GCF I-CSCF			S	-CSCF AS		AS	P-CSCF		UE-B		U	E-C		
SETUP (UE 1)	→		INVITE	→	INVITE	→	INVITE	→								
							INVITE	+								
									INVITE	→	INVITE	→				
											302	+				
									302	+						
							302 ACK	→				+ +				
									ACK	→	ACK	→				
					181	+	181	+				+				
NOTIFY	+		181	+	101	_	INVITE	+								
(UE 1)																
	+		INVITE	+	INVITE	+				+		+				
			486 Busy here	→	486 Busy here	→	486 Busy here	→								
DISC (UE 1)	+	+	486 Busy	+	486 Busy	+	486 Busy	+								
DISC (UE 1)	+			+		←		+								

ISI_XX	SS	CD 07		EN claus	DN refere N 300 207 ses 6.1, 9	'-1 [i.5 .2.2, 9	5], 9.2.5				NGN refo TS 183				
TSS refere	nce	:	ISDN-	-SIP-	ISDN/Sup	plem	entary_s	ervice	es/ CD- du	ring	alerting				
Configurati			The u with C	ser A D- d	and the uring aler	user (ting. (Care in n Jser C is	etwo point	rk N1. The t-to-multipo	use oint.		netv	vork N2 a	and is	provided
Selection c		ria:							CTION ser						
Test purpor						ser A	calls use	r B, th	ne call is d	eflec	ted durir	ıg a	lerting to	user	C.
ISDN Para	met	er	BC =	PIXI	Γ										
values:															
SIP Param	ete	r value	s: Dial s	tring	paramete	rs opt	ions=PIX	ΊΤ							
			Case Case	a) no b) Si	upported 100 rel upported: upported:	100 re	el	econo	dition						
			a = lir b = lir m = lii	ie (P	IXIT)										
Comments	:														
ISDN		M	GCF	I-	CSCF	S-	CSCF		AS	Р	-CSCF		UE-B		UE-C
SETUP (UE 1)	4		INVITE	→	INVITE	→								-	
SETOF (OL 1)	7		IINVITE	7	INVIIL										
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ALERTING		+	180	+	180	+					000	Ļ			
			-						302	+	302	+		-	
							302	→	302	È					
							ACK	+							
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NOTIFY	+		181	+	181	+	181	+		 				+	+
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(UE 2)												L			
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(UE 2)			200 OK		200 OK				<u> </u>				<u> </u>		
CONNECT (UE 1)	+		200 OK	+	200 OK	+	200 OK	+							
	H		ACK ACK	+	ACK ACK	+	ACK ACK	+		1		 		1	
DISC (UE1)	→		BYE	^	BYE	,	BYE	→				L			
DISC (UE2)	+		BYE	+	BYE	+	BYE	+							
REL (UE2)	→		200 OK BYE	→	200 OK BYE	→	200 OK BYE	→							
RLC (UE2)	+				DIL		DIL					L			
REL (UE1)	+		200 OK BYE	+	200 OK	+	200 OK	+							
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ISI_XX	XSS	CD	08			ISDN refe EN 300 2								ence to:		
						auses 6.1						10 10		04 [40]		
TSS refer										vices/ CD-						
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Selection	crit	eria:								ECTION S		ice				
Test purp										B, the call is			urir	ng alerting	to u	ser C,
				use	er A i	s notified	of call	diversio	n and	d informed	of th	ne diverte	ed-	to numbei	· (use	er C has
										d user C is	info	rmed of t	he	forwardin	g nu	mber
						has prese	entatio	n allowe	d).							
ISDN Par	ame	eter		BC	: = Pl	IXII										
values: SIP Parar	mot	2r V2	duec.	Dia	al etri	ng param	otore (ontions-l	DIYIT	-						
Oil I alai	Hett	SI VC	ilues.	Die	ai Stii	ng param	CICIS	options=i	INII							
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(UE 1)				_			_									
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										302	+	302	+			
								302	→	302	_					
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NOTIC:					+	181	+	181	+							
NOTIFY (UE 1)	+		181		7											
						INVITE 100 Trying	4	INVITE	+				\vdash			
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(UE 2) ALERTING	→		180		→	180	→	180	→							
(UE 2)													Ш			
ALERTING (UE 1)	+	L	180		4	180	Ψ	180	4							
CONNECT (UE 2)	→		200 C	K	→	200 OK	→	200 OK	→							
CONNECT	+		200 C	K	+	200 OK	+	200 OK	+							
(UE 1)			ACK		→	ACK	→	ACK	→							
DISC (UE1)	→		ACM BYE		+ +	ACK BYE	+ +	ACK BYE	+							
DISC (UE2)	+		BYE		+	BYE	+	BYE	+							
REL (UE2)	→		200 OK	BYE	→	200 OK BYE	→	200 OK BYE	→							
RLC (UE2)	+		200 OK	DVF	+	200 OK	+	200 OK	+							
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RLC (UE1)	→															

ISI_X	XX	SSCD	09		cl	ISDN ref EN 300 auses 6.	207-1	[i.5]				_		rence to: 004 [45]		
TSS refe	ere:	uce.		IST					sen	/ices/ CD-	duri	ng alertin	na			
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Selection	n c	riteria:								ECTION S	ervi	ce				
Test pur				Ens use has nur	sure er A is s pres mber	that when s notified sentation (user B h	user of call not all	A calls u diversion lowed - C	ser E n and OLR	, the call is I not inform) and user allowed).	def ned	lected du of the div	ert	ed-to num	ber	(user C
ISDN Pa	araı	meter		BC	= PI	XIT										
values: SIP Para		otor vo	lucai	Dia	Lotri	ng param	otoro	ontiona I	דועור							
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ISDN		M	GCF		I-	CSCF	S-0	CSCF		AS	Р	-CSCF		UE-B		UE-C
SETUP (UE 1)	→		INVI	ΓE	→	INVITE	→									
						100 Trying	+	INVITE	→							
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(UE 1)						INVITE 100 Trying	←	INVITE	+							
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DISC	→		BYE		-	BYE	-	BYE	→				H			
(UE1) DISC (UE2)	+		BYE		+	BYE	+	BYE	+							
REL (UE2)	→		200 OK	BYE	→	200 OK BYE	→	200 OK BYE	→							
RLC (UE2) REL (UE1)			200 OK	BYE	+	200 OK BYE	+	200 OK BYE	+							
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TSS reference	:e:							vices	s/ CD- durir	າຕ ຂ	lerting				
Configuration			The use provide The use of forwarelease	er A a d wit er B i ardeo d to t	and the use h CD- dure s in netwo d to URI to the diverte	ser Caring alork N2 ork N2 originadored	and D are erting Th and is p nating us user" = N	e in r e use rovic er in lo, "s	network N1 er A and th led with CE diversion r erved user	. The use of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the cont	e user B er C are Served us cation" =	in ser : N	network N allows the o, "divertin	N1. e pre ng nu	sentation Imber is
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			Case a	no [?] Sup Sup (PIX (PIX	oported: 1 oported: 1 (IT)	00 rel		condi	tion						
Comments:															
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SETUP (UE 1)	→		INVITE	→	INVITE	→									
OLTOT (OLT)			IIIVIIL												
					100 Trying	+	INVITE	→							
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									INVITE 100 Trying INVITE	→ ← →	INVITE	→			
									180	+	180	+			
							180	→	100						
ALERTING		+	180	+	180	+	180	+							
ALLINING			100		100						302	+			
							302	→	302	+					
							ACK	+							
					181	+	181	+	ACK	→	ACK	→			
NOTIFY	+		181	+				_							
(UE 1)					INVITE	+	INVITE	+							
			INVITE	+	100 Trying	→									
			100 Trying	→											
SETUP (UE 2) ALERTING	+		180	→	180	→	180	→				<u> </u>			<u> </u>
(UE 2)															
ALERTING (UE 1)	+		180	+	180	+	180	+							
CONNECT (UE 2)	→		200 OK	→	200 OK	→	200 OK	→			-				
CONNECT	+		200 OK	+	200 OK	+	200 OK	+							
(UE 1)			ACK	→	ACK	→	ACK	→				t			
DISC (UE1)	→		ACK BYE	+	ACK BYE	←	ACK BYE	+ +				H			
DISC (UE2)	+		BYE	+	BYE	+	BYE	+							
REL (UE2)	→		200 OK BYE	→	200 OK BYE	→	200 OK BYE	→							
RLC (UE2) REL (UE1)	+		200 OK BYE	+	200 OK BYE	+	200 OK BYE	+							
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RLC (UE1)	→											-		-	

6.1.2.8.2 CD-ISS

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Comments:				,										
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						ACK	4	4014	_	401/	_			
				1		181	+	ACK	→	ACK	→	1		
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(UE 1)						INVITE	+							
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TSS reference	·Δ·							2s/ C	D- Immedia	ate r	esnonse				
Configuration									response			r a	llows the		
3			presenta	tion c	f forward	ed to	URI to or	igina	ting user in	div	ersion no	tific	cation" = \	es,	
									d-to user" :		es).				
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									C is inform						
			has prese	entati	ion allowe	ed).	•						-	-	
									e voice trar	nsfe	r on the r	nec	dia and B-	chan	nels is
					rectly (e.g	j. tes	ting QoS	parar	meters).						
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			PIXIT for	supp	orted hea	ader:									
			Case a) r												
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ISDN		IV	GCF I	I-	CSCF	5	-CSCF		AS	F	-CSCF		UE-B	U	E-C
SETUP (UE 1)	→		INVITE	→	INVITE	→									
					100 Trying	+									
							INVITE 100 Trying	→							
							INVITE 100 Trying	←							
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									100 Trying	+	INVITE	→			
											100 Trying 302	+			
									302	+	302	Ì			
							302 ACK	→							
							181	+	ACK	→	ACK	→			
NOTIFY			101		181	+	101								
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	\blacksquare						1		INVITE	→			INVITE 100 Trying	→	
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	+						180	→	180	+					
ALERTING	+		180	+	180	+	180	+							
(UE 1)	\perp			<u> </u>									200 OK	+	
	\pm								200 OK	+			∠00 UK	7	
	+						200 OK 200 OK	→		 					
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DISC	→		BYE	→	BYE	→									
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TSS referen	ce.							s/C	D- Immedia	ate i	response				
Configuratio			The user	B is	provided	with	CD- Imme	diate	response	("Se	erved use	er a	llows the		
3									ting user ir					Yes,	
									d-to user"		0).				
Selection cri		a:							ON service						
Test purpose	e:								call is defle						
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							allowed). state (N1		e voice tra	nsfe	r on the r	ne	dia and B	-char	nels is
							ting QoS								
ISDN Param	nete	r	BC = PIX	ΊΤ											
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					orted: 100 orted: 100		and preco	nditic	on						
			,				,								
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Comments:			m = line	(PIXI	1)										
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	ightharpoons									Ė				Ĭ	
SETUP (UE 1)	→		INVITE	→	INVITE	→									
					100 Trying	+	INVITE	→							
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NOTIFY (UE 1)	1		181	+											
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	\pm						100 Trying	7	INVITE	→			INVITE	→	
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ALERTING (UE 1)	+		180	+											
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CONNECT	+		200 OK	←		→	ACK								
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Selection	crit	eria:	Use CF	er B ha Notific	as activate ations su	ed the	e CALL DE ed	FLE	CTION sei	rvice)				
Test purp			C, use Ens	user A r C is sure th nnels	is notified not inform at in the a is perform	l of called of order	all diversion of the forward the forward the forward the following and the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following the following t	on ar ardin (N1)	the call is one of the call is one of the call in the call is call in the call in the call is call in the call in the call in the call in the call in the call in the call in the call in the call in the call is call in the call in the call is call in the call in the call in the call in the call is call in the call in the call is call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the call in the	med usei tra	l of the di r B has p nsfer on t	ver res the	ted-to nun entation n	nber ot al	and
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			Cas Cas Cas a = b =	se a) n se b) S se c) S line (F line (F	PIXIT)	: 100		ecor	ndition						
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ISDN		M	GCF	I-	CSCF	S	-CSCF		AS	Р	-CSCF		UE-B	ι	JE-C
SETUP (UE 1)	→		INVITE	→	INVITE	→									
					100 Trying	+	INVITE 100 Trying INVITE 100 Trying	+ + + +	INVITE 100 Trying		INVITE 100 Trying 302	→ + +			
NOTIFY (UE 1)	+		181	+	181	+	302 ACK 181	+	ACK	→	ACK	→			
							INVITE 100 Trying	÷	INVITE	→			INVITE 100 Trying 180	+ +	
ALERTING (UE 1)	+		180	+	180	+	180	+					200 OK	+	
					200 OK	-	200 OK 200 OK	→	200 OK	+					
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Causes 6.1, 9.22, 9.25 SIDN-SIP-SIP/Supplementary, services/ CD- during alerting	ISS_XXSSC	CD 08		E	DN refere	'-1 [i.5],				_		rence to: 004 [45]		
The user B is provided with CD- during alerting ("Served user allows the presentation of forwarded to URI to originating user in diversion notification" = "Yes," diverting number is released to the diverted-to user" = No, "served user receives notification that the call has bee forwarded" = no). Selection criteria: User B has activated the CALL DEFLECTION service Test purpose: Ensure that when user A calls user B, the call is deflected during alerting to user C, user A is notified of call diversion and not informed of the diverted-to number (user C has TIR) and use C is not informed of the forwarding number (user B has presentation not allowed). ISDN Parameter values: Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT) b = line (PIXIT) m = line (PIXIT) b = line (PIXIT) ALERTING Test purpose: The time the call has been divided during alerting to user C, user A is notified or delivered during alerting to user C, user A is notified or delivered during alerting to user C, user A is notified or delivered during alerting to user C, user A is notified or delivered during alerting to user C, user A is notified or delivered during alerting to user C, user A is notified or delivered during alerting to user C, user A is notified or delivered during alerting to user C, user A is notified or delivered during alerting to user C, user A is notified or delivered during alerting to user C, user A is notified or delivered during alerting to user C, user A is notified or delivered during alerting to user C, user A is notified or delivered during alerting to user C, user A is notified or delivered during alerting to user C, user A is notified or delivered during alerting to user C, user A is notified or delivered during alerting to user C, user A is notified or delivered during alerting to user C, user A is notified	TSS reference:							vice	s/ CD- duri	na a	lerting				
forwarded to URI to originating user in diversion notification" = Yes, "diverting number is released to the diverted-to user" = No, "served user receives notification that the call has ber forwarded" = no). Selection criteria: User B has activated the CALL DEFLECTION service Test purpose: Ensure that when user A calls user B, the call is deflected during alerting to user C, user A is notified of call diversion and not informed of the diverted-to number (user C has TIR) and use C is not informed of the diverted-to number (user C has TIR) and use C is not informed of the diverted-to number (user C has TIR) and use C is not informed of the diverted-to number (user C has TIR) and use C is not informed of the diverted-to number (user C has TIR) and use C is not informed of the diverted-to number (user C has TIR) and use C is not informed of the diverted-to number (user C has TIR) and use C is not informed of the diverted-to number (user C has TIR) and user C is not informed of the diverted-to number (user C has TIR) and user C is not informed of the diverted-to number (user C has TIR) and user C is not informed of the diverted-to number (user C has TIR) and user C is not informed of the diverted-to number (user C has TIR) and user C is not informed of the diverted-to number (user C has TIR) and user C is not informed of the diverted-to number (user C has TIR) and user C is not informed of the diverted-to number (user C has TIR) and user C is not informed of the diverted-to number (user C has TIR) and user C is not informed of the diverted-to number (user A has Diverted-to number (user A has Diverted-to number (user A has Diverted-to number (user A has Diverted-to number (user A has Diverted-to number (user A has Diverted-to number (user A has Diverted-to number (user A has Diverted-to number (user A has Diverted-to number (user A has Diverted-to number (user A has Diverted-to number (user A has Diverted-to number (user A has Diverted-to number (user A has Diverted-to number (user A has Diverted-to number (user A			The	icar F	3 is provid	ded with	th CD- d	uring	alerting ("	Sprv	ed user	allo	we the nr	acant	ation of
released to the diverted-to user" = No, "served user receives notification that the call has bee forwarded" = no). Selection criteria: User B has activated the CALL DEFLECTION service Ensure that when user A calls user B, the call is deflected during alerting to user C, user A is notified of call diversion and not informed of the diverted-to number (user C has TIR) and use C is not informed of the forwarding number (user B has presentation not allowed). ISDN Parameter values: BC = PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT) m = line (PIXIT) b = line (PIXIT) m = line (PIXIT) ESTUP (UE 1) 1 → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVITE → INVI	Comiguration.		forws	rdad	to LIBI to	origin	atina us	ar in	diversion n	otifi	cation" –	۷۵	e "diverti	na ni	ımhar is
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ISS_XXSS		ISDN reference to: NGN reference to: EN 300 207-1 [i.5], TS 183 004 [45] clauses 6.1, 9.2.2, 9.2.5													
TSS reference: ISDN-SIP-SIP/Supplementary_servi					ices/	_L ices/ CD- during alerting									
Configuration:			The us	er B	is provide	ed with	CD- du	rina a	alerting ("S	erve	d user a	llov	vs the pres	senta	tion of
									iversion no						
									served use						
					rded" = no			,							
Selection criter	ia:						ALL DE	FLEC	TION serv	ice					
Test purpose:			Ensure	that	when us	er A c	alls user	B. th	e call is de	flect	ed durin	a a	lerting to u	ıser (C. user A
root parpooo.									ned of the o						
									B has pre					J. J	
ISDN Paramete	er v	alues:	BC = F		1110 101110	u.i.ig	Hambon	(400)	B nao pro		auon no	. u.	.01100/.		
SIP Parameter					arameter	s onti	nns-PIX	т							
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					100 rel	.5440									
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DISC (UE1)	→		BYE	→					ACK	1		1	ACK	→	
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RLC (UE1)	→								l .						

ISS_X	XSSCD 10 ISDN reference to: EN 300 207-1 [i.5], clauses 6.1, 9.2.2, 9.2.5					NGN reference to: TS 183 004 [45]									
TSS refer	enc	e:		SDN-SIP-SIP/Supplementary_services/ CD- during alerting											
Configura	ation								ded with 0			ertir	ng		
Selection	crite	eria:	User	B has	activate	d the C	CALL DEI	LEC	TION ser	vice					
Test purp	ose:		To ve	rify th	at a call	is relea	ased corr	ectly	if CD- dur	ring a	lerting v	vas	not suc	cessf	ul.
			User	A call	s user B,	the ca	all is forwa	arded	to user C) who	is netw	ork	determ	ined	user busy.
ISDN Par	ame	ter	BC =	PIXIT	-										
values:															
SIP Parai	mete	r valu	es: Dial s	tring	paramete	rs opti	ons=PIX	T							
			Case Case	a) no b) Su c) Su ne (PI ne (PI	XIT) XIT)	100 re		cond	ition						
Comment	ts:														
ISDN		M	GCF	Į.	-CSCF	S-	CSCF		AS	Р	-CSCF		UE-B		UE-C
SETUP (UE 1)	11-2		INVITE	→	INVITE	→						+			
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6.1.2.9 3PTY

ISI_XXSS3PTY01		SDN reference to 0 188-1 [i.6], clau		NGN reference to: EN 383 001 [49]			
TSS reference:		SDN-SIP-ISDN/Supplementary_services/3PTY					
Selection criteria:	The user A	is in network N1	and is pro	vided with 3PTY.	The user B is ir	n network N2 user	
Test purpose:	release the		ection (A-C	c). After the comp		er B and user C and trieve function, the	
ISDN Parameter	BC = PIXI	Γ					
values:							
Comments:							
UE A (ISDN)				UE B (SIP)		UE C (ISDN)	
SETUP(CRx)	→	→		INVITE			
ALERTING	+	+		180 Ringing			
CONNECT	+	+		200 OK			
		→		ACK			
HOLD(CRx)	→	→	IN'	VITE(sendonly)			
		+	20	0 OK(recvonly)			
		→		ACK			
SETUP(CRy)	→				→	SETUP	
ALERTING	+				+	ALERTING	
CONNECT	+				+	CONNECT	
FAC(3PTY begin invoke, CF	Rx) >	→	IN)	/ITE(sendrecv)	+ +		
FAC(3PTY begin ret res. C		+		OK(sendrecv)			
		→		ACK	→	NOTIFY(conf est)	
		3	Party conversat				
DISC(CRy)	→	→	IN)	/ITE(sendonly)	→	DISC	
RELEASE	+	+	20	0 OK(recvonly)	+	RELEASE	
REL COMP	→	→		ACK	→	REL COMP	
RETRIEVE (CRx)	→	→		/ITE(sendrecv)			
		+	200	OK(sendrecv)			
		→		ACK			
DIOC(OD.)		Conversation		D)/E			
DISC(CRx) RELEASE	→	→ +		BYE			
		-		200 OK			
REL COMP	→						

ISI_XXSS3PTY02	ISDN reference to: EN 300 188-1 [i.6],	NGN reference to: EN 383 001 [49]			
TSS reference:	clause 9.2, figure A.2 ISDN-SIP-ISDN/Supplementary_ser	vices/3PTY			
Selection criteria:	The user A is in network N1 and is pC in the network N1.	provided with 3PTY. The user B is in network N2 user			
Test purpose:	Ensure that user A can establish a three-way conversation call with user B and user C and release the Active-Held connection (A-B). The call clearing procedure is performed from user A.				
ISDN Parameter values:	BC = PIXIT				
Comments:	User A calls user B (with CRx). After initiating of call hold, the call A-B has an Active-Held connection. User A is calling user C (with the CRy). The call (A-C) has an Active-Idle connection. When user A sends a FACILITY message for CRx containing a facility IE with a Begin3PTY invoke component the network shall respond with a FACILITY message containing a facility IE with a Begin3PTY return result component for CRx. User C shall receive a NOTIFY message containing a Notification Indicator IE with a notification description of "Conference established". The three-way bridge is established. On receipt of a DISCONNECT message from the user A relating to the Active-Held connection (CRx) the network shall clear the call to user B. After the release of the three-way bridge the network is sending to the remote user C a NOTIFY message containing a Notification indicator IE with a notification description of "Conference disconnected". The call A-C has an Active-Idle connection.				

ISI_XXSS3PTY03	ISDN reference to:	NGN reference to:				
	EN 300 188-1 [i.6], clause 9.2	EN 383 001 [49]				
TSS reference:	ISDN-SIP-ISDN/Supplementary_services/3PTY					
Selection criteria:	The user A is in network N1 and is provided with 3PTY. The user B is in network N2 user					
	C in the network N1.					
Test purpose:	Ensure that user A can establish a thr	ee-way conversation call with user B and user C				
	and user B sends disconnect during the	ne Three-Party communication.				
ISDN Parameter	BC = PIXIT					
values:						
Comments:						

ISI_XXSS3PTY04	ISDN reference to:	NGN reference to:				
	EN 300 188-1 [i.6], clause 9.2	Figure 2-9 of Q.734.2 [15] - User C disconnects				
TSS reference:	ISDN-SIP-ISDN/Supplementary_serv	ices/3PTY				
Selection criteria:	The user A is in network N1 and is provided with 3PTY. The user B is in network N2 user C in the network N1.					
Test purpose:		Ensure that user A can establish a three-way conversation call with user B and user C and user C sends disconnect during the Three-Party communication.				
ISDN Parameter	BC = PIXIT					
values:						
Comments:						

ISI_XXSS3PTY05	ISDN reference to: EN 300 188-1 [i.6], clause 9.2	NGN reference to: EN 383 001 [49]			
TSS reference:	ISDN-SIP-ISDN/Supplementary_se				
Selection criteria:		provided with 3PTY. The user B is in network N2 user			
Test purpose:	Ensure that user A can establish a and release of both remote users, u	three-way conversation call with user B and user C user C is released first.			
ISDN Parameter values:	BC = speech				
Comments:	connection. User A is calling user C (with the C When user A sends a FACILITY me Begin3PTY invoke component the containing a facility IE with a Begin receives a NOTIFY message contained description of "Conference establis". On receipt of a DISCONNECT messonnection (CRy) the network shall message.	Ry). The call (A-C) has an Active-Idle connection. essage for CRx containing a facility IE with a network shall respond with a FACILITY message 3PTY return result component for CRx. User C ining a Notification Indicator IE with a notification hed". The three-way bridge is established. sage from the user A relating to the Active-Idle clear the call to user C with a DISCONNECT sage from the user A relating to the Active-Held clear the call to user B.			

ISI_XXSS3PTY06	ISDN reference to: EN 300 188-1 [i.6], clause 9.2	NGN reference to: EN 383 001 [49]				
TSS reference:	The user A is in network N1 and is provided with 3PTY. The user B is in network N2 user C in the network N1.					
Selection criteria:	The user A is in network N1 and is provided with 3PTY. The user B is in network N2 user C in the network N1.					
Test purpose:	and create a private communication from user A	three-way conversation call with user B and user C n with user B. The call clearing procedure is performed				
ISDN Parameter	BC = speech					
values: Comments:	connection. User A is calling user C (with the C When user A sends a FACILITY megin3PTY invoke component the containing a facility IE with a Begin receive a NOTIFY message contain description of "Conference establis The served user shall send an End FACILITY message with that CRx. FACILITY message with that CRx. FACILITY message, the network sli) remove the three-way bridge from connection; ii) release the three-way bridge; iii) return to the served user an End message using the CRx of the Activiv) send a NOTIFY message to the required containing a Notification in description of "Remote hold"; and, v) send a NOTIFY message to the information element with a notificat When the served user receives a cwithin a FACILITY message, the usi) use the CR relating to the Active-ii) use the CR relating to the Active-iii) use the CR relating to the Active-iii) use the CR relating to the Active-iii) use the CR relating to the Active-iii) use the CR relating to the Active-iii) use the CR relating to the Active-iii) use the CR relating to the Active-iii) use the CR relating to the Active-iii) use the CR relating to the Active-iii) use the CR relating to the Active-iii) use the CR relating to the Active-iii) use the CR relating to the Active-iii) use the CR relating to the Active-iii) use the CR relating to the Active-iii) use the CR relating to the Active-iii) use the CR relating to the Active-iii) use the CR relating to the Active-iii) use the CR relating to the Active-iii) use the CR relating to the Active-iii) use the CR relating to the Active-iii) use the CR relating to the Active-iii) use the CR relating to the Active-iii) use the CR relating to the Active-iii) use the CR relating to the Active-iii) use the CR relating to the Active-iii) use the CR relating to the Active-iii) use the CR relating to the Active-iii) use the CR relating to the Active-iii) use the CR relating to the Active-iii) use the CR relating to the Active-iii) use the CR relating to the Active-iiii) use the CR relating to the Active-iiii) use the CR rel	dispry return result component, within a FACILITY ve-Held connection; remote user with which private communication is adicator information element with a notification other remote user containing a Notification indicator ion description of "Conference disconnected". orrectly encoded End3PTY return result component, ser shall accept the provided information and shall: aldle connection, perform the Hold function—Held connection, perform the Retrieve function. Id and Retrieve functions. On successful completion of CKNOWLEDGE message is sent) the network shall amote user that is not to be ion, containing a Notification indicator information of "Remote hold". On successful completion of the ACKNOWLEDGE message is sent) the network shall amote user for whom containing a Notification indicator information element conference disconnected". The element with a notification description of "Remote user under these circumstances.) is item of this clause, the call state of the connections, user, is unchanged. The auxiliary state of the				

ISI_XXSS3PTY07	ISDN reference to:	NGN reference to:				
	EN 300 188-1 [i.6], clause 9.2	EN 383 001 [49]				
	ISDN-SIP-ISDN/Supplementary_services/3PTY					
	The user A is in network N1 and is provided with 3PTY. The user B is in network N2 user C in the network N1.					
	and create a private communicatior from user A	three-way conversation call with user B and user C with user C. The call clearing procedure is performed				
values:	BC = speech					
Comments:	connection. User A is calling user C (with the Cl When user A sends a FACILITY me Begin3PTY invoke component the r containing a facility IE with a Begin3 receives a NOTIFY message conta description of "Conference establish If the remote user, for which a priva served user by the CRy relating to the an End3PTY invoke component to the On receiving such an invoke component i) remove the three-way bridge from connection; ii) release the three-way bridge; iii) return to the served user an End message, using the CRy of the Acti iv) send a NOTIFY message to both information element with a notificati v) send to the remote user for which same NOTIFY message as (iv), or i indicator information element with a intervening protocol between the ne remote user does not support trans message, then this should be mapp notification description of "Conference containing a notification description When the served user receives a co within a FACILITY message, the us further action. As a result of the pro the auxiliary state of the connection unchanged.	n remote users containing a Notification indicator on description of "Conference disconnected"; and, in private communication is not required, either in the in a subsequent NOTIFY message, a Notification in notification description of "Remote hold". If any etwork of the served user and the network of the mission of two notification descriptions in the same and at that point to a message containing a single lace disconnected", and a subsequent message				

ISS_XXSS3PTY08		erence to: [i.6], clause 9.2	NGN reference to: EN 383 001 [49]				
TSS reference:		ISDN-SIP-SIP/Supplementary_services/3PTY					
Selection criteria:		network N1 and is p	rovided with 3PTY. T	The user B is in	network N2 user		
Test purpose:	release the Active		nree-way conversation-C). After the completer from user A.				
ISDN Parameter values:	BC = PIXIT						
Comments:							
UE A (ISDN)	<u>'</u>		UE B (SIP)		UE C (SIP)		
SETUP(CRx)	→	→	INVITE		, ,		
ALERTING	+	+	180 Ringing				
CONNECT	+	+	200 OK				
HOLD(CRx)	→		INVITE(sendonly)				
		+	200 OK(recvonly)				
SETUP(CRy)	→			→	INVITE		
ALERTING	+			+	180 Ringing		
CONNECT	+			+	200 OK		
FAC(3PTY_begin_invoke,	CRx) →	→	INVITE(sendrecv)				
DISC(3PTY_begin_ret_res			200 OK(sendrecv)				
		3 Party conver	antion				
DISC(CRy)	→		INVITE(sendonly)	→	BYE		
RELEASE	É		200 OK(recvonly)	É	200 OK		
REL COMP	→		200 (1001011)		200 OK		
RETRIVE	→	→	INVITE(sendrecv)				
KETKIVE			200 OK(sendrecv)				
DIOC(CD.)		→	DVF				
DISC(CRx) RELEASE	→ +	+	BYE 200 OK				
RELEASE REL COMP	-	7	200 OK				

ISS_XXSS3PTY09	ISDN reference to: EN 300 188-1 [i.6],	NGN reference to: EN 383 001 [49]			
	clause 9.2, figure A.2				
TSS reference:	ISDN-SIP-SIP/Supplementary_serv	ices/3PTY			
Selection criteria:	The user A is in network N1 and is provided with 3PTY. The user B is in network N2 user C in the network N2.				
Test purpose:		hree-way conversation call with user B and user C tion (A-B). The call clearing procedure is performed			
ISDN Parameter	BC = PIXIT				
values:					
Comments:					

ISS_XXSS3PTY10	ISDN reference to:	NGN reference to:				
	EN 300 188-1 [i.6], clause 9.2	EN 383 001 [49]				
TSS reference:	reference: ISDN-SIP-SIP/Supplementary_services/3PTY					
Selection criteria:	The user A is in network N1 and is provided with 3PTY. The user B is in network N2 user C in the network N2.					
Test purpose:	Ensure that user A can establish a thi and user B sends disconnect during t	ree-way conversation call with user B and user C he Three-Party communication.				
ISDN Parameter	BC = PIXIT					
values:	2 \$:					
Comments:		·				

ISS_XXSS3PTY11	ISDN reference to:	NGN reference to:
	EN 300 188-1 [i.6], clause 9.2	EN 383 001 [49]
TSS reference:	ISDN-SIP-SIP/Supplementary_serv	ices/3PTY
Selection criteria:	The user A is in network N1 and is perfectly network N2.	provided with 3PTY. The user B and user C are
Test purpose:	Ensure that user A can establish a tand user C sends disconnect during	hree-way conversation call with user B and user C the Three-Party communication.
ISDN Parameter	BC = PIXIT	-
values:		
Comments:		

ISS_XXSS3PTY12	ISDN reference to:	NGN reference to:
	EN 300 188-1 [i.6], clause 9.2	EN 383 001 [49]
TSS reference:	ISDN-SIP-SIP/Supplementary_servi	ces/3PTY
Selection criteria:	The user A is in network N1 and is p	provided with 3PTY. The user B is in network N2 user
	C in the network N2.	
Test purpose:	Ensure that user A can establish a tand release of both remote users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, users, us	hree-way conversation call with user B and user C ser C is released first.
ISDN Parameter	BC = speech	
values:		
Comments:		

ISS_XXSS3PTY13	ISDN reference to:	NGN reference to:
	EN 300 188-1 [i.6], clause 9.2	EN 383 001 [49]
TSS reference:	ISDN-SIP-SIP/Supplementary_serv	ices/3PTY
Selection criteria:	The user A is in network N1 and is p	provided with 3PTY. The user B is in network N2 user
	C in the network N2	
Test purpose:		hree-way conversation call with user B and user C with user B. The call clearing procedure is performed
ISDN Parameter	BC = speech	
values:		
Comments:		

ISS_XXSS3PTY14	ISDN reference to: EN 300 188-1 [i.6], clause 9.2	NGN reference to: EN 383 001 [49]		
TSS reference:	ISDN-SIP-SIP/Supplementary_serv	ices/3PTY		
Selection criteria:	The user A is in network N1 and is provided with 3PTY. The user B and user C are network N2.			
Test purpose:		hree-way conversation call with user B and user C with user C. The call clearing procedure is performed		
ISDN Parameter	BC = speech			
values:				
Comments:				

6.1.2.10 HOLD

IS_SPSSHOLD 01	ISDN reference to: EN 300 403-1 [i.3], EN 300 141-1 [i.7]			NGN reference to: EN 383 001 [49] ES 283 027 [48]				
TSS reference:	ISDN-SIP/SS/HOLD/							
SIP selection criteria:	Support the temporarily stops sending one or more unicast media streams							
ISDN selection criteria:	Support the generic noti	fication pro	ocedur	e for HOLD	supplementary service			
Test purpose:	answered and before ca previously put on hold. The calling party should	Ensure that a party can put the other party on hold at any time after the call is answered and before call clearing has begun. Ensure that a party can retrieve the call previously put on hold. The calling party should be able to put the other party on hold The calling party should be able to retrieve the other party						
	The called party should							
SIP Parameter values:	SDP: a=sendonly (put o a=sendrecv or omitte o= <version incren<="" td=""><td>n hold) ed (retrieve</td><td></td><td></td><td></td></version>	n hold) ed (retrieve						
ISDN Parameter values:								
Comments:								
	ISDN		MGC	F	SIP			
	SETUP	→		→	INVITE			
	ALERT	+		+	180 Ringing			
	CONNECT	+		+	200 OK INVITE			
	HOLD	→		→	INVITE(sendonly)			
				+	200 OK INVITE(recvonly)			
	RETRIEVE	→		→	INVITE(sendrecv)			
				+	200 OK INVITE(sendrecv)			
	NOTIFY(HOLD)	+		←	INVITE(sendonly)			
				→	200 OK INVITE(recvonly)			
	NOTIFY(RETRIEVE)	+		+	INVITE(sendrecv)			
				→	200 OK INVITE(sendrecv)			

IS_SPSSHOLD 02	ISDN reference to:			NGN reference to:			
	EN 300 403-1			EN 383 001 [49],			
T00 (EN 300 141-1	ı [ı. <i>7</i>]		ES 283 027 [48]			
TSS reference:	ISDN-SIP/SS/HOLD/	, "					
SIP selection criteria:	Support the temporarily						
	Support the invocation of						
ISDN selection criteria:	Support the generic noti						
Test purpose:				the alerting state. Ensure that			
	the party can retrieve th	e call previously	put on hold.				
	The calling party should						
	The calling party should		eve the other	party			
SIP Parameter values:	SDP: a=sendonly (put o						
	a=sendrecv or omitte		all)				
	o= <version incren<="" td=""><td>nented></td><td></td><td></td></version>	nented>					
ISDN Parameter values:							
Comments:							
	ISDN	MG		SIP			
	SETUP	→	→	INVITE			
	ALERTING	-	+	180 Ringing			
	HOLD → UPDATE(sendonly)						
	← 200 OK UPDATE(recevonly)						
	RETRIEVE	→	→	UPDATE(sendrecv)			
			+	200 OK UPDATE(sendrecv)			

IS_SPSSHOLD 03	ISDN reference to: EN 300 403-1 [i.3]			NGN reference to: EN 383 001 [49]			
	EN 300 141-1 [i.7]			ES 283 027 [48]			
TSS reference:	ISDN-SIP/SS/HOLD/						
SIP selection criteria:	Support the tempor	rarily stop	s sendin	g one or r	more unicast media streams		
ISDN selection criteria:	Support the generic	c notificat	ion proce	edure for l	HOLD supplementary service		
Test purpose:	Ensure that a party can put the other party on hold after the calling user has provided all of the information necessary for processing the call. Ensure that the party can retrieve the call previously put on hold. The calling party should be able to put the other party on hold. The calling party should be able to retrieve the other party						
SIP Parameter values:	SDP: a=sendonly (a=sendrecv or c o= <version in<="" td=""><td>mitted (re</td><td>etrieve th</td><td>e call)</td><td></td></version>	mitted (re	etrieve th	e call)			
ISDN Parameter values:							
Comments:							
	ISDN		MGCF	=	SIP		
	SETUP	→		→	INVITE		
	HOLD → UPDATE(sendonly) ← 200 OK UPDATE(recevonly)						
	RETRIEVE → UPDATE(sendrecv) ← 200 OK UPDATE(sendrecv)						
	ALERTING CONNECT	+		+	180 Ringing 200 OK INVITE		

IS_SPSSHOLD 04	ISDN reference	ce to:		NGN reference to:			
	EN 300 403-1 [i.3]			EN 383 001 [49]			
	EN 300 141-1	l [i.7]		ES 283 027 [48]			
TSS reference:	ISDN-SIP/SS/HOLD/						
SIP selection criteria:	Support the temporarily						
	The MGCF sends the up	odate of	the medi	a stream i	n an UPDATE message		
ISDN selection criteria:					D supplementary service		
Test purpose:					in the confirmed state using an		
	UPDATE request. Ensur	re that th	e party c	an retriev	e the call previously put on hold.		
	The calling party should						
	The calling party should		to retriev	e the othe	er party		
SIP Parameter values:	SDP: a=sendonly (put o		41	11)			
	a=sendrecv or omitte		ve the ca	III)			
ICDN Description	o= <version incren<="" td=""><td></td><td></td><td>- I - I - I 4 - 3</td><td>in director DDOODEOO (most on</td></version>			- I - I - I 4 - 3	in director DDOODEOO (most on		
ISDN Parameter values:		ication: r	emote n	ola Event i	ndicator PROGRESS (put on		
	hold)	romoto r	ntrioval a	want india	otor DDOCDESS (retrieve the coll)		
Comments:	Generic notification.	remote re	elileval e	vent maic	ator PROGRESS (retrieve the call)		
Comments.	ISDN		MGC	_	ISIP		
	SETUP	→	IVIGC	_	INVITE		
	ALERTING	-		+			
		-		-	180 Ringing		
	CONNECT	~			200 OK INVITE		
	HOLD → UPDATE(sendonly)						
	HOLD	200 OK UPDATE(recevonly)					
		 		+	200 OIL OF BATE (TOOC VOTINY)		
	RETRIEVE	→		→	UPDATE(sendrecv)		
				+	200 OK UPDATE(sendrecv)		

IS_SPSSHOLD 05	ISDN reference to: EN 300 403-1 [i.3]			NGN reference to: EN 383 001 [49]					
	EN 300 14				ES 283 027 [48]				
TSS reference:	ISDN-SIP/SS/HOL	.D/							
SIP selection criteria:	Support the tempo	Support the temporarily stops sending one or more unicast media streams							
ISDN selection criteria:		Support the generic notification procedure for HOLD supplementary service							
Test purpose:	answered and befo	Ensure that a party can put the other party on hold at any time after the call is answered and before call clearing has begun. Ensure that a party can retrieve the call previously put on hold.							
	The calling party sl The called party sl The calling party sl The called party sh	nould be a hould be a nould be a	ible to put able to ret ible to ret	the other principles the other principles the other the other principles.	party on hold ther party				
SIP Parameter values:	SDP: a=sendonly (a=sendrecv or o o= <version i<="" td=""><td>omitted (re</td><td>etrieve the</td><td>e call)</td><td></td></version>	omitted (re	etrieve the	e call)					
ISDN Parameter values:									
Comments:									
	ISDN		MGC		SIP				
	SETUP	→		→	INVITE				
	ALERTING	+		+	180 Ringing				
	CONNECT	+		+	200 OK INVITE				
	HOLD	→		→	INVITE(sendonly) 200 OK INVITE(recvonly)				
	NOTIFY Remote HOLD	+		+	INVITE(inactive)				
				→	200 OK INVITE(inactive)				
	RETRIEVE	→		→ INVITE(recvonly)					
				← 200 OK INVITE(sendonly)					
	NOTIFY Remote RETRIEVAL	+		← INVITE(sendrecv)					
				→	200 OK INVITE(sendrecv)				

IS_SPSSHOLD 06	ISDN reference EN 300 403-1 EN 300 141-1	[i.3]		NGN reference to: EN 383 001 [49] ES 283 027 [48]				
TSS reference:	ISDN-SIP/SS/HOLD/	ISDN-SIP/SS/HOLD/						
SIP selection criteria:	Support the temporarily stops sending one or more unicast media streams							
ISDN selection	Support the generic notific	ation procedure	e for HOLD s	upplementary service				
criteria:								
Test purpose:				any time after the call is answered y can retrieve the call previously				
	The calling party should be The called party should be The called party should be The calling party should be	able to put the able to retrieve	other party of the other party	on hold arty				
SIP Parameter values:	SDP: a=sendonly (put on a=sendrecv or omitted o= <version increme<="" td=""><td>hold) (retrieve the ca</td><td></td><td>arty</td></version>	hold) (retrieve the ca		arty				
ISDN Parameter values:								
Comments:								
	ISDN	MG	CF	SIP				
	SETUP	→	→	INVITE				
	ALERTING	+	+	180 Ringing				
	CONNECT	+	+	200 OK INVITE				
	HOLD	→	→	INVITE(sendonly)				
			+	200 OK INVITE(recvonly)				
	NOTIFY- Remote HOLD	+	+	INVITE(inactive)				
			→	200 OK INVITE(inactive)				
	NOTIFY - ← INVITE(recvonly) Remote RETRIEVAL							
			→	200 OK INVITE(sendonly)				
	RETRIEVE	→	→	INVITE(sendrecv)				
			+	200 OK INVITE(sendrecv)				

6.1.2.11 CONF (Outgoing Call)

IS_SPSSCONF01	ISDN reference to: EN 300 403-1 [i.3] EN 300 185-1 [i.8]		NGN reference: TS 183 005 [46] ES 283 027 [48], clause 7.4.14			
TSS reference:	ISDN-SIP/SS/CONF/					
SIP selection criteria:						
ISDN selection criteria:	SUPPORT OF SERVICE CON	FERENC	E CALL, ADD-	ON (CONF)		
Test purpose:	Ensure that the SUT in the con	firmed di	alogue can est	ablish a conference		
SIP Parameter values:						
ISDN Parameter values:						
Comments:						
	ISDN		MGCF	SIP		
	SETUP	→	→	INVITE		
	ALERTING	←	←	180 Ringing		
	CONNECT	←	+	200 OK INVITE		
	BeginCONF	→				
	DISC	→	→	BYE		
	RELEASE	+	+	200 OK BYE		
	REL_COMP	→				

IS_SPSSCONF03	ISDN reference to: EN 300 403-1 [i.3] EN 300 185-1 [i.8]		ES	NGN reference: TS 183 005 [46] ES 283 027 [48], clause 7.4.14		
TSS reference:	ISDN-SIP/SS/CONF/		•			
SIP selection criteria:						
ISDN selection criteria:	SUPPORT OF SERVICE CON	IFEREN(CE CALL, A	DD-	ON (CONF)	
Test purpose:	Ensure that the SUT in the con isolate a party and reattach this	s party			ıblish a conference, can	
SIP Parameter values:	SDP: a= a_LINE_VA (Table 5)	or a line	e is omitted	b		
ISDN Parameter values:						
Comments:						
	ISDN		MGCF		SIP	
	SETUP	→		→	INVITE	
	ALERTING	+		+	180 Ringing	
	CONNECT	←		+	200 OK INVITE	
	BeginCONF	→				
	IsolatedCONF	→		→	INVITE(sendonly)	
				←	200 OK INVITE(recvonly	
				→	ACK	
	ReattachCONF	→		→	INVITE(sendrecv)	
				(200 OK INVITE(sendrecv)	
				→	ACK	
	DISC	→		→	BYE	
	RELEASE	+		+	200 OK BYE	
	REL_COMP	→				

IS_SPSSCONF05	ISDN reference to: EN 300 403-1 [i.3]		NGN reference: TS 183 005 [46]				
	EN 300 185-1 [i.8]		TS 183 (005 [46], clause 7.4.1.1.1			
TSS reference:	ISDN-SIP/SS/CONF/						
SIP selection criteria:	Conference event package su	upported					
ISDN selection criteria:							
Test purpose:	Upon the receipt of a confere	Conference notification information is mapped into "conference established" Upon the receipt of a conference information document with the <conference-state- type=""> element active is set to 'true', the ISDN Network shall send a NOTIFY message 'conference established'</conference-state->					
SIP Parameter values:	NOTIFY 1: <conference-st <active>true</active></conference-st 		esent				
ISDN Parameter values:	AddCONF						
Comments:							
	ISDN		MGCF	SIP			
	SETUP	→	→	INVITE			
	ALERTING	+	+	180 Ringing			
	CONNECT	+	+	200 OK INVITE			
	NOTIFY(conference established)	+	(NOTIFY 1			
	→ 200 OK NOTIFY						
			-	T			
	REL	→	-				
	RLC	+	(• 200 OK BYE			

IS_SPSSCONF06	ISDN reference to EN 300 403-1 [i.3] EN 300 185-1 [i.8]	-	NGN reference: TS 183 005 [46] TS 183 005 [46], clause 7.4.1.1.1				
TSS reference:	ISDN-SIP/SS/CONF/						
SIP selection criteria:	Conference event package s	upported					
ISDN selection criteria:							
Test purpose:	Conference notification information is mapped into "other party added" Upon the receipt of a conference information document with the <endpoint-type> and the element status of endpoint-status-type is set to 'connected' and it was not set to 'on-hold' before and the Contact URI in the element entity is not the address of the served PSTN/ISDN participant, the ISDN Network shall send a NOTIFY message 'other party added'.</endpoint-type>						
SIP Parameter values:	NOTIFY 1: <conference-state></conference-state>						
ISDNParameter values:	FACILITY(other party added))					
Comments:							
	ISDN		MGCF	SIP			
	SETUP	→	→	INVITE			
	ALERTING	+	+	180 Ringing			
	CONNECT	+	+	200 OK INVITE			
	NOTIFY(conference established)	+	←	NOTIFY 1			
	,		→	200 OK NOTIFY			
	NOTIFY(-th-oronauto-odd-ol)			NOTIFY			
	NOTIFY(other party added)	+	<u>+</u>	NOTIFY 2			
	→ 200 OK NOTIFY						
	REL → BYE						
	RLC	+	+	200 OK BYE			
	The connection to SIP2 is no	t shown in t	he message flov	N.			

IS_SPSSCONF11	ISDN reference to: EN 300 403-1 [i.3] EN 300 185-1 [i.8]		NGN reference: TS 183 005 [46], clause 7.4.1.1.1			
TSS reference:	ISDN-SIP/SS/CONF/					
SIP selection criteria:	Conference event package suppor	ted				
ISDN selection criteria:						
Test purpose:	Conference notification information Upon the receipt of a conference in the element status of endpoint-state joining-method of joining-type is no NOTIFY message 'other party disc	nformati tus-type ot set to	on document of is set to 'disco' 'focus-owner,	with the <endpoint-type> and onnected' and the element</endpoint-type>		
SIP Parameter values:	NOTIFY 3: <endpoint entity="end<br"><status>disconnected</status></endpoint>	•				
Comments:						
	ISDN		MGCF	SIP		
	SETUP	→	-	INVITE		
	ALERTING	←	•	180 Ringing		
	CONNECT	←	•	200 OK INVITE		
	NOTIFY(conference established)	+	+			
	NOTIFY(other party added)	+	•	NOTIFY 2		
			3	200 OK NOTIFY		
	NOTIFY(other party disconnected)	+	•	NOTIFY 3		
			-	200 OK NOTIFY		
	REL	→	-	BYE		
	RLC	←	•	- 200 OK BYE		
	The connection to SIP2 is not show	vn in the	e message flo	N		

IS_SPSSCONF12	ISDN reference to: EN 300 403-1 [i.3] EN 300 185-1 [i.8]	NGN reference: TS 183 005 [46], clause 7.4.14				
TSS reference:	ISDN-SIP/SS/CONF/					
SIP selection criteria:	The temporarily stops sending					
ISDN selection criteria:	SUPPORT OF SERVICE CON					
Test purpose:	Ensure that the SUT on receipt of FACILITY messages due to the CONF supplementary service, no mapping, no disrupting of the SIP procedure.					
SIP Parameter values:						
ISDN Parameter values:						
Comments:						
	ISDN		MGCF		SIP	
	SETUP	→		→	INVITE	
	ALERTING	+		←	180 Ringing	
	CONNECT	+		+	200 OK INVITE	
	HOLD	→				
	BeginCONF	→				
	IsolatedCONF	→				
	ReattachCONF					
	REL	→		→	BYE	
	RLC	+		+	200 OK BYE	

IS_SPSSCONF13	ISDN reference to: EN 300 403-1 [i.3] EN 300 185-1 [i.8]		TS 1	NGN reference: TS 183 005 [46], clause 7.4.1.1.1		
TSS reference:	ISDN-SIP/SS	S/CONF/				
SIP selection criteria:	Conference 6	event package not	suppor	ted		
ISDN selection criteria:						
Test purpose:	Upon the rec		ce infori	mation docu	ment t	N he conference notification is sent to the ISDN user.
SIP Parameter values:	NOTIFY 1: <conference-state></conference-state>					
ISDNParameter values:						
Comments:						
	ı	SDN		MGCF		SIP
	SETUP		→		→	INVITE
	ALERTING		+		+	180 Ringing
	CONNECT		+		+	200 OK INVITE
					+	NOTIFY 1
					→	200 OK NOTIFY
					←	NOTIFY 2
					→	200 OK NOTIFY
	REL		→		→	BYE
	RLC		+		+	200 OK BYE
	The connecti	on to SIP2 is not s	shown i	n the messa	ge flov	V

IS_SPSSCONF14	ISDN reference to: EN 300 403-1 [i.3] EN 300 185-1 [i.8]	NGN reference: ETSI TS 183 005 [46], clause 7.4.1.1.1						
TSS reference:	ISDN-SIP/SS/CONF/							
SIP selection criteria:								
ISDN selection criteria:								
Test purpose:	Ensure that a REFER request received	The referring of MGCF is not possible a call is established Ensure that a REFER request received by the MGCF is not successful. The request is rejected with . 403 Forbidden. The CS -site is not affected.						
SIP Parameter values:	REFER: Request URI contained the conference URI Refer-To contains the URI of ISDNx, method=invite Referred-By contains SIP or tel URI of SIPx							
ISDN Parameter values:	AddCONF							
Comments:								
	ISDN	/IGCF	SIP					
	SETUP →	→	INVITE					
	ALERTING ←	(180 Ringing					
	CONNECT ← 200 OK ÎNVÎTE							
		(REFER					
		→	403 Forbidden					

6.2 Test purposes for SIP-ISDN

6.2.1 Basic Call

6.2.1.1 Test purposes for SIP-ISDN, Basic call, Successful 3,1 kHz audio

SI_AU_01	ISDN reference to: NGN reference to:						
	EN 300 403-1 [i.3], clause 5	Q.1912.5 [51] clause 6.1.1, 6.1.3					
	EN 300 899-1 [23], clause 3	EN 383 001 [49], clause 6.1.1, 6.1.3 ES 283 027 [48]					
TSS reference:	SIP-ISDN/Basic_call/Success	sful/3,	1 kHz audio		200 021 [10]		
Selection criteria:	INVITE received without an S	SDP of	fer; not ES 283	027 [4	8]		
Test purpose:	Ensure that call establishmer						
	without an SDP offer and reli	able p	rovisional respo	onses is	s supported, is performed		
IODAL D	correctly.						
ISDN Parameter values:	SETUP = 3,1 kHz audio						
SIP Parameter values:	Dial string parameters option	s=PIX	IT				
	PIXIT for supported header:						
	Case a) no 100 rel						
	Case b) Supported: 100 rel						
	Case c) Supported: 100 rel a	nd pre	condition				
	a = line (PIXIT)						
	b = line (PIXIT)						
	m = line (PIXIT)						
Comments:							
	ISDN		SUT		SIP		
	INVITE "	→					
	183 Session Progress offer 1	+					
	PRACK answer 1	→					
	200 OK PRACK	+					
		-		→	SETUP		
	180 Ringing	←		-	ALERT		
	PRACK	→					
	200 OK PRACK	_					
	200 OK INVITE	←		+	CON		
	ACK	→					
	BYE	+		+	DISC		
	200 OK BYE	→		→	REL		

SI_AU_02	ISDN reference to: NGN reference to:							
	EN 300 403-1 [i.3], clause 5	5.2.1	Q.1912.5 [51], clauses 6.1.1, 6.1.3					
	EN 300 899-1 [23], clause 3				19], clauses 6.1.1, 6.1.3			
TSS reference:	SIP-ISDN/Basic_call/Success	sful/3,	1 kHz audio					
Selection criteria:	INVITE received without an S	SDP of	fer; not 283 027					
Test purpose:					s not contain an SDP offer and			
IODAL Description	reliable provisional responses	s is no	t supported, is pe	errorn	ned correctly.			
ISDN Parameter	SETUP = 3,1 kHz audio;							
values:	D: 1	DIV	·					
SIP Parameter values:	Dial string parameters option	S=PIX	H					
	PIXIT for supported header:							
	Case a) no 100 rel							
	Case b) Supported: 100 rel							
	Case c) Supported: 100 rel a	nd pre	condition					
	a = line (PIXIT)							
	b = line (PIXIT)							
	m = line (PIXIT)							
Comments:					_			
	ISDN		SUT		SIP			
	INVITE	→						
	200 OK INVITE offer 1	+		→	SETUP			
	PRACK answer 1	→		+	CON			
	ACK answer 1	←						
		<u> </u>		<u> </u>				
	BYE	+		+	DISC			
	200 OK BYE	→		→	REL			

SI_AU_03	ISDN reference to: NGN reference to:			I reference to:		
31_A0_03	EN 300 403-1 [i.3], clause 5	300 403-1 [i.3], clause 5.2.1 Q.1912.5 [51], clauses 6.1.2, 6.1.3 EN 383 001 [49], clauses 6.1.1, 6.1.3 ES 283 027 [48], clause 7.2.3.1				
TSS reference:	SIP-ISDN/Basic_call/Succes	sful/3,	1 kHz audio			
Selection criteria:	INVITE received with an SDF	offer.				
Test purpose:		nt with	an INVITE which	cont	ains an SDP offer is performed	
100110	correctly.					
ISDN Parameter values:	SETUP = 3,1 kHz audio;					
SIP Parameter values:	Dial string parameters option	s=PIX	IT			
	PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel a a = line (PIXIT) b = line (PIXIT)	Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition				
	m = line (PIXIT)					
Comments:						
Comments.	ISDN		SUT		SIP	
	A) Without SDP pre-condition	<u> </u>	001		J On	
	INVITE SDP	 →		→	SETUP	
	100 Trying	-		7	SETOF	
	180 Ringing	+		_	ALERT	
				(
	200 OK INVITE	←		+	CON	
	ACK	→				
	BYE	+		←	DISC	
	200 OK BYE	→		→	REL	
	B) ES 283 027 [48] (pre-cond	lition a	and 100 rel)			
	INVITE SDP	→				
	100 Trying	+				
	183 Session Progress SDP	+				
	PRACK	→				
	200 OK PRACK	′				
	UPDATE	→				
		-				
	200 OK (UPDATE)	~		_	OFTUD	
	100 B: :			→	SETUP	
	180 Ringing	+		+	ALERT	
	PRACK	→				
	200 OK PRACK	←		L_		
	200 OK INVITE	+		←	CON	
	ACK	→				
	BYE	←		+	DISC	
	200 OK BYE	→		→	REL	

SI_AU_04	ISDN reference to: NGN reference to: EN 300 403-1 [i.3], clause 5.2.1 Q.1912.5 [51], clause 6.1. EN 300 899-1 [23], clause 3.1.1 EN 383 001 [49], clause 6.2 ES 283 027 [48], clause 7.2				5 [51], clause 6.1.3 01 [49], clause 6.1.3	
TSS reference:	SIP-ISDN/Basic_call/Succes	sful/3,	1 kHz audio			
Selection criteria:						
Test purpose:	Ensure that call establishmen m = line parameters defined i message is performed correctransfer on the media and B-parameters).	n table ctly. Er	5 between INVIT sure that in the a	E m	essage and the SETUP call state (N10) the voice	
ISDN Parameter	SETUP = 3,1 kHz audio;					
values:						
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT- Table 5) b = line (PIXIT - Table 5) m = line (PIXIT - Table 5)					
Comments:						
	ISDN		SUT		SIP	
	A) Without SDP pre-condition	n				
	INVITE	→		→	SETUP	
	100 Trying	+			02.0.	
	180 Ringing	+		+	ALERT	
	200 OK INVITE	+		÷	CON	
	ACK	→		`	CON	
	AOR					
	DVE	+		+	DISC	
	BYE	→		~	DISC	
	200 OK BYE	7		7	REL	
	b) EC 202 027 [40] /pro cons	lition -	not \	<u> </u>		
	b) ES 283 027 [48] (pre-cond		iet)	1		
	INVITE SDP	→				
	100 Trying	+				
	183 Session Progress SDP	←				
	PRACK	→				
	200 OK PRACK	+				
	UPDATE	→				
	200 OK (UPDATE)	+				
				→	SETUP	
	180 Ringing	+		+	ALERT	
	PRACK	→				
	200 OK PRACK	+				
	200 OK INVITE	+		+	CON	
	ACK	→				
	BYE	+		+	DISC	
	200 OK BYE	→		→	REL	

CL ALL OAA	ISDN reference to:		T	NC	NI reference to:			
SI_AU_04A	ISDN reference to: NGN reference to: NGN reference to: EN 300 403-1 [i.3], clause 5.2.1 Q.1912.5 [51], clause 6.5							
	EN 300 403-1 [1.3], clause 3.2.1 Q.1912.5 [51], clause 6.5 EN 300 899-1 [23], clause 3.1.1 EN 383 001 [49], clause 6.5							
	EN 300 899-1 [23], clause	3.1.1						
T00 (010 100 1/0 : 1/0			83 0	27 [48], clause 7.2.3.1			
TSS reference:	SIP-ISDN/Basic_call/Succes							
Selection criteria:	ISDN = point to point Configu		ith DDI;					
	P-Early-Media Header is sup							
Test purpose:	Ensure that the SIP user rece	eives a 1	83 Session Pro	ogres	ss message when the ISDN			
	User in call state U03 is send	ding a Ca	II Proceedingm	nessa	age. Ensure that in the active			
			he media and	B-ch	annels is performed correctly			
	(e.g. testing QoS parameters							
				ınsfe	er of tone or announcement on			
	the media channel is perform							
	In case when the parameter	in the SD	P rtpmap: <dyr< td=""><td>namio</td><td>c-PT> is used the codecs in</td></dyr<>	namio	c-PT> is used the codecs in			
	table 6 applies.							
ISDN Parameter	SETUP = 3,1 kHz audio;							
values:								
SIP Parameter values:	Dial string parameters option	ıs=PIXIT						
	PIXIT for supported header:							
	Case a) no 100 rel							
	Case b) Supported: 100 rel							
	Case c) Supported: 100 rel a	ınd preco	ndition					
	a = line (PIXIT- Table 6)							
	b = line (PIXIT - Table 6)							
	m = line (PIXIT - Table 6)							
Comments:								
	ISDN SUT SIP							
	a) Without SDP pre-condition							
	INVITE	→		→	SETUP			
	183 Session Progress	+		←	CALL PROCEEDING PI#8			
	Including the P-Early-Media							
	Header							
	180 Ringing	←		←	ALERT			
	200 OK INVITE	←		+	CON			
	ACK	→						
	BYE	+		+	DISC			
	200 OK BYE	→		→	REL			
				1				
	b) ES 283 027 [48] (pre-cond	dition met	()	-				
			-					
	INVITE SDP	→		Τ				
	100 Trying	+		1	1			
		1						
	183 Session Progress SDP	+		†				
	PRACK	<u>`</u>		+	+			
	200 OK PRACK	-		+-	+			
	UPDATE	→	 	+	+			
	200 OK (UPDATE)	-		+-	+			
	ZOU OR (UPDATE)	+	 	+	+			
		+		 -	CETUD			
	190 Dinging	-	 	→	SETUP			
	180 Ringing			+	ALERT			
	PRACK	→	 	₩				
	200 OK PRACK	(_	1001			
	200 OK INVITE	+		←	CON			
	ACK	→		<u> </u>				
		ļ		<u> </u>				
Ť	IDVE	←	i .	1 Z	IDICC			
	BYE 200 OK BYE	→		←	DISC REL			

SI_AU_05	ISDN reference to	NGN reference to:						
	EN 300 403-1 [i.3], claus EN 300 899-1 [23], claus	Q.1912.5 [51], clause 6.5 EN 383 001 [49], clause 6.5						
				283 (027 [48], clause 7.2.3.1			
TSS reference:	SIP-ISDN/Basic_call/Succes							
Selection criteria:	ISDN = point to point Configuration: with DDI							
Test purpose:	Ensure that the SIP user receives a 180 Ringing message when the ISDN User in call state U07 is sending an ALERTING message. Ensure that in the active call state (N10) the voice transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters). Ensure that in the Call Delivered call state U4 the transfer of tone or announcement on the media channel is performed correctly.							
	In case when the parameter table 6 applies.	III IIIE SDP	пршар.<иуп	iamic	c-P1> is used the codecs in			
ISDN Parameter	SETUP = 3,1 kHz audio							
values:								
SIP Parameter values:	Dial string parameters option	s=PIXIT						
	PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel a a = line (PIXIT - Table 6) b = line (PIXIT - Table 6)	and precond	dition					
	m = line (PIXIT - Table 6)							
Comments:	III = IIII (I I I I I I I I I I I I I I							
Comments.	ISDN		SUT		SIP			
	a) Without SDP pre-condition	<u> </u>	001		011			
	INVITE	<u>'</u>		→	SETUP			
		(32101			
	100 Trying			_	ALEDT.			
	180 Ringing	+		←	ALERT			
	200 OK INVITE	←		←	CON			
	ACK	→						
	BYE	←		←	DISC			
	200 OK BYE	→		→	REL			
	b) ES 283 027 [48] (pre-cond	dition met)						
	INVITE SDP	→						
	100 Trying	-						
	100 Hyllig							
	183 Session Progress SDP	_						
	•			-	 			
	PRACK	→			<u> </u>			
	200 OK PRACK	+						
	UPDATE	→						
	200 OK (UPDATE)	+						
				→	SETUP			
	180 Ringing	(←	ALERT			
	PRACK	→						
	200 OK PRACK	+						
	200 OK INVITE	+		(CON			
	ACK	→						
	BYE	+		+	DISC			
	200 OK BYE	→		<u>`</u>	REL			
L	LOO ON DIL	<u> </u>	l .	<u> </u>	1 1			

Selection criteria: ISDN = point to point Configuration: with DDI P-Early-Media Header is supported	SI_AU_05A	ISDN reference to: EN 300 403-1 [i.3], clause EN 300 899-1 [23], clause	3.1.1	EN ES 2	.191 383	GN reference to: 2.5 [51], clause 6.5 3 001 [49], clause 6.5 27 [48], clause 7.2.3.1				
P-Early-Media Header is supported Test purpose: Ensure that the SIP user receives a 180 Ringing message when the ISDN User in call state U07 is sending an ALERTING message. Ensure that in the active call state (N10) the voice transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters). Ensure that in the Call Delivered call state U4 the transfer of tone or announcement on the media channel is performed correctly. In case when the parameter in the SDP ripmap: <dynamic-pt> is used the codecs in state 6 applies. SETUP = 3,1 kHz audio SETUP = 3,1 kHz audio SETUP = 3,1 kHz audio SETUP = 3,1 kHz audio Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case o) Supported: 100 rel Case o) Supported: 100 rel Case o) Supported: 100 rel Case o) Supported: 100 rel Case o) Supported: 100 rel Case o) Supported: 100 rel RINTITE A) Without SDP pre-condition INVITE 100 Trying 100 Trying 100 Trying 100 CK INVITE 200 OK INVITE 200 OK INVITE 200 OK INVITE 30 E</dynamic-pt>	TSS reference:	SIP-ISDN/Basic_call/Successful/3,1 kHz audio								
state U07 is sending an ALERTING message. Ensure that in the active call state (N10) the voice transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters). Ensure that in the Call Delivered call state U4 the transfer of tone or announcement on the media channel is performed correctly. In case when the parameter in the SDP rtpmap: IsDN Parameter values: ISDN Parameter values: Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT - Table 6) b = line (PIXIT - Table 6) m = line (PIXIT - Table 6) m = line (PIXIT - Table 6) m = line (PIXIT - Table 6) m = line (PIXIT - Table 6) m = line (PIXIT - Table 6) m = line (PIXIT - Table 6) B) Without SDP pre-condition INVITE 180 SETUP 180 Ringing Including the P-Early-Media Header 200 OK INVITE ACK BYE COON 183 Session Progress SDP 183 Session Progress SDP 183 Session Progress SDP 183 Session Progress SDP 184 Session Progress SDP 185 Ringing Including the P-Early-Media Including the P-Early-Media Including the P-Early-Media Including the P-Early-Media Including the P-Early-Media Including the P-Early-Media Including the P-Early-Media Including the P-Early-Media Including the P-Early-Media Including the P-Early-Media Including the P-Early-Media Including the P-Early-Media Including the P-Early-Media Including the P-Early-Media Including the P-Early-Media Including the P-Early-Media Including the P-Early-Media Including the P-Early-Media Including the P-Early-Media Including the P-Early-Media Including the P-Early-Media Including the P-Early-Media Including the P-Early-Media Including the P-Early-Media Including the P-Early-Media Including the P-Early-Media Including the P-Early-Media Including the P-Early-Media Including the P-Early-Media Including the P-Early-Media Including the P-Early-Media Including the P-Early-Media Including the P-Early-Media Including the P-Early-Media Includin	Selection criteria:									
SETUP = 3,1 kHz audio	Test purpose:	Ensure that the SIP user receives a 180 Ringing message when the ISDN User in call state U07 is sending an ALERTING message. Ensure that in the active call state (N10) the voice transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters). Ensure that in the Call Delivered call state U4 the transfer of tone or announcement on the media channel is performed correctly. In case when the parameter in the SDP rtpmap: <dynamic-pt> is used the codecs in</dynamic-pt>								
Dial string parameters options=PIXIT										
PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel Case c) Supported: 100 rel a = line (PIXIT - Table 6) b = line (PIXIT - Table 6) b = line (PIXIT - Table 6) m = line (PIXIT - Table 6) Comments: SDN		Dial atrian novementare entings DIVIT								
ISDN		Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT- Table 6) b = line (PIXIT - Table 6)								
a) Without SDP pre-condition INVITE 100 Trying 180 Ringing Including the P-Early-Media Header 200 OK INVITE CON ACK BYE 200 OK BYE DISC 200 OK BYE 183 Session Progress SDP PRACK 200 OK PRACK UPDATE 200 OK (UPDATE) 180 Ringing Including the P-Early-Media Header PRACK 200 OK PRACK 200 OK PRACK CON ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT ALERT A	Comments:									
INVITE		ISDN		SUT		SIP				
INVITE		a) Without SDP pre-condition	ì							
180 Ringing		INVITE	→		→	SETUP				
180 Ringing Including the P-Early-Media Header 200 OK INVITE		100 Trying	+							
200 OK INVITE		180 Ringing Including the P-Early-Media			+	ALERT				
ACK BYE 200 OK BYE → REL b) ES 283 027 [48] (pre-condition met) INVITE SDP 100 Trying ← 183 Session Progress SDP PRACK 200 OK PRACK UPDATE 200 OK (UPDATE) → SETUP 180 Ringing Including the P-Early-Media Header PRACK 200 OK PRACK ← 200 OK PRACK ← 200 OK PRACK ← CON ACK → DISC			+		-	CON				
BYE					_					
Discrete					_	DISC				
b) ES 283 027 [48] (pre-condition met) INVITE SDP										
INVITE SDP 100 Trying 183 Session Progress SDP PRACK 200 OK PRACK UPDATE 200 OK (UPDATE) 180 Ringing Including the P-Early-Media Header PRACK 200 OK PRACK 200 OK PRACK 200 OK PRACK 200 OK PRACK 200 OK PRACK 200 OK PRACK 200 OK INVITE ACK 200 OK INVITE FOR DISC		200 OK BYE	7		7	REL				
183 Session Progress SDP ← PRACK 200 OK PRACK UPDATE 200 OK (UPDATE)		b) ES 283 027 [48] (pre-cond	dition me	:)						
183 Session Progress SDP ← PRACK 200 OK PRACK UPDATE 200 OK (UPDATE)		INVITE SDP	→							
183 Session Progress SDP										
PRACK → 200 OK PRACK ← UPDATE → 200 OK (UPDATE) ← 180 Ringing Including the P-Early-Media Header ← ← ALERT PI#8 PRACK → → ALERT PI#8 200 OK PRACK ← ← CON ACK → CON BYE ← DISC			<u> </u>							
PRACK → 200 OK PRACK ← UPDATE → 200 OK (UPDATE) ← 180 Ringing Including the P-Early-Media Header ← ← ALERT PI#8 PRACK → → ALERT PI#8 200 OK PRACK ← ← CON ACK → CON BYE ← DISC		183 Session Progress SDP	+							
200 OK PRACK UPDATE 200 OK (UPDATE)										
UPDATE → 200 OK (UPDATE) 180 Ringing ← ← ALERT PI#8 Including the P-Early-Media Header → ALERT PI#8 PRACK → → 200 OK PRACK ← CON ACK → CON BYE ← DISC										
200 OK (UPDATE) ←						+				
BYE SETUP SETUP ALERT PI#8 ALERT PI#8 FETUP ALERT PI#8 CON ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 CON ALERT PI#8 FETUP ALERT PI#8 FETUP CON ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 FETUP ALERT PI#8 ALERT PI#8 FETUP ALERT PI#8 ALERT PI#8 ALERT PI#8 ALERT PI#8 ALERT PI#8 ALE										
180 Ringing Including the P-Early-Media Header PRACK 200 OK PRACK 200 OK INVITE ← CON ACK BYE ← DISC		ZUU UK (UPDATE)								
180 Ringing Including the P-Early-Media Header PRACK 200 OK PRACK 200 OK INVITE ← CON ACK BYE ← DISC					<u> </u>	OFTUD				
Including the P-Early-Media Header PRACK 200 OK PRACK 200 OK INVITE ACK → BYE ← DISC		100 5:	_							
200 OK PRACK 200 OK INVITE ← CON ACK BYE ← DISC		Including the P-Early-Media	+		•	ALERI PI#8				
200 OK PRACK ← CON 200 OK INVITE ← CON ACK → DISC		PRACK								
200 OK INVITE		200 OK PRACK	←							
ACK → DISC			+		←	CON				
200 OK BYE → REL		BYE	+		←					
		200 OK BYE	→		→	REL				

SI_AU_07	ISDN reference to: EN 300 403-1 [i.3], clause EN 300 899-1 [23], clause		NGN reference to: Q.1912.5 [51], clause 6.5 EN 383 001 [49], clause 6.5 ES 283 027 [48], clause 7.2.3.1					
TSS reference:	SIP-ISDN/Basic call/Successful/3.1 kHz audio							
Selection criteria:	TO TO TO TO THE DECIDE OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE							
Test purpose:	Ensure that SIP user receives a 180 Ringing message when the ISDN User in call state N09 is sending an ALERTING message. Ensure that the ringing tone can be heard in the early dialogue Ensure that in the active call state (N10) the transfer of tone or announcement on the media and B-channels is performed correctly (e.g. testing QoS parameters).							
ISDN Parameter	SETUP = 3,1 kHz audio;							
values:	,,							
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)							
Comments:								
	SIP		SUT		ISDN			
	a) Without SDP pre-condition	n						
	IŃVITE	→		→	SETUP			
	100 Trying	+						
	, <u>, , , , , , , , , , , , , , , , , , </u>			+	CALL PROC			
	180 Ringing	+		+	ALERT			
	200 OK INVITE	-		+	CON			
	ACK	→						
	BYE	←		+	DISC			
	200 OK BYE	→		→	REL			
	b) SDP pre-condition met				1			
	INVITE SDP	→						
	100 Trying	-						
	183 Session Progress SDP	+						
	PRACK	→						
	200 OK (PRACK)	-						
	UPDATE	→						
	200 OK (UPDATE)	-						
	200 011 (01 27112)	1		→	SETUP			
				-	CALL PROC			
	180 Ringing	+		+	ALERT			
	PRACK	→		Ť				
	200 OK (PRACK)	-		1				
	200 OK (NVITE	+		+	CON			
	ACK	→		+				
	,,,,,,	+-						
	BYE	+		+	DISC			
	200 OK BYE	>		→	REL			
	1200 OK DIL				IVEE			

	ISDN reference to: EN 300 403-1 [i.3], clause EN 300 899-1 [23], clause	NGN reference to: Q.1912.5 [51], clause 6.5 EN 383 001 [49], clause 6.5 ES 283 027 [48], clause 7.2.3.1					
TSS reference:	SIP-ISDN/Basic_call/Successful/3,1 kHz audio						
Selection criteria:	FAX G3						
Test purpose:	between INVITE message ar in the active call state (N10) performed correctly (e.g. test	nd the SE the voice	TUP message transfer on the	e is p	fined SDP parameters for T.38 erformed correctly. Ensure that dia and B-channels is		
ISDN Parameter	SETUP = 3,1 kHz audio						
values:	HLC = "Facsimile Group 2/3"						
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line Based on T.38. b = line AS: 64 m = line: VA_Transport; T38 (Table 4)						
Comments:	, _ ,	,	,				
	SIP		SUT		ISDN		
	a) Without SDP pre-condition	1	001		10511		
	INVITE	<u>'</u> →		→	SETUP		
		-		_	SETUP		
	100 Trying	_			CALL DDOC		
	100 D: :	ļ		(CALL PROC		
	180 Ringing	((ALERT		
	200 OK INVITE	+		+	CON		
	ACK	→					
	DVE	-		-	DIOO		
	BYE	(+	DISC		
	200 OK BYE	→		→	REL		
	b) SDP pre-condition met	T _					
	INVITE SDP	→					
	100 Trying	(
	183 Session Progress SDP	←					
	PRACK	→					
	200 OK (PRACK)	(
	UPDATE	→					
	200 OK (UPDATE)	+					
	, ,			→	SETUP		
				+	CALL PROC		
	180 Ringing	←		+	ALERT		
	200 OK INVITE	(+	CON		
	ACK	→		†			
		<u> </u>		+			
	BYE	+		+	DISC		
	200 OK BYE	→		`	REL		

Table 4

Parameter transport protocol VA_Transport					
VA_Transport_1	udptl				
VA_Transport_2	tcptl				

SI_AU_09	ISDN reference to:	NGN reference to:						
01_A0_09	EN 300 403-1 [i.3], clause	521			.5 [51], clause 6.5			
	EN 300 899-1 [23], clause		EN 3	1912 1912	001 [49], clause 6.5			
	LN 300 099-1 [23], Clause	J. 1. 1			7 [48], clause 7.2.3.1			
TSS reference:	SIP-ISDN/Basic call/Succes	SIP-ISDN/Basic_call/Successful/3,1 kHz audio						
Selection criteria:	FAX G3-T.30							
Test purpose:		nt and	the mapping of th	ne de	fined SDP parameters INVITE			
					y. Ensure that in the active call			
					els is performed correctly (e.g.			
	testing QoS parameters).				, , , ,			
ISDN Parameter	SETUP = 3,1 kHz audio;							
values:								
SIP Parameter values:	Dial string parameters option	ns=PIX	IT					
	PIXIT for supported header:							
	Case a) no 100 rel							
	Case b) Supported: 100 rel							
	Case c) Supported: 100 rel a	and pre	condition					
	: (D)(IT)							
	a = line (PIXIT)							
	b = line (PIXIT)							
Commonto	m = line (PIXIT)							
Comments:	SIP	1 1	SUT		ISDN			
			301		IODIN			
	a) Without SDP pre-condition INVITE			→	SETUP			
		+		7	SETUP			
	100 Trying	_		+	CALL PROC			
	190 Dinging	+		-	ALERT			
	180 Ringing 200 OK INVITE	+		-	CON			
	ACK	→		_	CON			
	ACK	7						
	BYE			_	DISC			
	200 OK BYE	←		←	DISC REL			
		7		7	KEL			
	b) SDP pre-condition met INVITE SDP	→			T			
	100 Trying	+						
	183 Session Progress SDP	+						
	PRACK	→		1				
	200 OK (PRACK)	+		1				
	UPDATE	→		1				
		7		-				
	200 OK (UPDATE)	-		→	CETUD			
	190 Pinging	+		7	SETUP ALERT			
	180 Ringing	+		+				
	200 OK INVITE	←		~	CON			
	ACK	7		1				
	DVE	-		L	DISC			
	BYE	+		/	DISC			
	200 OK BYE	→		→	REL			

Selection criteria: Test purpose: Ensure that the call establishment and the call clearing procedure are performed correctly when the calling user clears after answering with a BYE message. The called user shall receive a DISCONNECT message indicating the Cause value # 16 "normal call clearing" with the progress indicator #8 or a Progress message with the progress indicator #8. ISDN Parameter SETUP = 3,1 kHz audio; SIP Parameter values: Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case b) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT) SIP 3) Without SDP pre-condition INVITE 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 OK INVITE 100 Trying 100 Trying 100 OK BYE 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Trying 100 Try	SI_AU_10	ISDN reference to: EN 300 403-1 [i.3], clause EN 300 899-1 [23], clause	NGN reference to: Q.1912.5 [51], clause 6.11 EN 383 001 [49], clause 6.11 ES 283 027 [48], clause 7.2.3.1						
Test purpose: Ensure that the call establishment and the call clearing procedure are performed correctly when the calling user clears after answering with a BYE message. The called user shall receive a DISCONNECT message indicating the Cause value # 16 "normal call clearing" with the progress indicator #8 or a Progress message with the progress indicator #8. ISDN Parameter SETUP = 3,1 kHz audio; values: SETUP = 3,1 kHz audio; Values: Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) b = line (PIXIT) m = line (PIXIT) m = line (PIXIT) Bay Without SDP pre-condition INVITE 100 Trying SETUP 100 Trying ACK BYE 4 CALL PROC 180 Ringing 5 CALL PROC 180 Ringing 6 CALL PROC 180 Ringing 7 CALL PROC 180 Ringing 8 CALL PROC 180 Ringing 9 CALLERT 200 OK INVITE 100 Trying 100 Trying 110 Trying 110 Trying 110 Trying 111 SSDP 110 Trying 111 SSDP 112 SSETUP 113 Session Progress SDP PRACK 200 OK (PRACK) 113 SESTUP 114 SETUP 115 SETUP 116 SETUP 117 SETUP 118 Ringing 118 CON 118 SETUP 118 Ringing 118 SETUP 118 Ringing 118 SETUP 118 Ringing 118 SETUP 118 Ringing 120 OK (UPDATE) 120 OK INVITE 130 Ringing 14 CON 15 SETUP 16 CALLERT 17 SETUP 18 SETUP 18 SETUP 18 SETUP 18 SETUP 18 RINGING 20 OK INVITE 20 OK INVITE 4 CON 20 OK INVITE 4 CON 20 OK INVITE 4 CON 20 OK INVITE 4 CON 20 OK INVITE 4 CON 20 OK INVITE 4 CON 20 OK INVITE 4 CON 20 OK INVITE 4 CON 20 OK INVITE 4 CON 20 OK INVITE 4 CON 20 OK INVITE 4 CON 20 OK INVITE 4 CON 20 OK INVITE 4 CON 20 OK INVITE 4 CON 20 OK INVITE 4 CON 20 OK INVITE 4 CON 20 OK INVITE 4 CON 20 OK INVITE 4 CON 20 OK INVITE 4 CON 20 OK INVITE 4 CON 20 OK INVITE 4 CON 20 OK INVITE 4 CON 20 OK INVITE 4 CON 20 OK INVITE 4 CON 20 OK INVITE 4 CON 20 OK INVITE 4 CON 20 OK INVITE 4 CON 20 OK INVITE 4 CON 20 OK INVITE 4 CON 20 OK INVITE 4 CON 20 OK INVITE 4 CON 20 OK INVITE 4 CON 20	TSS reference:	SIP-ISDN/Basic_call/Success	SIP-ISDN/Basic_call/Successful/3,1 kHz audio						
correctly when the calling user clears after answering with a BYE message. The called user shall receive a DISCONNECT message indicating the Cause value # 16 "normal call clearing" with the progress indicator #8 or a Progress message with the progress indicator #8. ISDN Parameter values: Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel Case b) Supported: 100 rel Case b) Supported: 100 rel Case b) Supported: 100 rel Case b) Supported: 100 rel Case b) Supported: 100 rel Case b) Supported: 100 rel Case b) Supported: 100 rel Case b) Supported: 100 rel Case b) Supported: 100 rel Case b) Supported: 100 rel Case b) Supported: 100 rel Case b) Supported: 100 rel Case b) Supported: 100 rel Case b) Supported: 100 rel Case b) Supported: 100 rel Case b) Supported: 100 rel Case b) Supported: 100 rel Case b) Supported: 100 rel Case b) Supported: 100 rel Case b) Supported: 100 rel Case b) Supported: 100 rel Case b) Supported: 100 rel Case b) Supported: 100 rel Case b) Supported: 100 rel Case b) Supported: 100 rel Case b) Supported: 100 rel Case b) Supported: 100 rel Case b) Supported: 100 rel Case b) Supported: 100 rel Case b) Supported: 100 rel Case b) Supported: 100 rel Case b) Supported: 100 rel Case b) Supported: 100 rel Case b) Supported: 100 rel Case b) Supported: 100 rel Case b) Supported: 100 rel Case b) Supported: 100 rel Case b) Supported: 100 rel Case b) Supported: 100 rel Case b) Supported: 100 rel Case b) Supported: 100 rel Case b) Supported: 100 rel Case b) Supported: 100 rel Case b) Supported: 100 rel Case b) Supported: 100 rel Case b) Supported: 100 rel Case b) Supported: 100 rel Case b) Supported: 100 rel Case b) Supported: 100 rel Case b) Supported: 100 rel Case b) Supported: 100 rel Case b) Supported: 100 rel Case b) Supported: 100 rel Case b) Supported: 100 rel Case b) Supported: 100 rel Case b) Supported: 100 rel Case b) Supported: 100 rel Case b) Supported: 100 rel Case b) Supported: 100	Selection criteria:								
ISDN Parameter values: Dial string parameters options=PIXIT	Test purpose:	correctly when the calling us The called user shall receive "normal call clearing" with the	er clear a DISC0	s after answerin DNNECT messa	ig wi age i	th a BYE message. ndicating the Cause value # 16			
Values: Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case a) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) b = line (PIXIT) m = line (PIXIT) SIP a) Without SDP pre-condition INVITE 100 Trying CALL PROC 180 Ringing CALL PROC 180 Ringing CALL PROC 180 Ringing CON ACK ACK BYE DISC 200 OK BYE PREL b) SDP pre-condition met INVITE SDP 183 Session Progress SDP PRACK 200 OK (PRACK) DISC 200 OK (UPDATE) PSETUP 180 Ringing ALERT 200 OK (NVITE CON ACK PSETUP 180 Ringing ALERT 200 OK (NVITE CON ACK PSETUP 180 Ringing ALERT 200 OK (NVITE CON ACK PSETUP	ISDN Parameter								
PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT) m = line (PIXIT) m = line (PIXIT) m = line (PIXIT) m = line (PIXIT) m = line (PIXIT) m = line (PIXIT) m = line (PIXIT) m = line (PIXIT) m = line (PIXIT) SUT		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							
a = line (PIXIT) b = line (PIXIT) m = line (PIXIT) SIP SIP SUT ISDN a) Without SDP pre-condition INVITE 100 Trying ← CALL PROC 180 Ringing ← ALERT 200 OK INVITE ACK BYE 200 OK BYE b) SDP pre-condition met INVITE SDP 100 Trying ← DISC 200 OK PIXE BYE CON INVITE SDP 100 Trying ← 183 Session Progress SDP PRACK 200 OK (PRACK) UPDATE 200 OK (UPDATE) 180 Ringing ← ALERT 200 OK (UPDATE) ← SETUP 180 Ringing ← ALERT 200 OK (UPDATE) ← SETUP 180 Ringing ← ALERT 200 OK (NVITE ← CON		PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel							
SIP SUT ISDN		a = line (PIXIT) b = line (PIXIT)							
a) Without SDP pre-condition INVITE 100 Trying ← CALL PROC 180 Ringing ← ALERT 200 OK INVITE ← CON ACK BYE 200 OK BYE 200 OK BYE 300 SPP → REL b) SDP pre-condition met INVITE SDP 100 Trying ← 183 Session Progress SDP PRACK 200 OK (PRACK) UPDATE 200 OK (UPDATE) 180 Ringing ← ALERT 200 OK INVITE 4 CON SETUP 180 Ringing ← ALERT 200 OK INVITE 4 CON ACK BYE 4 DISC	Comments:		1	1					
183 Session Progress SDP ← PRACK 200 OK (PRACK) ← UPDATE → 200 OK (UPDATE) ← 180 Ringing ← ALERT 200 OK INVITE ← CON ACK → BYE → DISC		INVITE 100 Trying 180 Ringing 200 OK INVITE ACK BYE 200 OK BYE b) SDP pre-condition met INVITE SDP	+ + + + + +		+ + +	CALL PROC ALERT CON DISC			
PRACK → 200 OK (PRACK) ← UPDATE → 200 OK (UPDATE) ← 180 Ringing ← ALERT 200 OK INVITE ← CON ACK → DISC									
200 OK (PRACK) UPDATE 200 OK (UPDATE)									
UPDATE → 200 OK (UPDATE) ← 180 Ringing ← 200 OK INVITE ← ACK → BYE → SETUP ALERT CON ALERT DISC									
200 OK (UPDATE) ←									
→ SETUP									
180 Ringing ← ← ALERT 200 OK INVITE ← ← CON ACK → DISC		200 OK (UPDATE)	+						
200 OK INVITE					→				
200 OK INVITE		180 Ringing	+		+				
ACK → DISC			+		←				
BYE → DISC									
		BYE	→		→	DISC			
		200 OK BYE	+		+	REL			

SI_AU_11	ISDN reference to: EN 300 403-1 [i.3], clause 5 EN 300 899-1 [23], clause 5	EN 383 001 [49], clause 6.11 ES 283 027 [48], clause 7.2.3.1						
TSS reference:	SIP-ISDN/Basic_call/Succes	SIP-ISDN/Basic_call/Successful/3,1 kHz audio						
Selection criteria:								
Test purpose:	after answering with a DISC clearing". The calling user shall receive	The calling user shall receive a BYE message. A reason header field with value 16 is sent in case of EN 383 001 [49] and ES 283 027 [48],						
ISDN Parameter	SETUP = 3,1 kHz audio;							
values:	02101 = 0,1 KH2 addio,							
SIP Parameter values:	Dial string parameters option	s=PIX	IIT					
	PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel a a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)	and pre	econdition					
Comments:	, , , ,							
	SIP		SUT		ISDN			
	a) Without SDP pre-condition	 `		· I				
	INVITE	·		→	SETUP			
	100 Trying	+		1 -	02.101			
	180 Ringing	+		+	ALERT			
	200 OK INVITE	+		+	CON			
	ACK	→			0011			
	NON							
	BYE	+		+	DISC			
	200 OK BYE	→		\	REL			
	b) SDP pre-condition met				INLL			
	INVITE SDP	→		1				
	183 Session Progress SDP	′						
	PRACK	→						
	200 OK (PRACK)	-						
	UPDATE	→						
		+						
	200 OK (UPDATE)	~		→	SETUP			
	190 Pinging	+		-	ALERT			
	180 Ringing PRACK	→		_	ALEKT			
		-		+				
	200 OK (PRACK)	+			CON			
	200 OK INVITE			+	CON			
	ACK	→		-				
	DVE			-	DIGG			
	BYE	+		+	DISC			
	200 OK BYE	→		→	REL			

Table 5

	m= line		B= line A= line		BC paramet	HLC parameter		
	<media></media>	<transport></transport>	<fmt-list></fmt-list>	<pre><modifier>:<bandwidth- value=""> (see note 3)</bandwidth-></modifier></pre>	rtpmap: <dynamic-pt> <encoding name="">/ <clock rate="">[/encoding parameters></clock></encoding></dynamic-pt>	Information Transport Capability	User Information Layer 1 Protocol Indicator	High Layer Characteristics Identification
VA_01	audio	RTP/AVP	0	N/A or up to 64 kbit/s	N/A	"3,1 kHz audio"	"G.711 A-law "	Note 2
VA_02	audio	RTP/AVP	Dynamic PT		rtpmap: <dynamic-pt> PCMU/8000</dynamic-pt>	"3,1 kHz audio"	"G.711 A-law "	Note 2
VA_03	audio audio	RTP/AVP	8	N/A or up to 64 kbit/s	N/A	"3,1 kHz audio"	"G.711 A-law "	Note 2
VA_04	audio	RTP/AVP	Dynamic PT	•	rtpmap: <dynamic-pt> PCMA/8000</dynamic-pt>	"3,1 kHz audio"	"G.711 A-law"	Note 2

NOTE 1: In this table the codec G.711 is used only as an example. Other codec is possible.

NOTE 2: HLC normally absent in this case. It is possible for HLC to be present with the value "Telephony", although clause 6.3.1/Q.939 [i.18] indicates that this would normally be accompanied by a value of "Speech" for the Information Transfer Capability element.

NOTE 3: https://doi.org/10.1001/journal.org/ an example. Other codec is possible.

NOTE 3: https://doi.org/10.1001/journal.org/ value of "Speech" for the Information Transfer Capability element.

NOTE 3: https://doi.org/ value of "Speech" for the Information Transfer Capability element.

Table 6: Values for test purposes SI_AU_04 and SI_AU_11

VARIABLE	PT	Encoding	media type	clock rate	channels
VA_01	0	PCMU	Α	8,000	1
VA_02	3	GSM	Α	8,000	1
VA_03	4	G723	Α	8,000	1
VA_04	5	DVI4	Α	8,000	1
VA_05	7	LPC	Α	8,000	1
VA_06	8	PCMA	Α	8,000	1
VA_07	9	G722	Α	8,000	1
VA_08	12	QCELP	Α	8,000	1
VA_09	13	CN	Α	8,000	1
VA_10	18	G729	Α	8,000	1
VA_11	Dyn	G726-40	Α	8,000	1
VA_12	Dyn	G726-32	Α	8,000	1
VA_13	Dyn	G726-24	Α	8,000	1
VA_14	Dyn	G726-16	Α	8,000	1
VA_15	Dyn	G729D	Α	8,000	1
VA_16	Dyn	G729E	Α	8,000	1
VA_17	Dyn	GSM-EFR	A	8,000	1

Selection criteria: SIP-ISDN/Basic_call/Successful/3,1 kHz audio Selection criteria: FAX - inband	the SETUP e data
Test purpose: Ensure that call establishment and the mapping of the a = line: PCMA/8000; kbit/s and m = RTP/AVP 8 for FAX - inband between INVITE message and to message is performed correctly. Ensure that in the active call state (N10) the transfer on the media and B-channels is performed correctly (e.g. testing Qod parameters). ISDN Parameter values: SETUP = 3,1 kHz audio; SETUP = 3,1 kHz audio; PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line: PCMA/8000 or PCMU/8000 (PIXIT) b = line: 64 kbit/s m = line: = RTP/AVP 8 or 0 (PIXIT) Comments:	the SETUP e data
kbit/s and m = RTP/AVP 8 for FAX - inband between INVITE message and to message is performed correctly. Ensure that in the active call state (N10) the transfer on the media and B-channels is performed correctly (e.g. testing Qo parameters). ISDN Parameter SETUP = 3,1 kHz audio; SIP Parameter values: Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line: PCMA/8000 or PCMU/8000 (PIXIT) b = line: 64 kbit/s m = line: = RTP/AVP 8 or 0 (PIXIT) Comments:	the SETUP e data
ISDN Parameter values: SIP Parameter values: Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line: PCMA/8000 or PCMU/8000 (PIXIT) b = line: 64 kbit/s m = line: = RTP/AVP 8 or 0 (PIXIT) Comments:	
values: SIP Parameter values: Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line: PCMA/8000 or PCMU/8000 (PIXIT) b = line: 64 kbit/s m = line: = RTP/AVP 8 or 0 (PIXIT) Comments:	
PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line: PCMA/8000 or PCMU/8000 (PIXIT) b = line: 64 kbit/s m = line: = RTP/AVP 8 or 0 (PIXIT) Comments:	
a = line: PCMA/8000 or PCMU/8000 (PIXIT) b = line: 64 kbit/s m = line: = RTP/AVP 8 or 0 (PIXIT) Comments:	
N. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	1
a) Without SDP pre-condition	
INVITE → SETUP	
100 Trying ←	
180 Ringing ← ← ALERT	
200 OK INVITE ← CON	
ACK →	
BYE ← DISC	
200 OK BYE → REL	
b) SDP pre-condition met	
INVITE SDP →	
100 Trying ←	
183 Session Progress SDP ←	
PRACK →	
200 OK (PRACK) ←	
UPDATE →	
200 OK (UPDATE) ←	
→ SETUP	
180 Ringing ← ALERT	
PRACK →	
200 OK (PRACK) ←	
200 OK ÎNVITE ← CON	
ACK →	
BYE ← DISC	
200 OK BYE → REL	

SI_AU_13	ISDN reference to:	NGN reference to:					
31_A0_13	EN 300 403-1 [i.3], clause	5.2.1	Q.1912.5 [51], clause 6.1.1, 6.1.3 EN 383 001 [49], clause 6.1.1, 6.1.3				
	EN 300 899-1 [23], clause 3						
		ES 283 027 [48],					
TSS reference:	SIP-ISDN/Basic_call/Success	sful/3,1	kHz audio				
Selection criteria:	SIP Profile A or Q.1912.5 [51						
Test purpose:	Ensure that call establishmer	nt upon	receipt of the fi	rst IN	VITE with sufficient digits, is		
					s indicator information element		
	shall be included in the SETU			e calle	ed user with progress		
100110	description value #1 "call is n	ot end-	to-end ISDN"				
ISDN Parameter	SETUP = 3,1 kHz audio;						
values:	Dial stains a second second second	- DIVI	-				
SIP Parameter values:	Dial string parameters option	S=PIXI	I				
	PIXIT for supported header:						
	Case a) no 100 rel						
	Case b) Supported: 100 rel						
	Case c) Supported: 100 rel a	nd pred	condition				
	Case of Supported. 100 for a	ina prov	or randor r				
	a = line (PIXIT)						
	b = line (PIXIT)						
	m = line (PIXIT)						
Comments:							
	SIP		SUT		ISDN		
	a) Without SDP pre-condition	1					
	INVITE	→		→	SETUP PI #1		
	100 Trying	+					
	180 Ringing	+		+	ALERT		
	200 OK INVITE	+		+	CON		
	ACK	→					
		<u> </u>					
	BYE	+		+	DISC		
	200 OK BYE	→		→	REL		
	b) SDP pre-condition met	1 _		-	T		
	INVITE SDP	→					
	100 Trying	+					
	183 Session Progress SDP	+					
	PRACK	→					
	200 OK (PRACK)	+					
	UPDATE	→					
	200 OK (UPDATE)	+		1_			
		<u> </u>		→	SETUP PI #1		
	180 Ringing	+		+	ALERT		
	PRACK	→					
	200 OK (PRACK)	+		1			
		1		1_			
	200 OK INVITE	+		+	CON		
	ACK	→		-			
	D)/E	-		+-	DIGG		
	BYE	(+	DISC		
	200 OK BYE	→		→	REL		
	NOTE: TI 100 0	<u> </u>		055) and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of		
	NOTE: The 183 Session Progress message with SDP answer should be sent when the OBCI in the ALERTING is set to: inband info or appropriate						
		ine AL	EKTING IS Set to	o: inb	and into or appropriate pattern		
l.	is now available.						

SI_AU_14	ISDN reference to:			IGN	reference to:		
31_A0_14	EN 300 403-1 [i.3], clause EN 300 899-1 [23], clause	Q.1912.5 [51], clause 6.1.1, 6.1.3 EN 383 001 [49], clause 6.1.1, 6.1.3 ES 283 027 [48], clause 7.2.3.1					
TSS reference:	SIP-ISDN/Basic_call/Successful/3,1 kHz audio						
Selection criteria:		-					
Test purpose:	During the session, the calling user decides to change the characteristics of the media session. This is accomplished by sending a re-INVITE containing a new media description. This re-INVITE references the existing dialog so that the IWU knows that it is to modify an existing session instead of establishing a new session. The IWU sends a 200 (OK) to accept the change. The requestor responds to the 200 (OK) with an ACK. In case when the parameter in the SDP rtpmap: <dynamic-pt> is used the codecs in table 16 applies.</dynamic-pt>						
ISDN Parameter values:	SETUP = 3,1 kHz audio;						
ISDN Parameter	SETUP = 3,1 kHz audio;						
values:							
SIP Parameter values:	Dial string parameters optio	ns=PIX	IT				
	PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT)						
0	m = line (PIXIT)						
Comments:	CID		CUT	1	ICDNI		
	SIP a) Without SDP pre-condition	<u> </u>	SUT		ISDN		
	INVITE	<u> </u>		→	SETUP		
	180 Ringing	′		-	ALERTING		
	200 OK INVITE	+		+	CON		
	ACK	→					
	RE-INVITE	→					
	200 OK	+					
	ACK	→					
			Communication				
	BYE	+		+	DISC		
	200 OK BYE	→		→	REL		
	b) SDP pre-condition met	•					
	INVITE	→					
	183 Session Progress	+					
	PRACK	→					
	200 OK (PRACK)	+					
	UPDATE	→					
	200 OK (UPDATE)	+					
				→	SETUP		
	180 Ringing	+		+	ALERTING		
	PRACK	→		ļ			
	200 OK (PRACK)	+		<u> </u>			
	200 OK INVITE	+		←	CON		
	ACK	→		<u> </u>			
		 _ _	Communication	<u> </u>			
	BYE	+		←	DISC		
	200 OK BYE	→		→	REL		

SI_AU_15	ISDN reference to:	NGN reference to:				
	EN 300 403-1 [i.3], clause 5.3.3	ES 283 027 [48], clause 7.2.3.1				
	EN 300 899-1 [23], clause 3.1.1	TS 183 028 [i.19]				
TSS reference:	SIP-ISDN/Basic_call/Successful/3,1 k	Hz audio				
Selection criteria:	Announcements controlled provided b					
		uring the establishment of a communication				
	session					
Test purpose:	_	unication the PSTN/ISDN provides an				
		on is forwarded" or "The user is not reachable".				
		ouncement on the media is performed correctly.				
	The flow assume the use of the option	-tag "100rel.				
ISDN Parameter	SETUP = 3,1 kHz audio;					
values:						
SIP Parameter values:	Dial string parameters options=PIXIT					
	PIXIT for supported header:					
	Case a) no 100 rel					
	Case b) Supported: 100 rel					
	Case c) Supported: 100 rel and precondition					
	a = line (PIXIT)					
	b = line (PIXIT)					
	m = line (PIXIT)					
Comments:						

SI_AU_16	ISDN reference to:	NGN reference to:			
	EN 300 403-1 [i.3], clause 5.3.3	ES 283 027 [48], clause 7.2.3.1			
	EN 300 899-1 [23], clause 3.1.1	TS 183 028 [i.19]			
TSS reference:	SIP-ISDN/Basic_call/Successful/3,1	kHz audio			
Selection criteria:	Announcements controlled provided	d by the PSTN/ISDN			
	Providing announcements to a user	during the establishment of a communication			
	session				
Test purpose:	During the establishment of the con	nmunication the PSTN/ISDN provides an			
		ation is forwarded" or "The user is not reachable".			
	Ensure that the transfer of tone or a	innouncement on the media is performed correctly.			
	The flow assumes the use of the P-	Ealry media header.			
ISDN Parameter	SETUP = 3,1 kHz audio;				
values:					
SIP Parameter values:	Dial string parameters options=PIXI	Т			
	PIXIT for supported header:				
	Case a) no 100 rel				
	Case b) Supported: 100 rel				
	Case c) Supported: 100 rel and pre	condition			
	Case of Supported. Too for and pro	oon diamen			
	a = line (PIXIT)				
	b = line (PIXIT)				
	m = line (PIXIT)				
Comments:					

IS_SP_08A	ISDN reference EN 300 403-1 [i. EN 300 899-1 [2	.3] !3]	NGN reference to: TS 129 163 [i.20], clause 7.2.3.1.3A.1				
TSS reference:	ISDN-SIP/Basic_call/Su	uccessful/V	oice				
Selection criteria:			ing supported; In-Dialog Meth				
Test purpose:	Ensure that the SIP use answers with an ALERT Ensure that in the active	Ensure that call establishment using overlap sending is performed correctly. Ensure that the SIP user receives an 180 Ringing message when the ISDN user answers with an ALERTING message. Ensure that in the active call state (N10) the voice transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters).					
ISDN Parameter values:	BC=speech, no HLC						
SIP Parameter values:	Dial string parameters options=PIXIT TYPE_SDP= PIXIT; PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition						
Comments:							
	INVITE	→	→	SETUP			
			+	SETUP ACK			
	183 Session progress	+					
	INFO	→	→	INFO			
	200 OK	+					
	183 Session progress	+	+	Call proceeding			
	180 Ringing	+	+	ALERTING			
	200 OK INVITE	+	+	CONN			
	ACK	→					
	BYE	→	→	DISC			
	200 OK BYE	+	+	REL			

IS_SP_08B	ISDN reference t EN 300 403-1 [i.: EN 300 899-1 [2:	3]	NGN reference to: TS 129 163 [i.20], clause 7.2.3.1.3A.1				
TSS reference:	ISDN-SIP/Basic_call/Su	ccessful/V	oice				
Selection criteria:	Basic_call; 283 027 over used	rlap receiv	ing supported; Multiple INVITE	Method; one dialog			
Test purpose:	Ensure that call establishment using overlap sending is performed correctly. Ensure that the SIP user receives an 180 Ringing message when the ISDN user answers with an ALERTING message. Ensure that in the active call state (N10) the voice transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters).						
ISDN Parameter values:	BC=speech, no HLC						
SIP Parameter values:	Dial string parameters of TYPE_SDP= PIXIT; PIXIT for supported head Case a) no 100 rel Case b) Supported: 100 Case c) Supported: 100	der:					
Comments:							
	INVITE	→	→	SETUP			
	484	+	+	SETUP ACK			
	INVITE	→					
			→	INFO			
	484	+					
	INVITE	→	→	INFO			
	183 Session progress	+	←	Call proceeding			
	180 Ringing	+	+	ALERTING			
	200 OK INVITE	200 OK INVITE ← CONN					
	ACK	→		_			
	BYE	→	→	DISC			
	200 OK BYE	←	+	REL			

IS_SP_08C	ISDN reference to: EN 300 403-1 [i.3],		NGN reference to: ES 129163 clause 7.2.3.1.3A.1						
	EN 300 899-1 [23]								
TSS reference:	ISDN-SIP/Basic_call/Success	ISDN-SIP/Basic_call/Successful/Voice							
Selection criteria:	Basic_call; 283 027 overlap reused	eceiving s	supported; Multiple INVITE N	Method; two dialogs					
Test purpose:	Ensure that call establishment using overlap sending is performed correctly. Ensure that the SIP user receives a 180 Ringing message when the ISDN user answers with an ALERTING message. The sending of the 183 Session Progress is optional. Ensure that in the active call state (N10) the voice transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters).								
ISDN Parameter	BC=speech, no HLC								
values:									
SIP Parameter values:	Dial string parameters options TYPE_SDP= PIXIT;	Dial string parameters options=PIXIT TYPE_SDP= PIXIT;							
	PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel an	nd precon	dition						
Comments:									
	INVITE csq 1 →	·	→	SETUP					
			+	SETUP ACK					
	INVITE csq2 →	•							
	·		→	INFO					
	484 csq 1 ←	•							
	183 Session progress csq 2	•	+	Call proceeding					
	180 Ringing csq2 ←	•	-	ALERTING					
	200 OK INVITE ←	-	←	CONN					
	ACK ->	•							
	BYE →	•	→	DISC					
	200 OK BYE ←	•	+	REL					

6.2.1.2 Codec negotiation

SI_XX_CN_01	ISDN reference to:	NGN reference to:
	EN 300 403-1 [i.3], clause 5.3.3	Q.1912.5 [51], clause 6.11
	EN 300 899-1 [23], clause 3.1.1	EN 383 001 [49], clause 6.11
		ES 283 027 [48], clause 7.2.3.1
TSS reference:	SIP-SIP/Basic_call/Codec negotiati	on
Selection criteria:		
Test purpose:	During the session, the calling use characteristics of the media session accomplished by sending a re-INVI re-INVITE references the existing d that it is to modify an existing session new session. The other party sends The requestor responds to the 200	in the confirmed state. This is TE containing a new media description. This ialog so that the other party knows on instead of establishing a s a 200 (OK) to accept the change.
ISDN Parameter values:	SETUP = 3,1 kHz audio	
SIP Parameter values:	Dial string parameters options=PIXI PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and pre a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)	
Comments:	, ,	

SI_XX_CN_02	ISDN reference to: EN 300 403-1 [i.3], clause 5.3.3 EN 300 899-1 [23], clause 3.1.1	NGN reference to: Q.1912.5 [51], clause 6.11 EN 383 001 [49], clause 6.11					
		ES 283 027 [48], clause 7.2.3.1					
TSS reference:	SIP-ISDN /Basic_call/Codec negoti	ation					
Selection criteria:							
Test purpose:	Ouring the session, the calling user decides to change the characteristics of the media session. Ensure that the calling user can send UPDATE after completion of the initial NVITE transaction. The other party sends a 200 (OK) to accept the change. The equestor responds to the 200 (OK) with an ACK.						
ISDN Parameter	SETUP = 3,1 kHz audio						
values:							
SIP Parameter values:	Dial string parameters options=PIXI	Т					
	PIXIT for supported header:						
	Case a) no 100 rel						
	Case b) Supported: 100 rel						
	Case c) Supported: 100 rel and pre	condition					
	a = line (PIXIT)						
	b = line (PIXIT)						
	m = line (PIXIT)						
Comments:							

6.2.1.3 Test purposes for SIP-ISDN, Basic call, DTMF

SI_XX_DT_01	ISDN reference to: EN 300 403-1 [i.3], claus EN 300 899-1 [23], claus	NGN reference to: Q.1912.5 [51], clause 6.1.3 EN 383 001 [49], clause 6.1.3 ES 283 027 [48], clause 7.2.3.1				
TSS reference:	SIP-ISDN/Basic_call/Succ	essful/3	3,1 kHz audio			
Selection criteria:	DTMF inband					
Test purpose:		ents 0 t	hrough 15) can be	transr	ure that in the active call state nitted inband to the called user .	
ISDN Parameter	SETUP = 3,1 kHz audio;					
values:						
SIP Parameter values:	PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition					
	a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)	b = line (PIXIT)				
Comments:			ı			
	SIP		SUT		ISDN	
	a) without SDP pre-conditi					
	INVITE	→		→	SETUP	
	180 Ringing	+		+	ALERTING	
	200 OK INVITE	←		+	CON	
	ACK	→				
			Communication			
	BYE	+		+	BYE	
	200 OK BYE	→		→	200 OK BYE	
	b) SDP pre-condition met		•			
	IŃVITE	→				
	183 Session Progress	+				
	PRACK	→				
	200 OK (PRACK)	+				
	UPDATE	→				
	200 OK (UPDATE)	-				
	200 011 (01 27112)	- ` -		→	SETUP	
	180 Ringing	+		É	ALERTING	
	200 OK INVITE	+		+	CONN	
	ACK	→		_	OCIVIA	
	AUN	- -	Communication		+	
	DVE		Communication	-	DISC	
	BYE	-		-	DISC	
	200 OK BYE	→		→	REL	

	Values for test purposes SI_XX_DT_01							
VARIABLE	PT	Encoding	media type	clock rate	channels			
VA_01	0	PCMU	Α	8,000	1			
VA_02	3	GSM	Α	8,000	1			
VA_03	8	PCMA	Α	8,000	1			
VA_04	dyn	GSM-EFR	Α	8,000	1			

SI_XX_DT_02	ISDN reference to: EN 300 403-1 [i.3], clause EN 300 899-1 [23], clause	NGN reference to: Q.1912.5 [51], clause 6.1.3 EN 383 001 [49], clause 6.1.3 ES 283 027 [48], clause 7.2.3.1					
TSS reference:	SIP-ISDN/Basic_call/Succe	essful/3	,1 kHz audio				
Selection criteria:	DTMF with RFC 2833 [56]						
Test purpose:		ents 0 tl	nrough 15) can be t	ransr	re that in the active call state nitted as payload for DTMF SDP parameter in table 6		
ISDN Parameter	SETUP = 3,1 kHz audio;						
values:							
SIP Parameter values:	Dial string parameters option	ons=PI)	(IT				
	PIXIT for supported header	τ:					
	Case a) no 100 rel						
	Case b) Supported: 100 rel						
	Case c) Supported: 100 rel	and pr	econdition				
	a = line (PIXIT)						
	b = line (PIXIT)						
	m = line (PIXIT)						
Comments:	, ,						
	SIP		SUT		ISDN		
	a) Without SDP pre-condition						
	INVITE	→		→	SETUP		
	180 Ringing	+		+	ALERTING		
	200 OK INVITE	+		←	CON		
	ACK	→					
			Communication				
	BYE	+		+	DISC		
	200 OK BYE	→		→	REL		
	b) SDP pre-condition met			-1			
	INVITE	→					
	183 Session Progress	+					
	PRACK	→					
	200 OK (PRACK)	+					
	UPDATE	→					
	200 OK (UPDATE)	+		1			
	200 011 (01 27112)	<u> </u>		→	SETUP		
	180 Ringing	+		+	ALERTING		
	PRACK	→		†			
	200 OK (PRACK)	+					
	200 OK INVITE	+		+	CONN		
	ACK	→	1	†-			
		+-	Communication	+			
	BYE	+	Sommanioadon	+	DISC		
	200 OK BYE	→		→	REL		
	1200 OR DIL		1		111		

6.2.1.4 Test purposes for SIP-ISDN, Basic call, UDI

SI_UD_01	ISDN reference to	NGN reference to:					
	EN 300 403-1 [i.3], clause 5.2.1 Q.1912.5 [51], clause 6.1.3 EN 383 001 [49], clause 6.1.3 ES 283 027 [48], clause 7.2.3.1						
TSS reference:	SIP-ISDN/Basic_call/Succ	SIP-ISDN/Basic_call/Successful/UDI					
Selection criteria:							
Test purpose:	channels is performed cor	e active	call state (N10) the	data	transfer on the media and B-		
ISDN Parameter values:	SETUP = UDI;						
SIP Parameter values:	Dial string parameters opti	ions=PIX	IIT				
	PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition						
	a = line : rtpmap: <dynamic-pt> CLEARMODE/8000 b = line AS: 64 m = RTP/AVP</dynamic-pt>						
Comments:							
	SIP		SUT		ISDN		
	a) Without SDP pre-condit	ion					
	INVITE	→		→	SETUP		
	180 Ringing	+		+	ALERTING		
	200 OK INVITE	+		+	CON		
	ACK	→					
			Communication				
	BYE	+		+	BYE		
	200 OK BYE	→		→	200 OK BYE		
	b) SDP pre-condition met						
	INVITE	→					
	183 Session Progress	+					
	PRACK	→					
	200 OK (PRACK)	+					
	UPDATE	→					
	200 OK (UPDATE)	-					
				→	SETUP		
	180 Ringing	+		′	ALERTING		
	PRACK	→		╁			
	200 OK (PRACK)	/		1			
	200 OK (FKACK)	+		+	CONN		
	ACK	→		+	CONT		
	AOR		Communication	-			
	BYE	+	Communication	+	DISC		
	200 OK BYE	→		→	REL		
	IZUU UN DIE	7			NEL		

SI_UD_03	ISDN reference to:			ICN	reference to:		
31_00_03	EN 300 403-1 [i.3], clause	533		Q.1912.5 [51], clause 6.11			
	EN 300 899-1 [23], clause			383 001 [49], clause 6.11			
	Liv 300 033-1 [23], clause	J. I. I			[48], clause 7.2.3.1		
TSS reference:	SIP-ISDN/Basic_call/Successful/UDI						
Selection criteria:							
Test purpose:	Ensure that the call establish	nment	and the call clearing	g pro	cedure are performed		
	correctly when the calling user clears after answering with a BYE message.						
	The called user shall receive	a DIS	CONNECT messa	ge in	dicating the Cause value		
	# 16 "normal call clearing".						
	Ensure that in the Call Delive			sfer	of tone or announcement on		
	the media channel is perforn	ned co	rrectly.				
ISDN Parameter	SETUP = UDI;						
values:							
SIP Parameter values:	Dial string parameters option	ns=PIX	(IT				
	PIXIT for supported header:						
	Case a) no 100 rel						
	Case b) Supported: 100 rel						
	Case c) Supported: 100 rel a	and pro	econdition				
	a = line : rtpmap: <dynamic-pt> CLEARMODE/8000</dynamic-pt>						
	b = line . rtpmap. <dynamic-f< td=""><td>1 > CL</td><td>-EARIVIODE/6000</td><td></td><td></td></dynamic-f<>	1 > CL	-EARIVIODE/6000				
	b = line AS: 64 m = RTP/AVP						
Comments:	III = IXII /AVI						
Comments.	SIP		SUT		ISDN		
	a) Without SDP pre-condition						
	INVITE	"→		→	SETUP		
	180 Ringing	+		+	ALERTING		
	200 OK INVITE	+		+	CON		
	ACK	→			0011		
	RE-INVITE	→		1			
	200 OK	+		1			
	ACK	→		1			
	7.0.1	+	Communication				
	BYE	+	Communication	+	DISC		
	200 OK BYE	→		→	REL		
	b) SDP pre-condition met						
	INVITE	→					
	183 Session Progress	+		1			
	PRACK	→		1			
	200 OK (PRACK)	+		1			
	UPDATE	→		1			
	200 OK (UPDATE)	+		1			
	, ,			→	SETUP		
	180 Ringing	+		+			
	200 OK INVITE	+		+			
	ACK	→		1			
			Communication	1			
	BYE	+	2 222 273	+	DISC		
	200 OK BYE	→		→	REL		
<u> </u>	1=00 01(01 1		!		J· ·		

SI_UD_04	ISDN reference to:			NGN reference to:			
01_00_04	EN 300 403-1 [i.3], clause \$	5 2 2		_	[51], clause 6.11		
	EN 300 899-1 [23], clause 3				1 [49], clause 6.11		
					' [48], clause 7.2.3.1		
TSS reference:	SIP-ISDN/Basic_call/Succes	SIP-ISDN/Basic call/Successful/UDI					
Selection criteria:							
Test purpose:	Ensure that the call clearing	proce	dure is performed c	orrec	tly when the called user clears		
	after answering with a DISCO	DNNE	CT message indica	ating t	he Cause value # 16 "normal		
	call clearing".						
	The calling user shall receive						
	A reason header field with va			EN 3	83 001 [49] and		
	ES 283 027 [48], optional in 0	Q.191	2.5 [51].				
ISDN Parameter	SETUP = UDI;						
values:	<u> </u>	51)	/ -				
SIP Parameter values:	Dial string parameters option	s=PIX	(IT				
	PIXIT for supported header:						
	Case a) no 100 rel						
	Case b) Supported: 100 rel						
	Case c) Supported: 100 rel a	nd pre	econdition				
	a = line : rtpmap: <dynamic-p< td=""><td>T> Cl</td><td>_EARMODE/8000</td><td></td><td></td></dynamic-p<>	T> Cl	_EARMODE/8000				
	b = line AS: 64						
•	m = RTP/AVP						
Comments:	OID	1	OUT	1	IODNI		
	SIP		SUT		ISDN		
	a) Without SDP pre-condition INVITE	<u>'</u> →		→	ICETUD.		
		-		 7	SETUP ALERTING		
	180 Ringing 200 OK INVITE	+		+	CON		
	ACK	→		_	CON		
	ACK	7	Communication				
	BYE	+	Communication	+	DISC		
	200 OK BYE	→		→	REL		
	b) SDP pre-condition met	7		7	REL		
	INVITE	→		1	T		
	183 Session Progress	/					
	PRACK	→					
	200 OK (PRACK)	+					
	UPDATE	→					
	200 OK (UPDATE)	′					
	200 011 (01 27112)	+ -		→	SETUP		
	180 Ringing	+		+	ALERTING		
	PRACK	→		+	,		
	200 OK (PRACK)	′			<u> </u>		
	200 OK INVITE	+		+	CONN		
	ACK	→		Ť			
		† -	Communication	+			
	BYE	+	2 31111101110011011	+	DISC		
	200 OK BYE	→		→	REL		
		<u> </u>	<u>I</u>		<u>ı· -==</u>		

SI_UD_05	ISDN reference to: EN 300 403-1 [i.3],clause EN 300 899-1 [23], clause	[i.3], clause 5.2.1 Q.1912.5 [51], clause 6.1.1 23], clause 3.1.1 EN 383 001 [49], clause], clause 6.1.1, 6.1.3
TSS reference:	SIP-ISDN/Basic_call/Succe				
Selection criteria:	SIP Profile A or Q.1912.5 [
Test purpose:	Ensure that call establishm performed correctly. During shall be included in the SE description value #1 "call is	call es ΓUP me	tablishment a Progressage sent to the c	ress i	ndicator information element
ISDN Parameter values:	SETUP = UDI				
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line : rtpmap: <dynamic-pt> CLEARMODE/8000 b = line AS: 64 m = RTP/AVP</dynamic-pt>				
Comments:					
	SIP		SUT		ISDN
	INVITE	→		→	SETUP PI #1
	100 Trying	+			
				←	CALL PROC
	180 Ringing	+		+	ALERT
	PRACK	→			
	200 OK (PRACK)	+			
	200 OK INVITE	+		+	CON
	ACK	→			
			Communication		
	BYE	+		+	DISC
	200 OK BYE	→		→	REL
		is not o	conform to the ETSI	ISDI	N basic standard regarding

SI_UD_06	ISDN reference to:		NGN reference to:				
	EN 300 403-1 [i.3], clause 5.2.1		EN 383	001	[49], clause 6.1.1		
	EN 300 899-1 [23], claus	e 3.1.1	ES 283	027	[48], clause 7.2.3.1		
TSS reference:	SIP-ISDN/Basic_call/Succes	SIP-ISDN/Basic_call/Successful/UDI					
Selection criteria:	In case of UDI, the FCI is se	ent with "N	No interworking en	coun	tered" and "Originating		
	access is ISDN"						
Test purpose:	Ensure that call establishme						
				ss in	dicator information element		
ISDN Parameter	shall not be included in the SETUP = UDI	e SETUP	message.				
values:	SETUP = UDI						
SIP Parameter values:	Dial string parameters option	nc_DIYIT					
SIF Farameter values.	Diai string parameters option	119=11/11					
	PIXIT for supported header:						
	Case a) no 100 rel						
	Case b) Supported: 100 rel						
	Case c) Supported: 100 rel	and preco	ondition				
	,	•					
	a = line : rtpmap: <dynamic-l< td=""><td>PT> CLE</td><td>ARMODE/8000</td><td></td><td></td></dynamic-l<>	PT> CLE	ARMODE/8000				
	b = line AS: 64						
	m = RTP/AVP						
Comments:			T	ı			
	SIP		SUT		ISDN		
	a) Without SDP pre-condition		Г		10==::=		
	INVITE	→		→	SETUP		
	100 Trying	+		_	0411 5500		
	100 8:			-	CALL PROC		
	180 Ringing	-		-	ALERT		
	200 OK INVITE	+		+	CON		
	ACK	→	0				
	DVE		Communication	,	DICC		
	BYE	←		+	DISC		
	200 OK BYE	7		→	REL		
	b) SDP pre-condition met INVITE	→			T		
		+					
	183 Session Progress PRACK	→					
	200 OK (PRACK)	+					
	UPDATE	→					
	200 OK (UPDATE)	+					
	ZOO OK (OI DAIL)			→	SETUP		
	180 Ringing	+		/			
	PRACK	→		—	ALLINING		
	200 OK (PRACK)	-					
	200 OK INVITE	+		+	CONN		
	ACK	→		<u> </u>			
	7.5.7	-	Communication				
	BYE	+	2 dilling in oation	+	DISC		
	200 OK BYE	→		→	REL		
	UU UN DIE 7 7 KEL						

6.2.1.5 Test purposes for SIP-ISDN, Basic call, Unsuccessful

Unsuccessful

SI_XX_U01	ISDN reference to: EN 300 403-1 [i.3], clauses 5.1.4, G.1.1	Q.1912.5 EN 383 00	reference to: [51], clause 6.11 1 [49], clause 6.11 [48], clause 7.2.3.1				
TSS reference:	SIP-ISDN/Basic_call/Unsuccessfo						
Selection criteria:							
Test purpose:	Ensure that, when calling to unallocated number , the network initiate call clearing to the calling user with a Not Found message. If the Reason Header field is implemented the cause value #1 "unassigned number" should be mapped to the Reason Header field. (According ES 283 027 [48] and EN 383 001 [49] the Reason Header field shall be added to the SIP final response)						
ISDN Parameter	SETUP = PIXIT						
values:							
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)						
Comments:							
	SIP	SUT	ISDN				
	INVITE ->						
	100 Trying						
	404 Not Found						
	ACK →						

SI_XX_U02	ISDN reference to:	NGN reference to:				
	EN 300 403-1 [i.3],	Q.1912.5 [51], clause 6.11				
	clauses 5.1.4, G.1.1	EN 383 001 [49], clause 6.11				
		ES 283 027 [48], clause 7.2.3.1				
TSS reference:	SIP-ISDN/Basic_call/Unsuccessfu					
Selection criteria:						
Test purpose:	Ensure that the call will be released when there is no route to destination . The network initiates call clearing to the calling user with a 500 Server Internal Error. If the Reason Header field is implemented the cause value # 3 "no route to destination should be contained in the Reason Header field. (According ES 283 027 [48] and EN 383 001 [49] the Reason Header field shall be					
ISDN Parameter	added to the SIP final response) SETUP = PIXIT					
values:	SETOT = TIXIT					
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)					
Comments:	0.0					
	SIP	SUT ISDN				
	INVITE -					
	100 Trying ←					
	500 Server Internal Error ←					
	ACK →					

SI_XX_U03	ISDN reference to:		NGN reference to: Q.1912.5 [51], clause 6.11					
	EN 300 403-1 [i.3], clauses 5.2.5.1, G.1.7		EN 383 001 [49], clause 6.11					
	0144303 0.2.0.1, 0.1.7		ES 283 027 [48], clause 7.2.3.1					
TSS reference:	SIP-ISDN/Basic_call/Unsuccessfo	ful						
Selection criteria:								
Test purpose:	Ensure that, when the called user is user determined user busy the network initiate call clearing to the calling user with a 486 Busy Here message. If the Reason Header field is implemented the cause value # 17 should be contained in the Reason Header field. (According ES 283 027 [48] and EN 383 001 [49] the Reason Header field shall be added to the SIP final response)							
ISDN Parameter	SETUP = PIXIT							
values:								
SIP Parameter values: Comments:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)							
Comments.	In the Request-URI a sip: URI with the user=phone parameter, and the user info part of that URI is an E.164 number encoded as specified by the telephone-subscriber rule of RFC 3966 [26].							
	SIP		SUT	ISDN				
		→	→	SETUP				
		(DEI 2014D #47				
	100 = 0.0 / 11010	(+	REL_COMP #17				
	ACK -	→						

SI_XX_U04	ISDN reference to: EN 300 403-1 [i.3], clauses 5.2.5.4, G.1.9		Q.19 EN 38	12.5 3 00	reference to: 5 [51], clause 6.11 01 [49], clause 6.11 7 [48], clause 7.2.3.1	
TSS reference:	SIP-ISDN/Basic_call/Unsuccessfu	ul				
Selection criteria:						
Test purpose:	Ensure that when there is no answer from the called user ("no user responding"), the network initiate call clearing to the calling user with a 480 Temporarily unavailable message. If the Reason Header field is implemented the cause value # 18 should be contained in the Reason Header field. (According ES 283 027 [48] and EN 383 001 [49] the Reason Header field shall be added to the SIP final response)					
ISDN Parameter	SETUP = PIXIT					
values:						
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)					
Comments:	In the Request-URI a sip: URI with the user=phone parameter, and the user info part of that URI is an E.164 number encoded as specified by the telephone-subscriber rule of RFC 3966 [26].					
	SÍP		SUT		ISDN	
	INVITE -	>		→	SETUP	
	100 Trying		_			
	480 Temporarily unavailable					
	ACK -	>				

SI_XX_U05	ISDN reference to: EN 300 403-1 [i.3], clauses 5.2.5.4, G.1.9	Q.19 EN 38	12.5 3 00	reference to: 5 [51], clause 6.11 01 [49], clause 6.11 7 [48], clause 7.2.3.1		
TSS reference:	SIP-ISDN/Basic_call/Unsuccessful					
Selection criteria:				(II)		
Test purpose:	Ensure that when there is no answer from the called user ("no answer from the user"), the ISDN network initiate call clearing to the calling user with a 480 Temporarily unavailable message. If the Reason Header field is implemented the cause value # 102 should be contained in the Reason Header field. (According ES 283 027 [48] and EN 383 001 [49] the Reason Header field shall be					
ISDN Parameter	added to the SIP final response) SETUP = PIXIT					
values:	SETUP = FIXIT					
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT)					
	m = line (PIXIT)					
Comments:						
	SIP	SUT		ISDN		
	INVITE →		→	SETUP		
	100 Trying ←					
	180 Ringing ←		←	ALERTING		
		ISUP T9 expired				
	480 Temporarily ← unavailable		→	DISC #102		
			←	RELEASE		
	ACK →		→	REL COMP		

SI_XX_U06	ISDN reference EN 300 403-1 [clauses 5.2.5.4,	i.3],	EN:	1912.5 [5 383 001	ference to: [1], clause 6.11 [49], clause 6.11 [8], clause 7.2.3.1		
TSS reference:	SIP-ISDN/Basic_call/Un	successful/					
Selection criteria:	Basic call; Reason Head						
Test purpose:	SIP network initiate call send to the calling user	Ensure that when there is no answer from the called user (but user alerted) and if the SIP network initiate call clearing before the SCN release the call, the SIP network shall send to the calling user a 480 Temporarily unavailable message and the SCN network initiate call clearing to the calling user with a DISCONNECT message indicating cause					
ISDN Parameter values:	BC = PIXIT						
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)						
Comments:	10511	T T		1	0.15		
	ISDN		SUT		SIP		
	SETUP ← INVITE CALL PROCEEDING → .						
	ALERTING DISC#20	→		→	180 Ringing 480 temp. Unavailable		
	REL	`		\	ACK		

SI_XX_U07	ISDN reference to:	ISDN reference to: NGN reference to:					
	EN 300 403-1 [i.3],				[51], clause 6.11		
	clauses 5.1.9, 5.3.2, G.1.	10			1 [49], clause 6.11		
		ES 283 027 [48], clause 7.2.3.1					
TSS reference:	SIP-ISDN/Basic_call/Unsucce	ssful					
Selection criteria:							
Test purpose:	Ensure that when the called user rejects the call and responds with a RELEASE COMPLETE message indicating cause value # 21 "call rejected", the call will be released. The network initiates call clearing to the calling user with a 480 Temporarily unavailable message. If the Reason Header field is implemented the cause value # 21 should be contained in the Reason Header field. (According ES 283 027 [48] and EN 383 001 [49] the Reason Header field shall be						
	added to the SIP final respons						
ISDN Parameter values:	SETUP = PIXIT	-,					
SIP Parameter values:	Dial string parameters options	=PIXIT					
	PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition						
	a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)						
Comments:							
	SIP		SUT		ISDN		
	INVITE	→		→	SETUP		
	100 Trying	+					
	480 Temporarily	+		+	REL COMP # 21		
	unavailable						
	ACK	→					

SI_XX_U08	ISDN reference to: EN 300 403-1 [i.3], clauses 5.2.5.4, G.1.9	NGN reference to: Q.1912.5 [51], clause 6.11 EN 383 001 [49], clause 6.11 ES 283 027 [48], clause 7.2.3.1			
TSS reference:	SIP-ISDN/Basic_call/Unsuccessful				
Selection criteria:					
Test purpose:	Ensure that when the number is changed, the network initiate call clearing to the calling user with a 410 Gone message. If the Reason Header field is implemented the cause value # 22 ("number changed") should be contained in the Reason Header field. (According ES 283 027 [48] and EN 383 001 [49] the Reason Header field shall be added to the SIP final response)				
ISDN Parameter	SETUP = PIXIT				
values:					
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and preco a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)	ndition			
Comments:		0.17			
	SIP INVITE → 100 Trying ← 410 Gone ←	SUT ISDN			
	ACK →				

SI_XX_U09	ISDN reference to: EN 300 403-1 [i.3], clauses 5.2.5.4, G.1.9	Q.191 EN 383	12.5 3 00	reference to: [51], clause 6.11 1 [49], clause 6.11 [48], clause 7.2.3.1			
TSS reference:	SIP-ISDN/Basic_call/Unsuccessful						
Selection criteria:							
Test purpose:	Ensure that when the destination is out of order , the network initiate call clearing to the calling user with a 502 Bad Gateway message. If the Reason Header field is implemented the cause value Cause Value No. 27 ("destination out of order") should be contained in the Reason Header field. (According ES 283 027 [48] and EN 383 001 [49] the Reason Header field shall be added to the SIP final response)						
ISDN Parameter	SETUP = PIXIT						
values:							
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)						
Comments:	In the Request-URI a sip: URI with the user=phone parameter, and the user info part of that URI is an E.164 number encoded as specified by the telephone-subscriber rule of RFC 3966 [26].						
	SIP	SUT		ISDN			
	INVITE →		→	SETUP			
	100 Trying ←						
	502 Bad Gateway			REL # 27			
	ACK →		→	RLC			

SI_XX_U10	ISDN reference to: EN 300 403-1 [i.3], clauses 5.1.9, 5.3.2, G.1.10	Q.19 EN 38	12.5 3 00	reference to: [51], clause 6.11 1 [49], clause 6.11 [48], clause 7.2.3.1			
TSS reference:	SIP-ISDN/Basic_call/Unsuccessful						
Selection criteria:							
Test purpose:	Ensure that the call will be released when the called number is incomplete. The network initiates call clearing to the calling user according the CAUSE_VA interworking to SIP_MESSAGE_VA. If the Reason Header field is implemented the cause value should be contained in Reason Header field. (According ES 283 027 [48] and EN 383 001 [49] the Reason Header field shall be added to the SIP final response)						
ISDN Parameter	SETUP = PIXIT						
values:							
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)						
Comments:	CID	CLIT		ICDN			
	SIP INVITE → 100 Trying ← SIP MESSAGE VA ←	SUT	→	ISDN SETUP			
	ACK +						

SI_XX_U10					
	SIP_MESSAGE_VA	CAUSE_VA PSTN cause (Destination number PIXIT)			
VA_1	404 Not Found	value # 1 "Unassigned (unallocated) number"			
VA_2	500 server internal error	value # 3 "No route to destination"			
VA_3	410 Gone	value # 22 "Number changed"			
VA_4	484 Address Incomplete	value# 28 "Invalid number format (incomplete number")			

SI_XX_U11	ISDN reference to: EN 300 403-1 [i.3], clauses 5.2.5.4, G.1.9		Q.19 EN 38	reference to: [51], clause 6.11 1 [49], clause 6.11 [48], clause 7.2.3.1			
TSS reference:	SIP-ISDN/Basic_call/Unsuccessful						
Selection criteria:							
Test purpose:	Ensure that when the call is released with Cause Value No. 31 ("normal unspecified"), the network initiate call clearing to the calling user with a 480 Temporarily unavailable message. If the Reason Header field is implemented the cause value # 31 should be contained in the Reason Header field. (According ES 283 027 [48] and EN 383 001 [49] the Reason Header field shall be added to the SIP final response)						
ISDN Parameter	SETUP = PIXIT	•					
values:							
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)						
Comments:	OLD		OUT		10001		
	SIP		SUT	_	ISDN		
	INVITE → SETUP						
	100 Trying 480 Temporarily unavailable	+		-	RELEASE #31		
	ACK	→		→	REL_COMP		

SI_XX_U12	ISDN reference to: EN 300 403-1 [i.3], clause G.1.6	NGN reference to: Q.1912.5 [51], clause 6.11 EN 383 001 [49], clause 6.11 ES 283 027 [48], clause 7.2.3.1						
TSS reference:	SIP-ISDN/Basic_call/Unsuccessful	SIP-ISDN/Basic_call/Unsuccessful						
Selection criteria:	Multipoint Configuration: for the calle	d side						
Test purpose:	Ensure that when the calling user cleanswer from called user.	ears the call with a SIF	P_MESSAGE_VA before					
SDN Parameter values:	SETUP = PIXIT							
SIP Parameter values:	Dial string parameters options=PIXIT	-						
	PIXIT for supported header:							
	Case a) no 100 rel							
	Case b) Supported: 100 rel							
	Case c) Supported: 100 rel and pred	ondition						
	a = line (PIXIT)							
	b = line (PIXIT)							
	m = line (PIXIT)							
Comments:	2.5							
	SIP	SUT	ISDN					
	INVITE ->	→	SETUP					
	100 Trying ←							
		-	CALL PROC					
	180 Ringing ←	+	ALERT					
	SIP_MESSAGE_VA →	→	DISC					
	200 OK ←	←	REL					
	487 Request terminated							
	ACK →							

SIP_MESSAGE_VA: SI_XX_U12					
VA_1	CANCEL				
VA 2	BYE				

SI_XX_U13	ISDN reference to:	NGN	NGN reference to:				
	EN 300 403-1 [i.3], clause G.1.6		5 [51], clause 6.11				
			01 [49], clause 6.11				
	ES 283 027 [48], clause 7.2.3.						
TSS reference:	SIP-ISDN/Basic_call/Unsuccessful						
Selection criteria:	Point-to-point Configuration: for the ca						
Test purpose:	Ensure that the SUT in the Idle state on receipt of a INVITE message, sending out a SETUP message, having received a CALL PROCEEDING, on receipt of an RELEASE, where the cause value defined as CV_ISDN, the SUT immediately requests the disconnection of the internal bearer path. the SUT shall send the appropriate SIP status defined as SIP_FAILURE_VA The ISDN Cause Value field in the ISDN RELEASE message is mapped to the Reason header field if implemented						
	According ES 283 027 [48] and EN 38	33 001 [49] the Reaso	on Header field shall be added				
	to the SIP final response.						
ISDN Parameter	SETUP = PIXIT						
values:							
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)						
Comments:	0.0						
	SIP	SUT	ISDN				
	INVITE → SETUP						
	OID MESSAGE VA	-	CALL PROC				
	SIP_MESSAGE_VA ←	(RELEASE				
	ACK →	←	REL COMP				

	Values for	r test purposes SI_XX_U13
←SIP Me	ssage	←DISC
SIP_FAIL	URĔ_VA	Cause Indicators parameter
CV_SIP	_	CV_ISDN .
VA_1	486 Busy Here Cause Value No. 17	Cause Value No. 17 ("user busy")
VA_2	480 Temporarily unavailable Cause Value No. 18	Cause Value No. 18 ("No user responding")
VA_3	480 Temporarily unavailable Cause Value No. 21	Cause Value No. 21 ("all rejected")
VA_4	410 Gone Cause Value No. 23	Cause Value No. 22 ("number changed")
VA_5	502 Bad Gateway Cause Value No. 27	Cause Value No. 27 ("destination out of order")
VA_6	484 Address Incomplete Cause Value No. 28	Cause Value No. 28 ("invalid number format (address incomplete")
VA_7	480 Temporarily unavailable Cause Value No. 31	Cause Value No. 31 ("normal unspecified") (Class default)
VA_8	500 Server Internal Error Cause Value No. 47	Cause Value in the Class 010 (resource unavailable, Cause Value No. 38-47) (47 is class default)
VA_9	500 Server Internal Error Cause Value No. 63	Cause Value No. 63 ("service option not available, unspecified") (Class default)
VA_10	500 Server Internal Error Cause Value No. 88	Cause Value No. 88 ("incompatible destination")
VA_11	500 Server Internal Error Cause Value No. 111	Cause Value No. 111 ("protocol error, unspecified") (Class default)

SI_XX_U14	ISDN reference to: EN 300 403-1 [i.3], clause G.1.6	Q.1912.5 EN 383 00	reference to: [51], clause 6.11 1 [49], clause 6.11 ' [48], clause 7.2.3.1			
TSS reference:	SIP-ISDN/Basic_call/Unsuccessful					
Selection criteria:	Point-to-point Configuration: for the c					
Test purpose:	Ensure that the SUT in the Idle state on receipt of a INVITE message, sending out a SETUP message, having received a ALERTING message, on receipt of an DISCONNECT where the cause value defined as CV_ISDN, the SUT immediately requests the disconnection of the internal bearer path. the SUT shall send SIP_FAILURE_VA message The Cause Value field in the DISCONNECT message is mapped to the Reason header field if implemented (According ES 283 027 [48] and EN 383 001 [49] the Reason Header field shall be					
ISDN Parameter	added to the SIP final response) SETUP = PIXIT		-			
values:	SETUP = FIXIT					
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)					
Comments:						
	SIP SUT ISDN INVITE → SETUP					
	INVITE -	SETUP				
	180 Ringing ←		ALERTING			
	SIP_MESSAGE_VA ←	+	DISC			
	ACK →	→	REL			

	Values for test purposes SI_XX_U14					
←SIP M	←SIP Message ←DISC					
SIP_FAI	LURE_VA	Cause Indicators parameter				
CV_SIP		CV_ISDN				
VA_1	480 Temporarily unavailable Cause Value No. 21	Cause Value No. 21 ("all rejected")				
VA_2	502 Bad Gateway Cause Value No. 27	Cause Value No. 27 ("destination out of order")				
VA_3	480 Temporarily unavailable Cause Value No. 31	Cause Value No. 31 ("normal unspecified") (Class default)				
VA_4	500 Server Internal Error Cause Value No. 38	Cause Value No. 38 ("Network out of order")				
VA_5	500 Server Internal Error Cause Value No. 41	Cause Value No. 41 ("Temporary failure ")				
VA_6	500 Server Internal Error Cause Value No. 111	Cause Value No. 111 ("protocol error, unspecified") (Class default)				

SI_XX_U15	ISDN reference to: EN 300 403-1 [i.3], clause G.1.6	EN 3	912.5 83 00	l reference to: 5 [51], clause 6.11 01 [49], clause 6.11 7 [48], clause 7.2.3.1			
TSS reference:	SIP-ISDN/Basic_call/Unsuccessful						
Selection criteria:	Point-to-point Configuration: for th	e called side					
	Cause Value is mapped to the Re-						
Test purpose:	Ensure that the SUT in the Idle state on receipt of a INVITE message, sending out a SETUP message, having received a ALERTING message, having received a CONNECT", a 200 OK message is sent, on receipt of an DISCONNECT where the cause value defined as CV_ISDN, the SUT immediately requests the disconnection of the internal bearer path. the SUT shall send BYE message The Cause Value field in the DISCONNECT message is mapped to the Reason header field if implemented (According ES 283 027 [48] and EN 383 001 [49] the Reason Header field shall be added to the SIP final response)						
ISDN Parameter	SETUP = PIXIT						
values:							
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)						
Comments:							
	SIP	SUT	1	ISDN			
	INVITE -		→	SETUP			
	180 Ringing ←		-	ALERTING			
	200 OK INVITE		-	CONNECT			
	BYE •		(DISC			
	200 OK BYE →		→	REL			

	Values for test purposes SI_XX_U15					
←SIP Message		←DISC				
	LURĔ_VA	Cause Indicators parameter				
CV_SIP		CV_ISDN				
VA_1	BYE	Cause Value No. 16				
	Cause Value No. 16					
VA_2	BYE	Cause Value No. 27 ("destination out of order")				
	Cause Value No. 27					
VA_3	BYE	Cause Value No. 31 ("normal unspecified")				
	Cause Value No. 31	(Class default)				
VA_4	BYE	Cause Value No. 38 ("Network out of order")				
_	Cause Value No. 38	,				
VA_5	BYE	Cause Value No. 41 ("Temporary failure ")				
_	Cause Value No. 41					

SI_XX_U16	ISDN reference to: EN 300 403-1 [i.3], clause G	.1.6	Q.19 EN 38	12.5 33 00	reference to: [51], clause 6.11 1 [49], clause 6.11 [48], clause 7.2.3.1
TSS reference:	SIP-ISDN/Basic_call/Unsucces				
Selection criteria:	ISDN = point to point Configura				
Test purpose:	Ensure that the call will be releaddress Incomplete on the SIF call state U02 when the called	side a	fter the expire of	ecov time	ery on timer expiry) 484 r T 304 when called user is in
ISDN Parameter values:	SETUP = PIXIT		·		
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)				
Comments:	In the Request-URI a sip: URI that URI is an E.164 number en RFC 3966 [26].				
	SIP		SUT		ISDN
	INVITE	→			
	100 Trying	+		→	SETUP
				+	SETUP ACK
				→	INFO SC (optional)
				→	RELEASE # 102
	484 Address Incomplete	<u>+</u>		→	REL_COMP
	ACK	→			

SI_XX_U17	ISDN reference to: EN 300 403-1 [i.3], clause G.1.6	NGN reference to: Q.1912.5 [51], clause 6.11 EN 383 001 [49], clause 6.11 ES 283 027 [48], clause 7.2.3.1					
TSS reference:	SIP-ISDN/Basic_call/Unsuccessful						
Selection criteria:							
Test purpose:	During the session, the calling user decides to change the characteristics of the me session. This is accomplished by sending a re-INVITE containing a new media description. This re-INVITE references the existing dialog so that the other party know that it is to modify an existing session instead of establishing a new session. Ensure if the other party (the GW) does not accept the change, he sends an error response as 488 (Not Acceptable Here), which also receives an ACK. The session remains in active state.						
ISDN Parameter values:	SETUP = PIXIT						
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)						
Comments:		T					
	SIP	SUT		ISDN			
	INVITE →		→	SETUP			
			(ALERTING			
			+	CONN			
	ACK →	Communication					
	DE INIVITE -	Communication					
	RE-INVITE + 484 Not Acceptable Here +						
	484 Not Acceptable Here ← ACK →						
	,	Communication					
	BYE 🗲	2 3	+	Disconnect			
	200 OK BYE →		→	Release			

SI_XX_U18	ISDN reference to: EN 300 403-1 [i.3], clause G.1.6	NGN reference to: Q.1912.5 [51], clause6.11 RFC 3261 [28], clause 4
TSS reference:	SIP-ISDN/Basic_call/Unsuccessful	
Selection criteria:		
Test purpose:	Ensure that upon receiving a 421 (Extension Required) response to an initial INVITE request in which the precondition mechanism was not used, including the "precondition" option tag in the Require header, the originating UE shall send a new INVITE request using the precondition mechanism, if the originating UE supports the precondition mechanism.	
ISDN Parameter	SETUP = PIXIT	
values:		
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)	
Comments:		

SI_XX_U19	ISDN reference to: EN 300 403-1 [i.3], clause G.1.6	NGN reference to: Q.1912.5 [51], clause6.11 RFC 3261 [28], clause 4
TSS reference:	SIP-ISDN/Basic_call/Unsuccessful	
Selection criteria:		
Test purpose:	Ensure that if a codec is required and the MGCF does not find an available matching codec at the MGW for the received initial INVITE request, the MGCF shall: • send 503 (Service Unavailable) response if the type of codec was acceptable but none were available; or • send 488 (Not Acceptable Here) response if the type of codec was not supported, and may include SDP in the message body to indicate the codecs supported by the MGCF/MGW.	
ISDN Parameter	SETUP = PIXIT	
values:		
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)	
Comments:		

6.2.2 Test purposes for SIP - ISDN Supplementary services

6.2.2.1 OIP/CLIP

SI_XXSSOIP01	ISDN reference to: EN 300 092-1 [i.14], clause EN 300 403-1 [i.3], clauses 4.5.10, 4.5.11		NGN reference to: Q.1912.5 [51], clause 6.1.3.6 EN 383 001 [49], clause 6.1.3.6 ES 283 027 [48], clause 7.2.3.1.2.6 TS 183 007 [43]				
TSS reference:	Private Extensions to SIP for A	Assert	ed Identity within T	ruste	ed Networks		
Selection criteria:							
Test purpose:	 Ensure that the SUT in the Idle state, on receipt of a INVITE message where: the SIP P-Preferred-Identity containing a SIP URI (PIXIT) with an identity in the format of a tel URI has not been received the priv-value component is set to "none" the SIP From header field containing a URI with an identity in the format of a tel URI has not been received and the Calling Party Number is correctly delivered to the called (served) user with the Calling party information element coded: Address signals = default number derived from the P-Asserted-Identity Screening indicator = network provided Numbering plan indicator = ISDN numbering plan Address Presentation Restricted Indicator = Presentation allowed 						
SIP Parameter values:	PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel	Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT)					
Comments:							
	SIP		SUT		ISDN		
	INVITE	→		→	SETUP		
	180 Ringing	+		+	ALERT		
	200 OK INVITE	+		+	CONN		
	ACK	→					
	BYE	+		+	DISC		
	200 OK BYE	→		→	REL		

SI_XXSSOIP02	ISDN reference to: EN 300 092-1 [i.14], clause EN 300 403-1 [i.3], clauses 4.5.10, 4.5.11		EN 38 ES 283	912.5 83 00 027 TS	N reference to: [51], clause 6.1.3.6 1 [49], clause 6.1.3.6 [48], clause 7.2.3.1.2.6 183 007 [43]	
TSS reference:	Private Extensions to SIP for A					
Selection criteria:	The user subscribes OIR "temp No priv value is sent Special arrangement applies	-				
Test purpose:	 Ensure that the SUT in the Idle state, on receipt of a INVITE message where the SIP P-Preferred-Identity containing a SIP URI (PIXIT) with an identity in the format of a tel URI has not been received No priv value is received the SIP From header field containing a SIP URI (PIXIT) with an identity in the format of a tel URI has been received the Calling Party Number is correctly delivered to the called (served) user with the 1stCalling party information element coded: Address signals = default number derived from the From header Screening indicator = user provided not verified Numbering plan indicator = ISDN numbering plan Address Presentation Restricted Indicator = Presentation allowed 2ndCalling party information element coded: Address signals = default number derived from the P-Asserted-Identity Screening indicator = network provided Numbering plan indicator = ISDN numbering plan 					
SIP Parameter values:	- Address Presentation Restricted Indicator = Presentation allowed Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)					
Comments:						
	SIP		SUT	 	ISDN	
	INVITE	<u>→</u>		→	SETUP	
	180 Ringing	+		(ALERT	
	200 OK INVITE	(+	CONN	
	ACK	→				
	D)/E			 	DIGG	
	BYE			+	DISC	
	200 OK BYE	→		→	REL	

SI_XXSSOIP03	ISDN reference to: EN 300 092-1 [i.14], claus EN 300 403-1 [i.3], clauses 4.5.10, 4.5.1	I	EN 38 ES 283	12.5 33 00 027 TS	N reference to: [51], clause 6.1.3.6 1 [49], clause 6.1.3.6 [48], clause 7.2.3.1.2.6 3 183 007 [43]	
TSS reference:	Private Extensions to SIP for					
Selection criteria:	The user subscribes OIR "tem No priv value is sent No Special arrangement appli	. ,	ode" default "n	ot res	stricted"	
Test purpose:	 Ensure that the SUT in the Idle state, on receipt of a INVITE message where the SIP P-Preferred-Identity containing a SIP URI (PIXIT) with an identity in the format of a tel URI has not been received No priv value is received the SIP From header field containing a SIP URI (PIXIT) with an identity in the format of a tel URI has been received the Calling Party Number is correctly delivered to the called (served) user with the Calling party information element coded: Address signals = default number derived from the P-Asserted-Identity Screening indicator = network provided Numbering plan indicator = ISDN numbering plan Address Presentation Restricted Indicator = Presentation allowed 					
SIP Parameter values:	Dial string parameters options PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel ar a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)		dition			
Comments:						
	SIP		SUT		ISDN	
	INVITE	<u>→</u>		→	SETUP	
	180 Ringing	+		+	ALERT	
	200 OK INVITE ACK	<u>←</u>		+	CONN	
	BYE	+		+	DISC	
	200 OK BYE	<u> </u>		→	REL	
	ZUU UK BYE	7		7	IKEL	

SI_XXSSOIP04	ISDN reference to: EN 300 092-1 [i.14], clause 9 EN 300 403-1 [i.3], clauses 4.5.10, 4.5.11		Q.19 ² EN 383 ES 283 (NGN reference to: Q.1912.5 [51], clause 6.1.3.6 EN 383 001 [49], clause 6.1.3.6 ES 283 027 [48], clause 7.2.3.1.2.6 TS 183 007 [43]				
TSS reference:	Private Extensions to SIP for As	serte	d Identity within T	rust	ed Networks			
Selection criteria:	SIP URI or SIPS URI are used i The user subscribes OIR "tempo No priv value is sent				stricted"			
Test purpose:	 Ensure that the SUT in the Idle state, on receipt of a INVITE message where the SIP P-Preferred-Identity containing a SIP URI (PIXIT) with an identity in the format of a tel URI has not been received no priv value is received the SIP From header field containing a SIP URI (PIXIT) with an identity in the format of a tel URI has not been received the Calling Party Number is correctly delivered to the called (served) user with the Calling party information element coded: Address signals = default number derived from the P-Asserted-Identity Screening indicator = network provided Numbering plan indicator = ISDN numbering plan Address Presentation Restricted Indicator = Presentation allowed 							
SIP Parameter values:	Dial string parameters options=I PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)		ndition					
Comments:								
	SIP		SUT		ISDN			
	INVITE	→		→	SETUP			
	180 Ringing	(+	ALERT			
	200 OK INVITE ACK	<u>←</u>		+	CONN			
	BYE	←		+	DISC			
	200 OK BYE	`		→	REL			
	ZUU OR DIE				INEL			

SI_XXSSOIP05	ISDN reference to: EN 300 092-1 [i.14], clause EN 300 403-1 [i.3], clauses 4.5.10, 4.5.11		Q.19 ² EN 383 ES 283 (12.5 3 001 027 [TS	reference to: [51], clause 6.1.3.6 I [49], clause 6.1.3.6 48], clause 7.2.3.1.2.6 183 007 [43]			
TSS reference:	Private Extensions to SIP for A							
Selection criteria:	The user subscribes OIR "temp Special arrangement applies	orary	mode" default "no	ot res	stricted"			
Test purpose:	 Ensure that the SUT in the Idle state, on receipt of a INVITE message where the SIP From header field containing a SIP URI (PIXIT) with an identity in the format of a tel URI has been received the priv-value component is set to "none" the Calling Party Number is correctly delivered to the called (served) user with the 1stCalling party information element coded: Address signals = default number derived from the From header Screening indicator = user provided not verified Numbering plan indicator = ISDN numbering plan Address Presentation Restricted Indicator = Presentation allowed 2ndCalling party information element coded: Address signals = default number derived from the P-Asserted-Identity Screening indicator = network provided Numbering plan indicator = ISDN numbering plan Address Presentation Restricted Indicator = Presentation allowed 							
SIP Parameter values:	PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel	Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT)						
Comments:								
	SIP		SUT		ISDN			
	INVITE	<u>→</u>		→	SETUP			
	180 Ringing	-		←	ALERT			
	200 OK INVITE ACK	←		+	CONN			
	BYE	+		+	DISC			
	200 OK BYE	→		→	REL			

SI_XXSSOIP06	ISDN reference to: EN 300 092-1 [i.14], clause EN 300 403-1 [i.3], clauses 4.5.10, 4.5.11	9.3	Q.19 EN 38	12.5 [3 001 027 [reference to: [51], clause 6.1.3.6 [49], clause 6.1.3.6 [48], clause 7.2.3.1.2.6 [183 007 [43]	
TSS reference:	Private Extensions to SIP for A					
Selection criteria:	The user subscribes OIR "tem No Special arrangement applies		mode" default "n	ot res	stricted"	
Test purpose:	Ensure that the SUT in the Idle state, on receipt of a INVITE message where the SIP From header field containing a SIP URI (PIXIT) with an identity in the format of a tel URI has been received the priv-value component is set to "none" the Calling Party Number is correctly delivered to the called (served) user with the Calling party information element coded: Address signals = default number derived from the P-Asserted-Identity Screening indicator = network provided Numbering plan indicator = ISDN numbering plan Address Presentation Restricted Indicator = Presentation allowed					
SIP Parameter values:	Dial string parameters options: PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)		ndition			
Comments:						
	SIP		SUT		ISDN	
	INVITE	→		→	SETUP	
	180 Ringing	+		+	ALERT	
	200 OK INVITE	+		+	CONN	
	ACK	→				
	BYE	(+	DISC	
	200 OK BYE	→		→	REL	

SI_XXSSOIP07	ISDN reference to: EN 300 092-1 [i.14], clause 9 EN 300 403-1 [i.3], clauses 4.5.10, 4.5.11		Q.191 EN 383 ES 283 (12.5 3 001 027 [TS	reference to: [51], clause 6.1.3.6 I [49], clause 6.1.3.6 48], clause 7.2.3.1.2.6 183 007 [43]	
TSS reference:	Private Extensions to SIP for As	serte	d Identity within T	ruste	ed Networks	
Selection criteria:	The user subscribes OIR "tempospecial arrangement applies	orary	mode" default "no	ot res	stricted"	
Test purpose:	 Ensure that the SUT in the Idle state, on receipt of a INVITE message where the SIP From header field containing a SIP URI (PIXIT) with an identity in the format of a tel URI has been received No priv value is received the Calling Party Number is correctly delivered to the called (served) user with the 1stCalling party information element coded: Address signals = default number derived from the From header Screening indicator = user provided not verified Numbering plan indicator = ISDN numbering plan Address Presentation Restricted Indicator = Presentation allowed 2ndCalling party information element coded: Address signals = default number derived from the P-Asserted-Identity Screening indicator = network provided Numbering plan indicator = ISDN numbering plan Address Presentation Restricted Indicator = Presentation allowed 					
SIP Parameter values:	Dial string parameters options=I PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)		ndition			
Comments:						
	SIP		SUT		ISDN	
		<u>→</u>		→	SETUP	
	180 Ringing	(←	ALERT	
	200 OK INVITE ACK	←		+	CONN	
	BYE	(+	DISC	
	200 OK BYE	<u>▼</u>		→	REL	
	ZUU UN DIE	7			INLL	

SI_XXSSOIP08	ISDN reference to: EN 300 092-1 [i.14], clause 9.3 EN 300 403-1 [i.3], clauses 4.5.10, 4.5.11	EN	.1912.5 383 001 83 027 [reference to: [51], clause 6.1.3.6 [[49], clause 6.1.3.6 [48], clause 7.2.3.1.2.6 [183 007 [43]				
TSS reference:	Private Extensions to SIP for Asse							
Selection criteria:	The user subscribes OIR "tempora No Special arrangement applies	ary mode" defaul	t "not res	stricted"				
Test purpose:	 Ensure that the SUT in the Idle state, on receipt of a INVITE message where the SIP From header field containing a SIP URI (PIXIT) with an identity in the format of a tel URI has been received no priv value is received the Calling Party Number is correctly delivered to the called (served) user with the Calling party information element coded: Address signals = default number derived from the P-Asserted-Identity Screening indicator = network provided Numbering plan indicator = ISDN numbering plan Address Presentation Restricted Indicator = Presentation allowed 							
SIP Parameter values:	PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT)						
Comments:								
	SIP	SUT		ISDN				
	INVITE -		→	SETUP				
	180 Ringing ←		+	ALERT				
	200 OK INVITE		+	CONN				
	ACK →							
	BYE +		+	DISC				
	200 OK BYE →		→	REL				

SI_XXSSOIP09	ISDN reference to: EN 300 092-1 [i.14], clause 9.3 EN 300 403-1 [i.3], clauses 4.5.10, 4.5.11	EN ES 28	1912.5 383 00 33 027 TS	N reference to: [51], clause 6.1.3.6 11 [49], clause 6.1.3.6 [48], clause 7.2.3.1.2.6 6 183 007 [43]			
TSS reference:	Private Extensions to SIP for Assert						
Selection criteria:	The user subscribes OIR "temporar	/ mode" default '	not res	stricted"			
	Special arrangement applies						
Test purpose:	 Ensure that the SUT in the Idle state, on receipt of a INVITE message where the SIP P-Preferred-Identity containing a SIP URI (PIXIT) in the format of a tel URI has not been received the priv-value component is set to "none" the SIP From header field containing a SIP URI (PIXIT) with an identity in the format of a tel URI has been received the Calling Party Number is correctly delivered to the called (served) user with the 1stCalling party information element coded: Address signals = default number derived from the From header Screening indicator = user provided not verified Numbering plan indicator = ISDN numbering plan Address Presentation Restricted Indicator = Presentation allowed 						
		2ndCalling party information element coded: Address signals = default number derived from the P-Asserted-Identity					
	Screening indicator =Numbering plan indicator	- Screening indicator = network provided - Numbering plan indicator = ISDN numbering plan - Address Presentation Restricted Indicator = Presentation allowed					
SIP Parameter values:	Dial string parameters options=PIXI		<u> </u>	1 resentation anowed			
	PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition						
	a = line (PIXIT)						
	b = line (PIXIT)						
	m = line (PIXIT)						
Comments:							
	SIP	SUT		ISDN			
	INVITE ->		→	SETUP			
	180 Ringing ←		+	ALERT			
	200 OK INVITE		+	CONN			
	ACK →						
	BYE ←		+	DISC			
	200 OK BYE →		→	REL			

SI_XXSSOIP10	ISDN reference to: EN 300 092-1 [i.14], clause 9.3 EN 300 403-1 [i.3], clauses 4.5.10, 4.5.11	EN 3 ES 283	912.5 83 001 3 027 [TS	reference to: [51], clause 6.1.3.6 [49], clause 6.1.3.6 48], clause 7.2.3.1.2.6 183 007 [43]			
TSS reference:	Private Extensions to SIP for Asse						
Selection criteria:	The user subscribes OIR "tempora Special arrangement applies						
Test purpose:	 Ensure that the SUT in the Idle state, on receipt of a INVITE message where: the SIP P-Preferred-Identity containing a SIP URI (PIXIT) in the format of a tel URI has not been received the priv-value component is set to "none" the SIP From header field containing a SIP URI (PIXIT) with an identity in the format of a tel URI has been received the Calling Party Number is correctly delivered to the called (served) user with the Calling party information element coded:						
			cator =	Presentation allowed			
SIP Parameter values:	Dial string parameters options=PIX PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and pre a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)						
Comments:							
	SIP INVITE → 180 Ringing ← 200 OK INVITE ← ACK →	SUT	→ ← ←	ISDN SETUP ALERT CONN			
	BYE		+	DISC			
	200 OK BYE →		→	REL			

SI_XXSSOIP11	ISDN reference to: EN 300 092-1 [i.14], clause 9.3 EN 300 403-1 [i.3], clauses 4.5.10, 4.5.11	EN 3 ES 283	912.5 83 001 3 027 [TS	reference to: [51], clause 6.1.3.6 [49], clause 6.1.3.6 [48], clause 7.2.3.1.2.6 [18]		
TSS reference:	Private Extensions to SIP for Asse	rted Identity within	1 Irust	ed Networks		
Selection criteria:	The user subscribes OIR "tempora	ry mode" default '	'not re	stricted"		
- .	Special arrangement applies		18 IV // T			
Test purpose:	 Ensure that the SUT in the Idle state, on receipt of a INVITE message where: the SIP P-Preferred-Identity containing a SIP URI (PIXIT) in the form URI has not been received no priv value is received the SIP From header field containing a SIP URI (PIXIT) with an iden format of a tel URI has been received 					
				the called (served) user with		
	the 1stCalling party info - Address signals = c - Screening indicator	efault number der	rived fr	om the From header		
	 Numbering plan ind 					
				Presentation allowed		
	2ndCalling party information element coded:					
	 Address signals = default number derived from the P-Asse Screening indicator = network provided Numbering plan indicator = ISDN numbering plan 					
			cator =	Presentation allowed		
SIP Parameter values:	Dial string parameters options=PIX	ίΙΤ				
	PIXIT for supported header:					
	Case a) no 100 rel					
	Case b) Supported: 100 rel					
	Case c) Supported: 100 rel and precondition					
	a = line (PIXIT)					
	b = line (PIXIT)					
	m = line (PIXIT)					
Comments:						
	SIP	SUT		ISDN		
	INVITE →		→	SETUP		
	180 Ringing ←		+	ALERT		
	200 OK INVITE ←		+	CONN		
	ACK →					
	BYE +		+	DISC		
	200 OK BYE →		→	REL		

SI_XXSSOIP12	ISDN reference to: EN 300 092-1 [i.14], clause 9. EN 300 403-1 [i.3], clauses 4.5.10, 4.5.11		Q.19 [,] EN 38 [,] ES 283 (12.5 3 001 027 [TS	reference to: [51], clause 6.1.3.6 [49], clause 6.1.3.6 48], clause 7.2.3.1.2.6 183 007 [43]		
TSS reference:	Private Extensions to SIP for Ass						
Selection criteria:	The user subscribes OIR "tempor No Special arrangement applies						
Test purpose:	 Ensure that the SUT in the Idle state, on receipt of a INVITE message where: the SIP P-Preferred-Identity containing a SIP URI (PIXIT) in the format of a tel URI has not been received no priv value is received the SIP From header field containing a SIP URI (PIXIT) with an identity in the format of a tel URI has been received the Calling Party Number is correctly delivered to the called (served) user with the Calling party information element coded:						
SIP Parameter values:	Dial string parameters options=P		restricted marca	101 –	resentation anowed		
	PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition $a = line (PIXIT)$						
	b = line (PIXIT) m = line (PIXIT)						
Comments:	III - IIII (1 1/41)						
	SIP		SUT		ISDN		
	INVITE -	>		→	SETUP		
	180 Ringing	-		+	ALERT		
	200 OK INVITE	-		+	CONN		
	ACK =)					
	BYE			+	DISC		
	200 OK BYE	<u> </u>		→	REL		

SI_XXSSOIP13	ISDN reference to: EN 300 092-1 [i.14], clause EN 300 403-1 [i.3], clauses 4.5.10, 4.5.11	9.3	Q.19 ² EN 383	12.5 3 001 027 [reference to: [51], clause 6.1.3.6 [49], clause 6.1.3.6 48], clause 7.2.3.1.2.6 183 007 [43]		
TSS reference:	Private Extensions to SIP for A	sserted	Identity within T	ruste	d Networks		
Selection criteria:	The user subscribes OIR "temp						
Test purpose:	Ensure that the SUT in the Idle state, on receipt of a INVITE message where: the SIP P-Preferred-Identity containing a SIP URI (PIXIT) in the format of a tel URI has been received the priv-value component is set to "none" the SIP From header field containing a SIP URI (PIXIT) in the format of a tel URI has not been received the Calling Party Number is correctly delivered to the called (served) user with the Calling party information element coded: Address signals = default number derived from the P-Asserted-Identity Screening indicator = network provided Numbering plan indicator = ISDN numbering plan Address Presentation Restricted Indicator = Presentation allowed						
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)						
Comments:	OID		OUT		IODNI		
	INVITE SIP	→	SUT	→	ISDN SETUP		
	180 Ringing			-	ALERT		
	200 OK INVITE	`		+	CONN		
	ACK	→			COLUN		
	BYE	+		+	DISC		
	200 OK BYE	→		→	REL		

SI_XXSSOIP14	ISDN reference to: EN 300 092-1 [i.14], clause EN 300 403-1 [i.3], clauses 4.5.10, 4.5.11		EN ES 28	.1912.5 383 00 83 027 TS	N reference to: i [51], clause 6.1.3.6 i1 [49], clause 6.1.3.6 [48], clause 7.2.3.1.2.6 i 183 007 [43]			
TSS reference:	Private Extensions to SIP for A							
Selection criteria:	The user subscribes OIR "temp							
Test purpose:	Ensure that the SUT in the Idle state, on receipt of a INVITE message where: the SIP P-Preferred-Identity containing a SIP URI (PIXIT) in the format of a tel URI has been received no priv value is received the SIP From header field containing a SIP URI (PIXIT) in the format of a tel URI has not been received the Calling Party Number is correctly delivered to the called (served) user with the Calling party information element coded: Address signals = default number derived from the P-Asserted-Identity Screening indicator = network provided Numbering plan indicator = ISDN numbering plan Address Presentation Restricted Indicator = Presentation allowed							
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT)							
Comments:	m = line (PIXIT)							
	SIP		SUT		ISDN			
		>		→	SETUP			
		-		+	ALERT			
		-		+	CONN			
	ACK -	→						
	BYE	-		+	DISC			
	200 OK BYE -	>		→	REL			

SI_XXSSOIP15	ISDN reference to: EN 300 092-1 [i.14], clause 9 EN 300 403-1 [i.3], clauses 4.5.10, 4.5.11		NGN reference to: Q.1912.5 [51], clause 6.1.3.6 EN 383 001 [49], clause 6.1.3.6 ES 283 027 [48], clause 7.2.3.1.2.6 TS 183 007 [43]					
TSS reference:	Private Extensions to SIP for Ass							
Selection criteria:	The user subscribes OIR "tempo	rary mo	ode" default "no	ot res	stricted"			
- .	Special arrangement applies			I) /I T F				
Test purpose:	 Ensure that the SUT in the Idle state, on receipt of a INVITE message where: the SIP P-Preferred-Identity containing a SIP URI (PIXIT) in the format of a tel URI has been received the priv-value component is set to "none" the SIP From header field containing a SIP URI (PIXIT) with an identity in the format of a tel URI has been received the Calling Party Number is correctly delivered to the called (served) user with the 1stCalling party information element coded: Address signals = default number derived from the From header Screening indicator = user provided not verified Numbering plan indicator = ISDN numbering plan Address Presentation Restricted Indicator = Presentation allowed 2ndCalling party information element coded: Address signals = default number derived from the P-Asserted-Identity Screening indicator = network provided 							
	- Numbering plan in				Presentation allowed			
SIP Parameter values:	Dial string parameters options=P		estricted maicat	.01 =	Presentation allowed			
	PIXIT for supported header:							
	Case a) no 100 rel							
	Case b) Supported: 100 rel							
	Case c) Supported: 100 rel and p	orecond	dition					
	a = line (PIXIT) b = line (PIXIT)							
	m = line (PIXIT)							
Comments:								
	SIP		SUT		ISDN			
		→		→	SETUP			
		(+	ALERT			
	3 3	(+	CONN			
		→		•				
	BYE	(+	DISC			
		<u>`</u>		`	REL			

SI_XXSSOIP16	ISDN reference to: EN 300 092-1 [i.14], clause 9 EN 300 403-1 [i.3],	N reference to: 5 [51], clause 6.1.3.6 01 [49], clause 6.1.3.6							
	clauses 4.5.10, 4.5.11		ES 283 027 [48], clause 7.2.3.1.2.6 TS 183 007 [43]						
TSS reference:	Private Extensions to SIP for As	serted	Identity within T						
Selection criteria:	The user subscribes OIR "tempo								
	Special arrangement applies								
Test purpose:	Ensure that the SUT in the Idle s								
		entity c	ontaining a URI	(PIX	(IT) in the format of a tel URI has				
	been received								
	no priv value is receive								
				RI (P	PIXIT) with an identity in the				
	format of a tel URI has				a				
					the called (served) user with the				
	1stCalling party infor				om the From header				
	- Screening indicat								
	- Numbering plan i								
					Presentation allowed				
	2ndCalling party infor								
					om the P-Asserted-Identity				
	- Screening indicat				ŕ				
	- Numbering plan i	indicato	r = ISDN numb	ering	g plan				
	 Address Presenta 	ation R	estricted Indicat	or =	Presentation allowed				
SIP Parameter values:	Dial string parameters options=F	PIXIT							
	PIXIT for supported header:								
	Case a) no 100 rel								
	Case b) Supported: 100 rel								
	Case c) Supported: 100 rel and	precon	dition						
	a = line (PIXIT)								
	b = line (PIXIT)								
	m = line (PIXIT)								
Comments:			O. IT		IODAL				
	SIP		SUT		ISDN				
	INVITE	<u>→</u>		<u>→</u>	SETUP				
	180 Ringing	-		-	ALERT				
	200 OK INVITE	<u>←</u>		+	CONN				
	ACK	7			-				
	DVE				DICC				
	BYE	<u>←</u>		/	DISC				
	200 OK BYE	7		→	REL				

SI_XXSSOIP17	ISDN reference to: NGN reference to:						
	EN 300 092-1 [i.14], clause 9.3; Q.1912.5 [51], clause 6.1.3.6 EN 300 403-1 [i.3], EN 383 001 [49], clause 6.1.3.6						
	EN 300 403-1 [i.3],						
	clauses 4.5.10, 4.5.11	= = ;					
TCC reference:	Drivete Extensions to SID for As	acortod	 dontity_within_T		S 183 007 [43]		
TSS reference: Selection criteria:	Private Extensions to SIP for As						
Selection criteria.	The user subscribes OIR "temp	orary in	ode deladit no	ot res	stricted		
Test purpose:	Special arrangement applies Ensure that the SUT in the Idle	ototo o	n receipt of a IN	I\ /ITE	= magaga whore:		
rest purpose.					PIXIT) with an identity in the		
	format of a tel URI has			IXI (F	intr) with an identity in the		
	the priv-value componing						
				d to	the called (served) user with the		
	1stCalling party infor				the called (served) user with the		
					om the From header		
	- Screening indica						
	- Numbering plan						
					Presentation allowed		
	2ndCalling party info	rmatio	n element code	ed:			
	 Address signals 	= defau	It number derive	ed fro	om the P-Asserted-Identity		
	 Screening indica 						
	 Numbering plan 						
			estricted Indicat	tor =	Presentation allowed		
SIP Parameter values:	Dial string parameters options=	PIXIT					
	DIVITA						
	PIXIT for supported header:						
	Case a) no 100 rel						
	Case b) Supported: 100 rel	nr	dition				
	Case c) Supported: 100 rel and	precon	dition				
	a = line (PIXIT)						
	b = line (PIXIT)						
	m = line (PIXIT)						
Comments:							
	SIP		SUT		ISDN		
	INVITE	→		→	SETUP		
	180 Ringing	+		+	ALERT		
	200 OK INVITE	+		+	CONN		
	ACK	→					
	BYE	+		+	DISC		
	200 OK BYE	→		→	REL		

SI_XXSSOIP18	ISDN reference to: EN 300 092-1 [i.14], clause EN 300 403-1 [i.3], clauses 4.5.10, 4.5.11		EN 3 ES 283	NGN reference to: Q.1912.5 [51], clause 6.1.3.6 N 383 001 [49], clause 6.1.3.6 283 027 [48], clause 7.2.3.1.2.6 TS 183 007 [43]			
TSS reference:	Private Extensions to SIP for A						
Selection criteria:	The user subscribes OIR "temp	orary m	iode" default "n	ot res	stricted"		
Test purpose: SIP Parameter values:	Special arrangement applies						
on Farameter values.	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)						
Comments:			1				
	INVITE SIP	→	SUT	→	ISDN SETUP		
	180 Ringing			7	ALERT		
	200 OK INVITE	-		-	CONN		
	ACK	→			001414		
	BYE	+		+	DISC		
	200 OK BYE	→		→	REL		

SI_XXSSOIP19	ISDN reference to: EN 300 092-1 [i.14], clause 9 EN 300 403-1 [i.3], clauses 4.5.10, 4.5.11	9.3	Q.191 EN 383	2.5	reference to: 51], clause 6.1.3.6 [49], clause 6.1.3.6 48], clause 7.2.3.1.2.6 183 007 [43]			
TSS reference:	Private Extensions to SIP for As							
Selection criteria:	The user subscribes OIR "temp							
Test purpose:	Ensure that the SUT in the Idle state, on receipt of a INVITE message where: • the SIP P-Preferred-Identity containing a SIP URI (PIXIT) in the format of a tel URI has not been received • the priv-value component is set to "none" • the SIP From header is set to anonymous • the Calling Party Number is correctly delivered to the called (served) user with the Calling party information element coded: - Address signals = default number derived from the P-Asserted-Identity - Screening indicator = network provided - Numbering plan indicator = ISDN numbering plan							
SIP Parameter values:	Dial string parameters options= PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel	Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT)						
Comments:								
	SIP		SUT		ISDN			
	INVITE	→		→	SETUP			
	180 Ringing	-		←	ALERT			
	200 OK INVITE	-		←	CONN			
	ACK	→						
	BYE	←		+	DISC			
	200 OK BYE	→		→	REL			

SI_XXSSOIP20	ISDN reference to: EN 300 092-1 [i.14], clause EN 300 403-1 [i.3], clauses 4.5.10, 4.5.11	9.3	Q.191 EN 383	12.5 [3 001)27 [4	reference to: [51], clause 6.1.3.6 [49], clause 6.1.3.6 48], clause 7.2.3.1.2.6 183 007 [43]			
TSS reference:	Private Extensions to SIP for A							
Selection criteria:	The user subscribes OIR "tem							
Test purpose:	Ensure that the SUT in the Idle state, on receipt of a INVITE message where: • the SIP P-Preferred-Identity containing a SIP URI (PIXIT) in the format of a tel URI has not been received • no priv value is received • the SIP From header is set to anonymous • the Calling Party Number is correctly delivered to the called (served) user with the Calling party information element coded: - Address signals = default number derived from the P-Asserted-Identity - Screening indicator = network provided - Numbering plan indicator = ISDN numbering plan							
SIP Parameter values:	Dial string parameters options: PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel	Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT)						
Comments:								
	SIP		SUT		ISDN			
	INVITE	→		→	SETUP			
	180 Ringing	←		+	ALERT			
	200 OK INVITE	+		+	CONN			
	ACK	→						
	BYE	+		+	DISC			
	200 OK BYE	→		→	REL			

SI_XXSSOIP21	ISDN reference to: NGN reference to:						
	EN 300 092-1 [i.14], clause 9.3 Q.1912.5 [51], clause 6.1.3.6						
	EN 300 403-1 [i.3],						
	clauses 4.5.10, 4.5.11						
					183 007 [43]		
TSS reference:	Private Extensions to SIP for Ass						
Selection criteria:	The user subscribes OIR "tempor	rary m	ode" default "re	stric	ted"		
	Special arrangement applies						
Test purpose:	Ensure that the SUT in the Idle st						
	the SIP P-Preferred-Ide format of a tel URI has i			URI	(PIXIT) with an identity in the		
	the priv-value componer						
				RI (E	PIXIT) with an identity in the		
	format of a tel URI has I			171 (1	ixii) willi aii ideililly iii lile		
					the called (served) user with		
	the 1stCalling party inf						
					om the From header		
	- Screening indicate						
	- Numbering plan in						
					Presentation allowed		
	2ndCalling party infor				om the P-Asserted-Identity		
	- Address signals = - Screening indicate			eu m	on the P-Asserted-Identity		
	- Numbering plan in			۵rina	ı nlan		
					Presentation allowed		
SIP Parameter values:	Dial string parameters options=P		Journaled Interest	.01 –	1 1000manon anowa		
	PIXIT for supported header:						
	Case a) no 100 rel						
	Case b) Supported: 100 rel						
	Case c) Supported: 100 rel and p	recon	dition				
	Case of Supported. 100 fer and p) CCOIN	aition				
	a = line (PIXIT)						
	b = line (PIXIT)						
	m = line (PIXIT)						
Comments:	,						
	SIP		SUT		ISDN		
		→		1	SETUP		
	180 Ringing	(4	ALERT		
		(+	CONN		
	ACK	→					
	5)/5				DIGG		
		((DISC		
	200 OK BYE	→		→	REL		

SI_XXSSOIP22	ISDN reference to: EN 300 092-1 [i.14], claus EN 300 403-1 [i.3], clauses 4.5.10, 4.5.11		EN 38 ES 283	12.5 3 00 027 TS	l reference to: [51], clause 6.1.3.6 1 [49], clause 6.1.3.6 [48], clause 7.2.3.1.2.6 183 007 [43]	
TSS reference:	Private Extensions to SIP for A					
Selection criteria:	The user subscribes OIR "tem					
Test purpose:	Ensure that the SUT in the Idle state, on receipt of a INVITE message where: the SIP P-Preferred-Identity containing a SIP URI (PIXIT) with an identity in the format of a tel URI has not been received the priv-value component is set to "none" the SIP From header field containing a SIP URI (PIXIT) with an identity in the format of a tel URI has not been received the Calling Party Number is correctly delivered to the called (served) user with the Calling party information element coded: Address signals = default number derived from the P-Asserted-Identity Screening indicator = network provided Numbering plan indicator = ISDN numbering plan Address Presentation Restricted Indicator = Presentation allowed					
SIP Parameter values:	Dial string parameters options PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel an a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)		dition			
Comments:						
	SIP		SUT		ISDN	
	INVITE	→		→	SETUP	
	180 Ringing	<u>+</u>		←	ALERT	
	200 OK INVITE	+		←	CONN	
	ACK	→				
	BYE	+		←	DISC	
	200 OK BYE	→		→	REL	

SI_XXSSOIP23	ISDN reference to: EN 300 092-1 [i.14], claus EN 300 403-1 [i.3], clauses 4.5.10, 4.5.1	1	EN 38 ES 283	912.5 33 00 027 TS	N reference to: [51], clause 6.1.3.6 1 [49], clause 6.1.3.6 [48], clause 7.2.3.1.2.6 5 183 007 [43]		
TSS reference:	Private Extensions to SIP for	Asserted	Identity within	Trust	ed Networks		
Selection criteria:	The user subscribes OIR "ten	nporary m	ode" default "r	estric	ted"		
Test purpose: SIP Parameter values:	 Special arrangement applies Ensure that the SUT in the Idle state, on receipt of a INVITE message where: the SIP From header field containing a SIP URI (PIXIT) with an identity in the format of a tel URI has been received the priv-value component is set to "none" the Calling Party Number is correctly delivered to the called (served) user with the 1stCalling party information element coded:						
	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)						
Comments:							
	SIP		SUT		ISDN		
	INVITE	→		→	SETUP		
	180 Ringing	+		+	ALERT		
	200 OK INVITE	+		+	CONN		
	ACK	→					
	BYE	+		+	DISC		
	200 OK BYE	→		→	REL		

SI_XXSSOIP24	ISDN reference to: EN 300 092-1 [i.14], clause 9.3 EN 300 403-1 [i.3], clauses 4.5.10, 4.5.11	EN 3 ES 283	912.5 83 00 3 027 TS	N reference to: 5 [51], clause 6.1.3.6 01 [49], clause 6.1.3.6 [48], clause 7.2.3.1.2.6 5 183 007 [43]				
TSS reference:	Private Extensions to SIP for Asser							
Selection criteria:	The user subscribes OIR "tempora	ry mode" default "r	estric	cted"				
	Special arrangement applies							
Test purpose:	 Ensure that the SUT in the Idle state, on receipt of a INVITE message where: the SIP P-Preferred-Identity containing a SIP URI (PIXIT) in the form URI has not been received the priv-value component is set to "none" the SIP From header field containing a SIP URI (PIXIT) with an ident format of a tel URI has been received the Calling Party Number is correctly delivered to the called (served) 							
	the 1stCalling party info							
				rom the From header				
	 Screening indicator 							
	 Numbering plan ind 							
				Presentation allowed				
	2ndCalling party information element coded:							
	- Address signals = default number derived from the P-Asserted-Identity							
		- Screening indicator = network provided						
	- Numbering plan ind							
OID D			ator =	Presentation allowed				
SIP Parameter values:	Dial string parameters options=PIX	.11						
	PIXIT for supported header:							
	Case a) no 100 rel							
	Case b) Supported: 100 rel							
	Case c) Supported: 100 rel and pre	econdition						
	Case of Supported. 100 fet and precondition							
	a = line (PIXIT)							
	b = line (PIXIT)							
	m = line (PIXIT)							
Comments:								
	SIP	SUT		ISDN				
	INVITE →		→	SETUP				
	180 Ringing ←		+	ALERT				
	200 OK INVITE ←		+	CONN				
	ACK →							
	BYE ←		+	DISC				
	200 OK BYE →		→	REL				

SI_XXSSOIP25	ISDN reference to: EN 300 092-1 [i.14], clause 9.3 EN 300 403-1 [i.3], clauses 4.5.10, 4.5.11	EN 38 ES 283	12.5 3 001 027 [4 TS	reference to: [51], clause 6.1.3.6 [49], clause 6.1.3.6 48], clause 7.2.3.1.2.6 183 007 [43]					
TSS reference:	Private Extensions to SIP for Asse								
Selection criteria:	The user subscribes OIR "tempora								
Test purpose:	 Ensure that the SUT in the Idle state, on receipt of a INVITE message where: the SIP P-Preferred-Identity containing a SIP URI (PIXIT) in the format of a tel URI has been received: the priv-value component is set to "none" the SIP From header field containing a SIP URI (PIXIT) not in the format of a tel URI has not been received the Calling Party Number is correctly delivered to the called (served) user with the Calling party information element coded: Address signals = default number derived from the P-Asserted-Identity Screening indicator = network provided Numbering plan indicator = ISDN numbering plan 								
SIP Parameter values:	PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel	Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT)							
Comments:	OID	OUT	1	10001					
	SIP →	SUT	→	ISDN					
	INVITE → 180 Ringing ←		7	SETUP ALERT					
	200 OK INVITE		+	CONN					
	ACK →			CONIN					
	BYE ←		+	DISC					
	200 OK BYE →		→	REL					

SI_XXSSOIP26	ISDN reference to: EN 300 092-1 [i.14], clause 9 EN 300 403-1 [i.3], clauses 4.5.10, 4.5.11		EN 38 ES 283	912.5 33 00 027 TS	l reference to: [51], clause 6.1.3.6 1 [49], clause 6.1.3.6 [48], clause 7.2.3.1.2.6 183 007 [43]
TSS reference:	Private Extensions to SIP for Ass				
Selection criteria:	The user subscribes OIR "tempor	rary mo	de" default "re	estric	ted"
	Special arrangement applies				
Test purpose:	 Ensure that the SUT in the Idle state, on receipt of a INVITE message where: the SIP P-Preferred-Identity containing a SIP URI (PIXIT) in the format of a tel URI has been received the priv-value component is set to "none" the SIP From header field containing a SIP URI (PIXIT) with an identity in the format of a tel URI has been received the Calling Party Number is correctly delivered to the called (served) user with the 1stCalling party information element coded:				
SIP Parameter values:	Dial string parameters options=P	IXIT			
	PIXIT for supported header:				
	Case a) no 100 rel				
	Case b) Supported: 100 rel	roond	ition		
	Case c) Supported: 100 rel and p	precona	ition		
	a = line (PIXIT)				
	b = line (PIXIT)				
	m = line (PIXIT)				
Comments:					
	SIP		SUT		ISDN
		→		→	SETUP
		(+	ALERT
		(+	CONN
		→			
	BYE	(+	DISC
	200 OK BYE	→		→	REL

SI_XXSSOIP27	ISDN reference to: EN 300 092-1 [i.14], clause EN 300 403-1 [i.3], clauses 4.5.10, 4.5.11		Q.191 EN 383 ES 283 0	12.5 [3 001 027 [TS	reference to: [51], clause 6.1.3.6 [49], clause 6.1.3.6 48], clause 7.2.3.1.2.6 183 007 [43]			
TSS reference:	Private Extensions to SIP for A							
Selection criteria:	The user subscribes OIR "tem							
Test purpose:	Ensure that the SUT in the Idle state, on receipt of a INVITE message where: • the SIP P-Preferred-Identity containing a SIP URI (PIXIT) in the format of a tel URI has not been received • the priv-value component is set to "none" • the SIP From header is set to anonymous • the Calling Party Number is correctly delivered to the called (served) user with the Calling party information element coded: - Address signals = default number derived from the P-Asserted-Identity - Screening indicator = network provided - Numbering plan indicator = ISDN numbering plan							
SIP Parameter values:	PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel	Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT)						
Comments:								
	SIP		SUT		ISDN			
	INVITE	→		→	SETUP			
	180 Ringing	+		+	ALERT			
	200 OK INVITE	<u>+</u>		+	CONN			
	ACK	→						
	BYE	+		+	DISC			
	200 OK BYE	→		→	REL			

SI_XXSSOIP28	ISDN reference to: EN 300 092-1 [i.14], clause 9.3 EN 300 403-1 [i.3], clauses 4.5.10, 4.5.11	NGN reference to: Q.1912.5 [51], clause 6.1.3.6 EN 383 001 [49], clause 6.1.3.6 ES 283 027 [48], clause 7.2.3.1.2.6					
TSS reference:	Private Extensions to SIP for Asserte						
Selection criteria:	The user subscribes OIR "temporary						
Test purpose:	 Ensure that the SUT in the Idle state, on receipt of a INVITE message where: the SIP P-Preferred-Identity containing a SIP URI (PIXIT) in the format of a tel URI has been received the priv-value component is set to "none" the SIP From header is set to anonymous the Calling Party Number is correctly delivered to the called (served) user with the Calling party information element coded:						
SIP Parameter values:	- Address Presentation Restricted Indicator = Presentation allowed Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)						
Comments:	_	-					
	SIP	SUT		ISDN			
	INVITE -		→	SETUP			
	180 Ringing ←		+	ALERT			
	200 OK INVITE ←		←	CONN			
	ACK →						
	BYE		+	DISC			
	200 OK BYE →		→	REL			

SI_XXSSOIP29	ISDN reference to: EN 300 092-1 [i.14], clause 9 EN 300 403-1 [i.3], clauses 4.5.10, 4.5.11		Q.191 EN 383 ES 283 (12.5 [3 001 027 [4 TS 1	reference to: [51], clause 6.1.3.6 [49], clause 6.1.3.6 48], clause 7.2.3.1.2.6 183 007 [43]		
TSS reference:	Private Extensions to SIP for As						
Selection criteria:	The user subscribes OIR "temp						
Test purpose:	Ensure that the SUT in the Idle state, on receipt of a INVITE message where: the SIP P-Preferred-Identity containing a SIP URI (PIXIT) in the format of a tel URI has been received: no priv value is received the SIP From header is set to anonymous the Calling Party Number is correctly delivered to the called (served) user with the Calling party information element coded: Address signals = default number derived from the P-Asserted-Identity Screening indicator = network provided Numbering plan indicator = ISDN numbering plan						
SIP Parameter values:	- Address Presentation Restricted Indicator = Presentation allowed Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)						
Comments:	OID I		0.17	ı	1001		
	SIP	→	SUT	→	ISDN		
	INVITE	7		7	SETUP ALERT		
	180 Ringing 200 OK INVITE	-		+	CONN		
	ACK	<u>▼</u>		_	CONIN		
	ACK	7					
	BYE	+		+	DISC		
	200 OK BYE	<u>→</u>		→	REL		

SI_XXSSOIP30	ISDN reference to: EN 300 092-1 [i.14], clause EN 300 403-1 [i.3], clauses 4.5.10, 4.5.11	9.3	Q.191 EN 383	12.5 [3 001)27 [4	reference to: [51], clause 6.1.3.6 [49], clause 6.1.3.6 48], clause 7.2.3.1.2.6 183 007 [43]			
TSS reference:	Private Extensions to SIP for A							
Selection criteria:	The user subscribes OIR "tem							
Test purpose:	Ensure that the SUT in the Idle state, on receipt of a INVITE message where: the SIP P-Preferred-Identity containing a SIP URI (PIXIT) in the format of a tel URI has been received the priv-value component is set to "none" the SIP From header is set to anonymous the Calling Party Number is correctly delivered to the called (served) user with the Calling party information element coded: Address signals = default number derived from the P-Asserted-Identity Screening indicator = network provided Numbering plan indicator = ISDN numbering plan							
SIP Parameter values:	Dial string parameters options: PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel	Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT)						
Comments:								
	SIP		SUT		ISDN			
	INVITE	→		→	SETUP			
	180 Ringing	+		+	ALERT			
	200 OK INVITE	+		+	CONN			
	ACK	→						
	BYE	+		+	DISC			
	200 OK BYE	→		→	REL			

6.2.2.2 OIR/CLIR

SI_XXSSOIR01	ISDN reference to: EN 300 092-1 [i.14], clause 9 EN 300 403-1 [i.3], clauses 4.5.10, 4.5.11).3	Q.191 EN 383	12.5 [3 001 027 [4	reference to: 51], clause 6.1.3.6 [49], clause 6.1.3.6 48], clause 7.2.3.1.2.6 183 007 [43]		
TSS reference:	Private Extensions to SIP for As	serte	d Identity within T	Fruste	ed Networks		
Selection criteria:	The user subscribes OIR "tempo	orary	mode" default "re	estrict	ted"		
Test purpose:	 Ensure that the SUT in the Idle state, on receipt of a INVITE message where: the SIP P-Preferred-Identity containing a SIP URI (PIXIT) has been received the priv-value component is set to "id" the SIP From header field containing a SIP URI (PIXIT) has been received the Calling party number information element is delivered to the called user without any digit information 						
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)						
Comments:				1	T		
	SIP		SUT	Ļ	ISDN		
		<u>→</u>		→	SETUP		
		(←	ALERT		
		(←	CONN		
	ACK	→					
	BYE	(←	DISC		
	200 OK BYE	→		→	REL		

SI_XXSSOIR02	ISDN reference to: EN 300 092-1 [i.14], clause 9 EN 300 403-1 [i.3],	9.3	Q.19 ²	NGN reference to: Q.1912.5 [51], clause 6.1.3.6 EN 383 001 [49], clause 6.1.3.6				
	clauses 4.5.10, 4.5.11				48], clause 7.2.3.1.2.6			
					183 007 [43]			
TSS reference:	Private Extensions to SIP for As	sserte	d Identity within	Truste	ed Networks			
Selection criteria:	The user subscribes OIR "temp							
Test purpose:	Ensure that the SUT in the Idle state, on receipt of a INVITE message where: the SIP P-Preferred-Identity containing a SIP URI (PIXIT) has been received the priv-value not present the SIP From header field containing a SIP URI (PIXIT) has been received the Calling party number information element is delivered to the called user							
SIP Parameter values:	without any digit inform Dial string parameters options=							
	PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)							
Comments:	0.0		0	1	10711			
	INVITE	→	SUT	→	ISDN			
	180 Ringing	7		7	SETUP ALERT			
	200 OK INVITE	-		-	CONN			
	ACK	<u>`</u>		Ľ				
	BYE	+		+	DISC			
	200 OK BYE	→		→	REL			

SI_XXSSOIR03	ISDN reference to: EN 300 092-1 [i.14], clause EN 300 403-1 [i.3], clauses 4.5.10, 4.5.11	9.3	Q.191 EN 383	2.5 [001 27 [4	reference to: 51], clause 6.1.3.6 [49], clause 6.1.3.6 I8], clause 7.2.3.1.2.6 I83 007 [43]			
TSS reference:	Private Extensions to SIP for A	sserte	d Identity within T					
Selection criteria:	The user subscribes OIR "temp	orary	mode" default "re	strict	ed"			
Test purpose:	 Ensure that the SUT in the Idle state, on receipt of a INVITE message where: the SIP P-Preferred-Identity containing a SIP URI (PIXIT) has been received priv-value component is set to "id" the SIP From header is set to anonymous the Calling party number information element is delivered to the called user without any digit information 							
SIP Parameter values:	PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT)						
Comments:								
	SIP		SUT		ISDN			
	INVITE	<u>→</u>		→	SETUP			
	180 Ringing 200 OK INVITE	+		+	ALERT			
	ACK	<u>~</u>		_	CONN			
	AOR	7						
	BYE	+		+	DISC			
	200 OK BYE	→		→	REL			

SI_XXSSOIR04	ISDN reference to: EN 300 092-1 [i.14], claus EN 300 403-1 [i.3], clauses 4.5.10, 4.5.1		EN 38	NGN reference to: Q.1912.5 [51], clause 6.1.3.6 EN 383 001 [49], clause 6.1.3.6 ES 283 027 [48], clause 7.2.3.1.2.6 TS 183 007 [43]			
TSS reference:	Private Extensions to SIP for	Asserted	Identity within				
Selection criteria:	The user subscribes OIR "tem						
Test purpose:	The sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the sum of the su						
SIP Parameter values:	without any digit information Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)						
Comments:			T				
	SIP		SUT	 	ISDN		
	INVITE	<u>→</u>		→	SETUP ALERT		
	180 Ringing 200 OK INVITE	<u>←</u>		-	CONN		
	ACK	→			COININ		
	BYE	+		+	DISC		
	200 OK BYE	→		→	REL		

SI_XXSSOIR05	ISDN reference to: EN 300 092-1 [i.14], clause EN 300 403-1 [i.3], clauses 4.5.10, 4.5.11	9.3	Q.191 EN 383	2.5 [3 001	reference to: [51], clause 6.1.3.6 [49], clause 6.1.3.6 48], clause 7.2.3.1.2.6				
TSS reference:	Private Extensions to SIP for A								
Selection criteria:	The user subscribes OIR temp								
Test purpose:	 Ensure that the SUT in the Idle state, on receipt of a INVITE message where: the SIP P-Preferred-Identity containing a SIP URI (PIXIT) has been received the priv-value component is set to "id" the SIP From header field containing a SIP URI (PIXIT) has been received the Calling party number information element is delivered to the called user 								
SIP Parameter values:	without any digit infor Dial string parameters options:								
	PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel an a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)	PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT)							
Comments:									
	SIP		SUT		ISDN				
	INVITE	→		→	SETUP				
	180 Ringing	+		←	ALERT				
	200 OK INVITE	+		←	CONN				
	ACK	→							
	BYE	+		+	DISC				
	200 OK BYE	→		→	REL				

SI_XXSSOIR06	ISDN reference to: EN 300 092-1 [i.14], clause	NGN reference to: Q.1912.5 [51], clause 6.1.3.6				
	EN 300 403-1 [i.3],		EN 383 001 [49], clause 6.1.3.6			
	clauses 4.5.10, 4.5.11		ES 283 ()27 [4	48], clause 7.2.3.1.2.6	
TSS reference:	Private Extensions to SIP for A					
Selection criteria:	The user subscribes OIR temporal					
Test purpose:	Ensure that the SUT in the Idle					
				URI	(PIXIT) has been received	
	 priv-value component 					
	 the SIP From header in 	s set t	o anonymous			
				is de	elivered to the called user	
	without any digit inforr					
SIP Parameter values:	Dial string parameters options=	PIXIT				
	PIXIT for supported header:					
	Case a) no 100 rel					
	Case b) Supported: 100 rel	nroos	andition.			
	Case c) Supported: 100 rel and	precc	maition			
	a = line (PIXIT)					
	b = line (PIXIT)					
	m = line (PIXIT)					
Comments:						
	SIP		SUT		ISDN	
	INVITE	→		→	SETUP	
	180 Ringing	+		+	ALERT	
	200 OK INVITE	←		+	CONN	
	ACK	→				
	BYE	-		+	DISC	
	200 OK BYE	→		→	REL	

SI_XXSSOIR07	ISDN reference to: EN 300 092-1 [i.14], clause 9 EN 300 403-1 [i.3], clauses 4.5.10, 4.5.11		NGN reference to: Q.1912.5 [51], clause 6.1.3.6 EN 383 001 [49], clause 6.1.3.6 ES 283 027 [48], clause 7.2.3.1.2.6						
TSS reference:	Private Extensions to SIP for Asserted Identity within Trusted Networks								
Selection criteria:	The user subscribes OIR permanent mode								
Test purpose:	Ensure that the SUT in the Idle state, on receipt of a INVITE message where: the SIP P-Preferred-Identity containing a SIP URI (PIXIT) has been received the priv-value component is set to "id" the SIP From header field containing a SIP URI (PIXIT) has been received the Calling party number information element is delivered to the called user								
SIP Parameter values:	without any digit information Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)								
Comments:									
	SIP		SUT		ISDN				
	INVITE	→		→	SETUP				
	180 Ringing	-		+	ALERT				
	200 OK INVITE	-		+	CONN				
	ACK	→							
	BYE	(+	DISC				
	200 OK BYE	→		→	REL				

SI_XXSSOIR08	ISDN reference to: EN 300 092-1 [i.14], clause 9.3		NGN reference to: Q.1912.5 [51], clause 6.1.3.6					
	EN 300 403-1 [i.3],		EN 383	EN 383 001 [49], clause 6.1.3.6				
	clauses 4.5.10, 4.5.11	ES 283 027 [48], clause 7.2.3.1.2.6						
TSS reference:	Private Extensions to SIP for Asserted Identity within Trusted Networks							
Selection criteria:	The user subscribes OIR permanent mode							
Test purpose:	Ensure that the SUT in the Idle state, on receipt of a INVITE message where: • the SIP P-Preferred-Identity containing a SIP URI (PIXIT) has been received							
	the priv-value component is not present							
	the SIP From header field containing a SIP URI (PIXIT) has been received the Calling a article profile and in factor and the delivered to the calling the second to the calling the second to the calling the second to the calling the second to the calling the second to the calling the second to the calling the second to the calling the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to							
	 the Calling party number information element is delivered to the called user without any digit information 							
SIP Parameter values:	Dial string parameters options=PIXIT							
	PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT)							
	b = line (PIXIT)							
Cammanta	m = line (PIXIT)							
Comments:	SIP		SUT	1	ISDN			
	INVITE	→	301	→	SETUP			
	180 Ringing			′	ALERT			
	200 OK INVITE	`		+	CONN			
	ACK	<u>`</u>		<u> </u>	00.111			
	BYE	+		+	DISC			
	200 OK BYE	→		→	REL			

SI_XXSSOIR09	ISDN reference to:			reference to:				
	EN 300 092-1 [i.14], clause 9.3			[51], clause 6.1.3.6				
	EN 300 403-1 [i.3],			1 [49], clause 6.1.3.6				
T00	clauses 4.5.10, 4.5.11 ES 283 027 [48], clause 7.2.3.1.2.6							
TSS reference:	Private Extensions to SIP for Asserted Identity within Trusted Networks							
Selection criteria:	The user subscribes OIR permanent mode							
Test purpose:	Ensure that the SUT in the Idle state, on receipt of a INVITE message where:							
	the SIP P-Preferred-Identity containing a SIP URI (PIXIT) has been received							
	priv-value component is set to "id"							
	the SIP From header is set to anonymous							
	the Calling party number information element is delivered to the called user							
	without any digit information							
SIP Parameter values:	Dial string parameters options=PIXIT							
	PIXIT for supported header:							
	Case a) no 100 rel							
	Case b) Supported: 100 rel							
	Case c) Supported: 100 rel and precondition							
	o – lino /DIVIT\							
	a = line (PIXIT) b = line (PIXIT)							
	m = line (PIXIT)							
Comments:								
Comments.	SIP	SUT		ISDN				
	INVITE >		→	SETUP				
	180 Ringing ←		+	ALERT				
	200 OK INVITE ←		+	CONN				
	ACK →		Ť					
	BYE		+	DISC				
	200 OK BYE →		<u>→</u>	REL				
L	LOO OILDIL							

SI_XXSSOIR10	ISDN reference to: EN 300 092-1 [i.14], clause 9.3 EN 300 403-1 [i.3], clauses 4.5.10, 4.5.11	EN 38 ES 283	NGN reference to: Q.1912.5 [51], clause 6.1.3.6 EN 383 001 [49], clause 6.1.3.6 ES 283 027 [48], clause 7.2.3.1.2.6					
TSS reference:	Private Extensions to SIP for Asse		Trust	ed Networks				
Selection criteria:	The user subscribes OIR permane							
Test purpose:	 Ensure that the SUT in the Idle state, on receipt of a INVITE message where: the SIP P-Preferred-Identity containing a SIP URI (PIXIT) has been received priv-value component is not present the SIP From header is set to anonymous the Calling party number information element is delivered to the called user 							
SIP Parameter values:	without any digit informati							
Comments:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)							
Comments:	OLD	OUT		1001				
	SIP	SUT	+	ISDN				
	INVITE →		→	SETUP				
	180 Ringing		-	ALERT				
	200 OK INVITE ← ACK →	200 OK INVITE ← CONN ACK →						
	BYE ←		+	DISC				
	200 OK BYE →		→	REL				

SI_XXSSOIR11	ISDN reference to: EN 300 092-1 [i.14], clause 9.3 EN 300 403-1 [i.3], clauses 4.5.10, 4.5.11		EN 38 ES 283	012.5 [33 001 027 [4 TS	reference to: 51], clause 6.1.3.6 [49], clause 6.1.3.6 48], clause 7.2.3.1.2.6 183 007 [43]		
TSS reference:	Private Extensions to SIP for Asse			Truste	ed Networks		
Selection criteria:	The user subscribes OIR "permar Special arrangement applies						
Test purpose:	Ensure that the SUT in the Idle state, on receipt of a INVITE message where: the SIP P-Preferred-Identity containing a SIP URI (PIXIT) with an identity in the format of a tel URI has not been received the priv-value component is set to "none" the SIP From header field containing a SIP URI (PIXIT) not in the format of a tel URI has been received the Calling party number information element is delivered to the called user						
SIP Parameter values:	without any digit information Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)						
Comments:							
	SIP		SUT		ISDN		
	INVITE ->			→	SETUP		
	180 Ringing ←			+	ALERT		
	200 OK INVITE ←			+	CONN		
	ACK →	•					
	BYE €	-		+	DISC		
	200 OK BYE	•		→	REL		

SI_XXSSOIR12	ISDN reference to: EN 300 092-1 [i.14], clause 9.3 EN 300 403-1 [i.3], clauses 4.5.10, 4.5.11	NGN reference to: Q.1912.5 [51], clause 6.1.3.6 EN 383 001 [49], clause 6.1.3.6 ES 283 027 [48], clause 7.2.3.1.2.6 TS 183 007 [43]					
TSS reference:	Private Extensions to SIP for Asserte			ed Networks			
Selection criteria:	SIP URI or SIPS URI is used in the I The user subscribes OIR "permaner	t mode"					
Test purpose:	Ensure that the SUT in the Idle state, on receipt of a INVITE message where: the SIP P-Preferred-Identity containing a SIP URI (PIXIT) with an identity in the format of a tel URI has not been received SIP URI or SIPS URI are used in the in the P-Preferred -Identity the priv-value component is set to "none" the SIP From header field containing a SIP URI (PIXIT) not in the format of a tel URI has not been received the Calling party number information element is delivered to the called user						
SIP Parameter values:	without any digit information Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)						
Comments:							
	SIP	SUT		ISDN			
	INVITE →		→	SETUP			
	180 Ringing ←		←	ALERT			
	200 OK INVITE		+	CONN			
	ACK →						
	BYE		+	DISC			
	200 OK BYE →		→	REL			

SI_XXSSOIR13	ISDN reference to: EN 300 092-1 [i.14], clause 9.3	[i.14], clause 9.3 Q.1912.5 [51], clause 6.1			
	EN 300 403-1 [i.3],				[49], clause 6.1.3.6
	clauses 4.5.10, 4.5.11		ES 283 (48], clause 7.2.3.1.2.6
T00 (D: 1 5 1 1 0 0 0 1		11 22 24 5		183 007 [43]
TSS reference:	Private Extensions to SIP for Ass			ruste	ed Networks
Selection criteria:	The user subscribes OIR "permai			I) (I T F	
Test purpose:	Ensure that the SUT in the Idle st				
	the SIP From header fie format of a tel URI has it			IKI (F	PIXIT) with an identity in the
	the priv-value componer				. I'
			mation element	is a	elivered to the called user
SIP Parameter values:	without any digit informa Dial string parameters options=Pl				
oir raidilletei values.	Diai string parameters options=Fi	IVII			
	PIXIT for supported header:				
	Case a) no 100 rel				
	Case b) Supported: 100 rel				
	Case c) Supported: 100 rel and p	recon	dition		
	a = line (PIXIT)				
	b = line (PIXIT)				
	m = line (PIXIT)				
Comments:	015			1	
	SIP		SUT		ISDN
	INVITE -			→	SETUP
	180 Ringing			(ALERT
	200 OK INVITE			+	CONN
	ACK =	7			
	BYE	_		+	DISC
				→	
	200 OK BYE	7		7	REL

SI_XXSSOIR14	ISDN reference to: EN 300 092-1 [i.14], clause 9.3 EN 300 403-1 [i.3], clauses 4.5.10, 4.5.11	Q.1912 EN 383 ES 283 02	reference to: 51], clause 6.1.3.6 [49], clause 6.1.3.6 48], clause 7.2.3.1.2.6 183 007 [43]				
TSS reference:	Private Extensions to SIP for Asserte		uste	ed Networks			
Selection criteria:	The user subscribes OIR "permaner						
Test purpose:	Ensure that the SUT in the Idle state, on receipt of a INVITE message where: the SIP P-Preferred-Identity containing a SIP URI (PIXIT) in the format of a tel URI has been received the priv-value component is set to "none" the SIP From header field containing a SIP URI (PIXIT) with an identity in the format of a tel URI has been received the Calling party number information element is delivered to the called user						
SIP Parameter values:	without any digit information Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)						
Comments:							
	SIP	SUT		ISDN			
	INVITE →		<u>→</u>	SETUP			
	180 Ringing ←		(ALERT			
	200 OK INVITE		(CONN			
	ACK →						
	BYE ←		-	DISC			
	200 OK BYE →		→	REL			

SI_XXSSOIR15	ISDN reference to: EN 300 092-1 [i.14], clause 9 EN 300 403-1 [i.3], clauses 4.5.10, 4.5.11		Q.19 EN 38 ES 283	NGN reference to: Q.1912.5 [51], clause 6.1.3.6 EN 383 001 [49], clause 6.1.3.6 ES 283 027 [48], clause 7.2.3.1.2.6 TS 183 007 [43]						
TSS reference:	Private Extensions to SIP for Ass	Private Extensions to SIP for Asserted Identity within Trusted Networks								
Selection criteria:	The user subscribes OIR "perma	anent	mode"							
Test purpose:	 Ensure that the SUT in the Idle state, on receipt of a INVITE message where: the SIP P-Preferred-Identity containing a SIP URI (PIXIT) in the format of a tel URI has been received the priv-value component is set to "none" the SIP From header is set to anonymous the Calling party number information element is delivered to the called user 									
SIP Parameter values:	without any digit information Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)									
Comments:										
	SIP		SUT		ISDN					
		→		→	SETUP					
	100111191119	+		+	ALERT					
		+		+	CONN					
	ACK	→		-						
	BYE	(+	DISC					
	200 OK BYE	→		→	REL					

6.2.2.3 TIP/COLP

SI_XXSSCOLP01	ISDN referenc EN 300 092-1 EN 300 403-1	[i.14]		_	eference to: 83 008 [44]		
TSS reference:	SIP-ISDN/SS/COLP						
SIP selection criteria:							
ISDN Parameter criteria:	Temporary presentation allowed						
Test purpose:	Ensure that the SUT on receipt of an CONNECT message with a Connected Party Number information element coded Address presentation restricted parameter = presentation allowed nature of address indicator = ISDN_NAI Numbering plan indicator = ISDN/Telephony numbering plan Screening indicator = ISDN_SI Address signals included sends a 200 OK INVITE to the UAC with a P-Asserted-Identity header field containing a URI with an identity in the format of a tel URI has been received.						
SIP Parameter values:	PIXIT for supported hear Case a) no 100 rel Case b) Supported: 100	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT)					
ISDN Parameter values:	CONNECT; Connected number						
Comments:							
	SIP		SUT		ISDN		
	INVITE	→		→	SETUP		
	180 Ringing	← ALERT					
	200 OK INVITE	+		←	CONN		
	ACK	→					
	BYE	+		+	DISC		
	200 OK BYE	→		→	REL		

Values for test purposes SI_XXSSCOLP01				
VA_01	ISDN_NAI = national number, '010'B			
	ISDN_SI = user provided verified and passed, '01'B			
VA_02	ISDN_NAI = national number, '010'B B			
	ISDN_SI = user provided, not screened, '00'B			
VA_03	ISDN_NAI = international number, '001'B			
	ISDN_SI = user provided, not screened '00'B			
VA_04	ISDN_NAI = international number, '001'B			
	ISDN_SI = user provided, verified and passed '01'B			

SI_XXSSCOLP02	ISDN reference EN 300 092-1 [EN 300 403-1	i.14]			NGN refer TS 183 0			
TSS reference:	SIP-ISDN/SS/COLP							
SIP selection criteria:								
ISDN Parameter criteria:	Temporary presentation a	llowed	t					
Test purpose:	Number information eleme	Ensure that the SUT on receipt of an CONNECT message without a Connected Party Number information element sends a 200 OK INVITE to the UAC with a P-Asserted-Identity header field containing a URI with an identity in the format of a tel URI has been received.						
SIP Parameter values:	PIXIT for supported header Case a) no 100 rel Case b) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 recase c) Supported: 100 re	Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT)						
ISDN Parameter	CONNECT;							
values:	Connected number							
Comments:			T					
	SIP			SUT		ISDN		
	INVITE	<u>→</u>			→	SETUP		
	180 Ringing	-			+	ALERT		
		200 OK INVITE ← CONN						
	ACK	→						
	BYE	+			+	DISC		
	200 OK BYE	→			→	REL		

SI_XXSSCOLP03	ISDN reference EN 300 092-1 [EN 300 403-1		NGN reference to: TS 183 008 [44]				
TSS reference:	SIP-ISDN/SS/COLP						
SIP selection criteria:							
ISDN Parameter	Temporary presentation al	llowed	l				
criteria:							
Test purpose:	Ensure that the SUT on receipt of an CONNECT message with a Unscreened Connected Party Number information element sends a 200 OK INVITE to the UAC with a P-Asserted-Identity header field containing a URI with an identity in the format of a tel URI has been received. The unscreened number is delivered in a From Header of the UPDATE request send after the 200 OK INVITE.						
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)						
ISDN Parameter	CONNECT;						
values:	Connected number, scree	ening	ndicator us	er provided	I not verified		
Comments:	OID I	1		01.17		10011	
	SIP			SUT		ISDN	
	INVITE	→			→	SETUP	
	180 Ringing	+			(ALERT	
	200 OK INVITE	<u>+</u>			+	CONN	
	ACK	→					
	UPDATE	<u>+</u>					
	200 OK UPDATE	→				DIOO	
	BYE	<u>+</u>			<u>+</u>	DISC	
	200 OK BYE	→			→	REL	

6.2.2.4 TIR/COLR

SI_XXSSCOLR01	ISDN reference EN 300 092-1 EN 300 403-1	[i.14]		NGN reference to: TS 183 008 [44]				
TSS reference:	SIP-ISDN/SS/COLP		•					
SIP selection criteria:								
ISDN Parameter criteria:	Temporary presentation allowed							
Test purpose:	Ensure that the SUT on receipt of an ANM message with a Connected Party Number information element coded: • Address presentation restricted parameter = presentation restricted, • Nature of address indicator = ISDN_NAI • Numbering plan indicator = ISDN/Telephony numbering plan • Screening indicator = ISDN_SI • Address signal included • sends a 200 OK INVITE to the UAC with • A P-Asserted-Identity header field containing a URI has not been received • APrivacy header field was received and the priv-value component is set to							
SIP Parameter values:	"id". Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)							
ISDN Parameter values:	CONNECT; Connected number							
Comments:								
	SIP		SUT		ISDN			
	INVITE	→		→	SETUP			
	180 Ringing ← ALERT							
	200 OK INVITE	+		+	CONN			
	ACK →							
	BYE	+		+	DISC			
	200 OK BYE	→		→	REL			

	Values for test purposes SI_XXSSCOLR01				
VA_01	ISDN_NAI = national number, '010'B				
	ISDN_SI = user provided verified and passed, '01'B				
VA_02	ISDN_NAI = national number, '010'B B				
	ISDN_SI = user provided, not screened, '00'B				
VA_03	ISDN_NAI = international number, '001'B				
	ISDN_SI = user provided, not screened '00'B				
VA_04	ISDN_NAI = international number, '001'B				
	ISDN_SI = user provided, verified and passed '01'B				

SI_XXSSCOLR02	ISDN reference EN 300 092-1				NGN refer									
	EN 300 403-1				10 100 0	,00 [44]								
TSS reference:	SIP-ISDN/SS/COLP													
SIP selection criteria:														
ISDN Parameter criteria:	Permanent presentation	restr	cted											
Test purpose:	Ensure that the SUT on Number information eler	Ensure that the SUT on receipt of an CONNECT message with a Connected Party Number information element coded: • Address presentation restricted parameter = presentation allowed • Nature of address indicator = ISDN_NAI • Numbering plan indicator = ISDN/Telephony numbering plan • Screening indicator = ISDN_SI • Address signals included • Sends a 200 OK INVITE to the UAC with • A P-Asserted-Identity header field has not been received • A Privacy header field was received and the priv-value component is set to												
	"id".				•	•								
SIP Parameter values:	Dial string parameters of PIXIT for supported hear Case a) no 100 rel Case b) Supported: 100 Case c) Supported: 100 a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)	der:		ition										
ISDN Parameter values:	CONNECT; Connected number													
Comments:														
	SIP			SUT		ISDN								
	INVITE	→			→	SETUP								
	180 Ringing	+			+	ALERT								
	200 OK INVITE	+			+	CONN								
	ACK	→												
	BYE	+			+	DISC								
	200 OK BYE	→			→	REL								

	Values for test purposes SI_XXSSCOLR02
VA_01	ISDN_NAI = national number, '010'B
	ISDN_SI = user provided verified and passed,
	'01'B
VA_02	ISDN_NAI = national number, '010'B B
	ISDN_SI = user provided, not screened, '00'B
VA_03	ISDN_NAI = international number, '001'B
	ISDN_SI = user provided, not screened '00'B
VA_04	ISDN_NAI = international number, '001'B
	ISDN_SI = user provided, verified and passed
	'01'B

SI_XXSSCOLR03	ISDN referenc EN 300 092-1 EN 300 403-1	[i.14]			NGN refer TS 183 0	
TSS reference:	SIP-ISDN/SS/COLP					
SIP selection criteria:						
ISDN Parameter criteria:	Temporary presentation	restri	cted			
Test purpose:	format of a tel l	K IN\ dentit JRI h	/ITE to the by header fies as not beer	JAC with ld containing received	g a URI with	connected number: an identity in the
SIP Parameter values:	Dial string parameters of PIXIT for supported head Case a) no 100 rel Case b) Supported: 100 Case c) Supported: 100 a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)	der: rel		tion		
ISDN Parameter values:	CONNECT; Connected number					
Comments:						
	SIP			SUT		ISDN
	INVITE	→			→	SETUP
	180 Ringing	+			←	ALERT
	200 OK INVITE	+			←	CONN
	ACK	→				
	BYE	+			-	DISC
	200 OK BYE	→			→	REL

6.2.2.5 CFU

6.2.2.5.1 CFU - SIS

SIS_XXS	SCFU 01		E	V 30	reference 00 207-1 [i. 6.1, 9.2.2,	5],	2.5				GN refero				
TSS refere	nce:	SIP	-ISDN-	SIP	/Suppleme	nta	ry_service	s/CI	FU						
Configurati	on:	The	user A	an	d the user (Са	re in netwo	ork l	N1. The use	r B	is in netv	vork	N2 and is	provided	
									Configuration						
Selection of	riteria:				by the net										
		Cal	l forwar	ding	g uncondition	ona	l supporte	d							
Test purpo	se:								call is forwar	rde	d to user	C.			
									e voice tran				ia and B-ch	annels is	
					rectly (e.g.										
ISDN Para	meter	_	= PIXIT		, , ,				,						
values:															
SIP Param	eter	Dia	al strinc	ı na	rameters	ont	tions=PIX	ΙΤ							
values:			9	י אין		٠,		• •							
values.		DIV	/IT fa												
					ported he	aa	er:								
			se a) no												
					orted: 100 r										
		Cas	se c) Su	ippo	orted: 100 r	el a	and precor	ditio	on						
		a =	line (PI	XIT)										
		b =	line (PI	XIT)										
		m =	= line (P	IXI	Γ)										
Comments	:		,												
ISDN 1	ISDN 2	2	MGC	F	I-CSCF		S-CSC	F	P-CSCF		UE-A		UE	E-C	
										+	INVITE				
						+	INVITE	4	INVITE			-			
				+	INVITE	_	INVITE								
				→	181	→	181	→	181	→	181				
				→	INVITE	→	INVITE	→	INVITE			→	INVITE		
				+	180	+	180	+	180	+	180	+	100 Trying 180		
				→	180	→	180	→	180	→	180	Ì	100		
				+	200 OK	+	200 OK	+	200 OK			+	200 OK		
		\vdash	 	→	ACK 200 OK	→	ACK 200 OK	→	ACK 200 OK	→	200 OK	→	ACK		
		\vdash		+	ACK	+	ACK	7	ACK	7	ACK	\vdash	 		
				+	BYE	+	BYE	+	BYE			+	BYE		
				→	200 OK BYE	→	200 OK BYE	1	200 OK BYE	Ų		→	200 OK BYE		
		\vdash		→	BYE 200 OK BYE	→	BYE 200 OK BYE	→	BYE 200 OK BYE	→	BYE 200 OK BYE	 	ļ		
		I .		_	ZUU UN BYE	_	200 ON BYE	_	ZUU UN BYE	_	ZUU UN BYE	Ц	1		

SIS_>	XSSCF	U 02		E	SDN refere N 300 207 uses 6.1, 9	'-1 [i.5],			١	IGN refer TS 183 0			
TSS refer	ence:		SIP-	ISD	N-SIP/Sup	pler	nentary_se	rvic	es/CFU					
Configura	ition:		The with "dive	use CFl ertin	r A and the J "calling u g number i	us ser s re	er C are in is notified of leased to the	neto of ca ne c	work N1. T all diversion liverted-to	n wi use	th diverted r" = Yes, "s	l to no serve	rk N2 is pro umber" = Y d user rece	es, eives
			Con	figui	ration.			forv	varded" = `	Yes)	. User B h	as a	point-to-mu	ıltipoint
Selection	criteria:		Call	forv	varding by varding und ications su	cond	ditional sup	port	ed					
Test purpose: Ensure that when user A calls user B, the call is forwarded to user C, user A is notific of call diversion and informed of the diverted-to number (user C has presentation allowed - no COLR) and user C is informed of the forwarding number (user B has presentation allowed). User B is notified of call diversion. Ensure that in the active call state (N10) the voice transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters). SIP Parameter values: Dial string parameters options=PIXIT													ion has	
SIP Para	meter va	lues:	PIXI Case Case Case b = I	T fo e a) e b) e c) ine	r supported no 100 rel Supported	d he	ader:							
Commen	ts:													
ISDN 1	ISDN	12	MGC	F	I-CSCF	: 	S-CSCI	= 	P-CSCI	F •	UE-A	\ 	UE-	-C
								+	INVITE					
				+	INVITE	+	INVITE							
 				→	181	→	181	→	181	→	181			
				→	INVITE	→	INVITE	→	INVITE			→	INVITE	
										۰		+	100 Trying	
		 		←	180 180	+	180 180	+	180 180	+	180 180	+	180	
 				+	200 OK	+	200 OK	+	200 OK	7	100	+	200 OK	
	1			→	ACK	→	ACK	→	ACK			→	ACK	
				→	200 OK	→	200 OK	→	200 OK	→	200 OK			
		 		+	ACK	+	ACK	+	ACK	+	ACK	_	DVE	
 				←	BYE 200 OK BYE	→	BYE 200 OK BYE	←	BYE 200 OK BYE			←	BYE 200 OK BYE	
				÷	BYE	÷	BYE	→	BYE	→	BYE			
				+	200 OK BYE	+	200 OK BYE	+	200 OK BYE	+	200 OK BYE			

SIS_XXSSCFU 03	EN claus	N referenc 300 207-1 es 6.1, 9.2.	[i.5 2, 9],).2.5			N	IGN referei TS 183 004						
TSS reference:		SIP/Suppler												
Configuration:	CFU "callin number is	g user is no eleased to	otifi the	ed of call o diverted-t	dive o us	rk N1. The rsion with di ser" = Yes, ' er B has a p	ver 'sei	ted to numl rved user re	oer" ecei	= Yes, "div ves notifica	verting ition that			
Selection criteria:	Call forwar Call forwar CF Notifica	ding by the ding uncond tions suppo	net ditio	work onal suppo d	rtec	I				-				
Test purpose:	call diversion COLR) allowed). Uensure that	nsure that when user A calls user B, the call is forwarded to user C, user A is notified of all diversion and informed of the diverted-to number (user C has presentation allowed - o COLR) and user C is informed of the forwarding number (user B has presentation llowed). User B is not notified of call diversion. Insure that in the active call state (N10) the voice transfer on the media and B-channels performed correctly (e.g. testing QoS parameters). ial string parameters options=PIXIT												
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)													
Comments:														
ISDN 1 ISDN 2	MGCF	I-CSCF		S-CSC	F	P-CSCF		UE-A	1	UE	-C			
	+	INVITE	+	INVITE		INVITE								
	→	181 INVITE	→	181 INVITE		181 INVITE	→	181	→	INVITE 100 Trying				
	←	180 180	←	180 180	→	180 180		180 180	+	180				
	← →	200 OK ACK 200 OK	←	200 OK ACK 200 OK	→	200 OK ACK 200 OK	→	200 OK	←	200 OK ACK				
	÷	ACK BYE 200 OK BYE	←	ACK BYE 200 OK BYE	+	ACK BYE 200 OK BYE	+	ACK	←	BYE 200 OK BYE				
	→ +	BYE 200 OK BYE	→ ←	BYE 200 OK BYE	→	BYE 200 OK BYE		BYE 200 OK BYE	Ĺ	200 011 212				

S	IS_X	XSSCF	U 04			ISDN refer EN 300 20 auses 6.1,	7-1	[i.5],				NGN ref					
TSS	refer	ence:		SIP-	ISE	N-SIP/Sup	ple	mentary_s	erv	ices/CFU							
Conf	figura	tion:		prov Yes rece	ide , "d ive	d with CFU verting nun	"ca nbe n th	alling user i er is release nat the call	is n	etwork N1. otified of case the diverted been forward to the diverted been forward to the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick of the thick o	all d ed-	iversion w to user" =	ith No	diverted to , "served υ	number" = Iser		
Sele	ction	criteria	•	Call Call CF I	for for Not	warding by warding und fications su	the con	network ditional sup orted	•								
Test	purp	ose:		notif pres num Ens	Ensure that when user A calls user B, the call is forwarded to user C, user A is notified of call diversion and not informed of the diverted-to number (user C has presentation not allowed - COLR) and user C is not informed of the forwarding number (user B has presentation not allowed). User B is not notified of call diversion. Ensure that in the active call state (N10) the voice transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters). Dial string parameters options=PIXIT												
Com	ment	s:															
ISD	N 1	ISDN	12	MGC	F	I-CSCF		S-CSCF		P-CSCF		UE-A		U	E-C		
							+	INVITE	+	INVITE	-		1				
					+	INVITE	_	IINVIIE	╁		-			1			
					↑	181	→	181		181	→	181					
					→	INVITE	→	INVITE	→	INVITE			→	INVITE			
					+	180	+	180	+	180	+	180	+	100 Trying 180			
					1	180	→	180	→	180		180					
					+	200 OK		200 OK		200 OK			+	200 OK			
					→	ACK	→	ACK		ACK		200 OK	→	ACK			
					7 ←	200 OK ACK	7	200 OK ACK		200 OK ACK		200 OK ACK	1	1			
					+	BYE	÷	BYE		BYE	†	011	+	BYE			
					1	200 OK BYE	→	200 OK BYE	→	200 OK BYE			→	200 OK BYE			
					→	BYE	→	BYE		BYE		BYE					
					+	200 OK BYE	+	200 OK BYE	+	200 OK BYE	+	200 OK BYE	<u> </u>	L	l		

SIS_>	XXSS	CFU ()5	ISDN reference to: NGN reference to:														
					ΞN	300 207-1	i.5	1.				TS 183 00	4 [4	1 51				
						es 6.1, 9.2.2							٠	-				
TSS ref	feren	ce.				SIP/Supplen			es	/CFU								
Configu										network N1	т	ne user R is	e in	network N	2 and is			
Cornigo	iialio	11.		provided			51 C	and D are	, 111	HELWOIK IN I	. !!	ie usei Di	3 111	HELWOIK IN	2 4110 15			
			1							J. NIA. The second		- D :	_11	al- OFILI	U = = 115			
										rk N1. The u								
										erted to num								
										served user					e call has			
									ро	int-to-multip	oin	t Configura	tio	า.				
Selection	on cri	teria:		Call forw	arc	ling by the r	net	work										
				Call forw	arc	ling uncond	itio	nal suppor	ted									
						ions suppo												
Test pu	rpose	e:			sure that when user A calls user B, the call is forwarded to user C, user A is notified of													
					Il diversion and not informed of the diverted-to number (user C has presentation lowed - no TIR) and user C is not informed of the forwarding number (user B has													
					esentation not allowed). User B is not notified of call diversion.													
					esentation not allowed). User B is not notified of call diversion. Sure that in the active call state (N10) the voice transfer on the media and B-channels													
SIP Par		4		Dial atric	s performed correctly (e.g. testing QoS parameters). bial string parameters options=PIXIT													
		ter		Diai strin	g p	arameters	opt	ions=Pixi i										
values:				DIVIT (
						pported he	ade	er:										
				Case a)														
						pported: 10												
			1	Case c)	Sup	oported: 100	o re	el and prec	onc	lition								
				a = line (P	(IT)												
				b = line (PΙ	(IT)												
				m = line	(PI	XIŤ)												
Comme	ents:					•												
ISDN		ISDN	12	MGC	F	I-CSCF		S-CSCF	=	P-CSCF		UE-A		UE	E-C			
												INVITE						
							,	IND STEE	+	INVITE								
-					+	INVITE	+	INVITE	╁		 							
 					`	INVITE	→	INVITE	→	INVITE	1		→	INVITE	1			
					Ţ		Ţ				Ļ		+	100 Trying				
-					↓ ↑	180 180	↓ ↑	180 180	←	180 180	←	180 180	+	180	 			
+					+	200 OK	7	200 OK		200 OK	7	100	+	200 OK				
					1	ACK	1	ACK	1	ACK	L		→	ACK				
\vdash					수 4	200 OK	↑ ↓	200 OK	→	200 OK ACK		200 OK						
+					+	ACK BYE	+	ACK BYE		BYE	-	ACK	+	BYE	1			
				<u> </u>	1	200 OK BYE	1	200 OK BYE	→	200 OK BYE	L		→	200 OK BYE				
					↑ (BYE	↑ (BYE		BYE		BYE						
					+	200 OK BYE	+	200 OK BYE	+	200 OK BYE	+	200 OK BYE			1			

SIS_XXSS			E cla	EN :	N reference 300 207-1 es 6.1, 9.2.2	[i.5] 2, 9	l, .2.5			N	IGN refere TS 183 00			
TSS reference	e:	SIP-IS	SDN	1-SI	P/Supplem	ent	ary_servic	es/	CFU					
Configuration	1:								N1. The ut- t-to-point C			two	rk N2 and	is provided
Selection crit	eria:				activated th ng uncond				g service performed l	by tl	ne UE			
Test purpose	:	active	ca	ll st		he v	oice trans	fer (e call is forw on the med					
SIP Parameter values: Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)														
	ICDI	\	N 4 C	· C F	1.000	_	0.000		D CCCI					F 0
ISDN 2	ISDI	N I	MG	UF	I-CSCF		S-CSCI	<u> </u>	P-CSCI		UE-A		U	E-C
						+	INVITE	+	INVITE	_	INVITE			
	s	ETUP	+	+	INVITE									
	F	AC	→	→	181	→	181		181	→	181			
		EL	+	→	INVITE	→	INVITE	→	INVITE			→	INVITE	
	R	LC	→									+	100 Trying	
				+	180	+	180		180		180	+	180	
				→	180	→	180		180	→	180	Ļ		
	 		<u> </u>	É	200 OK	+	200 OK		200 OK	_	ļ	+	200 OK	
	 		<u> </u>	→	ACK	→	ACK		ACK	┿	222 014	→	ACK	
	 			→	200 OK	→	200 OK		200 OK	→	200 OK		1	
	 			+	ACK	+	ACK		ACK	+	ACK	_	DVE	
	 		<u> </u>	+	BYE	+	BYE		BYE			+	BYE 200 OK BYE	
	 			→	200 OK BYE BYE	→	200 OK BYE BYE		200 OK BYE BYE		BYE	7	ZUU UK BYE	
	 		<u> </u>	7 ←	200 OK BYE		200 OK BYE		200 OK BYE		200 OK BYE	-	1	
LI			l		200 ON DIE		ZUU UN DIE		200 ON DIE	1	ZUU UN DIE	<u> </u>	1	

		SCFU 0		cla:	EN :	N reference 300 207-1 [s 6.1, 9.2.2	i.5 2, 9], .2.5			١	IGN refere TS 183 00			
TSS ref			SIF	P-ISDN	1-S	IP/Supplem	nen	tary_servi	ces/	CFU					
Configu	ıratioı	n:	wit Ye:	h Parti s, "div	ial I erti	Rerouting "o	call	ing user is	not	k N1. The u ified of call diverted-to	div	ersion with	ı div	erted to n	
Selection	on cri	teria:				activated thing uncond				ng service performed l	by t	he UE			
Test purpose: Ensure that when user A calls user B, the call is forwarded to user C, user A is notified call diversion and informed of the diverted-to number (user C has presentation allowed no COLR) and user C is informed of the forwarding number (user B has presentation allowed). Ensure that in the active call state (N10) the voice transfer on the media and B-channe performed correctly (e.g. testing QoS parameters). SIP Parameter values: Dial string parameters options=PIXIT													allowed - ntation		
SIP Par	ramet	ter valu	PI) Ca	(IT for se a) r	su	oported hea	ade	er:	•						
			Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)												
Comme	ents:														
ISDN	12	ISE	N 1	MGC	F	I-CSCF		S-CSC	F	P-CSCF		UE-A	1	U	E-C
									+	INVITE	┢	IIIVIIL			
							+	INVITE							
			SETUP	+	+	INVITE	Ļ		4						
			FAC REL	→	→	181 INVITE	→	181 INVITE		181 INVITE	→	181	→	INVITE	
			RLC	→	7	IIIVIIL	7	IIIVIIL	+	INVIIL			+	100 Trying	
				ľ	+	180	+	180	+	180	+	180	÷	180	
					→	180	→	180	→	180	→	180			
					+	200 OK	+	200 OK		200 OK			+	200 OK	
					→	ACK	→	ACK		ACK	<u> </u>	200 OK	→	ACK	
<u> </u>	-	-)	200 OK ACK	7	200 OK ACK		200 OK ACK	7	200 OK ACK	1		
		1	1		+	BYE	+	BYE		BYE	✝	7.01	+	BYE	
					→	200 OK BYE		200 OK BYE		200 OK BYE			→	200 OK BYE	
					→	BYE	→	BYE		BYE		BYE			
	l				+	200 OK BYE	+	200 OK BYE	+	200 OK BYE	+	200 OK BYE			

SIS_XXSSCFU 0	8			eference to						3N refere					
				207-1 [i.5]					7	S 183 00	4 [4	5]			
		clause	s 6	.1, 9.2.2, 9	.2.	5									
TSS reference:	SIP-	ISDN-SI	P/S	Supplement	ary	_services/	<u>CF</u> l	J							
Configuration:								1. The user							
								d of call dive							
	"dive	rting nu	mbe	er is releas	ed	to the dive	rtec	l-to user" =	No.	User B ha	as a	point-to-p	oint		
	Conf	iguration	١.												
Selection criteria:	User	B has a	ctiv	ated the P	arti	al Reroutir	ng s	ervice							
								formed by th	ne l	JE					
Test purpose:	Ensu	re that v	whe	n user A ca	alls	user B, the	e ca	all is forward	ded	to user C.	, us	er A is noti	ified of call		
' '								number (u							
								warding nur							
	allow	•						Ü		`		•			
			n th	ne active ca	ıll s	tate (N10)	the	voice trans	fer	on the me	dia	and B-cha	nnels is		
				ctly (e.g. te											
SIP Parameter valu								,							
	PIXI.	PIXIT for supported header:													
		a) no 1													
				ted: 100 re	l										
				ted: 100 rel		d precond	itior	า							
		-/													
	a = li	ne (PIX	T)												
		ne (PIX													
		line (PIX	,												
Comments:		(11	,												
	ISDN 1	MGC	F	I-CSCF	:	S-CSC	F	P-CSCF	:	UE-A		U	E-C		
										INVITE					
					+	INVITE	+	INVITE							
	SETU	+	+	INVITE	_	INVITE									
	Р				L										
	FAC REL	→	→	181 INVITE	→	181 INVITE		181 INVITE	→	181	→	INVITE			
	RLC	→	_	INVIIL	ŕ	IIIVIIL	ť	IIIVIIL	-		÷	100 Trying			
			+	180	+	180		180		180	+	180			
			→	180 200 OK	→	180 200 OK		180 200 OK	→	180	+	200 OK			
			→	ACK	→	ACK	→	ACK			→	ACK			
			→	200 OK	→	200 OK	→	200 OK	→	200 OK					
			+	ACK BYE	+	ACK BYE		ACK BYE	+	ACK	+	BYE			
			`	200 OK BYE	→	200 OK BYE		200 OK BYE			`	200 OK BYE			
			→	BYE	→	BYE		BYE		BYE					
	1		+	200 OK BYE	+	200 OK BYE	+	200 OK BYE	+	200 OK BYE	<u> </u>				

SIS_XX	(SSC	FU (9		_	ON referend I 300 207-1					I	NGN refero						
				cl		ses 6.1, 9.2						10 100 0	V-1	[-0]				
TSS refere	ence.					SIP/Supple			ice	s/CFU								
Configurat										n network N	1	The user P	l is	in network	N2 and is			
Comigara	.1011.					vith Partial F			C 1	II HOLWOIK IN	• •	THE USE E	, 13	iii iictwoii	112 414 15			
									or	R is provide	d v	vith Partial	P۵	routing "co	alling user is			
				notifica	ıo∣ Iof	call diversi	ווו ארט	vith divorto	9 t	o number" =	u v . Ni	o "divortio	4 DI	umboric r	ologood to			
										a point-to-p					eleaseu io			
Selection	criteri	a:		User B	ha	s activated	the	Partial Re	rou	ting service								
				Call for	wa	rding uncon	diti	ional suppo	rte	d performed	d b	y the UE						
						ations supp				•	-	•						
Test purpo	ose:								В.	the call is fo	rwa	arded to us	ser	C. user A	is notified of			
					Il diversion and not informed of the diverted-to number (user C has presentation not													
					owed - TIR) and user C is not informed of the forwarding number (user B has esentation not allowed).													
									N11	1) the voice	tra	nsfer on th	e n	nedia and	B-channels			
					nsure that in the active call state (N10) the voice transfer on the media and B-channels performed correctly (e.g. testing QoS parameters).													
ISDN Para	mete	r va	luge.		C = PIXIT													
SIP Paran						parameters	. 01	ntions-DIYI	т									
Oil I alaii	icici	vaiu	C3.	Diai Sti	iiig	parameters	, O	ואו ו–1ווטווט	•									
				DIVIT 6	or c	supported h	^^	dor.										
						o 100 rel	ta	Jei.										
							^^	ral										
						upported: 1				al:4: a.a								
				Case c) 5	upported: 10	UU	rei and pre	COI	idition								
					(D	I)/IT)												
				a = line														
				b = line														
				m = lin	e (F	ʻIXII)												
Comment		001		1400		10005		0.0005		D 000E					JE 0			
ISDN 1		SDN	12	MGC	<u> </u>	I-CSCF		S-CSCF		P-CSCF	_	UE-A		U	E-C			
		-							+	INVITE	_	INVITE						
							+	INVITE										
		SE FA	TUP	←	+	INVITE			-		-	1	-					
		RE		+	→	INVITE	→	INVITE	→	INVITE			→	INVITE				
			_C	→									+	100 Trying				
	_	_			+	180 180	→ →	180 180	←	180 180	←	180 180	+	180				
	_	-			7 ←	200 OK	7	200 OK		200 OK	7	100	+	200 OK				
					→	ACK	→	ACK	→	ACK	L		→	ACK				
	_				→	200 OK ACK	↑ ↓	200 OK ACK		200 OK ACK		200 OK ACK						
	_	+			+	BYE	+	BYE		BYE	F	AUN	+	BYE				
					→	200 OK BYE	→	200 OK BYE	→	200 OK BYE			→	200 OK BYE				
		_			→	BYE	→ 4	BYE		BYE		BYE						
				l	+	200 OK BYE	←	200 OK BYE	7	200 OK BYE	7	200 OK BYE	<u> </u>	1				

SIS_XX	SSCFU 1	10			ON referend I 300 207-1					ı	NGN refe TS 183 (
			cla		es 6.1, 9.2												
TSS refere	nce:		SIP-ISE	N-	SIP/Supple	me	ntary_serv	ice	s/CFU								
Configuration	on:		The use	er E	is in netwo	ork	N2 and is p	oro	vided with (CFL	User B h	nas	a point-to-	multipoint			
			Configu	ırat	ion.		_						-	-			
Selection c	riteria:		Call for	war	ding by the	ne	twork										
					ding uncon			rte	d								
			user C	is u	ser determ	ine	d user busy	y									
Test purpos	se:		To verif	y th	nat a call is	rel	eased corre	ectl	y if CFU w a	as r	ot succe	ess	ful.				
													etermined u	ser busy.			
SIP Parame	eter valu	es:												<u> </u>			
				Dial string parameters options=PIXIT													
			PIXIT for supported header:														
					100 rel												
					upported: 1	იი	rel										
					apported: 1			cor	dition								
			0 4.00 0,	, .		••	. о. аа. р. о										
			a = line	(P	IXIT)												
			b = line														
			m = line														
Comments			111 – 11110	<i>,</i> (1	17(1)												
ISDN 2	ISDI	J 1	MGC	F	I-CSCF	:	S-CSCF	=	P-CSCI	=	UE-A		П	E-C			
100112	100.	<u> </u>	IVICO		1 0001	T	0 0001		1 0001		INVITE			1			
								+	INVITE								
				+	INVITE	+	INVITE										
				→	181	→	181	→	181	→	181						
				→	INVITE	→	INVITE		INVITE			→	INVITE				
				+	486	+	486		486				486				
				→	ACK	→	ACK		ACK	+	100	→	ACK	ļ			
		-	1	→	486 ACK	→	486 ACK	→	486 ACK		486 ACK	-	 				
			1	_	AUR		AUR	_	AUN		ACK	Ц		l			

SIS_X	XSS	CFU 11		EN	ON reference I 300 207-1 Ses 6.1, 9.2	[i.5	5],				IGN reference TS 183 004 [4		
TSS refer	ence	e:	SIP-I	SDN	-SIP/Supple	eme	ntary_serv	/ice	s/CFU				
Configura	tion		The Conf			ork	N2 and is	pro	vided with (CFU	J. User B has a	point-to-multipo	int
Selection	crite	eria:	Call f	orwa orwa	rding by the rding uncor network det	nditi	onal suppo						
Test purp	ose:		ot successful. no is network d	determined user									
SIP Parar	mete	er values	PIXIT Case Case Case a = li b = li	for s a) no b) S c) S ne (P		ead	der: rel		ndition				
Comment	is:												
ISDN 2	2	ISDN '	I MG	CF	I-CSCF	=	S-CSC	F	P-CSCI	F	UE-A	UE-C	
								Ļ		+	INVITE		
-						+	INVITE	+	INVITE	_			
				+	INVITE	_	INVITE	+		-			
				→	181	→	181		181	→	181		
				→	INVITE	→	INVITE		INVITE				
				<u>+</u>	486	+	486		486	-			
\vdash				→	ACK 486	→	ACK 486	→	ACK 486	→	486		
				+	ACK		ACK		ACK		ACK		

SIS_)	(XSS	SCFU 1	2		ΕN	N referenc 300 207-1 es 6.1, 9.2.	[i.5],					IGN refe TS 183 (
TSS refe	renc	e:		SIP-ISE	N-S	SIP/Suppler	ner	ntary_serv	ces	s/CI	FU						
Configura	ation			The use Configu		is in netwo on.	rk N	N2 and is p	rov	/ide	d with Cl	FU.	User B h	nas	a point-to	-poir	nt
Selection	crite	eria:		Call for user C	vard s ne	ding by the ding uncond etwork dete activated to	ditic rmi	nal suppo ned user b	us	y .		by	the UE				
Test purp	ose:					at a call is r s user B, th										user	busy.
SIP Para		er values		PIXIT fo Case a) Case b)	or su no Su Su (PI)	pported: 10 pported: 10 XIT) XIT)	ado	er: el		ditio	on						
Commen				1		1							1		1		
ISDN	1	ISDN	√2 	MGC	F L	I-CSCF	: 	S-CSC			P-CSCF		UE-A		l	UE-C	;
									+	IN۷	/ITE						
			SETU P	+	+	INVITE	+	INVITE									
			FAC	→	→	181	→	181		181		→	181				
ļ			REL	+	→	INVITE	→	INVITE	→		/ITE			→	INVITE		
<u> </u>			RLC	→	+	486		486		486					486		
 				1	→	ACK 486	→	ACK 486		AC 486		→	486	7	ACK		
}				1	+	ACK		ACK		AC			ACK	1	 	-	
			l	<u> </u>	1.	AUN	· -	AUN		AU	11	1	AUIT	1	l		

SIS_X	(XSS	CFU 13		EN claus	1 30 ses	reference 0 207-1 [i.: 6.1, 9.2.2,	5], 9.2					SN reference S 183 004 [4		
TSS refe	erenc	e:	S	IP-ISDN	I-SII	P/Supplem	enta	ary_service	s/C	CFU				
Configur	ation	:		he user onfigura			N2	and is pro	vid	led with CF	Ū. ι	Jser B has a p	ooint-to-po	pint
Selection	n crite	eria:	C u: U	all forwa ser C is ser B ha	ardir netv as a	work deterr ctivated the	tion nine Pa	al supporte ed user bus artial Rerou	y tin	g service				
Test pur	pose	•										successful. is network de	etermined	user busy.
			P C C C a b	IXIT for ase a) r ase b) S	sup No 10 Supp Supp PIXI	oorted: 100 oorted: 100 T) T)	der rel		ndit	tion				
Commer								1						
ISDN	1	ISDI	N 2	MGC	F	I-CSCF	: T	S-CSCF		P-CSC		UE-A	U	E-C
									+	INVITE	T`			
							+	INVITE						
			SETUP FAC	←	←	INVITE 181	→	181	_	181		181		
			REL	+	7	INVITE	7	INVITE	7	INVITE	7	101		
			RLC	→	+	486	+	486	+	486				
					→	ACK	→	ACK		ACK	4	400		
				-	→	486 ACK	→	486 ACK		486 ACK		486 ACK		-

SISI_XXSSCFU 14	ISDN reference to:	NGN reference to:
	EN 300 207-1 [i.5],	TS 183 004 [45]
	clauses 6.1, 9.2.2, 9.2.5	
TSS reference:	SIP-ISDN-SIP-ISDN/Supplementar	y_services/CFU
Configuration:	The user A and the user C are in ne	etwork N1. The user B is in network N2 and is provided
	with CFU. User D forwards the call	to back to user B. User B has a point-to-multipoint
	Configuration.	
Selection criteria:	Call forwarding by the network	
	Call forwarding unconditional support	orted
Test purpose:	Ensure that when user A calls user	B, the call is forwarded to user C and D.
	User D forwards the call to back to	user B. Ensure that the call is released.
SIP Parameter values:	Dial string parameters options=PIX	IT
	PIXIT for supported header:	
	Case a) no 100 rel	
	Case b) Supported: 100 rel	
	Case c) Supported: 100 rel and pre	condition
	II (DI)(IT)	
	a = line (PIXIT)	
	b = line (PIXIT)	
	m = line (PIXIT)	
Comments:		

6.2.2.5.2 CFU - SII

SII_X	XSS	CFU ()1		E	EN 3	N reference 300 207-1 s 6.1, 9.2.2	i.5	,				NGN refe TS 183			
TSS refe	rence	э:		SIP-IS	SDN	1-IS	DN/Supple	me	ntary_servi	ce	s/CFU					
Configura	ation:			The u	ser	A a	ind the use	r C	are in netw	orl	k N1. The us	ser	B is in ne	etw	ork N2 and	is provided
				with C	FU	. Us	ser B has a	ро	int-to-multip	ooi	nt Configura	tio	n.			
Selection	n crite	ria:					ng by the n									
									nal supporte	be						
Test purp	oose:										e call is forw	ard	ded to use	er (C.	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,															-channels is
									esting QoS	•		۷	101 011 1110		iodia dila B	orial in total to
SIP Para	mote	r vəlu	Δς.				arameters of			pui	amotoroj.					
Oii i aia	iiiicic	i vaiu	C3.	Diai 3	uni	y pc	ilameters c	γριι	0113=1 17(11							
				DIVIT	for	cur	ported hea	do	r-							
							00 rel	uc	١.							
							ported: 100	٠.	ı							
										ر د ما	ition					
				Case	(c)	sup	portea. Toc	re	and preco	nu	illori					
					/-	-11/	· \									
				a = lin												
				b = lin												
				m = liı	1e (PIX	(11)									
Commer				1												
UE E	3	U	E C	M	GC	F_	I-CSCF	:	S-CSCI	=	P-CSCF		UE-A			
										_	INVITE	+	INVITE			
	+		1					+	INVITE	_	INVITE					
	1					+	INVITE	Ī								
	057::		ĻĪ			→	181	→	181	→	181	→	181			
	SETU		←		+-	→	180	→	180	→	180	→	180			
	CONN		÷		+	→	200 OK	→	200 OK		200 OK		200 OK		1	1
						→	ACK	→	ACK		ACK		ACK			
	DISC		←		-	+	BYE	+	BYE		BYE		BYE			
	REL		7			→	200 OK BYE	→	200 OK BYE	7	200 OK BYE	7	200 OK BYE			
	RLC		+		1			1		İ						

	XXSS		02		cla	EN ius	N reference 300 207-1 es 6.1, 9.2	[i.5	5], 9.2.5			N	IGN refere TS 183 00				
TSS ref							ISDN/Supp										
Configu	ration:			prov Yes,	ide "d ica	d w iver tion	vith CFU "ca ting number that the ca	allir er is	ng user is n released t	otif to tl	ork N1. The lied of call d ne diverted- arded" = Ye	ive to ι	rsion with ouser" = Yes	diver s, "se	ted to r erved u	numb ser r	er" = eceives
Selection	n crite	ria:		Call CF N	for lot	war ifica	ding by the ding uncorations supp	nditi orte	onal suppo ed								
Test pu	rpose:			call on Callow Ensu	dive OL ved ure	ersi R) I). U tha	on and info and user C Jser B is no at in the act	ormo is otific ive	ed of the di informed o ed of call di call state (iver f th iver N10	0) the voice	oer g ni tra	(user C ha umber (use	as pre er B l	esentat has pre	tion a	allowed - ation
is performed correctly (e.g. testing QoS parameters). SIP Parameter values: Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)																	
Comme																	
UE	R	U	E C	MC	<u>GC</u>	٢	I-CSCF	-	S-CSCI	<u> </u>	P-CSCF		UE-A				
_					+-	<u> </u>		+		+	INVITE	_	INVITE				
					╁			+	INVITE	Ť	IIIVIIL		1				
						+	INVITE										
	OFTUE		_		₩	→	181	→	181	→	181	→	181				
	SETUP ALERTIN	IG	←		+	→	180	→	180	→	180	→	180				
	CONNEC		,		1	→	200 OK	→	200 OK		200 OK	→	200 OK				
						→	ACK	→	ACK	→	ACK	→	ACK				
	DISC		+		<u> </u>	+	BYE	+	BYE		BYE	+	BYE			_	
	REL		♦			7	200 OK BYE	+	200 OK BYE	→	200 OK BYE	→	200 OK BYE				
	RLC		+														

SII_XXSSCFU 03	ISDN reference to EN 300 207-1 [i.5], clauses 6.1, 9.2.2, 9.	, 2.5	GN reference to: TS 183 004 [45]
TSS reference:	SIP-ISDN-ISDN/Suppleme		
Configuration:	provided with CFU "calling Yes, "diverting number is r	released to the diverted-to u	er B is in network N2 and is sion with diverted to number" = user" = Yes, "served user receives ser B has a point-to-multipoint
Selection criteria:	Call forwarding by the network Call forwarding uncondition CF Notifications supported	nal supported d	
Test purpose:	call diversion and informed no COLR) and user C is in allowed). User B is not not Ensure that in the active ca is performed correctly (e.g	d of the diverted-to number informed of the forwarding nutified of call diversion. all state (N10) the voice trangle testing QoS parameters).	arded to user C, user A is notified of (user C has presentation allowed - umber (user B has presentation hasfer on the media and B-channels
SIP Parameter values:	PIXIT for supported heade Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)	er: el	
Comments:			
UE B UE C	MGCF I-CSCF	S-CSCF P-CSCF	UE-A
	- - - 	← INVITE	INVITE
	← II	NVITE	
	← INVITE		
	→ 181 → 1	181 → 181 →	181
SETUP ← ALERTING →	→ 180 → 1	180 → 180 →	180
CONNECT -			200 OK
	→ ACK → A	ACK → ACK →	ACK
DISC ←			BYE
REL →	→ 200 OK BYE → 2	200 OK BYE → 200 OK BYE →	200 OK BYE
RLC €			

SII_XXSS	CFU	04	c	E	N:	N reference 300 207-1 es 6.1, 9.2.2	[i.5]	,			N	IGN refere TS 183 00				
TSS referen	ce:					DN/Supple			rice	s/CFU						
Configuratio			The us with Cf numbe	er FU er is	A a "ca s re	and the use alling user i leased to the	er C s no he o	are in nety otified of ca diverted-to	vor all c	k N1. The us liversion with er" = No, "se las a point-to	h d erve	iverted to a	num ceiv	nber" = es noti	Yes ficat	s, "diverting
Selection cri	teria:		Call for	rwa tific	ardi cati	ing by the r ing uncond ons suppor	itior ted	nal support		·		·				
Test purpos	e:		call div allowed presen Ensure	ers d - tat e th	sior CC ion at	n and not in DLR) and us not allowe in the active	nfori ser d). e ca	med of the C is not inf User B is r all state (N	div form ot 10)	e call is forwerted-to numed of the fonotified of the transition of the voice transition.	nbe orwall d	er (user C arding nun diversion.	has nbe	presei r (user	ntati B h	on not as
performed correctly (e.g. testing QoS parameters). SIP Parameter values: Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)																
Comments:																
UE B	U	ΕC	MG	SCI	F	I-CSCF	:	S-CSCI	F	P-CSCF		UE-A				
											+	INVITE				
		\sqcup					 _	15 0 475	+	INVITE	1_		ļ			
		\vdash			+	INVITE	+	INVITE	-		1	 				
		+			<u>~</u>	181	→	181	4	181	4	181				
SETU	P	+			<u> </u>		Ť		Ť		ŕ					
ALER:		→			→	180	→	180	→		→	180				
CONN		→			→	200 OK	→	200 OK	→	200 OK	→	200 OK				
					→	ACK	→	ACK	→	ACK	→	ACK				
DISC		+			+	BYE	+	BYE		BYE	+	BYE				
REL		→			→	200 OK BYE	→	200 OK BYE	1	200 OK BYE	→	200 OK BYE				
RLC		+						l				1				

SII_XXSSCFU 05	E clau	DN reference N 300 207-1 Ises 6.1, 9.2	[i.5] .2, 9], .2.5				IGN referer TS 183 004		
		-ISDN/Supp								
	with CFU number is call has be	"calling user released to een forwarde	is noted the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection in the detection	otified of ca diverted-to : no). User	all d use	liversion with er" = No, "se	n d rve	iverted to nued user rece	umber" = eives notif	nd is provided No, "diverting fication that the on.
	Call forwa	ording by the ording uncon- cations support	ditior orted	nal support						
SIP Parameter values:	call divers - no COLF not allowe User B is transfer or parameter Dial string PIXIT for: Case a) n Case b) S Case c) S a = line (F	sion and not in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in and user (in an	of ca and option	med of the not informe II diversion. B-channels ons=PIXIT r:	dived o	erted-to num f the forward nsure that in performed o	nbe ding the	er (user C hang number (user call	as preser user B has state (N1	a is notified of nation allowed is presentation 10) the voice os
	b = line (F	,								
·	m = line (l)	PIALL)								
Comments: UE B UE C	MGCF	I-CSC	F	S-CSC	F	P-CSCF		UE-A		
							+	INVITE		
				INDUTE.	+	INVITE				
 		← INVITE	+	INVITE	+			-		
SETUP ←										
ALERTING →		→ 180	→	180		180	1	180		
CONNECT →		→ 200 OK→ ACK	→ →	200 OK		200 OK ACK	<u>→</u>	200 OK ACK		
DISC ←				ACK			_			
		← IRYE	-	IRYE	-	RYF	←	IRYF I		l l
REL →		★ BYE→ 200 OK BYE	←	BYE 200 OK BYE		BYE 200 OK BYE	←	BYE 200 OK BYE	+	

SII_XXSSCFU 06		E	N	300	eference to 0 207-1 [i.5 6.1, 9.2.2, 9],	5				SN reference to: S 183 004 [45]
TSS reference:	SIP-	-ISDN	1-l	SD	N/Supplem	ent	ary_service	s/(CFU		
Configuration:	The	user	Α	an	d the user (Cai	re in netwo	k١	11. The use		is in network N2 and is provided to Configuration.
Selection criteria:					tivated the I				service rformed by	the	: UE
Test purpose:	Ensi activ	ure th	nat II s	wh tate	nen user A o e (N10) the	call voi	s user B, th ice transfer	e c	all is forwar	de	d to user C. Ensure that in the d B-channels is performed correctly
(e.g. testing QoS parameters). SIP Parameter values: Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)											
Comments:	1		(/						
UE C UE	В	MG	3C	F	I-CSCF		S-CSC	F_	P-CSCF		UE-A
								Ļ	IND OTE	+	INVITE
						+	INVITE	+	INVITE		
	SETL	JP	+	+	INVITE	Ì					
	FAC			→	181	→	181	→	181	→	181
SETUP (+	REL		↓ ↑	_	100	→	100	Ļ	100	→	100
ALERTING → CONNECT →	RLC		7	→	180 200 OK	→	180 200 OK		180 200 OK	→	180 200 OK
CONNECT	+			7	ACK	7	ACK		ACK		ACK
DISC +				-	BYE	+	BYE		BYE	+	BYE
REL →				→	200 OK BYE	→	200 OK BYE	→	200 OK BYE	→	200 OK BYE
RLC ←							L				

SII_XX	SSCF	U 07			E clau	N IS	30(es (eference t 0 207-1 [i.5 6.1, 9.2.2, 9	i], 9.2.						GN reference S 183 004 [4			
TSS refere	nce:			SIP-	-ISDN	1-I	SD	N/Supplem	nen	tary_	service	es/	CFU					
Configurati	on:			The with num	user Parti ber"	A ial =	an Re Ye:	d the user erouting ser	C a vic g nu	re in e "ca umbe	netwo	rk ser	N1. The unit is notified	l of c	3 is in networ all diversion rted-to user"	with o	diverte	ed to
Selection of	riteria	a:						tivated the g uncondition					service					
Test purpose: Ensure that when user A calls user B, the call is forwarded to user C, user A is notified of call diversion and informed of the diverted-to number (user C has presentation allowed - no COLR) and user C is informed of the forwarding number (user B has presentation allowed) Ensure that in the active call state (N10) the voice transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters). SIP Parameter values: Dial string parameters options=PIXIT														llowed - no on allowed).				
performed correctly (e.g. testing QoS parameters).																		
Comments							.,	. ,										
UE C		U	ΕВ		MG	CI	=	I-CSCF		5	S-CSCI		P-CSC		UE-A			
									Ļ		_	+	INVITE					
				SETU	P (+	-	INVITE	۴	INVIT	E	-		-		+-		
				FAC			`	181	→	181		→	181	→	181	+		
	SETUP		+	REL	•	f												
	ALERT		→	RLC			→	180	→	180			180	→	180			
	CONN	CT	→		-		<u>→</u>	200 OK	→	200 C	K	→	200 OK	→	200 OK	_		ļ
-	DISC		+		-		<u>→</u>	ACK BYE	→	ACK BYE			ACK BYE	→	ACK BYE	_		
	REL		-				<u>₹</u>	200 OK BYE	→		K BYE		200 OK BYE	→				1
	RLC		÷			\dashv	<u> </u>	200 OK BIL	ŕ	200 0	DIL	ŕ	200 OK DIL	Ť	200 OK DIL			†

SII_XXSSCFU 08	3	ISDN reference to: NGN reference to: EN 300 207-1 [i.5], TS 183 004 [45]															
					6.1, 9.2.2, 9		5			•	0 100 004	L	~1				
TSS reference:					N/Supplem			es/	CFU								
Configuration:		The use	r A	an	d the user	Са	re in netwo	rk	N1. The use	er E	is in netwo	ork	N2 and is	provided			
									is notified of								
		number'	' =	Yes	s, "diverting	ู ทเ	ımber is rel	lea	sed to the d	ive	rted-to use	r" =	No). User	B has a			
					Configuration												
Selection criteria:			Jser B has activated the Partial Rerouting service														
			Call forwarding unconditional supported performed by the UE														
Test purpose:			Ensure that when user A calls user B, the call is forwarded to user C, user A is notified of														
			all diversion and not informed of the diverted-to number (user C has presentation not														
			lowed - COLR) and user C is not informed of the forwarding number (user B has														
			resentation not allowed).														
			nsure that in the active call state (N10) the voice transfer on the media and B-channels is														
OID D			performed correctly (e.g. testing QoS parameters). Dial string parameters options=PIXIT														
SIP Parameter		Dial strir	ng	par	ameters op	tior	ns=PIXII										
values:		DIVIT 4-				٠											
					orted head	er:											
		Case a)															
					orted: 100 r orted: 100 r		and procon	طiŧi	on								
		Case c)	St	ippi	ortea. 100 i	CI C	and precon	uiti	OH								
		a = line	(PI	ΧIΤ	`\												
		b = line															
		m = line															
Comments:			7.	.,	. ,												
UE C UE	В	MC	ЭC	F	I-CSCF	:	S-CSC	F	P-CSCF	:	UE-A						
											INVITE						
	_		-			+	INVITE	+	INVITE								
		SETUP (INVITE															
		FAC		→	181	→	181	→	181	→	181						
SETUP ALERTING		REL RLC	+	→	180	→	180	+	180	_	180						
	7 →	NLC	7	7 →	200 OK	7	200 OK		200 OK	7	200 OK						
CONTRECT	_		t	→	ACK	,	ACK		ACK	′	ACK		 				
DISC	F		t	+	BYE	+	BYE		BYE	+	BYE						
REL -	→			→	200 OK BYE	→	200 OK BYE		200 OK BYE	→	200 OK BYE						
RLC •	Ĺ				<u> </u>				<u> </u>								

SII_XX	SSC	FU 0	9		cla	EN use	300 es 6	eference t 207-1 [i.5 3.1, 9.2.2, 9	5], 9.2.						SN reference S 183 004				
TSS refe	rence	e:		SIP	-ISDN	N-1 S	108	V/Supplem	enta	ary_sei	rvices/0	CI	FU						
Configura	ation:			The with	user Part	A i ial ver	and Rer	the user (outing ser	C ar vice	e in ne "callin	twork I	N' is	1. The user notified of	ca	is in networ Il diversion " = No). Use	with	n diver	ted t	o number"
Selection	crite	ria:		Cal	Jser B has activated the Partial Rerouting service Call forwarding unconditional supported Ensure that when user A calls user B, the call is forwarded to user C, user A is notified of cal														
Test purp	ose:			dive CO allo Ens	ersion LR) a wed). sure th	an nd nat	d n use in t	ot informe er C is not	d of info call :	the div rmed o	verted- of the fo N10) th	to or ie	number (uwarding nu	ise mb	to user C, r C has preser (user B h	sen nas	tation a preser	allow ntatio	red - no on not
SIP Para	mete	r						meters opt					,						
values:						٠.													
				Cas Cas Cas	se a) i se b) \$	no Sup Sup PIX	100 ppo ppo (IT)	rted: 100 r rted: 100 r	el	nd pred	conditio	on	ı						
					line (
Commen	to:			111 =	- 11110	(T)	NI I)											
UE E		_	JE		1.40	ЭC		I-CSCF	-		SCF	1	P-CSCF		UE-A				
000	1				IVIC	<u> </u>		1-0301		3-0	JOUR	+	F-030F		INVITE				
						1			+		+	- 1	NVITE	È	II 4 VII L			-	
									+	INVITE		1							
			<u> </u>	SETU	JP		4	INVITE				4		1					
	SETU	P	+	FAC REL		→			+			+		\vdash	-				
	ALER		→	RLC		`	→	180	→	180	-	٠ .	180	→	180				
	CONN		→			Ĺ	→	200 OK	→	200 OK	→) 2	200 OK	→	200 OK				
							→	ACK	→	ACK	→	• /	ACK	→	ACK				
	DISC		+			1	+ →	BYE	+	BYE			BYE		BYE			_	
	REL RLC		→			1	7	200 OK BYE	+	200 OK	BYE 7	7	200 OK BYE	→	200 OK BYE				
	KLU		_	l		1		l						1					

SII_XX	(SSCI	FU 1	0			EN:	N reference 300 207-1	[i.5]],					GN referei TS 183 004		:		
T00 (015			s 6.1, 9.2.2				'0 51							
TSS refere							SDN/Supple											
Configurat	ion:						and the use								vork N	l2 and	l is provide	
							ser B has a			tipoi	int Co	nfigurati	ioi	n.				
Selection of	criteria	ι:		Call forwarding by the network														
				Call forwarding unconditional supported														
Test purpo	se:			To ve	To verify that a call is released correctly if CFU was not successful.													
				User	User A calls user B, the call is forwarded to user C who is user determined user busy.													
SIP Param	eter v	alue	s:	Dial	Dial string parameters options=PIXIT													
						٠.		•										
				PIXI	T fo	r su	poorted hea	ade	er:									
					PIXIT for supported header: Case a) no 100 rel													
					Case b) Supported: 100 rel													
					Case b) Supported: 100 rel and precondition													
				Case	Case of Supported. Too fel and precondition													
				a = li	no	(DIV	IT\											
				b = li														
0				m =	ine	(PI)	(11)											
Comments				т.	100		1.0005		1 0 000	_		0005			1			
UE B		U	E C	I.	1GC	<u> </u>	I-CSCF		S-CSC	<u>;</u>	Ρ-	CSCF		UE-A				
	_					-		1		-	INVITE		_	INVITE			+	
					1			+	INVITE	Ì							<u> </u>	
					Ţ	+	INVITE	Ţ	404	Ţ	101	T,		101				
-	SETUP		+		+	→	181	→	181	7	181		7	181	-		+	
	RLC#17		→			→	486	→	486		486			486				
						+	ACK	+	ACK	+	ACK	•	Т	ACK				

S	II_	XX	SSC	FU [•]	11				ISDN refer EN 300 20	7-1	[i.5],				NGN refe TS 183 (
TSS i	rof	oro	200:			CI	D		auses 6.1,			201	n/iooo/CELL						
	_												rvices/CFU	- - -		n naturanti NC) a a d i a		
Confi	gu	ratio	on:													network N2			
0 1			., .				network N2 and is provided with CFU. User B has a point-to-multipoint Configuration by the network												
Selec	tio	n c	riteri	a:			Call forwarding uppenditional supported												
							Call forwarding unconditional supported												
Test	pui	rpos	se:				To verify that a call is released correctly if CFU was not successful.												
							User A calls user B, the call is forwarded to user C who is network determined user												
						bι							_						
SIP F	ar	am	eter	valu	es:	Di	al	stri	ng paramet	ers	options=P	IXI	Т						
									or supported		eader:								
									no 100 rel										
									Supported										
						Ca	ase	e c)	Supported	: 10	00 rel and p	rec	condition						
									(PIXIT)										
									(PIXIT)										
						m	=	line	(PIXIT)										
Comr	ne	nts:									•		•						
UE	C	;	U	E B		MG	<u> </u>	F	I-CSCF		S-CSCF	=	P-CSCF		UE-A				
												_	INVITE	+	INVITE				
										+	INVITE	_	INVIIE		+				
								+	INVITE			Ļ		Ļ					
								→	181	→	181	→	181	→	181		1		
								→	486	→	486	→	486	→	486				
								+	ACK	+	ACK	+	ACK	+	ACK				

SII_XXSSCFU 13			E	N 3	reference 00 207-1 [i	.5],					IGN refere TS 183 00					
T00 (6.1, 9.2.2,				/OF!!							
TSS reference:					N/Supplen											
Configuration:									N1. The us a point-to-լ				rk N2 and is ion.	provided		
Selection criteria:		Call forwarding unconditional supported User B has activated the Partial Rerouting service														
Test purpose:		To verify that a call is released correctly if CFU performed by the UE was not su User A calls user B, the call is forwarded to user C who is user determined user														
SIP Parameter values	s:	Dial stri	Dial string parameters options=PIXIT													
		PIXIT fo	r s	upp	orted head	der:										
		Case a)	no	10	00 rel											
		Case b)	S	upp	orted: 100	rel										
		Case c)	Sı	qqı	orted: 100	rel	and preco	ndit	ion							
		a = line	(P	IX۱٦	_)											
		b = line														
		m = line	(F	IXI	Ť)											
Comments:			,		,											
UE B UE	EC	MC	ЭC	F	I-CSCF		S-CSC	F	P-CSCF	=	UE-A					
		•								+	INVITE					
						4	INVITE	+	INVITE	-	<u> </u>					
		SETUP	+	+	INVITE	`	114VIIL									
OFTUD		FAC	↑ ↓	→	181	→	181	→	181	→	181			<u>-</u>		
		REL RLC	<u>۲</u>	→	486	→	486	→	486	→	486					
ILEOII II	_			+	ACK	+	ACK		ACK		ACK					

SII_XXSSCFU 1	4			Ī	SDN refere EN 300 207	'-1	[i.5],				NGN refer TS 183 0				
					uses 6.1, 9										
TSS reference:							mentary_se								
Configuration:											ser B is in r				
										nas	a point-to-p	oint Conf	igura	ition.	
Selection criteria:			Call forwarding unconditional supported												
		Us	User B has activated the Partial Rerouting service												
Test purpose:		То	To verify that a call is released correctly if CFU performed by the UE was not												
		su	successful.												
		Us	er /	4 ca	alls user B,	the	call is forw	ard	ded to user	С١	who is netw	ork dete	rmin	ed user	
		bu	sy.												
SIP Parameter values	s:	Dia	al s	tring	g paramete	rs c	ptions=PIX	ΙT							
					supported	hea	ader:								
					no 100 rel										
					Supported:										
		Ca	se	c) S	Supported:	100	rel and pre	ecc	ondition						
					PIXIT)										
					PIXIT)										
		m :	= liı	าе (PIXIT)										
Comments:															
UE B UE	С	M	GC	F	I-CSCF		S-CSCF	1	P-CSCI		UE-A		UE-	·C	
	_							_	INVITE	+	INVITE				
	+		+-			+	INVITE	_	IINVITE		+		-		
		SETUP			INVITE										
		REL	→	→	181	→	181	→	181	+	181		-		
		RLC		→	486	→	486	→	486		486				
	1			+	ACK	+	ACK	+	ACK		ACK				

SIIS_XXSSCFU 15	ISDN reference to:	NGN reference to:
	EN 300 207-1 [i.5],	TS 183 004 [45]
	clauses 6.1, 9.2.2, 9.2.5	
TSS reference:	SIP-ISDN-SIP-ISDN/Supplementary	_services/CFU
Configuration:	The user A and the user C are in new with CFU. User D in network N2 forw	twork N1. The user B is in network N2 and is provided
Selection criteria:	Call forwarding by the network Call forwarding unconditional suppor	
Test purpose:		B, the call is forwarded to user C and D. user B. Ensure that the call is released.
SIP Parameter values:	Dial string parameters options=PIXITPIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and pred a = line (PIXIT) b = line (PIXIT)	
ISDN Parameter	m = line (PIXIT) BC = PIXIT	
values:		
Comments:		

SIIS_XXSSCFU 16	ISDN reference to:	NGN reference to:
	EN 300 207-1 [i.5], clauses 6.1, 9.2.2, 9.2.5	
TSS reference:	SIP-ISDN-ISDN-SIP/Supplementary	_services/CFU
Selection criteria:		er B and the user C are in network N2. User B is rk N1 forwards the call to back to user B. ted
Test purpose:	forwards the call to back to user B.	B, the call is forwarded to user C, C to D. User D user B. Ensure that the call is released.
SIP Parameter values:	Dial string parameters options=PIXITPIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and prec a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)	
ISDN Parameter values:	BC = PIXIT	
Comments:		

6.2.2.6 CFB

6.2.2.6.1 CFB - SIS

		SCFB01		clau	N :	N reference 300 207-1 [i s 6.1, 9.2.2	i.5] , 9	, .2.5				GN refer TS 183 0				
TSS re						IP/Supplem										
Config	uratio	n:													is provided	
			١	with CFB	- (r	network dete	erm	nined). Us	er B	has a point	-to-	multipoin	t Co	nfiguration	١.	
Selecti	on cri	teria:				ing by the n				•						
						ork determir										
Test pu	urnose								3 th	e call is for	var	ded to use	er C			
1001 pt	u. poot			Ensure that when user A calls user B, the call is forwarded to user C. Ensure that in the active call state (N10) the voice transfer on the media and B-channels is												
				performed correctly (e.g. testing QoS parameters).												
ISDN F	Daram	otor		BC = PIXIT												
values		icici	ľ	JC - 1 1A												
			· ·	Nial atria			1:	ana DIVIT	_							
SIP Pa	arame	ter value	es: L	Jiai strin	g p	arameters o	pti	ons=PIXI	l							
Comm	ents:		i i i	Case a) r Case b) S	no Sup Sup PIX	oported: 100 oported: 100 (IT) (IT)) re	el	ond	ition						
		ICDA	1.2	MCC	_	LCCCE		0.000	· F	D CCCI	_	UE-A			IE-C	
ISDI	N I	ISDN	1 2	MGC	_	I-CSCF		S-CSC	<u>, </u>	P-CSCF		INVITE	\		<u> </u>	
									+	INVITE	Ť	INVIIL				
							+	INVITE								
					÷	INVITE	Ļ		4		4					
	-				→	181 INVITE	→	181 INVITE		181 INVITE	7	181	→	INVITE		
					7	IINVIIE	7	IINVITE	+-	IINVIIE			+	100 Trying		
	1				+	180	+	180	+	180	+	180	÷	180		
					→	180	→	180		180	→	180				
					+	200 OK	+	200 OK		200 OK			+	200 OK		
-	-				→	ACK 200 OK	→	ACK 200 OK		ACK 200 OK	→	200 OK	→	ACK		
	1	 			<u>7</u>	ACK	7	ACK		ACK		ACK		+		
	1				÷	BYE	÷	BYE		BYE	+	7.010	+	BYE		
	1				<u>`</u>	200 OK BYE	<u>→</u>	200 OK BYE		200 OK BYE	1	1	→	200 OK BYE		
					→	BYE	→	BYE	→	BYE		BYE				
					+	200 OK BYE	+	200 OK BYE	+	200 OK BYE	+	200 OK BYE			-	

SIS_	XXS	SCFB0		E clau	N 3	l reference 300 207-1 [i s 6.1, 9.2.2	i.5] , 9	, .2.5				IGN refer TS 183 0			
TSS re	feren	ce:				IP/Supplem									
Configu	uratio	n:								k N1. The ushas a point-					
Selection	on cri	teria:	(Call forwa	ard	ing by the n	etv	work		•		'			
Test pu	urpose	e:	E	Ensure th Ensure th	nat nat	when user	A c	alls user E all state (N	3, th 110)						-channels is
ISDN F	aram	eter		BC = PIX		, , ,				,					
values:	:														
SIP Pa	rame	ter valu	es: [Dial string	g pa	arameters o	pti	ons=PIXI7	Ī						
			(((a k	Case a) r Case b) S	no ² Sup Sup PIX PIX	ported: 100 ported: 100 IT) IT)) re	el	ond	ition					
Comme	ents:					,									
ISDN	V 1	ISDI	N 2	MGC	F	I-CSCF		S-CSC	F	P-CSCF		UE-A	١	U	IE-C
											+	INVITE			
			<u> </u>				ļ.,	INVITE	+	INVITE		ļ	_		
-	1		+	SETUP	+	INVITE	_	INVITE	-		-				
			÷	RLC # 17	È		1	+			1				
				1	→	181	→	181	→	181	→	181			
					→	INVITE	→	INVITE	→	INVITE			→	INVITE	
													+	100 Trying	
					+	180	+	180		180		180	+	180	
			<u> </u>	4	→	180	→	180		180	→	180	_		
	1		 		+	200 OK	+	200 OK ACK		200 OK ACK	+	1	+	200 OK ACK	
	-		├──	+	→	ACK 200 OK	→	200 OK		200 OK	→	200 OK	7	ACK	
			\vdash	+	+	ACK	+	ACK		ACK		ACK			
	<u> </u>		 	+	÷	BYE	÷	BYE		BYE	+	7.01	+	BYE	
			\vdash	+	÷	200 OK BYE	÷	200 OK BYE		200 OK BYE	T	1	<u>→</u>	200 OK BYE	
i				1	→	BYE	→	BYE		BYE	→	BYE	+		
												200 OK BYE			

		SCFB0		clau	N 3 ise	l reference 300 207-1 [s 6.1, 9.2.2	i.5] , 9.	, 2.5			N	IGN refe TS 183 0						
TSS re						P/Suppleme												
Configu	urat	ion:	"c	alling us	er i	nd the user is notified o ne diverted-	f ca	all diversio	n w	th diverted	to r	number" =	= Ye	s, "divertin	g number is			
						ed" = Yes).									ie caii rias			
Selection	on c	criteria:	C	all forwa all forwa	rdir rdir	ng by the no ng busy (us ons support	etw er (ork		int-to-inditi	poli	it Corniga	rati	OH.				
Test pu	irno	ις Ο .						lle usar R	the	call is forw	ıard	led to use	r C	μερι Δ ίς ι	notified of			
rest po	игро		Ca Cl U	all divers OLR) ar ser B is nsure th	e that when user A calls user B, the call is forwarded to user C, user A is notified of version and informed of the diverted-to number (user C has presentation allowed - no and user C is informed of the forwarding number (user B has presentation allowed). It is notified of call diversion. It is the active call state (N10) the voice transfer on the media and B-channels is med correctly (e.g. testing QoS parameters). Tring parameters options=PIXIT													
SIP Pa	aram	eter	D	ial string														
values:	:				tring parameters options=PIXII													
			C C C	ase a) n ase b) S ase c) S = line (F	string parameters options=PIXIT IT for supported header: e a) no 100 rel e b) Supported: 100 rel e c) Supported: 100 rel and precondition													
				= line (F														
_			m	= line (l	PΙΧ	IT)												
Comm														1				
ISDN	1	ISDN	2	MGC	<u> </u>	I-CSCF		S-CSC	:-	P-CSCI		UE-A	١	U	E-C			
									+	INVITE	-	INVITE						
							+	INVITE										
 			<u>←</u> →	SETUP RLC #17	+	INVITE												
 			7	KLC #17	→	181	→	181	→	181	→	181	1					
					→	INVITE	→	INVITE	→	INVITE			→	INVITE				
					+	180	+	180		180		180	+	100 Trying 180				
+						180	→	180	→	180	-		_	100				
					+	200 OK	+	200 OK	+	200 OK			+	200 OK				
 					→	ACK 200 OK	→	ACK	→	ACK 200 OK		200 OK	→	ACK				
+					<u>→</u>	ACK	7	200 OK ACK		ACK		200 OK ACK		1				
					+	BYE	+	BYE	+	BYE	Ť		+	BYE				
					→	200 OK BYE	→	200 OK BYE		200 OK BYE	Ţ	DVE	→	200 OK BYE				
\vdash					→	BYE 200 OK BYE	→	BYE 200 OK BYE		BYE 200 OK BYE		BYE 200 OK BYE	1	1				

	_XXSS			clau	N 3 use	l reference 300 207-1 [s 6.1, 9.2.2	i.5] , 9.	, .2.5			N	IGN refe TS 183 0			
	referer					P/Suppleme									
Confi	guratio	on:	"c re	alling us leased t	er o th	nd the user is notified o ne diverted- ed" = No).	f ca	all diversio user" = Ye	n wi	th diverted served user	to r	number" = ceives not	= Ye tifica	es, "divertin ation that th	g number is ne call has
	tion cr		CCC	all forwa all forwa F Notific	rdir Irdir atio	ng by the no ng busy (us ons support	etw er o	ork determine	d)						
Test	ourpos	e:	Ca C U: E:	all divers OLR) ar ser B is nsure th	ion Id u not at ii	ser C is info	ed orn call ca	of the divened of the diversion II state (N	erted forw 10) t	d-to numbe varding num the voice tra	r (us nbei	ser C has r (user B l	pre has	esentation a presentation	notified of allowed - no on allowed).
SIP F value	arame s:	eter	P C C C a b	IXIT for s ase a) n ase b) S	sup o 1 supp supp PIXI	oorted: 100 oorted: 100 T) T)	der rel	:		ion					
Com	ments:			,		,									
	N 1	ISDI	V 2	MGC	F	I-CSCF		S-CSC	F	P-CSCF		UE-A		U	E-C
			(SETUP	+	INVITE	+	INVITE	+	INVITE	-	INVITE			
-			→	RLC #17	→	181	→	181	-	181	-	181	1		
					→	INVITE	→	INVITE	→	INVITE			→	INVITE 100 Trying	
					+	180 180	←	180 180	←	180 180	←	180 180	+	180	
 					7	200 OK	7	200 OK		200 OK	7	100	+	200 OK	
					→	ACK	→	ACK	→	ACK			→	ACK	
-					→	200 OK ACK	→	200 OK ACK		200 OK ACK		200 OK ACK	-		
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← 200 OK ← 200 OK ← 200 OK ← 200 OK → ACK ← ACK ← ACK ← ACK ← ACK ← ACK ← ACK ← BYE ← BYE ← BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE → BYE </td <td></td> <td></td> <td></td> <td>+</td> <td></td> <td></td> <td></td> <td>180</td> <td></td> <td></td> <td></td> <td></td> <td>_</td> <td>100</td> <td></td>				+				180					_	100				
→ 200 OK → 200 OK → 200 OK ← ACK ← ACK ← ACK ← BYE ← BYE ← BYE → 200 OK BYE → 200 OK BYE → 200 OK BYE → BYE → BYE → BYE					+	200 OK	+	200 OK	+	200 OK								
← ACK ← ACK ← ACK ← ACK ← BYE ← BYE ← BYE ← BYE → 200 OK BYE → 200 OK BYE → 200 OK BYE → 200 OK BYE → BYE → BYE → BYE → BYE → BYE		 		+							4	200 OK	→	ACK				
★ BYE ★ BYE ★ BYE ★ BYE ★ BYE ★ BYE ★ BYE ★ BYE ★ BYE ★ BYE ★ BYE ★ BYE ★ BYE ★ BYE ★ BYE ★ BYE ★ BYE ★ BYE ★ BYE ★ BYE ★ BYE ★ BYE ★ BYE ★ BYE ★ BYE ★ BYE ★ BYE ★ BYE ★ BYE ★ BYE ★ BYE ★ BYE ★ BYE ★ BYE ★ BYE ★ BYE ★ BYE ★ BYE ★ BYE ★ BYE ★ BYE ★ BYE ★ BYE ★ BYE ★ BYE ★ BYE ★ BYE ★ BYE ★ BYE ★ BYE ★ BYE ★ BYE ★ BYE ★ BYE BYE ★ BYE BYE				†							+	ACK						
→ BYE → BYE → BYE → BYE						BYE		BYE										
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SIS_XXSSCFB09		DN referen N 300 207-1						NGN refe TS 183					
		ses 6.1, 9.2											
TSS reference:		I-SIP/Suppl			vice	es/CFB							
Configuration:		A and the u					he	user B is ir	ne	twork N2 a	nd is		
garation.		with CFB "c											
											a point-to-		
		t Configurat				are divorte		0 0001 - 1	••,.	occi B nac	o a point to		
Selection criteria:		arding by th											
Ocicotion ontona.		arding by the			rmi	ned)							
		cations supp			11111	ncu)							
Test purpose:		at when us			· B	the call is	for	warded to	LICC	r C user A	is notified		
rest purpose.											sentation not		
	allowed - TIR) and user C is not informed of the forwarding number (user B has presentation not allowed). User B is not notified of call diversion.												
										media and	B-channels		
		ned correctl							uic	media and	D-Charmels		
SIP Parameter values		parameter				o parame	ici	o).					
SIF Farailleter values		y parameter	50	puons=rix	AI I								
	DIVIT for	supported I	າດວ	der:									
		no 100 rel	Ita	uer.									
		Supported:	100	rol									
		Supported: 1			000	ndition							
	Case c) c	supported.	100	rei and pre	500	Hullion							
	a = line (I	OIVIT\											
	b = line (I												
	m = line (i												
Comments:		1 1/11)											
ISDN 1 ISDN 2	MGCF	I-CSCF		S-CSC	_	P-CSC	_	UE-A		1 11	E-C		
ISDIN I ISDIN Z	MGCF	1-0301		3-030		F-030	· · ·	INVITE	1	"	L-C		
					+	INVITE							
	+	INVITE	+	INVITE									
	7	181	→	181	→	181	→	181					
	→	INVITE	→	INVITE		INVITE			→	INVITE			
	+	180	+	180	_	180	+	180	+	100 Trying 180			
	→ -	180	→	180	→		→	180	_	180			
	Ę	200 OK	+	200 OK	+	200 OK			+	200 OK			
	→	ACK 200 OK	→	ACK 200 OK		ACK 200 OK	→	200 OK	→	ACK			
	+	ACK	+	ACK	+	ACK	+	ACK		<u> </u>			
	+	BYE	+	BYE		BYE			+	BYE			
	→ →	200 OK BYE BYE	→	200 OK BYE BYE		200 OK BYE BYE	→	BYE	→	200 OK BYE			
	É	200 OK BYE	+	200 OK BYE		200 OK BYE		200 OK BYE	1	1			

SI	S_XXS	SCFB	10		E lau	DN refere N 300 207- ses 6.1, 9.	1 [i 2.2	.5], , 9.2.5			ı	NGN refere TS 183 00					
	refere							entary_serv									
Conf	igurati	on:						C and D a	re	in network I	N 1.	The user E	3 is	in network	N2 and		
						d with CFB		::I OED "									
										ng user is n							
										released to							
									all	has been fo) I VV č	arded = No	J). (Jser b nas	а		
Colo	otion o	ritorios				ultipoint Co											
Seie	ction c	nteria:				rding by th			:								
								twork dete	rrmi	nea)							
T4						ations sup			Ь	the call is for				C A :	+: f:l		
rest	purpos	se.								e diverted-							
						d - no TIR) and user C is not informed of the forwarding number (user B has tation not allowed). User B is not notified of call diversion.											
						that in the active call state (N10) the voice transfer on the media and B-											
					nels is performed correctly (e.g. testing QoS parameters).												
SIP	aram	eter val	ues:		string parameters options=PIXIT												
						supported I	hea	der:									
						o 100 rel											
						upported:											
				Case	c) S	upported: '	100	rel and pre	co	ndition							
				a = lin													
				$b = \lim_{n \to \infty} \frac{1}{n}$													
				m = lir	ie (I	PIXII)											
	ments:			1400		1.0005		0.0005	_	D 000F		1 1 T A					
151	ON 1	ISDN	12	MGC	,F	I-CSCF	·	S-CSCF	· 	P-CSCF		UE-A		UE	-0		
									+	INVITE	_	IIIVIIL					
					,	D. 1.75	+	INVITE									
					+	INVITE			<u> </u>		-						
					→	INVITE	→	INVITE	→	INVITE			→	INVITE			
					+	180	+	180	4	180	4	180	+	100 Trying 180			
					→	180	→	180	→	180	→	180					
					+	200 OK	+	200 OK		200 OK			+	200 OK			
					→	ACK 200 OK	→	ACK 200 OK		ACK 200 OK	→	200 OK	→	ACK			
					+	ACK	+	ACK	+	ACK		ACK					
					+	BYE 200 OK BYE	+	BYE 200 OK BYE		BYE 200 OK BYE	1		+	BYE 200 OK BYE			
					→	BYE	7	BYE		BYE	→	BYE	7	200 ON DIE			
					+	200 OK BYE	+	200 OK BYE	+	200 OK BYE		200 OK BYE					

SIS	_XXS	SCFE	3 11		ΕN	N reference 300 207-1 es 6.1, 9.2.	[i.:	5],			N	IGN refer TS 183 0			
TSS re	ferend	ce:		SIP-ISI	DN-	SIP/Supple	eme	entary_serv	/ice	s/CFB					
Configu	uration	n:								ork N1. The . User B ha					
Selection	on crit	teria:				s activated rding busy p				ting service UE					
Test pu	urpose	e:		active of correct Ensure	call ly (c tha	state (N10) e.g. testing at in the act	th Qo ive	e voice trar S paramet call state (nsfe ers N1		dia tra	and B-ch	ann	els is perf	
SIP Pa		ter va	lues:	PIXIT f Case a Case b	or s) no) S) S (P	IXIT)	ea 00	der: rel		ndition					
Comm										1				,	
ISDI	V 2	IS	DN 1	MGC	F	I-CSCF	:	S-CSCI	<u> </u>	P-CSCF		UE-A	<u> </u>	U	E-C
											+	INVITE			
	ļ	<u> </u>				ļ	Ļ	IND//TE	+	INVITE	₩		1	-	
	1		SETUP	+	+	INVITE	+	INVITE	+-		-	1		+	
			FAC	>	→	181	→	181	-	181	4	181	+	1	
			REL	É	÷	INVITE	÷	INVITE		INVITE	ŕ	101	→	INVITE	
			RLC	→	1		Ť		Ť		1		+	100 Trying	
					+	180	+	180	+	180	+	180	+	180	
					→	180	→	180	→	180	→	180			
					+	200 OK	+	200 OK		200 OK			+	200 OK	
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-	1	 		1	7	200 OK BYE		200 OK BYE		200 OK BYE		200 OK BYE	1	+	
	1	<u> </u>	l		7	ZUU OK BYE	7	IZ00 OK BYE	7	ZUU UK BYE	7	ZOO OK BAF			

		ΕN	N reference 300 207-1 es 6.1, 9.2.	[i.5	5],			N	IGN refero			
TSS reference:	SIP-ISI	DN-	SIP/Supple	me	ntary_serv	се	s/CFB					
Configuration:	The us	er A	and the us	ser	C are in ne	tw	ork N1. The	us	er B is in r	etw	ork N2 an	d is
	provide	ed w	ith Partial F	Rer	outing serv	ice	"calling use	r is	notified o	f ca	all diversion	n with
							umber is rel					
			s a point-to-									
Selection criteria:							ting service					
			ding busy			-						
Test purpose:				r A	calls user	B 1	the call is fo	rwa	arded to us	ser	C user A i	s notified of
Tool purposo.							ted-to numb					
							orwarding n					
	allowed		a asci O is		onnea or un	C 1	orwarding in	uiii	bei (usei	١١، ت	as present	ation
		,	t in the acti	VΩ	call state (1	J1() the voice	tra	nefor on th	0 m	nedia and	R-channels
							S parameters		iisiei oii ii	16 11	ieuia ai iu	D-Charlineis
SIP Parameter value			parameters				parameter	<i>3)</i> .				
oir raiaillelei value	s. Diai sii	iiig	parameters	, ot)((O)(S=F1/A)							
	DIVIT 6	or o	upported h		dor:							
				eac	iei.							
			100 rel	^^								
			upported: 1				-1141					
	Case c) 51	ipported: 10	JU	rei and pred	cor	aition					
		/ D	1) (IT)									
	a = line											
	b = line											
	m = line	e (F	PIXIT)									
Comments:												
ISDN 2 ISDN	1 MGC	F	I-CSCF	,	S-CSCF		P-CSCF		UE-A		U	E-C
						Į	INVITE	+	INVITE			
		-		+	INVITE	_	IINVIIE	+				
	TUP 🗲	+	INVITE									
FA(→	181 INVITE	→	181 INVITE		181 INVITE	→	181	→	INVITE	
RLO		7	INVIIL	7	INVIIL	1	INVIIL	\vdash		+	100 Trying	
		+	180	+	180		180		180	+	180	
		→	180 200 OK	→	180 200 OK		180 200 OK	→	180	+	200 OK	
		→	ACK	→	ACK		ACK	1		→	ACK	
		→	200 OK	→	200 OK	→	200 OK		200 OK			
		+	ACK BYE	+	ACK BYE		ACK BYE	+	ACK	+	BYE	
		→	200 OK BYE	→ -	200 OK BYE		200 OK BYE	t		→	200 OK BYE	
		→	BYE	→	BYE	1	BYE		BYE			
		+	200 OK BYE	+	200 OK BYE	+	200 OK BYE	+	200 OK BYE	<u> </u>		

	XXSS		3 13	EN 3 clauses	00 s 6.	ference to: 207-1 [i.5], 1, 9.2.2, 9.2	2.5			•	_	referenc 183 004 [:	
TSS re	feren	ce:				IP/Supplem									
Configu	uratio	n:		with Parti number"	ial I = Y	Rerouting s	erv ng i	ice "calling number is r	us	k N1. The uer is notified ased to the	d of	call divers	sior	with diver	
Selection	on cri	teria	:			activated thing busy pe									
Test pu	ırpose	e:		Ensure the call diversallowed - presental Ensure the	nat sion CC tion	when user and not in DLR) and use not allowe	A conformore sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering display to the sering di	calls user B med of the C is not inf	th div orr	e call is forwerted-to number of the formal the color the formal the color tree to the color tree to the color tree to the color tree tree tree tree tree tree tree tr	mbe orw	er (user C arding nu	has mbe	s presenta er (user B I	tion not
SIP Pa	ramet	ter v	alues:	Dial string PIXIT for Case a) r Case b) S	g pa sup Sup Sup PIX	properted head to the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the properted in the p	opti ade O re	ons=PIXIT r: el							
Commo	ents:														
ISDN	٧2	IS	DN 1	MGCF	:	I-CSCF		S-CSCF	=	P-CSCF	=	UE-A		U	E-C
							+	INVITE	+	INVITE	+	INVITE			
			SETUP	(+	INVITE									
			AC	→	→	181	→	181		181	→	181	Ļ		
			REL	←	→	INVITE	→	INVITE	→	INVITE			→	INVITE	
	 	 	RLC	7	+	180	+	180	4	180	4	180	+	100 Trying 180	
	\vdash			-	→	180	→	180		180	┪	180	+	100	
				1	+	200 OK	+	200 OK		200 OK	† <u> </u>		+	200 OK	
					→	ACK	→	ACK	→	ACK			→	ACK	
					→	200 OK	→	200 OK		200 OK		200 OK			
					+	ACK	+	ACK		ACK	+	ACK	<u> </u>		
	igwdown	┡			+	BYE	+	BYE		BYE	4		+	BYE	
<u> </u>	\vdash	├		 	→	200 OK BYE BYE	→	200 OK BYE BYE		200 OK BYE BYE	-	BYE	→	200 OK BYE	
-	 	 		 	7	200 OK BYE		200 OK BYE		200 OK BYE		200 OK BYE	+	†	
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SIS_X	XSSCF	B 14		Е	DN refere N 300 207	·1 [i	i.5],				NGN refe TS 183					
TSS refe	rongo:				ises 6.1, 9. I-SIP/Supp			2410	oo/CEP							
											D :- :-		to oranic NIO -			
Configura	ation:								vork N1. The	e u	ser B is in	n ne	twork N2 a	ina is		
					with Partial											
									erouting serv							
									No, "diverting int Configura			rele	eased to the	e diverted-to		
Selection	criteria	:	User	B ha	as activated	th	e Partial R	ero	uting service	анс Э	711.					
					arding busy											
					cations sup			•••								
Test purp	ose:							r B	, the call is f	orv	varded to	use	er C. user A	A is notified		
									ne diverted-							
				ed - no TIR) and user C is not informed of the forwarding number (user B has entation not allowed).												
				re that in the active call state (N10) the voice transfer on the media and												
				nannels is performed correctly (e.g. testing QoS parameters).												
ISDN Pa	rameter			= PIXIT												
values:	· ai i i o to i			= PIXII												
SIP Para	meter v	alues:	Dial s	trino	paramete	rs c	ptions=PI	ΚIΤ								
				•	<i>3</i> 1		•									
			PIXIT	for	supported	hea	ader:									
					no 100 rel											
					Supported:	100) rel									
					Supported:			ecc	ndition							
				,.												
			a = lir													
					PIXIT)											
			m = li	ne (PIXIT)											
Commen																
ISDN 2	ISC	N 1	MGC	F	I-CSCF		S-CSCF	-	P-CSCF		UE-A		U	E-C		
		1						+	INVITE	+	INVITE					
						+	INVITE	È	III VIII L							
		SETUP	+	+	INVITE											
	1	FAC REL	→	→	INVITE	→	INVITE	→	INVITE			→	INVITE			
		RLC	→									+	100 Trying			
				←	180	+	180 180		180 180		180 180	+	180			
		+		7	180 200 OK	7	200 OK		200 OK	7	100	+	200 OK			
				→	ACK	→	ACK	→	ACK			→	ACK			
	1	<u> </u>		→	200 OK	→	200 OK		200 OK		200 OK					
	+	+		+	ACK BYE	+	ACK BYE		ACK BYE	_	ACK	+	BYE			
				→	200 OK BYE	→	200 OK BYE		200 OK BYE	H		→	200 OK BYE	1		
				→	BYE	→	BYE	→	BYE	→	BYE					
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SIS_XX	SSCFB	15	Ē	EΝ	N reference 300 207-1 [es 6.1, 9.2.2	i.5	j,			N	IGN refei TS 183 0				
TSS refer	ence:		SIP-ISDI	N-S	IP/Supplem	nen	tary_service	ces	CFB						
Configura	tion:		The user			kΝ	12 and is p	rovi	ded with Cl	FB.	User B h	as	a point-to-n	nultipoint	
Selection	criteria:		Call forw CFB sup	ard por	ing by the r										
Test purpo	ose:				at a call is re user B, the								u l . ermined us	er busy.	
SIP Paran	neter		Dial strin	ıg p	arameters of	opti	ons=PIXIT	•							
values:			Case a) Case b) Case c) a = line (b = line (pial string parameters options=PIXIT PIXIT for supported header: Ease a) no 100 rel Ease b) Supported: 100 rel Ease c) Supported: 100 rel and precondition = line (PIXIT) = line (PIXIT) n = line (PIXIT)											
Comment	s:														
ISDN 1	ISD	N 2	MGC	F	I-CSCF		S-CSCI	F	P-CSCF		UE-A		U	E-C	
								Ļ	IN DUTE	+	INVITE				
			+	-	1	_	INVITE	+	INVITE	-	-	-	1		
		SETUP	+	+	INVITE	_		+		+	t		1		
		RLC#17	→	→	181	^	181		181	→	181				
				→	INVITE	→	INVITE		INVITE			→	INVITE		
	-		+	←	486 ACK	↓	486 ACK		486 ACK		 	←	486 ACK		
				÷	486	_	486	_	486	→	486	ŕ	AOR		
				+	ACK	+	ACK		ACK		ACK				

SIS_XXSSC	FB 16		EN	1 30	reference 00 207-1 [i. 6.1, 9.2.2,	5],					IGN referen TS 183 004						
TSS reference	e:	SIP-					y_services/	CF	В								
Configuration:									d with CFB.	Us	er B has a p	oint-to-	multir	point			
J J			figuratio				•										
Selection crite	ria:				by the net	wor	k										
			Suppor	_	•												
					rk determi	ned	l user busv										
Test purpose:								if (CFB was not	SU	iccessful						
root purposo.												termine	el lis	er husv			
SIP Paramete	r			A calls user B, the call is forwarded to user C who is network determined user busy. ring parameters options=PIXIT													
values:	•	Diai	ouring p	string parameters options=PIXII													
values.		PIXI	T for supported header:														
			e a) no			71.											
						. I											
					rted: 100 re			:1: _	_								
		Cas	e c) Sup	ρpo	nea. 100 re	a a	nd precondi	ILIO	11								
			line (DIV	(IT)													
			line (PIX														
			line (PIX														
		m =	line (Pl)	XIT)												
Comments:																	
ISDN 1	ISDN	2	MGC	F	I-CSCF	:	S-CSCF		P-CSCF		UE-A		UE	-C			
								Ļ		+	INVITE						
						+	INVITE	+	INVITE								
				+	INVITE	1				1							
				→	181		181		181	→	181						
				<u>→</u>	INVITE 486		INVITE 486		INVITE 486								
				₹	ACK		ACK		ACK	1							
				→	486	→	486	→	486		486						
				+	ACK	+	ACK	+	ACK	+	ACK						

SIS_XXSS	CFB 17				reference 00 207-1 [i.					Ν	IGN refe			
			clau	ses	6.1, 9.2.2,	9.2	2.5							
TSS reference	e:	SIP	-ISDN-S	SIP/	Supplemen	tar	y_services/	CF	В					
Configuration):	The	user B	is ir	network N	12 a	and is provi	de	d with Partia	al R	erouting	ser	vice. User E	3 has
		activ	vated th	e P	artial Rerou	utin	g service. l	Jse	er B has a p	oint	t-to-point	Co	nfiguration.	
Selection crit	eria:	CFE	3 suppoi	rted	performed	by	the UE							
		use	r C is ne	etwo	rk determir	nec	l user busy							
		Use	r B has	act	ivated the F	ar	ial Reroutir	ng	service					
Test purpose	:	To v	erify tha	at a	call is relea	ase	d correctly	if (CFU was no	t su	ıccessful.			
		Use	r A calls	us	er B, the ca	all is	s forwarded	l to	user C who	o is	user det	ern	nined user b	ousy.
SIP Paramete	er	Dial	string p	ara	meters opti	ion	s=PIXIT							
values:			-											
		PIX	PIXIT for supported header:											
		Cas	e a) no	100) rel									
		Cas	e b) Su	оро	rted: 100 re	el								
		Cas	e c) Sup	opo	rted: 100 re	el a	nd precond	itic	n					
		a =	line (PI)	(IT)										
		b =	line (PI)	(IT)										
		m =	line (PI	XIT)									
Comments:														
ISDN 1	ISDN	2	MGC	F	I-CSCF		S-CSCF	•	P-CSCF	=	UE-A		UI	E-C
								Ļ	INVITE	+	INVITE			
						+	INVITE	-	INVITE	+				
		SETU	+	+	INVITE									
	1	P FAC	→	→	181	→	181	-	181	-	181	<u> </u>		
		REL ← → INVITE → INVITE → INVITE → INVITE												
		RLC	→	+	486	+	486		486				486	
	1			→	ACK 486	→	ACK 486		ACK 486	-	486	7	ACK	
	1				ACK	+	ACK		ACK		ACK			

SIS_X	XSS	CFB 18	3		ΕN	N referenc 300 207-1 es 6.1, 9.2.	[i.5],			١	NGN refer TS 183 0			
TSS refe	erenc	e:	S	SIP-ISDI	N-S	IP/Supplem	nent	tary_servic	es/	CFB					
Configur	ration	1:								ded with Pa					
Selection	n crit	eria:	(CFB sup Jser C is	por ne	ted perform twork deter activated th	ned rmir	by the UE ned user b	usy					<u> </u>	
Test pur	pose	:								if CFU was I to user C				ermine	ed user busy.
		er value	F () ()	PIXIT for Case a) Case b)	sup Sup Sup Sup PIX	pported: 100 ported: 100 IT) IT)	ade O re	r: I		ition					
Commer	nts:														
ISDN	1	ISDN	12	MGC	F	I-CSCF	-	S-CSC	F	P-CSCI		UE-A		l	JE-C
									+	INVITE					
			SETU P	+	+	INVITE	+	INVITE							
			FAC	→	→	181	→	181		181	→	181		_	
-			REL RLC	+	→	INVITE 486	→	INVITE 486		INVITE 486		 	_		
H +			INLU	1	→	ACK	→	ACK		ACK	+	1			+
					→	486	→	486		486	→	486			
					+	ACK	+	ACK	+	ACK	+	ACK			

SISI_XXSSCFB 19	ISDN reference to:	NGN reference to:
	EN 300 207-1 [i.5],	TS 183 004 [45]
	clauses 6.1, 9.2.2, 9.2.5	
TSS reference:	SIP-ISDN-SIP-ISDN/Supplementar	y_services/CFB
Configuration:	The user A and the user C are in newith CFB. User D forwards the call	etwork N1. The user B is in network N2 and is provided to back to user B.
Selection criteria:	Call forwarding by the network Call forwarding busy	
Test purpose:		B, the call is forwarded to user C and D. user B. Ensure that the call is released.
SIP Parameter values:	Dial string parameters options=PIX PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and pre a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)	
ISDN Parameter	BC = PIXIT	
values:		
Comments:		

6.2.2.6.2 CFB - SII

SII_XXSSCFB 01			reference						GN refe			
			00 207-1 [i.						TS 183 (004	[45]	
	clau	ses	6.1, 9.2.2,	9.2	2.5							
TSS reference:	SIP-ISDN-I	SDI	N/Supplem	ent	ary_servic	es/	CFB					
Configuration:	The user A	and	d the user (Са	re in netwo	ork	N1. The use	er B	in netwo	rk I	N2 is provid	ed with
-	CFB. User	Βh	as a point-t	to-r	nultipoint (Con	figuration.					
Selection criteria:	Call forwar	ding	by the net	wo	rk							
	Call forwar											
Test purpose:							call is forwa					
								nsfe	r on the	med	dia and B-cl	nannels is
	performed	corr	ectly (e.g. t	tes	ting QoS p	ara	meters).					
SIP Parameter	Dial string	para	ameters opt	tior	ns=PIXIT							
values:												
	PIXIT for s			er:								
	Case a) no	100) rel									
	Case b) Su											
	Case c) Su	ppc	rted: 100 r	el a	and precon	diti	on					
	a = line (Pl											
	b = line (Pl	XIT))									
	m = line (P	IXIT)									
Comments:												
ISDN 2 ISD	N 1 MG	ĊF	I-CS	CF	S-CS	CF	P-CS			-Α	UE	E-C
						Ţ		+	INVITE			
 	-			+	INVITE	+	INVITE					
	 	+	INVITE	_	INVITE	+		-				
			181	→	181	→	181	→	181	H		
SETUP +												
ALERTING →		→	180	→	180	→	180	→	180			
CONNECT →		→	200 OK	→	200 OK		200 OK	→	200 OK			
			ACK	1	ACK		ACK		ACK			
DISC +			BYE	4	BYE		BYE		BYE			
REL →		→	200 OK BYE	→	200 OK BYE	>	200 OK BYE	+	200 OK BYE			
RLC ←									_			

SII_XXSSCFB 0	2		IS	DN	reference	to				N	IGN referei	nce to	:				
			Ε	N 3	00 207-1 [i	.51.					TS 183 004	4 [45]					
		С	lau	ses	s 6.1, 9.2.2,	9.	2.5										
TSS reference:		SIP-ISD	N-	SD	N/Supplem	en	tary_servic	es/	CFB								
Configuration:		The use	r A	an	d the user (Са	re in netwo	rk	N1. The use	er B	in network	N2 is	provid	ed with			
					nas a point-								•				
Selection criteria:		Call forv	var	din	g by the net	twc	ork										
					g busy - UD												
Test purpose:								he	call is forwa	rde	d to user C	. Ensu	re tha	t in the			
														ed correctly			
		(e.g. tes	stin	g Q	oS parame	ter	s).					•					
SIP Parameter					ameters op												
values:			_														
		PIXIT fo	(IT for supported header: se a) no 100 rel														
		Case a)	no	10	0 rel												
		Case b)	Sι	ipp	orted: 100 r	el											
					orted: 100 r		and precon	diti	on								
		,		•			•										
		a = line	(PI	XIT)												
		b = line	ÌΡΙ	XIT	<u>,</u>												
		m = line	(P	IXI	<u>΄</u>)												
Comments:					•												
ISDN 2 ISE	NC	1 M	GC	F	I-CSCF		S-CSCI	=	P-CSCF	:	UE-A		U	E-C			
										+	INVITE						
			+			+	INVITE	+	INVITE	-							
		SETUP	+	+	INVITE		IIIVIIL										
		RLC#17	→														
SETUP	+		+	→	181	→	181	→	181	→	181						
ALERTING	<u>₹</u>		╁	→	180	→	180	→	180	→	180						
CONNECT	→		L	→	200 OK	→	200 OK	→	200 OK	→	200 OK						
				→	ACK	→	ACK		ACK		ACK			_			
DISC	+			+	BYE	+	BYE		BYE		BYE		-				
REL)		1	→	200 OK BYE	→	200 OK BYE	→	200 OK BYE	→	200 OK BYE						
RLC	+		<u> </u>				l			_							

	XXSSC		03		cla	EN us	N reference 300 207-1 es 6.1, 9.2	[i.5	5], 9.2.5			N	IGN refere TS 183 00				
TSS ref		:					ISDN/Supp										
Configu	ıration:			CFB numl the c	"ca ber all	allir is ha:	ng user is n released to s been forw	otifi the	ied of call o e diverted-t led" = Yes)	live o u	ork N1. The ersion with di ser" = Yes, ' ser B has a	ive "se	rted to num rved user r	ber ece	" = Yes	s, "di	iverting ation that
Selection		ria:		Call t	for loti	war fica	rding by the rding busy - ations supp	- NI orte	OUB ed								
Test pu	rpose:			call on Callow Ensu	dive OL ved ure	ersi .R)). U tha	on and info and user C Jser B is no at in the act	rme is otifie ive	ed of the di informed o ed of call di call state (l	ver f th ive N10) the voice t	er g nu trai	(user C has umber (use	s pr r B	esenta has pre	tion esen	allowed - itation
Ensure that in the active call state (N10) the voice transfer on the media and B-chann is performed correctly (e.g. testing QoS parameters). SIP Parameter values: Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)																	
Comme											1		1	-			_
ISDN	12	ISL)N	1 MC	Σز	-	I-CSCF		S-CSCI		P-CSCF		UE-A			UE	-C
					<u> </u>		ļ	1		ļ.,	INDUTE	+	INVITE				
—					 		+	+	INVITE	7	INVITE	<u> </u>					
—					-	+	INVITE	-	IIN VII E	+		1					
					H	`	181	→	181	→	181	→	181				
	SETUP		+							T		T					
	ALERTING	G	→			→	180	→	180	→		→	180				
	CONNEC	Т	→			1	200 OK	→	200 OK	→	200 OK	→	200 OK				
						1	ACK	→	ACK		ACK	→	ACK				
	DISC		1		<u> </u>	₩.	BYE	+	BYE		BYE	+	BYE				
	REL		→		<u> </u>	1	200 OK BYE	→	200 OK BYE	→	200 OK BYE	→	200 OK BYE				
	RLC		+									<u> </u>					

	XXSSC		04		cla	EN us	N reference 300 207-1 es 6.1, 9.2	[i.5	5], 9.2.5			N	IGN refere TS 183 00				
TSS ref		:					ISDN/Supp										
Configu	ration:			CFB numl the c	"ca ber all	allir is ha:	ng user is n released to s been forw	otifi the arc	ied of call o e diverted-t led" = No).	live o u	ork N1. The ersion with di ser" = Yes, ' eer B has a p	ive "se	rted to num rved user r	bei ece	r" = Yes eives no	s, "d otific	iverting ation that
Selection		ia:		Call t	for\ loti	var fica	ding by the ding busy ations supp	· N[orte	OUB ed								
Test pu	rpose:			call on Callow the v	dive OL ed oic	ersi .R)). L e t	on and info and user C Jser B is no ransfer on t	rme is ot ne	ed of the di informed o otified of ca	ver f th	the call is for ted-to numb e forwarding liversion. En channels is p	er g nu isu	(user C has umber (use re that in th	s pr r B ie a	esenta has pro ctive ca	tion eser all st	allowed - ntation ate (N10)
the voice transfer on the media and B-channels is performed correctly (e.g. testing Q parameters). SIP Parameter values: Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)																	
Comme																	
ISDN	12	ISE)N 1	I MC	3CI	_	I-CSCF		S-CSCI		P-CSCF		UE-A			UE	:-C
<u> </u>								1		Ļ	INDUTE	+	INVITE				
—					\vdash			+	INVITE	7	INVITE	<u> </u>					
-						+	INVITE	÷	IIN VII E	+		1				\dashv	
						`	181	→	181	→	181	→	181				
	SETUP		+														
	ALERTING	G	→			→	180	→	180	→		→	180				
	CONNEC	Т	→			→	200 OK	→	200 OK	→	200 OK	→	200 OK				
						→	ACK	→	ACK		ACK		ACK				
<u> </u>	DISC		+			+	BYE	+	BYE		BYE	+	BYE				
	REL		→			→	200 OK BYE	→	200 OK BYE	→	200 OK BYE	→	200 OK BYE				
	RLC		+														

SII_XXS:	SCFB	05		EN	N reference 300 207-1 es 6.1, 9.2.	[i.5	5],			N	IGN referenc TS 183 004		
TSS reference	ce:		SIP-	ISDN-	ISDN/Supp	len	nentary_ser	rvic	es/CFB				
Configuration			The "calli is rel	user <i>A</i> ng us eased	and the user is notified to the dive	ser d of erte	C are in ne call diversi d-to user" =	two	ork N1. User with diverte o, "served u	ed t isei	in network Nonember" = " receives not tipoint Configure."	Yes, "diver	ting number
Selection cri	teria:		Call CF N	forwa Iotifica	ding by the ding busy - ations supp	· N[orte	DUB ed						
Test purpose		ues	call of allow prese User trans para	diversi /ed - Tentation B is refer or meter	on and not TR) and uson not allow not notified the media s).	info er (/ed) of o an	ormed of the C is not info). call diversio	e d rm n. els	liverted-to no ed of the for Ensure that	um rwa in t	arded to user ber (user C h Irding numbe he active call prrectly (e.g. t	as present r (user B h I state (N10	ation not as 0) the voice
			Case Case Case a = li b = li	e a) no e b) Si	IXIT) IXIT)	00		cor	ndition				
Comments:													
ISDN 2	ISI	NC	1 MC	GCF	I-CSCF		S-CSCF	=	P-CSCF		UE-A	U	E-C
								L		+	INVITE		
				+-		+	INVITE	+	INVITE		1	1	
				+	INVITE	_	IINVIIE	+			 	1	
				→	181	→	181	→	181	→	181		
SETUR		+											
ALERT		→		→	180	→	180		180	→	180		
CONN	ECT			→	200 OK	→	200 OK		200 OK	→	200 OK		
				→	ACK	→	ACK		ACK		ACK	1	
DISC		Ψ,		+	BYE	+	BYE		BYE	+	BYE		
REL		↑		→	200 OK BYE	→	200 OK BYE	7	200 OK BYE	→	200 OK BYE		
RLC		_			1		1	<u> </u>	l	<u> </u>	1	1	

	XXSSC		06		cla	EN lus	N reference 300 207-1 es 6.1, 9.2	[i.5	5], 9.2.5			١	IGN refere TS 183 00		
TSS ref		:							nentary_se						
Configu				"calli is rel has l	ng lea	use sed en f	er is notified to the dive orwarded"	d of erte = n	f call divers d-to user" = o). User B	ion = N	with diverte	ed t use	o number" : r receives n	No, "divert otification th	
Selectio	on crite	ria:		Call CF N	for lot	war ifica	ding by the ding busy - itions supp	- NI orte	DUB ed						
Test pui	rpose:			call of allow prese User	dive ved ent B sfer	ersion l - n ation is n	on and not o COLR) a on not allow ot notified the media	info and ved of o	ormed of th user C is n). call diversion	e d ot i n.	liverted-to n informed of Ensure that	um the in	ber (user C forwarding the active c	er C, user A has presen number (us all state (N1 testing Qo	er B has 0) the voice
SIP Par		r val	ues	PIXI [*] Case Case	T for a per control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control o	or s) no) Su) Su (PI (PI	upported h 100 rel upported: 1 upported: 1 XIT) XIT)	ead			ndition				
Comme							,								
ISDN	12	ISE	NC 1	I MC	ЭC	F_	I-CSCF		S-CSCI		P-CSCF		UE-A	U	E-C
-					_			-		4	INVITE	+	INVITE	+	
								+	INVITE	1	IIIVIIL	+			
						+	INVITE								
	SETUP		+		<u> </u>			-		-	ļ	-	+ +		
	ALERTIN	G	7		1	→	180	→	180	→	180	→	180	+	
	CONNEC		→			→	200 OK	→	200 OK	→	200 OK	→	200 OK		
				-		→	ACK	→	ACK		ACK		ACK		
	DISC REL		← →		_	←	BYE 200 OK BYE	←	BYE 200 OK BYE		BYE 200 OK BYE	4	BYE 200 OK		
	KEL		7			7	ZUU UN BIE	7	200 OK BYE	7	200 OK BTE	→	BYE		
	RLC		+												

	XXSS		07			cla	EN lus	N reference 300 207-1 es 6.1, 9.2.	[i.5 2, 9	5], 9.2.5			N	IGN referenc TS 183 004		
TSS ref										nentary_se						
Configu	ration	:			CFB num	"c: bei	allir · is	ng user is no released to	otif the	ied of call d e diverted-t	live o u	rsion with d ser" = Yes,	ive "se	rted to numbe	er" = Yes ceives no	otification that
Selection					Call Call CF N	for for lot	war war ifica	ding by the ding busy - ations supp	ne UI orte	etwork DUB ed						
Test pu	rpose	:		Ensure that when user A calls user B, the call is forwarded to user C, user A is notified call diversion and informed of the diverted-to number (user C has presentation allowed no COLR) and user C is informed of the forwarding number (user B has presentation allowed). User B is notified of call diversion. Ensure that in the active call state (N10) the voice transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters).												
					a = li b = li		•	,								
					m =	line) (P	IXIT)								
Comme	nts:															
ISDN	12	<u>IS</u>	DN	1_	MC	<u>3C</u>	<u>F_</u>	I-CSCF		S-CSCF	:	P-CSCF		UE-A	<u> </u>	UE-C
													+	INVITE		
			<u> </u>	<u> </u>		_			_	INVITE	+	INVITE				
-				SET	TID	~	+	INVITE	_	INVITE	+		-			
					# 17	→	<u> </u>	INVIIL	1		╁		╁			
			t			ŕ	→	181	→	181	→	181	→	181	1	
	SETUP		+	i i		T					1		t		1	
	ALERTI		→				→	180	→	180	→	180	→	180		
	CONNE	CT	→				→	200 OK	→	200 OK	→	200 OK	→	200 OK		
	_						→	ACK	→	ACK		ACK	→	ACK		
	DISC		+	<u> </u>			+	BYE	+	BYE		BYE	+	BYE		
	REL		→	<u> </u>		1	→	200 OK BYE	→	200 OK BYE	7	200 OK BYE	→	200 OK BYE	1	
	RLC		+			<u> </u>							1			

SII_	XXSS	CFB	08			ΕN	N reference 300 207-1 es 6.1, 9.2	[i.5	5],			N	IGN refere TS 183 00					
TSS ref	erenc	e:							nentary_se									
Configu	ration	:		CFE num	3 "c ibei	allir r is	ig user is n released to	otif	ied of call c e diverted-t	live o u	rsion with d	ive "se	rted to num rved user i	nber" = Ye receives n	provided with es, "diverting otification that guration.			
Selectio	n crite	eria:		Call CF	for Not	war ifica	ding by the ding busy - itions supp	- UI orte	DUB ed									
Test pui	rpose:			call no (allo the	Ensure that when user A calls user B, the call is forwarded to user C, user A is notified of call diversion and informed of the diverted-to number (user C has presentation allowed - no COLR) and user C is informed of the forwarding number (user B has presentation allowed). User B is not notified of call diversion. Ensure that in the active call state (N10) the voice transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters). Dial string parameters options=PIXIT													
SIP Par	amete	er val	ues	PIX Cas Cas Cas b =														
Comme	nts:						•											
ISDN	12	ISI	NC	1 M	GC	F	I-CSCF	: 	S-CSCF		P-CSCF		UE-A		UE-C			
								,	IND OTE	+	INVITE							
				SETUP	4	+	INVITE	+	INVITE	-			-	+				
				RLC # 17	→	1		1				1	1	+				
						→	181	→	181	→	181	→	181					
	SETUP	VIC.	←		+	→	180	→	190	_	180	→	180	+				
	ALERTII CONNE		7 →		+	7 →	200 OK	→	180 200 OK		200 OK		200 OK					
	- O 1L		Ť		T	→	ACK	→	ACK		ACK	,	ACK					
	DISC		+			+	BYE	+	BYE	+		+	BYE					
	REL		→			→	200 OK BYE	>	200 OK BYE	>	200 OK BYE	→	200 OK BYE					
	RLC		+									İ						

	xxss		09			cla	EN aus	N reference 300 207-1 es 6.1, 9.2	[i.5	5], 9.2.5			١	IGN referenc TS 183 004 [
TSS ref		_						ISDN/Supp								
Configu					"calli is rel has l	ng lea	uso sec en f	er is notifie I to the dive orwarded"	d of erte = n	f call divers d-to user" o). User B	sion = N	with diverted o, "served o	ed t use	in network is o number" = \ r receives noti Itipoint Config	Yes, "div	erting number
Selection	on crite	eria:			Call	for	war	rding by the rding busy ations supp	- UI	DUB						
Test pu	rpose:				call of allow prese User	dive vec ent B sfer	ersi I - C tatio is r r on	on and not COLR) and on not allow not notified on the media	info use ved of o	ormed of the C is not). Call diversion	ne c info	liverted-to r rmed of the Ensure that	um for	arded to user of ber (user C harwarding number the active call brrectly (e.g. to	as prese ber (user state (N	B has 10) the voice
SIP Pai	ramete	er val	lues		PIXIT Case Case Case a = li b = li	T for a set of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the co	or s) no) Su) Su (P		iead 00	der: rel		ndition				
Comme	ents:															
ISDN	12	ISI	DN	1	MC	ЭC	F	I-CSCF	=	S-CSC	F	P-CSCI	=	UE-A		UE-C
														INVITE		
											+	INVITE				
				OFT	15	Ļ	Ļ	D. D. (175	+	INVITE						
	-		-	SETU			+	INVITE	-	1	-	 		1	+	
	1		-	KLU	# 1/	→	→	181	→	181		181	-	181	+	+
	SETUP		+	1			Ť	101	Ť	101	+	101	+	101		
	ALERTII	NG	→				→	180	→	180	→	180	→	180		
	CONNE		→				→	200 OK	→	200 OK		200 OK	→	200 OK		
							→	ACK	→	ACK		ACK	→	ACK		
	DISC		+				+	BYE	+	BYE		BYE				
	REL		→	<u> </u>		_	→	200 OK BYE	→	200 OK BYE	→	200 OK BYE	→	200 OK BYE		
l	RLC		+													

SII_XXSSCFB 10		SD	N reference	ce t	o:			N	IGN reference	e to:	
			300 207-1						TS 183 004	[45]	
	cla	us	es 6.1, 9.2.	.2, 9	9.2.5						
TSS reference:	SIP-ISE	N-	ISDN/Supp	len	nentary_se	rvic	ces/CFB				
Configuration:	The use	er A	and the us	ser	C are in ne	etwo	ork N1. Usei	r B	in network N	2 is pro	vided with CFB
	"calling	use	er is notified	d of	call divers	ion	with diverte	d t	o number" =	No, ⁱ div	erting number
	is releas	sed	to the dive	erte	d-to user" :	= N	o, "served u	sei	receives not	tification	that the call
	has bee	n f	orwarded"	= n	o). User B	has	s a point-to-r	mul	tipoint Config	uration.	
Selection criteria:			ding by the				•		-		
			ding busy -								
			ations supp								
Test purpose:	Ensure	tha	t when use	r A	calls user	В, 1	the call is for	rwa	arded to user	C, user	A is notified of
· ·									ber (user C h		
									forwarding n		
			n not allow						J	,	•
						n.	Ensure that	in t	he active cal	l state (I	N10) the voice
									rrectly (e.g. t		
	parame						•		, , ,	Ū	
SIP Parameter values:	Dial stri	ng	parameters	s op	tions=PIXI	Т					
		•		·							
	PIXIT fo	or s	upported h	eac	der:						
	Case a	no	100 rel								
	Case b	Sı	ipported: 1	00	rel						
	Case c)	Sι	ipported: 1	00 ו	rel and pre	cor	ndition				
	a = line	(PI	XIT)								
	b = line	(PI	XIT)								
	m = line	(P	IXIT)								
Comments:											
ISDN 2 ISDN 1	MGC	F	I-CSCF	•	S-CSCI	F	P-CSCF		UE-A		UE-C
						,	IND 075	+	INVITE		
				+	INVITE	-	INVITE				
		+	INVITE	È							
		→	404		101		404	Ę	404		
SETUP (7	181	→	181	7	181	7	181		
ALERTING →		→	180	→	180		180		180		
CONNECT →		→	200 OK	→	200 OK		200 OK		200 OK		
DISC +		→ ↓	ACK BYE	→	ACK BYE		ACK BYE	+	ACK BYE	+	
REL →		`	200 OK BYE	→	200 OK BYE		200 OK BYE		200 OK BYE	1	
RLC 🗲											

SII_XXS	SSCFB 1	I		E	N	300	eference to 0 207-1 [i.5 5.1, 9.2.2, 9],	5				SN references S 183 004			
TSS referen	ice:		SIP	-ISDN	N-I	SD	N/Supplem	ent	ary_service	es/(CFB					
Configuration	n:		CFI		er	Βh					N1. The use outing servic					
Selection cr	iteria:								tial Rerouti ed by the U		service					
Test purpose: Ensure that when user A calls user B, the call is forward Ensure that in the active call state (N10) the voice transperformed correctly (e.g. testing QoS parameters). SIP Parameter values: Dial string parameters options=PIXIT															B-ch	annels is
SIP Parame	eter value	s:	Dia PIX Cas Cas Cas a = b =	I string IT for se a) r se b) S	g r su no Su Su PI	app 100 ppc ppc XIT XIT	ameters op orted head 0 rel orted: 100 r orted: 100 r	tion er: el								
Comments:							T				1			-		
ISDN 2	<u> </u>	<u>SDN</u>	1	MG	3C	F	I-CSCF		S-CSCF		P-CSCF		UE-A		U	E-C
								+	INVITE	+	INVITE	+	INVITE			
			SET				INVITE									
	SETUP	+	FAC		→	→	181	→	181	1	181	→	181	_		
	ALERTING	→ →	RLC			→	180	→	180	→	180	→	180			
	CONNECT	→				→	200 OK	→	200 OK	→	200 OK	→	200 OK			
						→	ACK	→	ACK		ACK		ACK			
	DISC	+			_	+	BYE	+	BYE		BYE	+	BYE	_		
	REL RLC	→			-	→	200 OK BYE	→	200 OK BYE	7	200 OK BYE	→	200 OK BYE			
L	INLO		1				1	1	1	1	l	<u> </u>	1			

SII_XXSSCFB 12		E clau	N ISE	300 es 6	eference to 207-1 [i.5] 5.1, 9.2.2, 9.	, .2.5					SN reference S 183 004 [45				
TSS reference:					N/Suppleme										
Configuration:		Partial Re	ero erti	utir ng	ng service "d	call	ling user is	no	tified of call	div	ersion with div	erted t	vided with CFB o number" = a point-to-point		
Selection criteria:		Call forwa	ard	ling	vated the P busy perfo	rme	ed by the l	JĔ							
Test purpose:		Ensure that when user A calls user B, the call is forwarded to user C, user A is notified of ca diversion and informed of the diverted-to number (user C has presentation allowed - no COLR) and user C is informed of the forwarding number (user B has presentation allowed). Ensure that in the active call state (N10) the voice transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters). Dial string parameters options=PIXIT													
SIP Parameter values:		PIXIT for Case a) r Case b) S	su no Sup Sup PIX	ppo 100 ppo ppo (IT)	orted heade) rel rted: 100 re rted: 100 re	r:		ditio	n						
Comments:		,			•										
ISDN 2 ISI	DΝ	1 MC	ЭC	F	I-CSCF		S-CSC		P-CSCF		UE-A INVITE		UE-C		
						+	INVITE	+	INVITE	-					
		SETUP		+	INVITE			ᆂ	<u> </u>	╘					
OFTUR	Ļ	FAC		→	181	1	181	→	181	→	181				
SETUP ALERTING		REL RLC	4	→	180	→	180	-	180	-	180	-	_		
CONNECT	→	INLO	7	<i>→</i>	200 OK	→ →	200 OK		200 OK	→ →	200 OK	+			
	Ē			→	ACK	1	ACK	→	ACK	<u>,</u>	ACK				
DISC	+			+	BYE	4	BYE		BYE	+	BYE				
REL	→			→	200 OK BYE	→	200 OK BYE	→	200 OK BYE	→	200 OK BYE				
RLC	+		Щ			<u> </u>	l								

SII_XX		FB 13			EN claus	1 30 ses	reference 0 207-1 [i. 6.1, 9.2.2,	5], 9.2						SN references S 183 004				
TSS refere							N/Supplen											
Configurati	on:			CFB I	Parti er" =	al R : Ye	erouting se	ervio g no	ce "callir umber is	ng use	er	is notified	of c	3 in network call diversio rted-to user	n w	ith ḋi\	verte	ed to
Selection of	riteri	a:		Call fo	orwa	rdin	tivated the g busy				_							
Test purpo	se:			call di allowe prese Ensui	ivers ed - (entati re tha	ion COL on r at in	and not info R) and use not allowed the active	orm er C). cal	ed of th is not in	e dive nform N10) t	ert ie	ted-to numl d of the for e voice trar	ber wa	ed to user C (user C ha rding number er on the me	s pr er (ı	eseni user E	tatio 3 ha	n not s
performed correctly (e.g. testing QoS parameters). SIP Parameter values: Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT)																		
Comments	:			m = li														
ISDN 2	2	IS	DN	1	MGC	F	I-CSCF	=	S-CS	SCF		P-CSCF		UE-A			U	E-C
										+	- 1	INVITE	Ť	IIIVIIE				
								+	INVITE									
				SETUP		÷	INVITE	Ļ			_[Ļ	ļ				
	SETUR	,	_	FAC)		181	→	181	-	<u> </u>	181	7	181				
-	ALERT		+	REL RLC	-		180	→	180		+	180	_	180				
	CONN		7 →	INLU	7	 7 →	200 OK	→	200 OK			200 OK	7	200 OK				
	JOININ		Ť	1		→	ACK	ź	ACK	á		ACK	−ź	ACK				
	DISC		+			+	BYE	+	BYE	+		BYE	+	BYE				
	REL		→			→	200 OK BYE	→	200 OK B			200 OK BYE	→					
	RLC		+								Ι							

SII_XX		-B 14	į		cla	EN us	30 es (eference (0 207-1 [i. 6.1, 9.2.2,	5] 9.2						SN reference 'S 183 004 [4		
TSS refere	nce:							N/Supplen									
Configurati	on:			CFE num	3 - Pa nber"	arti =	ial F No,	Rerouting s	ser\ nu	vice "ca mber is	alling u	ıse	er is notified	d of	in network N call diversion ed-to user" =	with d	liverted to
Selection of	riteria	a:		Call	I forw	ar	ding	tivated the g busy per	forr	ned by	the U	Ě					
Test purpo	se:			call no - not Ens	diver COL allow sure t	rsio -R /ec ha	on a) ar l). t in	and not info nd user C is	orm s no cal	ed of tot infor	he diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on the diverged on	er of t th	ted-to numb he forwardi se voice trar	ber ng	number (user	resent B has	is notified of tation allowed presentation B-channels is
SIP Param	eter v	/alue:	S :	PIX Cas Cas Cas a = b =	IT for se a) se b)	r s no Su Su PI	upp 10 ippo ppo XIT XIT	orted: 100 orted: 100	der: rel			itic	on				
Comments	:											_					
ISDN 2	2	ISI	DN	1	MG	C	F	I-CSCF	=	S-C	CSCF		P-CSCF		UE-A		UE-C
												╛		+	INVITE		
			<u> </u>	<u>↓</u>					Ļ	15 D // T-		۲	INVITE	\bot	<u> </u>		
<u> </u>			 	SETU	ID	+	4	INVITE	+	INVITE	-	\dashv		+	 	1	
 	i		1	FAC		<u>₹</u>	•	HAAIIL				\dashv		+	 	1	
	SETUP	,	+	REL		+						\exists		1		1	
	ALERT		→	RLC		→		180	→	180			180		180		
	CONNE	ECT	→	↓				200 OK	→	200 OK			200 OK		200 OK	1	
	DICC		_	├ ─				ACK BYE	→	ACK BYE			ACK BYE	→	ACK BYE	-	
	DISC REL		←	\vdash	\longrightarrow			200 OK BYE	←	200 OK			200 OK BYE	→	200 OK BYE	+	
	RLC		÷				-	200 OR DIL		200 OK	U1 L	-	200 ON DIL		ZOO ON DIL		

SII_XXSSCFB	15	С	Ε	N 3	reference 00 207-1 [i. 6.1, 9.2.2,	.5],				Ν	IGN refer TS 183 0	•	
TSS reference:							tary_service	es/	CFB				
Configuration:		The use	er A	an	d the user (Са	re in netwo	rk				ΝO	rk N2 and is provided
Selection criteria					g by the net g busy supp								
Test purpose:									CFB was no o user C who				mined user busy.
SIP Parameter values:		PIXIT fo Case a) Case b)	or s no Su Su (PI (PI	upp 10 ipp ipp XIT XIT	orted: 100 r orted: 100 r ') ')	er: el		diti	on				
Comments:					T				1				
ISDN 2	ISD	N 1	MG	CF	I-CS	CF	S-CS0	Ė			INVITE	-A	UE-C
		SETUP RLC # 17	←	+	INVITE	+	INVITE	_	INVIIE				
	←			→	181 486	→	181 486	1	181 486	→	181 486		
				+	ACK	+	ACK	4	ACK	+	ACK		

SI	<u> </u>	XX	SSC	FB	16	,		cla	EN aus	N reference 300 207-1 es 6.1, 9.2.	[i.{ 2,	5], 9.2.5			N	IGN refer TS 183 0		
TSS I	re	fere	ence	:			SIP-	ISI	NC	-ISDN/Supp	oler	nentary_se	rvi	ces/CFB				
Confi	igı	urat	ion:											ork N1. The -to-multipoir				twork N2 and is
Selec	cti	on (crite	ia:						rding by the								
Test	рι	ırpc	se:					r A						ly if CFB wa ed to user C				ful. k determined user
SIP F				· val	lue	S:	PIXI Cas Cas Cas b = 1	T f e a e b e c	or s) no) S) S (P	parameters supported h o 100 rel upported: 1 upported: 1 IXIT) IXIT) PIXIT)	ea 00	der: rel		ndition				
Comr	m	ents	s:															
ISE	۸C	12		ISD	N 1		MC	3C	F	I-CSCF		S-CSCF		P-CSCF		UE-A		UE-C
	_			<u> </u>									L	INVITE	+	INVITE		
	H			+	-						+	INVITE	_	IIIVIIE			-	
						SETI		+	+	INVITE								
	1			1		RLC	# 17	→	→	181	→	181	_	181	→	181		
	H			1					7	101	7	101	7	101	7	101	-	
									→	486	→	486		486		486		
									+	ACK	+	ACK	+	ACK	+	ACK		

SII	XXSS	CFE	3 17		IS	BDN	referer	ıce	to:				NGN refere	nce to:
					Е	N 3	00 207-	1 [i	i.51.				TS 183 004	4 [45]
				(s 6.1, 9.							
TSS re	eferenc	e:		SIP-IS	DN:	-ISE	ON/Supp	ler	nentary_ser	vic	es/CFB			
Config	uration	:		The us	er /	۹ ar	nd the us	ser	C are in ne	tw	ork N1. The	e us	er B is in netw	ork N2 and is provided
									point-to-poir	nt (Configuration	on.		
Selecti	ion crite	eria:					ng busy s							
									Partial Rer					
Test p	urpose	:		To ver	ify t	hat	a call is	rel	eased corre	ctl	y if Partial	Rer	outing was no	t successfully.
											ed to user (C w	ho is user dete	ermined user busy.
SIP Pa	aramete	er va	lues:	Dial st	ring	pa	rameters	0	ptions=PIXI	Γ				
				PIXIT 1	for s	supi	ported h	ead	der:					
				Case a				-						
							orted: 1	იი	rel					
									rel and pred	:or	ndition			
				Ouoc c	, 0	۳PP	ortou. I	00	Tor and proc		raition.			
				a = line	e (P	IXI	Γ)							
				b = line	•		•							
				m = lin	١,		,							
Comm	ents:				,		•							
ISDI	N 1	ISI	DN 2	MG	CF		I-CSC	F	S-CSCF		P-CSCI	=	UE-A	UE-C
													INVITE	
										4	INVITE	+→	100 Trying	
											100 Trying	-		
								+	INVITE		····			
								1	100 Trying					
				SETUP	+	+	INVITE							
						→	100 Trying							
				FAC	→	→	181	_	101			_		
				REL	+			1	181	_	404	_		
				RLC	7				1	7	181	-	181	
-	SETUP		+		 	1			<u> </u>			+*	101	
	RLC #17		→						<u> </u>			+		
	1					→	486	→	486	→	486	→	486	
						+	ACK	4	ACK	+	ACK	+	ACK	

		KSSC		8		cla	ISDN refer EN 300 20 auses 6.1,	7-1 [9.2.2	i.5], 2, 9.2.5				NGN refer TS 183 0	
TSS	refe	rence	e:				N-ISDN/Su							
Conf	igur	ation	:										ser B is in net oint Configura	twork N2 and is provided ation.
Sele	ctior	r crite	eria:		User	Bh	arding bus as activate	d the	Partial Re					
Test	purp	oose:			was	not A c	successfu	ıl.			•		J	performed by the UE k determined user
SIP	Para	imete	er val	ues:	PIXIT Case Case Case a = li b = li	T fo e a) e b) e c) ine	g parameter supported no 100 rel Supported: Supported: PIXIT) PIXIT) (PIXIT)	hea	der:		ndition			
Com	men	its:												
ISD	N 1	13	SDN	2	MG	CF	I-CSC	F	S-CSCI	=	P-CSCI	=	UE-A	UE-C
													INVITE	
										Ļ	D 0 07F	→	100 Trying	
			-			_			-		INVITE 100 Trying	-	 	
								+	INVITE	7	100 Trying	+		
								→	100 Trying					
				SETU	ΙP	+ +								
				E40		<u>, ,</u>	, , ,							
	-		-	FAC REL		→	181	→	181			-		
			-	RLC		`		+-	101	→	181	+	 	
							1			1-		→	181	
			_			4	100	\bot	100	+	400	+	100	
	-		-	1		+		→	486 ACK		486 ACK	→	486 ACK	
	l			l		•	ACK	7	AUK	7	AUK	7	AUK	

SII_XXSSCFB 19			ISDN refero EN 300 207 auses 6.1, 9	7-1	[i.5],	NGN reference to: TS 183 004 [45]									
TSS reference:	SIP	-ISE	N-ISDN/Su	ıppl	lementary_s	er	vices/CFB								
Configuration:	The	The user A and the user C are in network N1. The user B is in network N2 and is proviwith Partial Rerouting - CFB. User B has a point-to-point Configuration.													
Selection criteria:	Use	Call forwarding busy supported User B has activated the Partial Rerouting service													
Test purpose:	was	To verify that a call is released correctly if Partial Rerouting - CFB performed by the was not successful. User A calls user B, the call is forwarded to user C who is user determined user by													
SIP Parameter value	PIX Cas Cas Cas a = b =	IT fose a se b se c se c se c se c se c se c se c	or supported or no 100 rel or Supported	d he	eader:										
Comments:															
ISDN 1 ISDN 2	MG	CF	I-CSCF		S-CSCF		P-CSCF		UE-A UE-C						
	I	Ť	1 2 2 2 .		1 2 2 2 2 1				INVITE	1					
									100 Trying						
							INVITE								
				,		<u>→</u>	100 Trying								
		_		←	INVITE 100 Trying					 					
SET	IIP (- +	INVITE	7	100 Trying										
021		<u>`</u>	100 Trying												
FAC	-	→	181												
REL		-		→	181										
RLC)				→	181	Ļ	ļ						
SETUP 🗲								→	181	+					
RLC #17		-			+			-		+					
		→	486	→	486	→	486	→	486						
		+	ACK	+			ACK		ACK						

SIIS_XXSSCFB 20	ISDN reference to:	NGN reference to:									
	EN 300 207-1 [i.5],	TS 183 004 [45]									
T00 (clauses 6.1, 9.2.2, 9.2.5										
TSS reference:	SIP-ISDN-SIP-ISDN/Supplementary										
Configuration:		twork N1. The user B is in network N2 and is provided									
	with CFU. User D forwards the call to	o back to user B. User B has a point-to-multipoint									
	Configuration.										
Selection criteria:	Call forwarding by the network										
	Call forwarding busy										
Test purpose:	Ensure that when user A calls user B, the call is forwarded to user C and D.										
	User D forwards the call to back to u	ser B. Ensure that the call is released.									
ISDN Parameter	BC = PIXIT										
values:											
SIP Parameter values:	Dial string parameters options=PIXI										
	PIXIT for supported header:										
	Case a) no 100 rel										
	Case b) Supported: 100 rel										
	Case c) Supported: 100 rel and pred	condition									
	a = line (PIXIT)										
	b = line (PIXIT)										
	m = line (PIXIT)										
Comments:											

SIIS_XXSSCFB 21	ISDN reference to:	NGN reference to:									
	EN 300 207-1 [i.5],	ITU-T Q.1912.5 [51]									
	clauses 6.1, 9.2.2, 9.2.5										
TSS reference:	SIP-ISDN-ISDN-SIP/Supplementary	_services/CFB									
Selection criteria:	The user is A in network N1. The use	er B and the user C are in network N2. User B is									
	provided with CFB. User E forwards	the call to back to user B.									
	Network option: hop counter support	red									
Test purpose:	Ensure that when user A calls user E	B, the call is forwarded to user C, C to D. User D									
	forwards the call to back to user B.										
	User D forwards the call to back to u	ser B. Ensure that the call is released.									
ISDN Parameter	BC = PIXIT										
values:											
SIP Parameter values:	Dial string parameters options=PIXI										
	PIXIT for supported header:										
	Case a) no 100 rel										
	Case b) Supported: 100 rel										
	Case c) Supported: 100 rel and pred	condition									
	a = line (PIXIT)										
	b = line (PIXIT)										
	m = line (PIXIT)										
Comments:											

6.2.2.7 CFNR

6.2.2.7.1 CFNR - SIS

SIS_X	XSSC	FNR	01	claus	EN ses	N referenc 300 403-1 9.2.2, 9.2.	[i.3 4.4], , 9.2.5	NGN reference to: TS 183 004 [45]							
TSS refer	ence:			SIP-ISD	N-S	SIP/Suppler	ner	tary_servic	es	/CFNR/						
Selection	criteri	a:		The user A and the user C are in network N1. The user B is in network N2 and is provide with CFNR, option B, immediate release, and no notification. User B has a point-to-multipoint Configuration.												
Test purp	ose:			Ensure that when user A calls user B, if unanswered, the call is forwarded to user C. Ensure that in the active call state (N10) the voice transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters).												
SIP Parar		value) S:	PIXIT fo Case a) Case b) Case c) a = line (b = line (Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)											
ISDN		ISL	N 2	MGCF	I-CSCF	S-CSCF	P-CSCF	:	UE-A			E-C				
IODIN	•	TIOL	<u> </u>	WOOI	1	1-0301		0-000				INVITE		+	L-0	
		+-	 				1		+	INVITE	Ť		1			
							+	INVITE								
			+	SETUP	+	INVITE										
			→	ALERTING	→	180	→	180	→	180	→	180	-			
		-	-	REL RLC			-		-		+		1			
		+	l ´	IKEO	→	181	→	181	→	181	→	181	1	-		
		1			→	INVITE	→	INVITE		INVITE			→	INVITE		
													+	100 Trying		
					+	180	+	180		180			+	180		
		\perp	<u> </u>		→	180	→	180		180	→	180	<u> </u>			
		+	↓		+	200 OK	+	200 OK		200 OK	1	ļ	+	200 OK		
		+	├		→	ACK 200 OK	→	ACK 200 OK		ACK	_	200 OK	→	ACK		
		+-	 		7	ACK	+	ACK		200 OK ASCK		ACK	1			
		+	 		+	BYE	+	BYE		BYE	+	AUN	+	BYE		
			1	1							4	!	•			
					->	200 OK BYF	→	200 OK BYF		200 OK BYF			→	200 OK BYF		
		Ŧ			→	200 OK BYE BYE	→	200 OK BYE BYE		200 OK BYE BYE	→	BYE	→	200 OK BYE		

SIS_XXS	SCFNI	₹02	claus	EN ses	N referenc 300 403-1 9.2.2, 9.2.	[i.3 4.4], , 9.2.5	NGN reference to: TS 183 004 [45]							
TSS reference	e:		SIP-ISD	N-S	SIP/Suppler	mer	ntary_servi	ces	/CFNR/						
Selection crit			The use with CFI	SIP-ISDN-SIP/Supplementary_services/CFNR/ The user A and the user C are in network N1. The user B is in network N2 and is provided with CFNR, option A, late release, no notification. User B has a point-to-multipoint Configuration.											
Test purpose	:		Ensure	Ensure that when user A calls user B, if unanswered, the call is forwarded to user C. Ensure that in the active call state (N10) the voice transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters).											
SIP Paramet	er valu	ies:	PIXIT fo Case a) Case b)	r su no Su Su (PI)	upported he 100 rel pported: 10 pported: 10 KIT)	ead 00 r			dition						
	1.05		1	_			0.000	CF P-CSCF UE-A UE							
ISDN 1	ISL	<u> N 2</u>	MGCF	-	I-CSCF	S-CSC			P-CSCF		UE-A		UE	:-C	
ļ		+	+			-		_	INVITE	-	INVITE				
-		+	+		-	_	INVITE	_	INVITE	-					
		+	SETUP	+	INVITE	_	IIIVIIL			-		-			
		•	ALERTING	<u>→</u>	180	→	180	→	180	→	180				
		†	1	†		Ť	1.20	Ť	1.23	Ť		1			
		1	1	1		1		Ť							
				→	181	→	181		181	→	181				
				→	INVITE	→	INVITE	→	INVITE			→	INVITE		
				<u> </u>		Ļ		<u> </u>				+	100 Trying		
		ļ, —	551	÷	180	÷	180		180	+	100	+	180		
 		←	REL	→	180	→	180 200 OK		180 200 OK	7	180	+	200 OK	 	
 		+	RLC	←	200 OK ACK	7	ACK		ACK	+	-	←	ACK		
 	-	+	+	7	200 OK	7	200 OK		200 OK	→	200 OK	7	AUN		
 		+	+	+	ACK	+	ACK		ASCK		ACK	 	+		
		1	1	÷	BYE	È	BYE		BYE	Ť		+	BYE		
		1	†	→	200 OK BYE	→	200 OK BYE		200 OK BYE	T		→	200 OK BYE		
			<u> </u>	→	BYE	→	BYE		BYE		BYE				
				+	200 OK BYE		200 OK BYE		200 OK BYE		200 OK BYE				

SIS_X			R03	clau	ISDN reference to: NGN reference to: EN 300 403-1 [i.3], TS 183 004 [45] clauses 9.2.2, 9.2.4.4, 9.2.5										
TSS refe				SIP-ISE	SIP-ISDN-SIP/Supplementary_services/CFNR/										
Configura	ation:			"calling is releas	The user A and the user C are in network N1. The user B is provided with CFNR "calling user is notified of call diversion with diverted to number" = Yes, "diverting number is released to the diverted-to user" = Yes ". User B has a point-to-multipoint Configuration.										
Selection	criter	ia:		CFNR supported, option B, immediate release CF Notifications supported											
Test purp	ose:			A is not present	Ensure that when user A calls user B, if unanswered, the call is forwarded to user C. User A is notified of call diversion and informed of the diverted-to number (user C has presentation allowed - no COLR) and user C is informed of the forwarding number (user B has presentation allowed).										
ISDN Pai	ramet	er va	lues:												
SIP Para	meter	valu	ies:	Dial stri	ng p	oarameters	op	tions=PIXI	Т						
Commen	to			Case a) Case b)	no Su Su (PI)	pported: 1(pported: 1(XIT) XIT)	00 r	el	con	dition					
ISDN		ISL	N 2	MGCI	-	I-CSCF	:	S-CSC	_	P-CSCF		UE-A		115	E-C
IODIN	' '	IOL	/11/2	IVIGCI		1-0301	1	3-030	'	1 -0301		INVITE	Т	0.	<u>C</u>
							+	INVITE	+	INVITE					
			←	SETUP ALERTING	←	INVITE 180	→	180	-	180	4	180			
			,	REL	Ĺ	.00	Ĺ		Ť		Ĺ				
			→	RLC	_		Ļ				<u> </u>				
					→	181 INVITE	→	181 INVITE		181 INVITE	7	181	→	INVITE	
					–	INVIIL	Ħ	III VIII E					+	100 Trying	
					+	180	+	180	+	180					
					←	180 180	←	180 180	←	180 180	→	180	+	100 Trying 180	
					←	180 180 200 OK	+ +	180 180 200 OK	+ +	180 180 200 OK	→	180	+	100 Trying 180 200 OK	
					←	180 180	←	180 180	+ + +	180 180		180 200 OK	+	100 Trying 180	
					+ + + + +	180 180 200 OK ACK 200 OK ACK	+ + + + +	180 180 200 OK ACK 200 OK ACK	+ + + + +	180 180 200 OK ACK 200 OK ASCK	→		+ + + +	100 Trying 180 200 OK ACK	
					+ + + + + +	180 180 200 OK ACK 200 OK ACK BYE	+ + + + + +	180 180 200 OK ACK 200 OK ACK BYE	+ + + + + +	180 180 200 OK ACK 200 OK ASCK BYE	→	200 OK	÷ + + + +	100 Trying 180 200 OK ACK	
					+ + + + +	180 180 200 OK ACK 200 OK ACK	+ + + + +	180 180 200 OK ACK 200 OK ACK	+ + + + + + + +	180 180 200 OK ACK 200 OK ASCK	→	200 OK	+ + + +	100 Trying 180 200 OK ACK	

SIS_X	XSSC	FNR	04	ISDN reference to: NGN reference to: TS 183 004 [45] clauses 6.1, 9.2.2, 9.2.5											
TSS refer	ence:			SIP-ISD	N-S	IP/Suppler	ner	ntary_servic	ces	/CFNR					
Configura	tion:			SIP-ISDN-SIP/Supplementary_services/CFNR The user A and the user C are in network N1. The user B is in network N2 and is provided											
				with CFNR "calling user is notified of call diversion with diverted to number" = Yes,											
				"diverting number is released to the diverted-to user" = No). User B has a point-to-multipoint Configuration.											
Selection	criteri	a·		CFNR supported, option B, immediate release											
Ocicolion	Citton	u.		CF Notifications supported											
Test purp	000:			Ensure that when user A calls user B, the call is forwarded to user C, user A is notified of											
rest purp	ose.														
										verted-to nu					
									tori	med of the f	orw	varding nur	nbe	er (user B n	as
						not allowe									
SIP Parai	neter	valu	es:	Dial strir	ıg p	arameters	opt	ions=PIXIT	•						
				PIXIT for supported header:											
				Case a) no 100 rel											
				Case b) Supported: 100 rel											
				Case c) Supported: 100 rel and precondition											
				, 11											
				a = line (PIXIT)											
				b = line (PIXIT)											
					b = line (PIXIT) m = line (PIXIT)										
0				III = IIIIe	(FI.	<u> </u>									
Commen															
ISDN	1	ISL	ON 2	MGCF		I-CSCF		S-CSCF		P-CSCF		UE-A		UE	-C
		-	1				-		_	INVITE	+	INVITE	-		
							+	INVITE	Ť	IIIVIIL					
			+	SETUP	+	INVITE									
			→	ALERTING	→	180	→	180	→	180	→	180			
			+	REL RLC			1				1				
			 	KLO	→	181	→	181	→	181	→	181			
					→	INVITE	→	INVITE	→	INVITE			→	INVITE	
									Ļ				+	100 Trying	
	 	1	+		+ +	180 180	+	180 180		180 180	<u> </u>	180	+	180	
	1	+	1		7	200 OK	+	200 OK	+		+	100	+	200 OK	
		L			→	ACK	→	ACK	→	ACK	L		<u>`</u>	ACK	
					→	200 OK	→	200 OK		200 OK		200 OK			
	 	1	 		+	ACK	+	ACK BYE		ASCK BYE	+	ACK	_	DVE	
-	1	+	1		←	BYE 200 OK BYE		200 OK BYE		200 OK BYE	\vdash		←	BYE 200 OK BYE	
			1	1	_			LOO ON DIL						LOO OIL DIL	1
					→	BYE	→	BYE	→	BYE	→	BYE			

	XSSCI			E cla	EN 3 use	l reference 300 207-1 [s 6.1, 9.2.2	i.5] 2, 9.	, 2.5				GN refere TS 183 00			
TSS refe		:		SIP-ISDN	-SII	P/Supplem	<u>ent</u> a	ary_service	s/C	CFNR					
Configura	ation:			The user	A a	nd the usei	. C	are in netw	ork	N1. The us	er I	B is in netw	ork	N2 and is p	orovided
İ										diversion with					
				number is	rel	eased to th	ie d	iverted-to ι	ıse	r'' = No). Use	er E	3 has a poi	nt-t	o-multipoint	
İ				Configura						,				•	
Selection	n criter	ia.					ıB	immediate	re	lease					
	. 001	ια.				ns support		mmodiato		.000					
Test purp	pose:							ills user B.	the	call is forwa	ard	ed to user (C. t	ıser A is no	tified of
l oor par	p000.									erted-to num					
										he forwardin					
İ				not allowe	•	u user C is	110	t iiiioiiiieu t	טו נ	ne ioi waiun	ıy ı	idilibei (ds	CIL	o ilas piese	mation
OID D								DIVIT							
SIP Para	ameter	valu	es:	Diai string	j pa	rameters o	ptic	ns=PIXII							
İ															
						ported hea	der	:							
				Case a) n											
				Case b) S	Supr	orted: 100	rel								
				Case c) S	upr	orted: 100	rel	and precor	ndit	tion					
				,	٠.			•							
İ				a = line (F	PIXI	T)									
				b = line (F											
İ				m = line (i		,									
Commor	otor			III – IIIIC (IV	11)									
Commer		100		1400		1.0005		0.0005							
ISDN	<u> 1</u> 1	ISL	N 2	MGCF											^
						I-CSCF		S-CSCF		P-CSCF		UE-A		UE	-C
		+			_	I-CSCF	F	S-CSCF				INVITE		UE	-C
					- -	1-0501		S-CSCF		P-CSCF INVITE				UE	-C
			+	SETUP	+	INVITE	+	INVITE	+	INVITE	+	INVITE		UE	-C
			→	SETUP ALERTING					+		+			UE	-C
			→	SETUP ALERTING REL	+	INVITE	+	INVITE	+	INVITE	+	INVITE		UE	-C
			→	SETUP ALERTING	+	INVITE	+	INVITE	+	INVITE	+	INVITE		UE	-C
			→	SETUP ALERTING REL	+	INVITE	+	INVITE	÷	INVITE	+	INVITE	→	INVITE	-C
			→	SETUP ALERTING REL	÷ ÷	INVITE 180	÷	INVITE 180 INVITE	÷	INVITE 180 INVITE	+	INVITE	+	INVITE 100 Trying	-C
			→	SETUP ALERTING REL	÷ ÷	INVITE 180 INVITE	÷	INVITE 180 INVITE 180	÷	180 INVITE 180	÷	INVITE 180		INVITE	-C
			→	SETUP ALERTING REL	÷ + + + + + + + + + + + + + + + + + + +	INVITE 180 INVITE 180 180	÷ ÷ ÷	INVITE 180 INVITE 180 180	÷	INVITE 180 INVITE 180 180 180	÷	INVITE	+	INVITE 100 Trying 180	-C
			→	SETUP ALERTING REL	÷ ÷	INVITE 180 INVITE	÷	INVITE 180 INVITE 180	÷ ÷ ÷	180 INVITE 180	÷	INVITE 180	+	INVITE 100 Trying	-C
			→	SETUP ALERTING REL	+ + + + + +	INVITE 180 INVITE 180 180 200 OK ACK 200 OK	÷ ÷ ÷ ÷ ÷ ÷	INVITE 180 INVITE 180 180 200 OK ACK 200 OK	÷ ÷ ÷ ÷ ÷ ÷ ÷ ÷ ÷ ÷ ÷ ÷ ÷ ÷ † † † † † †	180 INVITE 180 180 180 200 OK ACK 200 OK	÷	180 180 200 OK	+	INVITE 100 Trying 180 200 OK	-C
			→	SETUP ALERTING REL	+ + + + + + +	INVITE 180 INVITE 180 180 200 OK ACK 200 OK ACK	+ + + + + + +	INVITE 180 INVITE 180 180 200 OK ACK 200 OK ACK	÷ ÷ ÷ ÷ ÷ ÷ ÷ ÷ ÷ ÷ ÷ ÷ ÷ † ÷ † † † † †	180 INVITE 180 180 180 180 200 OK ACK 200 OK ASCK	÷	180 180	+ + + +	INVITE 100 Trying 180 200 OK ACK	-C
			→	SETUP ALERTING REL	÷ ÷ ÷ ÷ ÷ ÷	INVITE 180 INVITE 180 180 200 OK ACK 200 OK ACK BYE	÷ ÷ ÷ ÷ ÷ ÷ ÷ ÷ ÷ ÷ ÷ † ÷ † † † † † † †	INVITE 180 INVITE 180 180 180 ACK 200 OK ACK 200 OK ACK BYE	+ + + + + + + +	INVITE 180 INVITE 180 180 200 OK ACK 200 OK ASCK BYE	÷	180 180 200 OK	+ + + +	INVITE 100 Trying 180 200 OK ACK	-C
			→	SETUP ALERTING REL	+ + + + + + +	INVITE 180 INVITE 180 180 200 OK ACK 200 OK ACK	+ + + + + + +	INVITE 180 INVITE 180 180 200 OK ACK 200 OK ACK	+ + + + + + + + + + + +	180 INVITE 180 180 180 180 200 OK ACK 200 OK ASCK	÷	180 180 200 OK	+ + + +	INVITE 100 Trying 180 200 OK ACK	-C

SIS_XXS	SCFI	NR ()6		ΞN	N referenc 300 403-1 9.2.2, 9.2.4	[i.3],			٨	IGN refer TS 183 0			
TSS referen	ce:					SIP/Suppler			ces	/CFNR/					
Configuratio										rk N1. The u	ise	r B is pro	vide	ed with CFN	NR .
3										with diverted					
										s). User B h					
Selection cri	teria:					orted, optic								•	Ŭ
						ions suppo									
Test purpos	ə:								3, if	unanswered	d, t	he call is	for	warded to u	ıser C. User
										ed of the div					
										ser C is infor					
						entation allo								Ü	`
ISDN Param	eter	valu	es:					•							
SIP Parame				Dial strin	ng p	arameters	op	tions=PIXI7	Ī						
					٠.		•								
				PIXIT fo	r su	pported he	ad	er:							
				Case a)	no	100 rel									
				Case b)	Su	oported: 10	0 r	el							
						ported: 10			one	dition					
						•		•							
				a = line	(PI)	(IT)									
				b = line											
				m = line	`	,									
Comments:					,	,									
ISDN 1	15	SDN	12	MGCF	•	I-CSCF		S-CSCI	=	P-CSCF		UE-A		U	E-C
											+	INVITE			
							4	INVITE	+	INVITE					
		•		SETUP	+	INVITE									
		-	•	ALERTING	4	180	→	180	→	180	→	180			
					→	181	→	181		181	→	181			
					1	INVITE	→	INVITE	→	INVITE			→	INVITE 100 Trying	
	-	•		REL	+	180	+	180	+	180			+	180	
		-		RLC	→	180	→	180	→	180	→	180			
						200 OK ACK	←	200 OK ACK		200 OK ACK			+	200 OK ACK	
	-	-+			→	200 OK	7 →	200 OK		200 OK	→	200 OK	7	ACK	
					+	ACK	+	ACK	+	ASCK		ACK			
					+	BYE	<u>→</u>	BYE		BYE			+	BYE	
					<u>→</u>	200 OK BYE BYE	→	200 OK BYE BYE		200 OK BYE BYE	→	BYE	7	200 OK BYE	
						200 OK BYE		200 OK BYE		200 OK BYE		200 OK BYE	1	İ	

SIS_X			07	cla	EN use	N referenc 300 207-1 es 6.1, 9.2.	[i.5 2, 9	5], 9.2.5			N	IGN refe TS 183 (
TSS refer	rence:			SIP-ISD	N-S	SIP/Suppler	me	ntary_servi	ces	/CFNR					
Configura	ation:			with CFI "divertin	NR g n	"calling use	er is elea	s notified of	ca	rk N1. The ull diversion verted-to user	vith	n diverted	to to	number" =	
Selection	criter	ia:				orted, optic		A, late relea d	se	,					
Test purp	ose:			Ensure call dive	that rsic - C	when user on and not i	· A nfo use	calls user E rmed of the r C is not in	di	ne call is forverted-to number med of the f	mb	er (user	C h	as presenta	ation not
SIP Parai		valu	6 5.	PIXIT fo Case a) Case b)	r su no Su Su (PI)	upported he 100 rel pported: 10 pported: 10 KIT)	ead 00 r			dition					
Comment				1											
ISDN	1	ISD	N 2	MGCF		I-CSCF		S-CSCF		P-CSCF		UE-A	١	U	E-C
							+-		_	INVITE	+	INVITE	-		
							+	INVITE	Ť	IIIVIIL					
			+	SETUP	+	INVITE									
			→	ALERTING	→	180	→	180	→	180	→	180	<u> </u>		
			 	 			1		-				-		
					→	181	→	181	→	181	→	181			
					→	INVITE	→	INVITE		INVITE			→	INVITE	
			Ļ		<u> </u>				Ļ				+	100 Trying	
		1	←	REL	+	180	+	180		180	_	400	+	180	
—		-	→	RLC	→	180 200 OK	→	180 200 OK		180 200 OK	7	180	+	200 OK	
		 	 	 	→	ACK	→	ACK		ACK			→	ACK	
					→	200 OK	→	200 OK		200 OK	→	200 OK	Ť		
				1	+	ACK	+	ACK		ASCK		ACK			
											_	AON			
					+	BYE	+	BYE	+	BYE	È	AOR	+	BYE	
									←			BYE	←	BYE 200 OK BYE	

SIS_XX				l cla	EN 3 use	N reference 300 207-1 [s 6.1, 9.2.2	i.5] 2, 9	, .2.5			N	IGN refere TS 183 00			
TSS refe				SIP-ISDN	I-SI	P/Supplem	enta	ary_service	s/(CFNR					
Configura	ation:			The user	A a	nd the usei	r C	are in netw	ork	N1. The us	er	B is in netw	ork/	N2 and is	provided
										diversion wi					
				number is	s rel	eased to th	ne d	liverted-to ι	ıse	r'' = No, "). U	Jse	r B has a p	oin	t-to-multipo	int
				Configura	tior	١.				. ,		•		•	
Selection	criter	ia:					۱ A.	late releas	e						
						ns support			•						
Test purp	JOSA.							lle usar R	the	call is forwa	ard	ed to user i	<u> </u>	ısar Δ is no	tified of
rest purp										erted-to num					
										he forwardir					
					•	iu usei C is	110	t ii iioi iiiea (ו וכ	ile ioi waidii	ıy I	iuilibei (us	CI [o nas piese	nialion
				not allowe											
SIP Para	meter	valu	es:	Dial string	g pa	rameters o	ptic	ns=PIXIT							
				PIXIT for	sup	ported hea	der	:							
				Case a) r	no 1	00 rel									
						oorted: 100	rel								
								and precor	hdi	tion					
				0400 0, 0	MPI	ortoa. 100		ana procoi	ı						
				a = line (f	ועוכ	Τ\									
				b = line (,									
_				m = line (PIX	11)									
Commen	its:														
ISDN	1	ISD	N 2	MGCI	=	I-CSCF	=	S-CSCF	=	P-CSCF		UE-A		UE	-C
											+	INVITE			
					-		+	INVITE	+	INVITE	1		<u> </u>		
			+	SETUP	+	INVITE	-	INVITE	+						
			→	ALERTING	→	180	→	180	→	180	→	180			
		-			-		-		1		-		-		
				 	→	INVITE	→	INVITE	7	INVITE	-		→	INVITE	
				1	+	INVIIL	ť	IIIVIIL	ť	INVIIL	1		É	100 Trying	
			+	REL	+	180	+	180		180			+	180	
			→	RLC	→	180	→	180	→		→	180			
		1	<u> </u>		+	200 OK	+	200 OK		200 OK	╄		←	200 OK	
	1	+	 		→	ACK 200 OK	→	ACK 200 OK	→	ACK 200 OK	4	200 OK	7	ACK	
-	1	1			+	ACK	+	ACK		ASCK		ACK	\vdash	-	
		1			+	BYE	+	BYE	+	BYE			+	BYE	
					→	200 OK BYE	→	200 OK BYE		200 OK BYE			→	200 OK BYE	
		-	ļ		→	BYE	→	BYE		BYE		BYE	<u> </u>		
	I	1		1	+	200 OK BYE	+	200 OK BYE	7	200 OK BYE	7	200 OK BYE	<u> </u>	1	l

SIS_X	XSSC	FNR	09	E cla	N:	N reference 300 207-1 es 6.1, 9.2.2	i.5 2, 9	l, .2.5			١	IGN refere TS 183 00			
TSS ref	erence	e:		SIP-ISDN	I-S	IP/Supplem	en	tary_service	es/	CFNR					
Configu	ration	:								k N1. The uer B has a p					is provided
Selection	n crite	eria:		Partial re	rou	ting during	ale	rting - no n	otif	ication					
Test pu	rpose:			Ensure th	at	when user	A c	alls user B,	th	e call is forw	var	ded to use	r C.		
ISDN P				BC = PIX	ΙΤ										
values:															
	amete	r val	IIES.	Dial string	n na	arameters o	nnti	ons=PIXIT							
Comme	ents:			Case a) r Case b) S	no 1 Sup Sup PIX	ported: 100 ported: 100 IT) IT)) re		ond	ition					
ISDN	l 1	ISD	N 2	MGCF		I-CSCF		S-CSCF	=	P-CSCF		UE-A		U	E-C
											+	INVITE			
							+	INVITE	+	INVITE	-				
			+	SETUP	+	INVITE	_	INVITE							
			`	ALERT	<u>`</u>	180	→	180	→	180	→	180			
			→	FAC											
			<u> </u>	REL							1				
			<u>→</u>	RLC SETUP	→	INVITE	→	INVITE	_	INVITE	-		→	INVITE	
				OL TOI	Í	IIIVIIL	ŕ	IIIVIIL	ť	INVIIL			÷	100 Trying	
					+	180	+	180	+	180			+	180	
					→	180	→	180		180	→	180			
					۰	200 OK	+	200 OK		200 OK		ļ	+	200 OK	
		<u> </u>			→	ACK 200 OK	→	ACK 200 OK		ACK 200 OK	<u> </u>	200 OK	→	ACK	
					7	ACK	7	ACK		ASCK		ACK			
					+	BYE	÷	BYE		BYE	Ť	7.510	+	BYE	
					→	200 OK BYE	→	200 OK BYE	→	200 OK BYE	L		→	200 OK BYE	
					↑	BYE	→	BYE		BYE		BYE			
	l			l	+	200 OK BYE	+	200 OK BYE	+	200 OK BYE	+	200 OK BYE			

SIS_XXSS		10	E claı	IN JSE	N reference 300 207-1 es 6.1, 9.2.2	[i.5] 2, 9],).2.5			N	IGN refer TS 183 0			
TSS reference					IP/Supplem									
Configuration	n:													is provided
														n diverted to
								rele	ased to the	div	erted-to u	ser'	" = Yes). U	ser B has a
			point-to-p	oir	nt Configura	itio	n.							
Selection crit	teria:		Partial re	rou	ting during	ale	erting - full i	noti	fication					
Test purpose									e call is for	war	ded to use	r C	. User A is	notified of
			call divers	sioi	n and inforr	nec	d of the div	erte	d-to numbe	er (u	iser C has	pre	esentation	not allowed
									rwarding n					
			allowed).						3		(
ISDN Param	eter		BC = PIX	ΙΤ										
values:														
SIP Paramet	er val	ues:	Dial string	gp	arameters of	opti	ons=PIXIT							
				יו כ		-								
			PIXIT for	su	pported hea	ade	er:							
			Case a) r											
					ported: 100) re	el.							
					ported: 100			and	ition					
			0000 0, 0	- ~ P	portou. Tot		and proof	J						
			a = line (f	ЭΙΧ	TT)									
			b = line (f											
			m = line (line)											
Comments:			111 – 11110 (/	(11)									
ISDN 1	ISD	N 2	MGCF		I-CSCF	:	S-CSC	F	P-CSCF	=	UE-A			IE-C
IODIVI	100	IN Z	IVICCI		1-0001	1	0-000		1 -0001		INVITE	<u> </u>	1	L-U
								+	INVITE					
		+	SETUP	+	INVITE	+	INVITE						1	
	 	→	ALERT	→	180	→	180	→	180	→	180			
		→	FAC											
		←	REL RLC	→	181	→	181	_	181	_	181		1	
	1	7	RLC	→ →	INVITE	→	INVITE		INVITE	7	161	→	INVITE	
						Ļ						+	100 Trying	
	<u> </u>			←	180	+	180 180		180 180	-	180	+	180	
				7	200 OK	+	200 OK		200 OK	+	100	+	200 OK	
				→	ACK	→	ACK	→	ACK			→	ACK	
			-	<u>→</u>	200 OK ACK	→	200 OK ACK		200 OK ASCK		200 OK ACK	-	+	
	+			+	BYE	+	BYE		BYE	+	AUN	+	BYE	
				→	200 OK BYE	→	200 OK BYE	→	200 OK BYE	Ļ		→	200 OK BYE	
	 			→ ↓	BYE 200 OK BYE	→	BYE 200 OK BYE		BYE 200 OK BYE		BYE 200 OK BYE	-	1	
		<u> </u>	1	_	200 ON DIE	_	ZUU UN BIE	14	ZUU UN DIE	7	200 ON DIE	1	1	

SIS_XXSSC		11	E	N	N reference 300 207-1 es 6.1, 9.2.2	i.5],			N	IGN refer TS 183 0			
TSS referenc	e:				IP/Supplem									
Configuration	:													is provided
														n diverted to
								rele	ased to the	div	erted-to u	ser'	" = No). Us	er B has a
					it Configura									
Selection crite					ting during									
Test purpose	:								e call is for					
									erted-to nu					
			allowed -	CC	DLR) and us	ser	C is not in	forr	ned of the f	orw	arding nui	mbe	er (user B h	nas
			presentati	ion	not allowe	d).								
ISDN Parame	eter		BC = PIX	ΙT										
values:														
SIP Paramete	er val	ues:	Dial string	p	arameters o	pti	ons=PIXIT							·
					oported hea	ade	r:							
			Case a) n											
					ported: 100									
			Case c) S	Sup	ported: 100) re	l and prece	ond	ition					
			a = line (F											
			b = line (F											
			m = line (PΙ)	(IT)									
Comments:														
ISDN 1	ISD	N 2	MGCF		I-CSCF		S-CSC	F	P-CSCI		UE-A		U	E-C
	₩								INVITE	+	INVITE		1	
						+	INVITE	+	IIVVIIL	+			1	
		+		(INVITE	Ļ	100		100	Ļ	100			
	+-	→	ALERT FAC	→	180	→	180	7	180	7	180			
		+	REL											
	<u> </u>			<u>→</u> →	181 INVITE	→	181 INVITE		181 INVITE	→	181	→	INVITE	
	+			7		7	HAVIIE	7	114411F	+		+	100 Trying	
				÷	180	÷	180		180	Ļ		+	180	
	+			<u>→</u>	180 200 OK	→	180 200 OK		180 200 OK	→	180	+	200 OK	
				→	ACK	→	ACK	→	ACK	ᆂ		→	ACK	
				→	200 OK	→	200 OK		200 OK		200 OK			
	+-			(ACK BYE	+	ACK BYE		ASCK BYE		ACK	+	BYE	
				→	200 OK BYE	→	200 OK BYE	→	200 OK BYE	Ļ		→	200 OK BYE	
	+			<u>→</u>	BYE 200 OK BYE	→	BYE 200 OK BYE		BYE 200 OK BYE		BYE 200 OK BYE		-	
			1	_	ZUU UN BIE	_	200 ON BYE	7	200 ON BTE	7	ZUU UN BYE	1	1	

SIS_X	XSS	CFN	R 12			N reference					١	IGN refer			
						300 207-1						TS 183 0	04 [[45]	
						es 6.1, 9.2									
TSS refe				SIP-ISE)N-	SIP/Supple	eme	entary_ser\	/ice	s/CFNR					
Configur	atior	۱:								ork N1. The					
															version with
				diverted	to	number" =	No	o, "diverting	วู ทเ	ımber is rele	eas	ed to the o	avib	rted-to use	er" = No).
				User B	has	s a point-to-	-po	int Configu	rati	on.					
Selection	n crit	eria:				outing durin									
Test pur	pose	:		Ensure	tha	at when use	r A	calls user	В,	the call is fo	rwa	arded to us	ser	C, user A	is notified of
				call dive	ersi	on and not	inf	ormed of th	ne c	liverted-to n	um	ber (user	C h	as present	ation
				allowed	- r	no COLR) a	nd	user C is r	not i	nformed of	the	forwardin	g nı	umber (us	er B has
						on not allow							J	(
ISDN Pa	ram	eter v	alues					,							
SIP Para						parameters	s or	otions=PIX	IT						
0		0		2.0 0	9	pa.a	, ,								
				PIXIT fo	or s	supported h	ead	der							
						100 rel	out	201.							
						upported: 1	\cap	rol							
										dition					
				Case c)	31	upported: 1	UU	rei and pre	COI	idition					
				a = line											
				b = line											
				m = line) (F	PIXIT)									
Commer	nts:														
ISDN	1	ISD	N 2	MGCF	•	I-CSCF	•	S-CSC	F	P-CSCF		UE-A		U	IE-C
											+	INVITE			
							+	INVITE	+	INVITE	-		-	1	
			+	SETUP	+	INVITE		IIIVIIL	-		+		1		
			→	ALERT											
			→	FAC			<u> </u>		_				-		
			+	REL RLC	→	INVITE	→	INVITE	-	INVITE	+		→	INVITE	
				ILLO			Ť	1144112	Ť		+		+	100 Trying	
					+	180	+	180		180			+	180	
					→ ↓	180 200 OK	→	180 200 OK		180 200 OK	→	180	+	200 OK	
 					<u>~</u>	ACK	<u>₹</u>	ACK		ACK	+		→ -	ACK	
					→	200 OK	→	200 OK	→	200 OK		200 OK			
					+	ACK	+	ACK		ASCK	+	ACK			
					۰	BYE	+	BYE		BYE	<u> </u>		+	BYE	
					→	200 OK BYE BYE	→	200 OK BYE BYE		200 OK BYE BYE	_	BYE	→	200 OK BYE	
					7 ←	200 OK BYE	7	200 OK BYE		200 OK BYE		200 OK BYE	1	+	
<u> </u>			!	L	·	LOO ON DIL	<u>. </u>	1200 OK DIL	<u> </u>	LOO ON DIL	<u> </u>	LOO OK DIL			·

SIS_X	XSS	CFNR	13	cla	EN use	N referenc 300 207-1 es 6.1, 9.2.	[i.5] 2, 9], .2.5			١	IGN refe TS 183			
TSS ref	erend	ce:		SIP-ISDN	1-S	IP/Suppler	nen	tary_servi	ces/	CFNR					
Configu	ration	า:		The user Configura			rk N	2 and is p	rovi	ded with	CFNR	. User B	ha	s a point-to	-multipoint
Selectio	n crit	teria:		CFNR op	tio	ing by the in B, immeder determine	diate	e release,		otificatio	n				
Test pui	rpose	e:				it a call is r user B, the								ful . ermined us	er busy.
ISDN Pa				BC = PIX											
SIP Par	amet	er val	ues:	PIXIT for Case a) (Case b) S	sup Sup Sup Sup PIX	oported: 10 oported: 10 (IT) (IT)	ade 0 re	r: el		ition					
Comme	nts:					•									
ISDN	1	ISD	N 2	MGCF		I-CSCI	F	S-CSC	F	P-CS		UE-A		L	JE-C
							-		+	INVITE		IINVIIE	+-		
							+	INVITE							
			(SETUP	+	INVITE									
			→	ALERT											
			+	DISC											
			→	REL	→	INVITE	→	INVITE	→	INVITE				INVITE	
					ļ_	100		400	Ţ	100				100 Trying	
				 	+	486 ACK	+	486 ACK		486 ACK				486 ACK	1
				 	7	486	 	486		486	→	486	+	AUN	+
					÷	ACK	É	ACK		ACK		ACK			

SIS_XXSSCFNR 14	EN claus	N reference 300 207-1 es 6.1, 9.2.2	[i.5 2, 9], 9.2.5			l	NGN refer TS 183 0			
TSS reference:		SIP/Supplen									
Configuration:	The user E Configurat		rk N	N2 and is p	rov	ided with	CFN	R. User B	has a	a point-to-mul	tipoint
Selection criteria:	CFNR sup	ding by the i ported option etwork deter	n B	3, immediat			noti	ification			
Test purpose:		nat a call is re Is user B, the								etermined use	er busy.
ISDN Parameter values:	BC = PIXI	Γ									
	PIXIT for su Case a) no Case b) Su	apported hear 100 rel apported: 100 apported: 100 (IT) (IT)	ide) re	r: I	ond	ition					
Comments:	MOOF	1.0005		0.000		D 00/	<u> </u>			LIE O	
ISDN 1 ISDN 2	MGCF	I-CSCF		S-CSCF		P-CS(<i>-</i>	UE-A		UE-C	
├	SETUP ←	INVITE	_	INVITE	╁		+				
	ALERT										
+ + + + + + + + + + + + + + + + + + +	DISC				+						
	REL →	INVITE	→	INVITE	→	INVITE	-				
	+	486	+	486		486					
	→	ACK	→	ACK		ACK		400			
	→	486 ACK	→	486 ACK		486 ACK	→ +	486 ACK		-	

SIS_X			15	E cla	EN :	N reference 300 207-1 es 6.1, 9.2.2	[i.5] 2, 9], .2.5			١	NGN refero			
TSS refe						IP/Supplem									
Configu	ratior	n:		The user Configura			k N	2 and is p	rovi	ded with C	FNF	R . User B l	has	a point-t	o-multipoint
Selectio	n crit	eria:		CFNR op user C is	tior us	ing by the r n A, late rel er determin	eas ed	se, no notif user busy							
Test pur	rpose):		User A ca	alls	t a call is re user B, the nues to ale	ca	ıll is forwar	dec	I to user C					ser busy.
ISDN Pa	aram	eter		BC = PIX	ΙΤ										
SIP Par	amet	er va	ues:	s: Dial string parameters options=PIXIT											
				Case a) r Case b) S	no ? Sup Sup PIX	ported: 100 ported: 100 IT) IT)) re	el	ond	ition					
Comme	nts:			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,	w 1 /									
ISDN		ISD	N 2	MGCF		I-CSCF		S-CSC	F	P-CSC		UE-A			UE-C
						+	1		+	INVITE	_	INVITE			
							+	INVITE	Ť						
			+	SETUP	+	INVITE									
			→	ALERT			_		_						
					→	INVITE	→	INVITE		INVITE	_		→	INVITE	
					7	486	7	486		486	-	1	7	486	
					<u>`</u>	ACK	₹	ACK		ACK	-		<u>`</u>	ACK	
			+	CONNECT	+	200 OK	+	200 OK	+	200 OK	+	200 OK			
					→	ACK	→	ACK		ASCK	→	ACK			
			+	DISC	+	BYE	+	BYE		BYE	+	BYE	1		
-			→	REL RLC	→	200 OK BYE	→	200 OK BYE	→	200 OK BYE	→	200 OK BYE	1	-	
			7	KLC			1						<u> </u>		

SIS_XXS		16	E cla	EN use	N reference 300 207-1 [es 6.1, 9.2.2	i.5 2, 9	l, .2.5			N	IGN refere TS 183 00			
TSS refere					IP/Supplem									
Configurat	ion:		The user Configura			kΝ	2 and is p	rovi	ded with CF	NF	R. User B h	as	a point-to	o-multipoint
Selection of	criteria:		CFNR su	ıpp	ing by the r orted optior twork deter	ıΑ	late relea		no notificati	on				
Test purpo	se:		User A c	alls	user B, the	e ca	ıll is forwar	dec	if CFNR wa I to user C v to alert to t	who	is user			
ISDN Para	meter		BC = PIX	ΊΤ	•									
	PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)													
Comments											,			
ISDN 1	ISDN	12	MGCF		I-CSCF		S-CSCI	<u> </u>	P-CSCF		UE-A			UE-C
								-	IND/ITE	+	INVITE	<u> </u>		
\vdash						4	INVITE	7	INVITE	1		1	 	
		+	SETUP	+	INVITE	È	114411	+		\vdash		\vdash	1	
			ALERT											
		→	FAC											
				↑	INVITE	→	INVITE		INVITE			→	INVITE	
				Ψ,	486	Ψ,	486		486	1		+	486	
 		+	CONNECT	→ ↓	ACK 200 OK	→ ↓	ACK 200 OK		ACK 200 OK	+	200 OK	→	ACK	
 		Υ	CONNECT	<u>~</u>	ACK	→	ACK		ASCK	→	ACK	 	<u> </u>	
		+	DISC	′	BYE	-	BYE		BYE	É	BYE	t		
		→	REL	→	200 OK BYE	→	200 OK BYE		200 OK BYE	→	200 OK BYE			
		+	RLC											

SIS_XXSSCF		E cla	EN use	N referenc 300 207-1 es 6.1, 9.2.2	[i.5] 2, 9], .2.5				NGN refere TS 183 00	
TSS reference	:			IP/Supplen							
Configuration:		The user Configura			kΝ	l2 and is pi	ovi	ded with	n CFN	R. User B h	nas a point-to-point
Selection criter	ia:	CFNR su	ıpp	ing by the i orted, parti twork detei	al r	erouting (o			mediat	e release)	
Test purpose:							•			not succes o is netwo	sful. rk determined user busy.
ISDN Paramete values:	er	BC = PIX	ΊT								
SIP Parameter	values:	PIXIT for Case a) (Case b) (su no Sur Sur PIX	pported he 100 rel pported: 10 pported: 10 (IT)	ade 0 re	er: el		lition			
Comments:				1		1		1		1	
ISDN 1	SDN 2	MGCF		I-CSCF	: 	S-CSCI		P-C	SCF (UE-A	UE-C
					+	INVITE	~	INVITE		+ +	+
	+	SETUP	+	INVITE	Ť						
	→	ALERT									
	→	FAC									
	+	REL	_	IND OTE	_	IND ATE	_	IND/ITE		+ +	
	→	RLC	→	INVITE 486	→	INVITE 486		INVITE 486	-	+	
			→	ACK	→	ACK		ACK	+	+ +	
			,	486	÷	486		486	→	486	
			4	ACK	+	ACK		ACK	+	ACK	

SIS_X	XSSC	FNR	18	E	N	N reference 300 207-1 [i.5],			N	IGN refero					
TSS ref	orono	<u></u>				es 6.1, 9.2.2 IP/Supplem	_		000/	CENID							
						s in networl					-NID	I Hoor D b		o point to	noint		
Configu	ration.						K IN	ız and is p	rovi	ded with Ci	-INK	. User B r	as	a point-to	o-point		
0-14:-				Configura			- 4-										
Selectio	n crite	eria:				ing by the r				1							
						al rerouting				elease)							
						<u>er determin</u>											
Test pui	rpose:					it a call is re											
						user B, the					who	is user de	eter	mined us	ser busy.		
						inues to ale	rt t	o the forw	ardii	ng user.							
ISDN Pa	arame	ter		BC = PIX	ΙT												
values:																	
SIP Par	amete	r val	ues:	Dial string	string parameters options=PIXIT												
				PIXIT for	su	pported hea	ade	er:									
				Case a) r	no ²	100 rel											
						ported: 100) re	el									
						ported: 100			ond	ition							
					J 0. P			. aa p. o									
				a = line (l	ΡΙΧ	TT)											
				b = line (
				m = line (
Comme	nto:				1 1/	XII)											
		ICD	NI O	MOOF		1.000		0.000		D CCC		I 115 A		1	LIE C		
ISDN	11	טפו	N 2	MGCF	_	I-CSCF	<u> </u>	S-CSC	<u>, F</u>	P-CSC		UE-A	1		UE-C		
									+	INVITE	Ť	INVIIL					
							+	INVITE									
			<u>←</u>	SETUP ALERT	+	INVITE	<u> </u>				-		<u> </u>				
			→	FAC			\vdash			1	+		 	 	+		
					→	INVITE	→	INVITE	→	INVITE			→	INVITE	1		
					+	486	+	486		486			+	486			
				CONNECT	→	ACK	→	ACK		ACK	+	000 014	→	ACK			
			→	CONNECT	→	200 OK ACK	→	200 OK ACK		200 OK ACK	→ +	200 OK ACK	-	1	+		
			+	DISC	+	BYE	+	BYE		BYE	+	BYE	-	<u> </u>	+		
			→	REL	→	200 OK BYE	→	200 OK BYE		200 OK BYE	→	200 OK BYE					
			+	RLC													

SISI_XXSSCFNR 19	ISDN reference to:	NGN reference to:
	EN 300 207-1 [i.5], clauses 6.1, 9.2.2, 9.2.5	TS 183 004 [45]
TSS reference:	SIP-ISDN-SIP-ISDN/Supplementar	y_services/CFNR
Configuration:	The user A and the user C are in ne	etwork N1. The user B is in network N2 and is provided
		Il to back to user B. User B has a point-to-multipoint
	Configuration.	
Selection criteria:	Call forwarding by the network	
	CFNR supported	
Test purpose:		B, the call is forwarded to user C and D.
	User D forwards the call to back to	user B. Ensure that the call is released.
ISDN Parameter	BC = PIXIT	
values:		
SIP Parameter values:	Dial string parameters options=PIX	IT
	PIXIT for supported header:	
	Case a) no 100 rel	
	Case b) Supported: 100 rel	
	Case c) Supported: 100 rel and pre	condition
	a = line (PIXIT)	
	b = line (PIXIT)	
	m = line (PIXIT)	
Comments:		

6.2.2.7.2 CFNR - SII

SII_	XX	(SSCFN	R 01	Ī	ĒΝ	N referenc 300 403-1 9.2.2, 9.2.	[i.3],			N	IGN reference TS 183 004 [4		
TSS r	ef	erence:		SIP-ISD	N-I	SDN/Suppl	em	entary_ser	vice	es/CFNR/				
Selec	tio	n criteria	:	with CFI	١R	and the use , option B, Configuratio	im	C are in ne mediate r	two ele a	rk N1. The ase, and no	use o no	r B is in netwo tification. User	rk N2 and B has a p	d is provided point-to-
Test p	oui	rpose:		Ensure t	hat		e c	all state (N	110	the voice	tran	he call is forwa sfer on the me		
value	s:	ameter		PIXIT fo Case a) Case b)	r sı no Su Su (PI)	pported: 10 pported: 10 KIT) KIT)	ade	er: el		lition				
Comr	-					1		1		1		•		
ISD	N	1 ISE	N 2	MGCF	:	I-CSCF	: 	S-CSC	F_	P-CSC		UE-A	ι	JE-C
									4_		+	INVITE		
-					-		+	INVITE	_	INVITE	_			
-			+	SETUP	+	INVITE	_	INVITE						
 			→	ALERTING	→	180	→	180		180	→	180		
			É	REL	Ť	100	Ť	100	Ť	100	Ť	100		
			÷	RLC			1							
			Ė				1	1	+		_	1		
•	F	SETUP					1		1					
-		ALERTING												
-	>	CONNECT			→	200 OK	→	200 OK		200 OK	→	200 OK		
					+	ACK	+	ACK		ASCK		ACK		
		DISC			+	BYE	+	BYE		BYE		BYE		
		REL			→	200 OK BYE	→	200 OK BYE	→	200 OK BYE	→	200 OK BYE		
•	ŀ	RLC												

SII_XXSSCFNR 02	EN	N reference 300 403-1 9.2.2, 9.2.4	[i.3],				NGN refere TS 183 00	
TSS reference:	SIP-ISDN-I	SDN/Supple	em	entary_ser	vice	es/CFNR/			
Selection criteria:	The user A	and the use	er (care in ne	two	rk N1. The		r B is in net ser B has a	nd is provided ultipoint
Test purpose:		t in the activ	e c	all state (N	N10	the voice	tran	the call is for sfer on the i	user C. B-channels is
		upported he 100 rel pported: 10 pported: 10 XIT) XIT)	ade	er: el		dition			
Comments:	,	,							
ISDN 1 ISDN 2	MGCF	I-CSCF	1	S-CSC	F	P-CSCF		UE-A	UE-C
					+	INVITE	Ť	INVIIL	
			+	INVITE					
	SETUP (INVITE	Ļ	100	+	100	+	100	
→	ALERTING ->	180	→	180	7	180	→	180	
€ SETUP € F	REL								
	RLC								
→ CONNECT	→	200 OK	→	200 OK		200 OK		200 OK	
← DISC	+	ACK BYE	+	ACK BYE		ASCK BYE		ACK BYE	
→ REL	 	200 OK BYE	7	200 OK BYE		200 OK BYE	→	200 OK BYE	
€ RLC	1	200 010 012	f	LOG ON DIE	Ť	200 01012	Ť	200 01012	

_		CFNR ()3	claus	EN e 9	N reference 300 403-1 .2.2, clause clause 9.2.5	[i.3] e 9. 5	2.4.4,			N	IGN refere TS 183 00				
TSS refer						DN/Supple										
Configura	tion	i.		CFNR "ci number is Configura	allin s re atio	ig user is no leased to th	otifi ne d	ed of call d diverted-to	ive use	k N1. The usersion with deprise Yes. Use	iveı	ted to num	ber"	= Yes	, "dive	
Selection	crit	eria:		CF Notific	cati	orted, optior ons suppor	ted									
Test purp	ose	:		A is notifi presenta	ed ion	of call diver	sio 10 C	n and inforr	ne	inanswered d of the dive er C is infor	erte	d-to numbe	er (u	ser C h	nas	
ISDN Par	ame	eter valu	es:													
ISDN Parameter values: Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)																
Comment	s:															
ISDN	1	ISI	ON 2	MGCF		I-CSCF	:	S-CSCF	:	P-CSCF	:	UE-A			UE-C	
												INVITE				
			-				+	INVITE	+	INVITE			_		_	
			+	SETUP	+	INVITE		INVITE	1		-		\dashv			
			→	ALERTING	→	180	→	180	→	180	→	180				
			+	REL					<u> </u>							
			→	RLC	→	181	→	181	4	181	_	181			_	
	+	SETUP	+		ŕ	.51	ŕ		ť	.51	ť	.51	-			
	→	ALERTING														
	→	CONNECT	-		→	200 OK ACK	→	200 OK		200 OK ASCK		200 OK ACK			_	
	+	DISC	+	 	+	BYE	+	ACK BYE		BYE		BYE	-+		-	
	→	REL	1		→	200 OK BYE	→	200 OK BYE		200 OK BYE		200 OK BYE				
	+	RLC														

SII_)	XXS	SCI	FNR	04	E cla	EN 3 use	N reference 300 207-1 [s 6.1, 9.2.2	i.5] 2, 9	, .2.5			١	IGN referenc TS 183 004 [
TSS re	fere	ence	:		SIP-ISDN	I-IS	DN/Supple	me	ntary_serv	ices	CFNR				
Configu	urat	ion:			The user with CFN diverting multipoint	A a R "d nur t Co	nd the user calling user mber is rele onfiguration	r C is i ease	are in nety notified of ed to the o	worl call live	N1. The udiversion water	vith	B is in networ diverted to nu No). User B h	mber" = '	Yes,
Selecti	on (crite	ria:		CF Notific	catio	rted, option ons support	ted							
Test pu	urpo	se:			call divers allowed -	sion CO	and not in	forr er	ned of the	div	erted-to nu	mbe	led to user C, er (user C has arding numbe	presenta	ition not
SIP Pa	ıram	netei	r valu		PIXIT for Case a) r Case b) S	sup no 1 Supp Supp PIXI	ported: 100 ported: 100 T) T)	der rel	:		tion				
Comm	ents	3:			,		,								
ISD	N 1		ISD	N 2	MGCF	=	I-CSCF	:	S-CSC	F	P-CSC		UE-A		UE-C
										+	INVITE				
						ļ_		+	INVITE						
				←	SETUP	+	INVITE	→	400		400		400		
				+	ALERTING REL	7	180	7	180	7	180	7	180		
	-	<u> </u>		→	RLC	1	 	+	<u> </u>						+
				Ť	0	→	181	→	181	→	181	→	181		
	+	SETL	JP			1		1	1	T		1			
	→		RTING												
	→	CON	NECT			→	200 OK	→	200 OK		200 OK		200 OK		
	Ļ_	DIOC				+	ACK	+	ACK		ASCK	+	ACK		
	+	DISC			ļ	+	BYE	+	BYE		BYE	+	BYE		
	→	REL		l	 	→	200 OK BYE	→	200 OK BYE		200 OK BYE	→	200 OK BYE		
	+	RLC		İ	1		1	1							

SII	XXS	SCFNR 0	5		EN:	N referenc 300 207-1 es 6.1, 9.2.2	[i.5]	,			N	IGN reference TS 183 004 [4		
TSS re	feren	ce:		SIP-ISDI	N-IS	DN/Supple	eme	ntary_servi	ces	CFNR				
Configu				The user	r A a NR "o is re	and the use calling use leased to t	r C r is	are in netw	ork all	N1. The us	ith	B is in network diverted to nun B has a point-t	nber" =	No, "diverting
Selection	on cri	teria:		CF Notifi	icati	ons suppoi	ted							
Test pu	urpos	e:		call diver	rsior LR) a	n and not ir and user C	ıforı	med of the	dive	erted-to nun	nbe	led to user C, user C tas p or (user C has p g number (user	oresent	ation allowed
SIP Pa	rame	ter values	:	Dial strin	ig pa	arameters o	opti	ons=PIXIT						
PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)														
Comme	ents:													
ISDI	N 1	ISDN	2	MGC	F_	I-CSCI	=	S-CSCF	=	P-CSCF		UE-A		UE-C
	+			+	+-		_		+	INVITE	_	IINVIIE		
					+		+	INVITE	T		+			
			+	SETUP	+	INVITE								
			→	ALERTING	→	180	→	180	→	180	→	180		
			+	REL	—									
	4		→	RLC	—	<u> </u>					1		1	
	 	OFTUD	<u> </u>	+	_		-	ļ	1		+-		1	
	←	SETUP ALERTING	+	+	$+\!\!-$	+	+-	1	+		+-	 	+	
	7 →	CONNECT	 	+	→	200 OK	→	200 OK	-	200 OK	1	200 OK	+	
	+	CONNECT	 	+	+	ACK	+	ACK		ASCK	+	ACK	+	
	+	DISC	1	+	÷	BYE	÷	BYE		BYE		BYE	+	
	<u>`</u>	REL	t	+	→	200 OK BYE	<u>→</u>	200 OK BYE		200 OK BYE	Ì	200 OK BYE		
1	É	RLC	-											

SII	_XX	SSCFNR	06	cla	ΕN	ON referen I 300 403-1 s 9.2.2, 9.2	1 [i.:	3],				NGN refere TS 183 00			
TSS re	efere	nce:		SIP-ISI	DN-I	SDN/Supp	lem	entary_ser	vic	es/CFNR/					
Config	urati	on:		The us	er A use	and the user is notified	ser (C are in ne call diversi	two on	rk N1. The with diverte	d to		Yes	, "divert	NR ting number onfiguration.
Selecti	ion c	riteria:		CF Not	ifica	tions supp	orte	A, late rel d							
Test pu	urpo	se:		A is no present	tifiec tatio	d of call div	ersi - no	on and info COLR) an	rm	ed of the div	/ert	ed-to numbe	er (u	ıser C h	user C. User las mber (user B
ISDN F	⊃ara	meter val	ues:												
		eter value		Dial str	ing p	arameters	op	tions=PIXI	Γ						
				Case a	i) no i) Su i) Su e (Pl) e (Pl)	XIT) XIT)	00 r		on	dition					
Comm	ents	:													
ISDN	l 1	ISDN	12	MGC	F_	I-CSCI	<u> </u>	S-CSCI	=	P-CSCF		UE-A			UE-C
									+	INVITE	Ī				
			 		4_	ļ	+	INVITE			<u> </u>				ļ
		+	+	SETUP ALERTING	+	INVITE 180	→	180	_	180	→	180			
		+	7	ALERTING	7	180	7	180	7	180	7	180	-+		
		 	+	+	+	1	1	1	T		1	1	\dashv		1
					→	181	→	181	→	181	→	181			
	<u> </u>	SETUP	+	DISC		<u> </u>			1		4		—∔		<u> </u>
) →	ALERTING CONNECT	→	REL	→	200 OK		200 OK	_	200 OK	┶	200 OK			
	7	COININECT	+	+	7	ACK	→	ACK	7	ASCK		ACK	-+		+
 	(DISC	+	+	+	BYE	+	BYE		BYE		BYE	-+		†
	`	REL	+-	1	 	200 OK BYE	<u>→</u>	200 OK BYE			÷	200 OK BYE	-+		1
	-	RLC													

SII_X	XSSCF	NR 07	С	ΕN	ON referen I 300 207-1 ses 6.1, 9.2	l [i.:	5],				NGN refer TS 183 0			
TSS refer	ence:						entary_ser	vice	es/CFNR					
Configura	tion:		The use with CF	er A NR ng n	and the us "calling us	ser (er is elea	C are in net s notified of	wo	rk N1. The Ill diversion erted-to use	with	n diverted to	o nu	mber" =	
Selection	criteria:		CF Not	ifica	tions suppo	orte								
Test purp	ose:		call div	ersio d - C	on and not OLR) and	info use	rmed of the r C is not in	e di	he call is for verted-to no med of the	umb	er (user C	has	present	
presentation not allowed). SIP Parameter values: Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)														
Comment	٥٠			<u> </u>	., .,									
ISDN 1		DN 2	MGC	F	I-CSCI	=	S-CSCF	=	P-CSCF		UE-A			UE-C
						+	INVITE	+	INVITE	-	INVITE			
		+	SETUP	+	INVITE	<u> </u>	IIIVIIL							
		→	ALERTING	→	180	→	180	→	180	→	180			
				→	181	→	181	_	181	_	181			
+	SETUP	+	DISC	+	101	7	101	7	101	+	101	\vdash		1
÷	ALERTI		REL		+		+	1		1	†			+
<u>,</u>	CONNE			→	200 OK	→	200 OK	→	200 OK	→	200 OK			1
				+	ACK	+	ACK		ASCK	+				
+	DISC			+	BYE	+	BYE		BYE		BYE			
→	REL			→	200 OK BYE	→	200 OK BYE	→	200 OK BYE	→	200 OK BYE			
+	RLC										T			

SII_	XX	SSCFNR	80	cl	EN	ON referen I 300 207-1 ses 6.1, 9.2	1 [i.	5],				NGN refer TS 183 0				
TSS ref	fere	nce:		SIP-ISE	N-I	SDN/Supp	lem	entary_ser	vice	es/CFNR						-
Configu	urati	on:		The use with CF	er A NR ng n	and the us "calling us umber is re	ser (er is	C are in ne	two ca	rk N1. The Il diversion	with	n diverted to	o nur	nber" =	nd is provide = No, nt-to-multipe	
Selection	on c	riteria:				oorted, opti tions supp		A, late relead	ase							
Test pu	ırpo	se:		call dive	ersio DLR)	on and not and user	info	rmed of the	e di	verted-to ni	umb	er (user C	has p	oresen	is notified of tation allow presentation	ed
SIP Pa	ram	eter value	es:				op	tions=PIXI	Γ							
				PIXIT fo	or si	upported he	ead	er:								
				Case a) no	100 rel										
				Case b	Su (pported: 1	00 r	el								
				Case c) Su	pported: 10	00 r	el and pred	one	dition						
					/DI	VIT)										
				a = line												
				b = line												
0	4	_		m = line) (P	IXII)										
Comme				1 1400		1.0001		0.000	_	D 0001		I II A			LIE O	
ISDN	1	ISDN	12	MGC	_	I-CSCI	_	S-CSCI		P-CSCF		UE-A			UE-C	
									+	INVITE	+	INVIIL				
							+	INVITE								
			+	SETUP	+	INVITE										
			→	ALERTING	→	180	→	180	→	180	→	180	1			
	ļ.								L							
	+	SETUP ALERTING	_	DISC	+		-	ļ	-		+-		-		+	
	→	CONNECT	←	DISC REL	→	200 OK	→	200 OK	4	200 OK	→	200 OK	├		+	
	ť	CONNECT	+	IXLL	+	ACK	+	ACK	+	ASCK	+	ACK			+	
	+	DISC	1	1	+	BYE	+	BYE		BYE		BYE			1	-
	→	REL			→	200 OK BYE	→	200 OK BYE		200 OK BYE		200 OK BYE				
	+	RLC														

SII_	XX	SSCFNR	09	cl	EN aus	DN referen I 300 207-1 ses 6.1, 9.2	[i.:	5], 9.2.5				NGN refer TS 183 0		
TSS r	efe	rence:		SIP-ISE	N-	ISDN/Supp	lem	entary_se	rvic	es/CFNR				
Config	gura	ation:								ork N1. The t Configura			twork N2 an	d is provided
Select	tion	criteria:		Partial ı	erc	uting during	g al	erting - no	no	ification				
Test p	ourp	ose:		Ensure	tha	t when use	r A	calls user	B, t	he call is fo	rwa	rded to use	er C.	
ISDN values		rameter		BC = Pl	IXΙΊ	Ī								
SIP P	ara	meter va	lues	PIXIT fo	or s) no	parameters upported ho 100 rel upported: 10	ead	er:	Т					
Comn	nen	ts:		Case c) a = line b = line m = line	(PI (PI	XIT)	00 r	el and pred	con	dition				
ISDN	J 1	ISDN	2	MGCF	=	I-CSCF	:	S-CSCI	F	P-CSCF	=	UE-A	l	JE-C
1001									T	. 230.		INVITE	<u> </u>	
									+	INVITE				
			<u> </u>		<u> </u>		+	INVITE			_			
			÷	SETUP	+	INVITE	_	400	_	400	_	400		
1			→	ALERTING FAC	→	180	→	180	7	180	→	180		
			7	REL	1	1	1		+		+	+		
 			`	RLC	\vdash	+	1		+		+	+		
	+	SETUP	Ė		t	1	\vdash		+		+	†		
	→	ALERTING		1	1		1		1		t			
	→	CONNECT			→	200 OK	→	200 OK	→	200 OK	→	200 OK		
					+	ACK	+	ACK	+	ASCK	+	ACK		
	+	DISC			+	BYE	+	BYE		BYE	+	BYE		
	→	REL		1	→	200 OK BYE	→	200 OK BYE	→	200 OK BYE	→	200 OK BYE		
	↓	RLC												

_		CFNR 10		E clau	N 3 ses	reference 00 207-1 [s 6.1, 9.2.2	i.5], 9, 9.	2.5				GN reference t TS 183 004 [45]	
TSS refe						DN/Supple							
Configura	atio	n:	V ",	vith CFNF	ર "c nur	alling user nber is rele	is r	notified of	call c	diversion w	ith (diverted to numb	N2 and is provided per" = Yes, s a point-to-point
Selection	cri	teria:	F	Partial rer	outi	ing during	aler	ting - full r	otific	cation			
Test purp			E C	nsure that all divers	at w ion	hen user / and inform	A ca ned	alls user B	, the erted	call is forw	an	ed to user C. Us d user C is infor	ser A is notified of med of the
ISDN Pa	ram	eter		BC = PIXI		(3.2.2					<i>/</i> ·		
values:	. u	0.01		- 1 1741	•								
SIP Para	met	ter values	s: [Dial string	ра	rameters o	ptic	ns=PIXIT					
				PIXIT for s Case a) n		ported hea	der	:					
			a	Case b) S	upp upp	oorted: 100 oorted: 100 T)			onditi	on			
				n = line (f		,							
Commen	ts:												
ISDN	1	ISDN	2	MGCI	F	I-CSC	F	S-CSC	CF	P-CSC	F	UE-A	UE-C
											+	INVITE	
							+	INVITE	+	INVITE			
		1	+	SETUP	+	INVITE	_	IINVIIE					
			→	ALERTING	→	180	→	180	→	180	→	180	
			→	FAC									
			+	REL									
			→	RLC	→	181	→	181	→	181	→	181	
	+	SETUP	<u> </u>	ļ	<u> </u>	ļ		ļ		ļ		 	
<u> </u>	→	ALERTING	<u> </u>	ļ	L.	000 014	+	000 014		000 014	+	000 01/	
	→	CONNECT	1	 	→	200 OK ACK	→	200 OK ACK	→ +	200 OK ASCK	→	200 OK ACK	
1	+	DISC	 	 	+	BYE	+	BYE	+	BYE	+	BYE	
	→	REL	t		→	200 OK BYE	→	200 OK BYE	→	200 OK BYE	→	200 OK BYE	
	+	RLC	1	i e			1 -	1					

		SCFNR 1	11	cla	EN	ON reference I 300 207-1 Ses 6.1, 9.2	[i. ! .2,	5], 9.2.5				NGN refer TS 183 0		
TSS ref						ISDN/Supp								
Configu	ırati	on:		with CF	NR g r	calling use use	er is	s notified o	f ca	all diversion	wit	h diverted t	to number"	and is provided = Yes, pint-to-point
Selection	on c	riteria:		Partial r	erc	uting during	a al	erting						
Test pu	irpo	se:		Ensure call dive	tha rsi - C		r A info use	calls user I rmed of the r C is not in	e d	iverted-to n	uml	oer (user C	has prese	
ISDN P	ara	meter		BC = PI										
values:					•									
		eter valu	66.	Dial stri	חמ	parameters	οn	tions-PIXI	Т					
OII I ai	am	cici valu	C3.	Diai Still	ıy	parameters	υþ	110113-1 17(1	'					
				Case a) Case b)	nc Su Su (PI (PI	ipported: 1(ipported: 1(XIT) XIT)	00 r	el	con	dition				
Comme	ents	:												
ISDN	1	ISDN	2	MGCI	=	I-CSCF		S-CSCF	=	P-CSCF		UE-A		UE-C
											+	INVITE		
							Ļ		+	INVITE				
			+	OFTUD	+	INVITE	+	INVITE	-		-	.		
			→	SETUP ALERTING		180	→	180	-	180	_	180		
			→	FAC		100	7	100	7	100	7	100		
			÷	DISC							T	† †		
			→	REL	→	181	→	181	→	181	→	181		
		SETUP												
		ALERTING	<u> </u>		_		Ļ		Ļ		Ļ	1		
	→	CONNECT	<u> </u>		<u>→</u>	200 OK		200 OK		200 OK	→	200 OK		
	+	DISC	1		(ACK BYE	+	ACK BYE		ASCK BYE	+	ACK BYE		+
	<u>-</u>	REL	 		<u>₹</u>	200 OK BYE	→	200 OK BYE	→	200 OK BYE	7	200 OK BYE		+
		RLC			_	200 OK DIL	ŕ	200 OK DIL	ť	200 OK DIL	Ť	200 OK DIL		

_		SCFNR 1	12	cla	EN	ON reference I 300 207-1 Ses 6.1, 9.2	[i.:	5], 9.2.5				NGN refe TS 183 (
TSS ref						ISDN/Suppl											
Configu	ırati	ion:		with CF	NR g r	calling use " number is re	er i	s notified of	Ca	all diversion	wit	h diverted	to r	ork N2 and is provide number" = No, has a point-to-point			
Selection	on c	criteria:		Partial r	erc	uting during	g al	erting - no i	not	ification							
Test pu	irpo	se:		Ensure call dive	tha rsi LR	t when user on and not i) and user (r A info	calls user E rmed of the	3, t	he call is for iverted-to nu	ımb	oer (user C) ha	C, user A is notified of as presentation allowerser B has presentation			
ISDN P	ara	meter		BC = PI	XΙΊ												
values:																	
SIP Par	ram	eter valu	es:	Dial string parameters options=PIXIT													
				Case a) Case b)	nc Su Su (PI (PI	ipported: 10 ipported: 10 XIT) XIT)	00 r	el	on	dition							
Comme	ents	S:				-											
ISDN	1	ISDN	2	MGCI	=	I-CSCF		S-CSCF		P-CSCF		UE-A		UE-C			
									+	INVITE	È	IIIVIIL					
							+	INVITE									
			←	SETUP ALERTING	4	INVITE 180	→	180	_	180	→	180					
			→	FAC	7	100	7	160	7	100	7	160					
			+	REL													
			→	RLC													
-	←	SETUP ALERTING	 						1		1						
	7 →	CONNECT	 		→	200 OK	→	200 OK	→	200 OK	→	200 OK		1			
	ŕ	CONNECT			÷	ACK	-	ACK		ASCK	÷	ACK					
	+	DISC			+	BYE	+	BYE	+	BYE	+	BYE					
	→	REL			→	200 OK BYE	→	200 OK BYE	→	200 OK BYE	→	200 OK BYE					
	4	RLC															

SII_XXS	SC	FNR [*]	13	cla	EN	ON referer I 300 207- ses 6.1, 9.	1 [i. 2.2,	5], 9.2.5				NGN refe TS 183			
TSS refer	enc	e:		SIP-ISE	N-	ISDN/Sup	plem	entary_ser	vic	es/CFNR					
Configura	tion	1:		The use Configu			ork I	N2 and is p	ro۱	vided with (CFN	R . User I	3 h	as a point-to-mul	ltipoint
Selection	crit	eria:		CFNR c	pti		nedia	work ate release d user busy		notificatio	n				
Test purp	ose	:						ased corre						sful . termined user bu	ısy.
ISDN Para values:	ame	eter		BC = PI	ΧIT	-									
		er valu	es:	PIXIT fo Case a) Case b)	or s no Su Su (PI (PI	upported he 100 relupported: 1 pported: 1 XIT)	nead			dition					
Comment	s:							T		T =					
ISDN 1		ISDN	2	MGC	F 	I-CSC	F	S-CSCF		P-CSC		UE-A		UE-C	
	╁						+	INVITE	+	INVITE	-				
			+	SETUP	+	INVITE	1	IIIVIIL	+		-				
				ALERTING	→	180	→	180	→	180	→	180			
			+	REL					<u> </u>						
	+		→	RLC			-		+		-				
+	SE	TUP	1				-		╫		+				
→		L # 17							L						
→	RL	.C			→	486	→	486		486		486			-
					+	ACK	+	ACK	+	ASCK	+	ACK			

SII_XXS	SSC	FNR	14			ON reference I 300 207-1						NGN refe TS 183			
				cla		ses 6.1, 9.2							•	. [. •]	
TSS refer	enc	e:				SDN/Suppl	_		vic	es/CFNR					
Configura	tion	:									FΝ	R. User B	ha	as a point-to	-multipoint
				Configu	rati	on.									
Selection	crite	eria:				ding by the									
										elease, no r	noti	fication			
						etwork dete									
Test purp	ose:									y if CFNR w					
100110							e c	all is forwa	de	ed to user C	wh	o is netw	ork	k determined	d user busy.
ISDN Par	ame	eter		BC = PI	ΧΠ										
values:				D: 1 ()				·· DIVIE	_						
SIP Parar	mete	er vali	ues:	Diai strii	ng	parameters	op	tions=PIXII							
				DIVIT fo	vr c	upported he	204	or:							
						100 rel	au	CI.							
						pported: 10	ეე r	el							
				,		pported: 10			on	dition					
				a = line	(PI	XIT)									
				b = line	PI	XIT)									
				m = line	(P	IXIT)									
Comment	ts:														
ISDN 1	I	SDN	2	MGCF		I-CSCF		S-CSCF		P-CSCF				UI	E-C
 									+	INVITE	+	INVITE	_		
							+	INVITE	È	III III III III III III III III III II					
	-							100	Ļ	100	_	400			
	-		7 /	ALEKTING	7	180	7	180	7	180	7	180			
				REL	Ļ		Ļ		Ļ		Ļ				
	+		7	RLC	7	181	7	181	7	181	7	181	+		
											L				
	-												-		
			← ; → //	b = line m = line MGCF SETUP ALERTING	(PI (P	XIT)	÷	S-CSCF INVITE 180 181 486 ACK	←	P-CSCF INVITE 180 181 486 ASCK	÷	UE-A INVITE 180 181 486 ACK		UI	≣-C

SII_	XX	SSCFNR	15			DN referen N 300 207-1						NGN referen					
				С		ses 6.1, 9.2							• •				
TSS re	efere	ence:				-ISDN/Supp	_		rvi	ces/CFNR							
Config	urat	tion:									1TC	NR . User B l	has a point	-to-multipoint			
				Config													
Selecti	ion	criteria:				rding by the	e n	etwork									
						ion A, late			tific	cation							
						user determ											
Test p	urpo	ose:								lv if CFNR v	vas	s not succes	ssful.				
1 3 3 1												ho is user de		user busv.			
						ntinues to a								,			
ISDN F	ara	ameter va	alues							J • • • • •							
		neter valu				parameter	s o	ptions=PIX	ΙΤ								
				2.0 01		paramete.		p									
				PIXIT for supported header:													
						o 100 rel											
						upported: 1	00	rel									
						upported: 1			co	ndition							
					-, -												
				a = lin	e (F	(TIXI											
				b = lin													
				m = lin													
Comm	ents	S:			,	,											
ISDN	1	ISDN	2	MGCF	=	I-CSCF		S-CSCF		P-CSCF		UE-A		UE-C			
									Ļ		+	INVITE					
-							+	INVITE	+	INVITE	<u> </u>						
			+	SETUP	+	INVITE	Ì	INVITE	1		<u> </u>						
			→	ALERTING	→	180	→ ,	180		180		180					
-	+	SETUP			7	181	→	181	7	181	→	181					
	→	REL # 17			L		L		L								
	→	RLC		CONNECT		202 014		202 014	C	200 014	L	200 014					
			→	CONNECT	→	200 OK ACK	<u>→</u>	200 OK ASCK		200 OK ACK		200 OK ACK					
	1		+	DISC	÷	BYE	+	BYE		BYE		BYE					
			→	REL	→	200 OK BYE	→	200 OK BYE	→	200 OK BYE	→	200 OK BYE					
			+	RLC													

SII_XXS	SCFNR	16			DN referen						NGN refere					
			_		N 300 207-1 ses 6.1, 9.2						TS 183 00	4 [4	15]			
TSS refere	uce.				-ISDN/Sup	_		ervi	ces/CFNR							
Configuration										CFI	NR. User B	has	a point-t	o-multipoint		
Comigaration	J		Config			•		ρ	mada man	· .		iuo	a point t	.o manipoint		
Selection c	riteria:				rding by the	e n	etwork									
								as	e, no notific	atic	n					
					network de											
Test purpos	se:		To ver	ify t	hat a call is	re	leased corr	ect	ly if CFNR	was	not succes	sful				
			User A	\ ca	lls user B, t	the	call is forw	ard	led to user	C w	ho is netwo	rk (determine	ed user		
			busy.	Use	r B continu	es	to alert to t	he '	forwarding (use	r.					
ISDN Parar	neter va	lues	: BC = F	PIXI	T											
SIP Parame	eter valu	es:	Dial st	ring	parameter	s o	ptions=PIX	ΙT								
					supported h	nea	der:									
					o 100 rel											
					supported: '											
			Case	c) S	upported: 1	100	rel and pre	co	ndition							
			a = lin													
			b = lin													
			m = lir	ie (PIXII)											
Comments:			N400		1.0005		0.000	_	D 000F		I 115 A	1		IF O		
ISDN 1	ISDN	7	MGCI	_	I-CSCF		S-CSCF	_	P-CSCF		UE-A	_		JE-C		
								+	INVITE		INVITE					
		+	SETUP	+	INVITE	+	INVITE					1				
		→	ALERTING		180	→	180	→	180	→	180	\dashv				
			00111565	Ļ	222 214		222 014	Ļ	222 214	Ļ	222 014					
 		→	CONNECT	→	200 OK ACK	→	200 OK ASCK		200 OK ACK	<u>→</u>	200 OK ACK	+				
		+	DISC	+	BYE	+	BYE	+	BYE	+	BYE					
		→	REL RLC	→	200 OK BYE	→	200 OK BYE	→	200 OK BYE	→	200 OK BYE	[
		_	KLU	1			1	1	l							

SII_XX	SSC	CFNR 1	7	E cla	EN :	N reference 300 207-1 es 6.1, 9.2.2	[i.5] 2, 9	l, .2.5			I	NGN referenc TS 183 004				
TSS refe	rend	ce:				SDN/Supple										
Configura	atior	n:				s in networ it-to-point C			rovid	ed with C	FNF	R supported, p	partial rerouting. User			
Selection	crit	teria:		Call forw	ard	ing by the r	netv	vork								
						orted, partia twork deter					diate	e release)				
Test purp	ose	e:		To verify	tha	t a call is re	elea	sed corre	ctly if	CFNR w		not successful	determined user busy.			
ISDN Pa	ram	otor		BC = PIX		user D, tile	, ca	ii is ioiwai	ueu	io user C	VVIIC) IS HELWOIK	determined daer busy.			
values:	am	Otol		DO - 1 17												
	met	ter value	s:	Dial strin	Dial string parameters options=PIXIT											
				PIXIT for supported header: Case a) no 100 rel												
						ported: 100	ر مr (J								
						ported: 100			ondit	ion						
				a = line (PIX	IT)										
				b = line (
				m = line (
Commen	ts:					•										
ISDN ²	1	ISDN	2	MGCF	:	I-CSCF	•	S-CS0	F	P-CS	CF	UE-A	UE-C			
									+	INVITE	+	INVITE				
							+	INVITE	<u> </u>	IIIVIIL						
				SETUP	+	INVITE										
				ALERT FAC			-		_		_					
				REL												
	→ RLC → INVITE → INVITE → INVITE															
					+	486	+	486	+	486						
					→	ACK	→	ACK	→	ACK	1					
-					→	486 ACK	→	486 ACK	→ +	486 ACK	→	486 ACK				
					_	AUN	_	AUN .	_	AUN	_	AUN	1			

SII_X	XS	SCFNR	18		ISI	ON referen	ce i	to:				NGN referer	nce to:					
					ΕN	300 207-1	[i.:	5],				TS 183 004	4 [45]					
				cl	aus	es 6.1, 9.2	.Ž,	9.2.5										
TSS re	fere	ence:		SIP-ISI	DN-	ISDN/Supp	len	nentary_se	rvic	es/CFNR								
Config	urat	ion:		The use	er E	is in netwo	rk	N2 and is p	oro	vided with C	CFN	IR supported	l, partial rer	outing. User				
				B has a	ιро	int-to-point	Со	nfiguration						-				
Selecti	on (criteria:				ding by the												
						tial reroutin				release)								
						ser determ												
Test pu	urpo	ose:										not success						
) wł	no is user de	termined us	ser busy.				
				User B	cor	ntinues to a	lert	to the forw	arc	ding user.								
ISDN F	Para	ameter		BC = P	IXI	Γ												
values																		
SIP Pa	ıran	neter va	lue	s: Dial str	al string parameters options=PIXIT													
					PIXIT for supported header:													
					,	100 rel												
						apported: 10												
				Case c) Sı	ipported: 10)O I	rel and pre	cor	ndition								
				a = line														
				b = line	`	,												
_				m = line) (P	IXIT)												
Comm						1				1		1						
ISDN	1	ISDN	2	MGCF		I-CSCF		S-CSCF	=	P-CSCF		UE-A	Į (JE-C				
									+	INVITE	+	INVITE	+					
							+	INVITE	È	IIIVIIE								
			<u>+</u> →	SETUP ALERTING	←	INVITE 180	→	180	_	180	→	180						
				FAC	7	181	7	181		181	7	181						
	(SETUP																
-	→	REL # 17 RLC																
			→	CONNECT	→	200 OK	→	200 OK		200 OK		200 OK						
			+	DISC	4	ACK	4	ASCK BYE		ACK BYE	4	ACK BYE						
-			<u>₹</u>	REL	→	BYE 200 OK BYE	→	200 OK BYE		200 OK BYE	7	200 OK BYE	+					
				RLC				.,		.,								

6.2.2.8 Call Deflection

6.2.2.8.1 CD - SIS

SIS_XX				EN claus	30 es (eference to 0 207-1 [i.5 6.1, 9.2.2, 9],).2.				٨	IGN refere TS 183 00			
TSS refe	rend	ce:				pplementa									
Configura	atior	า:	Call Domultipo	eflection oint Con	n im Ifigu	mediate re uration.	spc	onse (optior	n B	The user B , immediate	rel	ease). Use	er B	has a poi	nt-to-
Selection	n crit	eria:	User E	has ac	tiva	ited the, Ca	all D	Deflection in	nm	ediate respo	ons	e (option E	3, in	nmediate i	release)
Test purp	pose	: :	the ac	ive call	sta		e v	oice transfe		is deflected n the media					
SIP Para values:		er	PIXIT Case a Case b Case of a = line	for supp a) no 10 b) Supp	orte orte orte	eters optioned header: el ed: 100 rel ed: 100 rel			on						
Commer		ISDI		MGC	_	I-CSCF		S-CSCF	_	P-CSCF		UE-A		1	IE-C
ISDIN	_	וטטו	N I	IVIGC	Г	1-0307	· -	3-0301	_	F-CSCF		INVITE)E-C
							+	INVITE	+	INVITE	È	INVITE			
			SETUP	←	←	INVITE 181	→	181	_	181	_	181			
			REL	7	7	INVITE	7	INVITE		INVITE	7	101	→	INVITE	
			RLC	`	1	III VIII E	Ť	II TOTAL	Ť	1144112			+	100 Trying	
					+	180	+	180		180		180	+	180	
					→	180	→	180		180	→	180			
	\vdash				+	200 OK	Ψ,	200 OK		200 OK			+	200 OK	
-	\vdash				→	ACK 200 OK	→	ACK 200 OK		ACK 200 OK	<u> </u>	200 OK	→	ACK	
-			1		7	ACK	7	ACK		ACK		ACK	1	+	
					÷	BYE	÷	BYE		BYE	È		+	BYE	
	t t				→	200 OK BYE	→	200 OK BYE	→	200 OK BYE			→	200 OK BYE	
					→	BYE	→	BYE		BYE		BYE			
			į .		+	200 OK BYE	+	200 OK BYE	+	200 OK BYE	+	200 OK BYE			

		SSCD		l cla	EN use	N reference 300 207-1 [es 6.1, 9.2.2	i.5] 2, 9], .2.5				GN refere TS 183 00				
TSS re						IP/Supplem										
Config	urati	ion:													is provided	
										(option B, i						
										ith diverted						
										s,). User B h						
Selecti	on c	riteria:		Jser B h elease)	as	activated th	e C	Call Deflec	tion	immediate i	res	ponse (opt	ion	B, immed	iate	
Test pu	urpo	se:	E	Ensure t	hat	when user	A c	alls user l	B, th	e call is defl	lect	ed immedi	iate	to user C	, user A is	
·	•									the diverted						
			á	allowed -	- no	TIR) and u	sei	r C is infor	med	of the forw	ard	ing numbe	er (u	iser B has		
			ŗ	resenta	tior	allowed).										
			Ė	Ensure t	hat	in the active	ес	all state (N	N10)	the voice tr	ans	fer on the	me	dia and B	-channels is	
			F	erforme	ed c	orrectly (e.g	g. te	esting Qo	S pa	rameters).						
SIP Pa	ıram	eter va	ılues: [: Dial string parameters options=PIXIT												
			F	PIXIT for supported header:												
				Case a)			auc	,ı.								
						ported: 100) re	7								
						ported: 100			cond	ition						
			`	Juo0 0)	Oup	portou. Tot	, , ,	i and proc	, o i i a	111011						
				a = line (РΙΧ	IT)										
				= line (
				n = line		•										
Comm	onte			11 – 11110	(1 1/	(11)										
ISDN		ISD	NI 1	MGC	_	I-CSCF		S-CSC	,E	P-CSCF		UE-A			IE-C	
IODIN	_	100		IVIGO	<u>.</u>	1-0301		3-030	"	1 -0301		INVITE	1		L-C	
									+	INVITE						
			SETUP	+	+	INVITE	+	INVITE								
			FAC	→	→	181	→	181	→	181	→	181				
			REL	+	→	INVITE	→	INVITE	→	INVITE			→	INVITE		
			RLC	→	_	400	+	100		400	+	400	+	100 Trying		
			 		←	180 180	→	180 180	→ +	180 180	→	180 180	_	180		
					+	200 OK	+	200 OK	+	200 OK	Ē		+	200 OK		
					→	ACK	→	ACK		ACK		000 014	→	ACK		
-					→	200 OK ACK	+	200 OK ACK		200 OK ACK		200 OK ACK				
					+	BYE	+	BYE		BYE	È	, tort	+	BYE		
					→	200 OK BYE	→	200 OK BYE		200 OK BYE	L		→	200 OK BYE		
					→	BYE 200 OK BYE	+	BYE 200 OK BYE		BYE 200 OK BYE		BYE 200 OK BYE	<u> </u>			
				1	_	ZUU UN BTE	_	ZUU UN BYE		ZUU UN BIE	7	ZUU UN BYE	<u> </u>	1		

		SCD 0				EN laus	ON referen I 300 207- ses 6.1, 9.2	l [i. 2.2,	5], 9.2.5				NGN refe TS 183					
TSS ref									ntary_servi									
Configu	ratio	n:									ork N1. The e response							
											erted to nur							
											User B has							
Selection	n cr	iteria:	(Cal	II De	flec	tion immed	iate	response	(op	tion B, imm	edi	ate releas	se)				
Test pu											he call is de				te to user 0	C, user A is		
	•										ed of the div							
											er C is not ir							
									not allowed						3			
) the voice	trar	sfer on th	ne m	nedia and F	3-channels		
											parameter							
SIP Par	ame	eter							tions=PIXI		1	- / -						
values:	uc	,,,,,		٠.۵		9 1	ourannoion o	٦٢										
valuos.			l,	РΙΧ	IXIT for supported header:													
			PIXIT for supported header: Case a) no 100 rel															
							pported: 10	∩n r	ام									
									el and pred	on	dition							
				oa.	30 0	, ou	pported. To	,0 1	ei and prec	,011	aition							
				٠ _	line	/DI	VIT\											
					line													
							XIT)											
C = === == =				11 =	= 11116	; (F	ΛΠ)											
Comme		100	N 1 4		140	<u> </u>	1.0005		0.000		D 000F					- 0		
ISDN	2	ISD	N 1		MG	CF	I-CSCF		S-CSCF	-	P-CSCF		UE-A	1	U	E-C		
										+	INVITE		INVITE					
								+	INVITE									
			SETU	P	↓	+	INVITE 181	→	181	→	181	→	181					
			REL			7	INVITE	→	INVITE		INVITE	7	101	→	INVITE			
			RLC		→									+	100 Trying			
						+	180	+	180		180		180	+	180			
			1			→	180 200 OK	+	180 200 OK		180 200 OK	→	180	+	200 OK			
						→	ACK	→	ACK	→	ACK			→	ACK			
						→	200 OK	→	200 OK		200 OK		200 OK					
						+	ACK BYE	+	ACK BYE		ACK BYE	+	ACK	+	BYE			
						`	200 OK BYE	→			200 OK BYE			→	200 OK BYE			
						→	BYE	→	BYE	→	BYE		BYE					
						+	200 OK BYE	+	200 OK BYE	+	200 OK BYE	+	200 OK BYE					

TSS refere	SIS_XXSSCD 04				ISDN reference to: NGN reference to: EN 300 207-1 [i.5], TS 183 004 [45] clauses 6.1, 9.2.2, 9.2.5												
	en	ce:		SIP-ISDN-SIP/Supplementary_services/CD													
Configurat	n:		The user A and the user C and D are in network N1. The user B is in network N2 and is														
				provided with Call Deflection immediate response (option B, immediate release)													
				User C is provided with CD immediate response. "calling user is notified of call diversion													
				with diverted to number" = No, "diverting number is released to the diverted-to user" = No, "served user receives notification that the call has been forwarded" = no). User B													
				has a point-to-multipoint Configuration.													
Selection criteria:				User B has activated the Call Deflection immediate response (option B, immediate													
				release)													
Test purpose:				Ensure that when user A calls user B, the call is deflected immediate to user C, user A													
rest purpose.				is notified of call diversion and not informed of the diverted-to number (user C has													
				presentation allowed - no TIR) and user C is not informed of the forwarding number													
					(user B has presentation not allowed).												
				ie norf	Ensure that in the active call state (N10) the voice transfer on the media and B-channels												
ISDN Parameter					is performed correctly (e.g. testing QoS parameters).												
values:	etei		BC = I	BC = PIXIT													
SIP Paran	torvo	duco:	Dial atring parameters entians—DIVIT														
SIF Faraii	lei va	ilues.	Dial string parameters options=PIXIT														
			PIXIT for supported header:														
			Case a) no 100 rel														
			Case a) no 100 rel														
				Case c) Supported: 100 rel and precondition													
				Case c) Supported. 100 fet and precondition													
				a – lin	a = line (PIXIT)												
					b = line (PIXIT) m = line (PIXIT)												
Commont	٠.			111 = 111	ie (PIXII)											
Comments ISDN 2	ICL	N 1	MGCF I-CSCF				S CSC	S-CSCF P-CSCF				UE-A UE-C					
ISDIN Z	-	IOL	ו אול	IVIGO	<u>'</u>	1-0301	1	3-0301		F-0301		INVITE		00			
									+	INVITE							
			SETUP	_	+	INVITE	+	INVITE	<u> </u>								
			FAC	→	_	INVITE			1								
			REL	+	→	INVITE	→	INVITE	→	INVITE			→	INVITE			
			RLC	→	+	180	+	180	_	180	+	180	+	100 Trying 180			
	\dashv				→	180	→	180		180	→ →		_				
					÷	200 OK	+	200 OK	+	200 OK			←	200 OK			
 	+				→	ACK 200 OK	→	ACK 200 OK		ACK 200 OK	→	200 OK	→	ACK			
	╛				+	ACK	′	ACK	+	ACK	+		L				
	1				+	BYE	+	BYE		BYE			+	BYE			
 	\dashv				→	200 OK BYE BYE	→	200 OK BYE BYE		200 OK BYE BYE	→	BYE	→	200 OK BYE			
					÷	200 OK BYE	÷	200 OK BYE		200 OK BYE		200 OK BYE	L				

SIS_XXSSCD 05	E	N 3	N reference 300 207-1 [i.5]	,	NGN reference to: TS 183 004 [45]							
T00 (s 6.1, 9.2.2	•		,	00						
TSS reference:					tary_service								
Configuration:							ded with Cal					ponse	
	(option B	im	mediate re	lea	se). User B	ha	s a point-to	-mı	ultipoint C	con	figuration.		
Selection criteria:	User B ha	as a	ctivated th	e C	all Deflection	on	immediate r	esp	onse (op	otio	n B, immed	iate	
Test purpose:	/	tha	t a call is re	دماد	sed correct	Hv	if Call Defle	ctic	n immed	iate	reenonce	(ontion B	
rest purpose.					t successfu		ii Cali Delle	Clic	ii iiiiiiica	iaic	response	(option b,	
			,				to	مطار	io 1100# 6	1.4	orminad uac	or buou	
OID D						iec	to user C w	VIIO	is user c	iett	eminea use	er busy.	
SIP Parameter values:	Diai string	al string parameters options=PIXIT											
		IXIT for supported header:											
	Case a) r	1o	00 rel										
	Case b) S	gue	ported: 100) re	I								
					l and preco	nd	ition						
	, ,	- 1											
	a = line (F	PΙΧ	IT)										
	b = line (f												
0	m = line (ΓIΛ	11)										
Comments:	1 1100		1.0005				5.000						
ISDN 1 ISDN 2	MGC	-	I-CSCF		S-CSCF		P-CSCF		UE-A		UI	E-C	
						_	INVITE	+	INVITE				
				+	INVITE	_	INVIIL						
SETUR			INVITE										
FAC	→		181	→	181		181	→	181	Ļ			
REL RLC	+		INVITE 486	→	INVITE 486		INVITE 486				INVITE 486		
RLC	7		ACK	→	ACK		ACK	+					
			486	→	486		486	→	486	Ť	7.010		
		+	ACK	+	ACK		ACK		ACK				

SIS_	_XXS	SCD	06	C	Εľ	DN referen N 300 207- ses 6.1, 9.2	1 [i.	.5],				NGN refere TS 183 00		:	
TSS refe	erenc	e:		SIP-ISI	NC	SIP/Supple	me	ntary_servi	ces	s/CD					
Configu	ratior	1:		User B	has	a point-to-	mu	Itipoint Con	fig	uration.					
Selectio	n crit	eria:			User B has activated the, Call Deflection immediate response (option B, immediate release)										
Test pur	pose	:		immedi User A											
SIP Para	amet	er val	ues:	busy. Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)											
Comme	nts:					,									
ISDN	1	ISI	ON 2	MGC	F	I-CSCF		S-CSCF		P-CSCF		UE-A		UE	-C
					-				_	INVITE	+	INVITE	1		
					1		+	INVITE	_	INVITE					
			SETUP	+		INVITE									
			FAC	→	→	181	→	181		181	→	181			
 			REL RLC	←	→	INVITE 486	→	INVITE 486		INVITE 486	-		1		
			I.LO	–	→	ACK	`	ACK	₹	ACK					
					→	486	→	486	→	486		486			
					+	ACK	+	ACK	+	ACK	+	ACK			

6.2.2.8.2 CD - SII

SI	I_XXSSCE	01				IS	DN referen	се	to:	NGN reference to: TS 183 004 [45]						
						E١	N 300 207-	1 [i.	5],				TS 183 004	l [45]		
					C	aus	ses 6.1, 9.2	2.2,	9.2.5							
TSS	reference:			SIP-I	SE	N-I	SDN/Supp	lem	entary_ser	vic	es/CD					
Conf	iguration:			The ι	ıse	r B	is provided	d ha	s activated	th	e CALL DE	FLE	CTION, opti	on B, imm	ediate	
				releas	se	. Us	er B has a	poi	nt-to-multip	oir	nt Configura	tior	۱.			
Selec	ction criteri	ia:		User	В	has	activated t	the	CALL DEFI	LE(CTION, opt	ion	B, immediate	e release		
Test	purpose:												cted immedia		se to user C.	
													sfer on the n			
											parameter					
SIP F	Parameter								tions=PIXIT			- /				
value	es:															
				PIXIT	IXIT for supported header:											
					ase a) no 100 rel											
					Case b) Supported: 100 rel											
									el and prec	on	dition					
				Ouco	٠,	-	pportou. It		or arra proo	٠	ailioi i					
				a = lir	م د	(PI	XIT)									
				b = lir		•	,									
				m = li		`	,									
Com	ments:			III — II	1110	; (I	1/11)									
				N 4 C	-	_	1.000	_	0.000		D CCC		I 115 A	1 .	IF C	
ISD	N 2 15	DN	1 1	MC	ار	<u> </u>	I-CSCF	-	S-CSCF		P-CSCF		UE-A		JE-C	
										+	INVITE	_	IIIVIIE	+		
								+	INVITE							
		<u> </u>	SET			←	INVITE 181	→	181	_	181	_	181			
	SETUP	+	REL		→	7	101	7	101	7	101	7	101			
	ALERTING	→	RLC			→	180	→	180		180		180			
	CONNECT	→				→	200 OK	→	200 OK		200 OK		200 OK			
		Ļ	<u> </u>			→	ACK	→	ACK		ACK		ACK	<u> </u>	<u> </u>	
	DISC	+	<u> </u>			+	BYE	+	BYE		BYE		BYE	-		
ļ	REL RLC	→	<u> </u>		!	→	200 OK BYE	→	200 OK BYE	7	200 OK BYE	→	200 OK BYE			
	KLC	7														

SII_XX	KSSCD	02		ISDN reference to: NGN reference to:																
						E	ΞN	300	207-1 [i.5	51,					Т	S 183 004 [4	1 5]			
						cla	use	es 6	5.1, 9.2. 2 , 9	9.2.	5					_	_			
TSS refe	rence:			SII	P-I	SDI	V-1	1D2	V/Supplem	ent	ary_se	rvices/	C	:D						
Configura	ation:														ion	B, immediate	e rel	ease	"calli	ng user
																"diverting nu				
Selection	criteria	a:			the diverted-to user" = Yes. User B has a point-to-multipoint Configuration. User B has activated the CD immediate response, option B, immediate release															
Test purp																immediate to			user	A is
					notified of call diversion and informed of the diverted-to number (user C has presentation															
																ing number (
																N10) the voi				the
					edia and B-channels is performed correctly (e.g. testing QoS parameters).															
SIP Para	meter				al string parameters options=PIXIT															
values:							0 1													
				PI)	IXIT for supported header:															
					Case a) no 100 rel															
									rted: 100 r	el										
									rted: 100 r		nd pre	conditi	OI	n						
						,	•	•			•									
				a =	= lir	ne (PI	(IT))											
						ne (
						ne Ì														
Commen	ts:								•											
ISDN	2	ISE	N	1		M	GC	F	I-CSCI	F	S-0	CSCF		P-CSCF	:	UE-A			UE-	С
															+	INVITE				
					← INVITE															
				SET				+	INVITE	Ì	IIVVIIE									
	OFTUD			FAC			→	→	181	→	181		>	181	→	181	-			
	SETUP ALERTIN			REL				→	180	→	180	-	>	180	→	180				
	CONNEC		→				Ė	→	200 OK	→	200 OK		→	200 OK		200 OK				
	DICC		_				-	→	ACK BYE	→	ACK BYE			ACK	→	ACK				
	DISC		← →					7	200 OK BYE	→	200 OK			BYE 200 OK BYE	←	BYE 200 OK BYE	-			
	RLC		É					Ť		Ť	200 011		1		Ť		-			

SII_X)				ISDN reference to: NGN reference to: EN 300 207-1 [i.5], TS 183 004 [45] Clauses 6.1, 9.2.2, 9.2.5 SIP-ISDN-ISDN/Supplementary_services/CD														
TSS refere																		
Configurat	ion:			immedia "divertin Configu	ate g r rat	rele num ion.	ease "callin ber is relea	g u ase	ser is d to th	notific e dive	ed erte	ECTION imr of call diver ed-to user" :	sio = N	n with diver lo. User B h	ted as	to num a point-	ber' ·to-n	
Selection of	criter	ia:										sponse, op						
Test purpo				user A is presenta (user B Ensure perform	Ensure that when user A calls user B, the call is deflected immediate response to user C, user A is notified of call diversion and not informed of the diverted-to number (user C has presentation not allowed - COLR) and user C is not informed of the forwarding number (user B has presentation not allowed). Ensure that in the active call state (N10) the voice transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters). Dial string parameters options=PIXIT													
SIP Param	neter	value	S:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)														
Comments	S:																	
ISDN :	2	ISI	NC	1 MC	ЭC	F	I-CSCF		S-0	CSCF		P-CSCF		UE-A			UE-	·C
					┢			1			+	INVITE	+	IIA A I I L				
								+	INVITE									
				SETUP			INVITE	_	404		_	404	_	404			_	
	SETU	5	+	FAC REL	→	→	181	→	181		7	181	7	181				
	ALER		→	RLC	→	→	180	→	180		→	180	→	180				
	CONN		→		Ť		200 OK	<u>→</u>	200 OK			200 OK	<u>→</u>	200 OK				
						→	ACK	→	ACK		→	ACK	→	ACK				
	DISC		Ψ,		$oxed{oxed}$		BYE	+	BYE			BYE		BYE]			
	REL		^		<u> </u>	→	200 OK BYE	→	200 OK	BYE	→	200 OK BYE	→	200 OK BYE			_	
	RLC		+		7 200 OK BTE 7 200 OK BTE 9 200 OK BTE 9 200 OK BTE													

SII_X	XSSC	CD 04		ISDN reference to:												
TSS refe	rence):														
Configura	ation:			imme	ediat erting	e r	ele ım	ase "callin	g u	ser is notif	ied	of call dive	rsio	diate response n with diverted o. User B has	to numbe	er" = No,
Selection	crite	ria:		User relea		as	ac	tivated the	CA	LL DEFLE	СТ	ION immed	liate	response, opt	tion B, im	mediate
Test purp	ose:			call o	Ensure that when user A calls user B, the call is forwarded to user C, user A is notified of call diversion and not informed of the diverted-to number (user C has presentation allowed - no COLR) and user C is not informed of the forwarding number (user B has presentation not allowed). Dial string parameters options=PIXIT											
SIP Para	mete	r valu	es:	PIXI [*] Case Case	T for e a) r e b) \$ e c) \$ ine (l	su no Sup Sup PIX	pp 10 opc opc (IT	orted head 0 rel orted: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 ported: 100 po	der: rel		nditi	on				
Commen	its:							/								
ISDN		IS	DN	1	MG	CF	:	I-CSCF	=	S-CSC	F	P-CSCI		UE-A	U	E-C
											+	INVITE	T-			
									+	INVITE						
				SETUF		+ 4	(INVITE	_				_			
	SETUF	<u> </u>	+	FAC REL		} ←			1	+		-				
-	ALERT		→	RLC			→	180	→	180	→	180	→	180		+
	CONN		→				-	200 OK	→	200 OK	→	200 OK	→	200 OK		
)	ACK	→	ACK	→	ACK	→	ACK		
	DISC		+				(BYE	+	BYE		BYE	+	BYE		
	REL		→			-)	200 OK BYE	→	200 OK BYE	→	200 OK BYE	→	200 OK BYE		
	RLC		+							1					l	

SII_	XXSSCD	05				N reference 300 207-1 [·	NGN reference to: TS 183 004 [45]						
			С	laι	ıse	s 6.1, 9.2.2	, 9	.2.5							
TSS refe	rence:		SIP-IS	ID	N-IS	SDN/Supple	eme	entary_serv	ice	s/CD					
Configura	ation:		the CA to-mul	\LL tip	_ DI oint	EFLECTION Configurat	N d	luring alertir ı.	ng ,	option B, ir	nm	ediate rel	ea	ı. User B ha se. User B h	nas a point-
Selection	criteria:		User E releas		as a	activated th	e C	CALL DEFL	EC	TION during	g a	lerting , o _l	otic	on B, immed	liate
Test purp	ose:														successful. er busy.
SIP Para		ues:	User A calls user B, the call is forwarded to user C who is user determined user busy. Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)												
Commen		001	4 146			1.0005		1 0 0005		B 000E		1 A			- 0
ISDN	2 1	<u>SDN</u>	1 MC	MGCF I-CSCF S-CSCF P-CSCF UE-A UE-C											
		1						<u> </u>	+	INVITE	È	III VIIL			
							+	INVITE							
		1		4 +	+	INVITE	<u> </u>	ļ							
-	SETUP	+	FAC REL	7	_	181	→	181	7	181	7	181			
	RLC #17	→	RLC	→	<u> </u>	101	Ť	101	ť	101	ť	101			
		Ė		Ē		486		486		486		486			
				← ACK ← ACK ← ACK											

SII_XXSSCD 06		cl.	EN	ON reference I 300 207-1 Ses 6.1, 9.2	[i.:	5],				ı	NGN refero TS 183 0		
TSS reference:	SIP-			ISDN/Supp	_		V SEN	vic	es/CD				
Configuration:	The	us	er E	3 is in netwo	ork	N2 an	d is p	ro	vided with the Jser B has				
Selection criteria:		r B	has						CTION duri				
Test purpose:		r A							y if CD perf ed to user C				t successful. ned user
SIP Parameter values													
Comments:				•					Ī				
ISDN 2 ISDN ²	M									UE-C			
		-			-			_	INVITE	+	INVITE		
		\vdash			+	INVITE		_	II VII L	+	+ +		
	SETUP	+		INVITE									
	FAC		→	181	→	181		→	181	→	181		
	REL RLC	+	→	486	→	486		→	486	→	486		
	0	Ť		ACK		ACK			ACK		ACK		

6.2.2.9 Three Party service 3PTY

SII_xxSS3PTY01	ISDN reference to: EN 300 188-1 [i.6], clause 9.2	NGN reference to: ES 283 027 [48]									
TSS reference:	SIP-ISDN-ISDN/Supplementary_service	es/3PTY									
Selection criteria:	·	The user B is in network N1 and is provided with 3PTY. The user A is in network N2 and user C is in the network N1 User B has a point-to-multipoint Configuration.									
Test purpose:	Ensure that user B can establish a three-way conversation call with user A and user C and release the Active-Idle connection (B-C). The call clearing procedure is performed from user A after the Active-Held call has been retrieved.										
ISDN Parameter	BC =PIXIT										
values:											
SIP Parameter values:	Dial string parameters options=PIXIT										
	PIXIT for supported header:										
	Case a) no 100 rel										
	Case b) Supported: 100 rel	Per Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Co									
	Case c) Supported: 100 rel and precond	dition									
	a = line (PIXIT)										
	b = line (PIXIT)										
	m = line (PIXIT)										
Comments:											

SII_xxSS3PTY02	ISDN reference to:	NGN reference to:										
	EN 300 188-1 [i.6],	ES 283 027 [48]										
	clause 9.2, figure A.2											
TSS reference:	ISDN-ISDN/Supplementary_service:	s/3PTY/										
Selection criteria:		The user B is in network N1 and is provided with 3PTY. The user A is in network N2 and user C is in the network N1 User B has a point-to-multipoint Configuration.										
Test purpose:	Ensure that user B can establish a three-way conversation call with user A and user C and release the Active-Held connection (B-C). The call clearing procedure is performed from user B.											
ISDN Parameter	BC = PIXIT											
values:												
SIP Parameter values:	Dial string parameters options=PIXIT											
	PIXIT for supported header:											
	Case a) no 100 rel											
	Case b) Supported: 100 rel											
	Case c) Supported: 100 rel and pred	condition										
	a = line (PIXIT)											
	b = line (PIXIT)											
	m = line (PIXIT)											
Comments:												

SII_xxSS3PTY03	ISDN reference to:	NGN reference to:									
	EN 300 188-1 [i.6], clause 9.2	ES 283 027 [48]									
TSS reference:	SIP-ISDN-ISDN/Supplementary_servi	ces/3PTY									
Selection criteria:	The user B is in network N1 and is prouser C is in the network N1 User B ha	ovided with 3PTY. The user A is in network N2 and s a point-to-multipoint Configuration.									
Test purpose:	Insure that user B can establish a three-way conversation call with user A and user C and release the Active-Idle connection (A-B). The call clearing procedure is performed from user B.										
ISDN Parameter values:	BC =PIXIT										
SIP Parameter values:	PIXIT for supported header:										
	Case a) no 100 rel										
	Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition										
	a = line (PIXIT)										
	b = line (PIXIT)										
	m = line (PIXIT)										
Comments:											

SII_xxSS3PTY04	ISDN reference to:	NGN reference to:										
	EN 300 188-1 [i.6], clause 9.2	ES 283 027 [48]										
TSS reference:	SIP-ISDN-ISDN/Supplementary_servi	ces/3PTY										
Selection criteria:	The user B is in network N1 and is prouser C is in the network N1 User B ha	ovided with 3PTY. The user A is in network N2 and s a point-to-multipoint Configuration.										
Test purpose:	Ensure that user B can establish a thr and release the Active-Idle connection	Ensure that user B can establish a three-way conversation call with user A and user C and release the Active-Idle connection (A-B). The call clearing procedure is performed rom user C after the Active-Held call has been retrieved.										
ISDN Parameter values:	BC =PIXIT											
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and preco a = line (PIXIT)	ndition										
Comments:	b = line (PIXIT) m = line (PIXIT)											

SIS_xxSS3PTY05	ISDN reference to:	NGN reference to:						
	EN 300 188-1 [i.6], clause 9.2	ES 283 027 [48]						
TSS reference:	SIP-ISDN-ISDN/Supplementary_services/3PTY							
Selection criteria:	The user B is in network N1 and is pro	ovided with 3PTY. The user A and user C are in the						
	network N2. User B has a point-to-mu	Iltipoint Configuration.						
Test purpose:		ee-way conversation call with user A and user C						
		ion (B-C). The call clearing procedure is performed						
	from user A after the Active-Held call	has been retrieved.						
ISDN Parameter	BC =PIXIT							
values:								
SIP Parameter values:	Dial string parameters options=PIXIT							
	PIXIT for supported header:							
	Case a) no 100 rel							
	Case b) Supported: 100 rel							
	Case c) Supported: 100 rel and preco	ndition						
	II (DI)(IT)							
	a = line (PIXIT)							
	b = line (PIXIT)							
	m = line (PIXIT)							
Comments:								

SIS_xxSS3PTY06	ISDN reference to:	NGN reference to:					
	EN 300 188-1 [i.6],	ITU-T Q.1912.5 [51]					
	clause 9.2, figure A.2						
TSS reference:	ISDN-ISDN/Supplementary_service:	s/3PTY/211702					
Selection criteria:	The user B is in network N1 and is pnetwork N2. User B has a point-to-m	provided with 3PTY. The user A and user C are in the nultipoint Configuration.					
Test purpose:	Ensure that user B can establish a three-way conversation call with user A and user C and B release the Active-Held connection (B-C). The call clearing procedure is performed from user B.						
ISDN Parameter	BC = PIXIT						
values:							
SIP Parameter values:	Dial string parameters options=PIXI	Г					
	PIXIT for supported header:						
	Case a) no 100 rel						
	Case b) Supported: 100 rel						
	Case c) Supported: 100 rel and pred	condition					
	a = line (PIXIT)						
	b = line (PIXIT)						
	m = line (PIXIT)						
Comments:							

SIS_xxSS3PTY07	ISDN reference to:	NGN reference to:					
	EN 300 188-1 [i.6], clause 9.2	ITU-T Q.1912.5 [51]					
TSS reference:	SIP-ISDN-ISDN/Supplementary_servi	ces/3PTY					
Selection criteria:	The user B is in network N1 and is pronetwork N2. User B has a point-to-mu	ovided with 3PTY. The user A and user C are in the Itipoint Configuration.					
Test purpose:	Ensure that user B can establish a three-way conversation call with user A and user C and B release the Active-Idle connection (A-B). The call clearing procedure is performed from user B.						
ISDN Parameter values:	BC =PIXIT						
SIP Parameter values:	Dial string parameters options=PIXIT						
	PIXIT for supported header: Case a) no 100 rel						
	Case b) Supported: 100 rel						
	Case c) Supported: 100 rel and preco	ndition					
	a = line (PIXIT)						
	b = line (PIXIT)						
	m = line (PIXIT)						
Comments:	_						

SIS_xxSS3PTY08	ISDN reference to:	NGN reference to:				
	EN 300 188-1 [i.6], clause 9.2	ITU-T Q.1912.5 [51]				
TSS reference:	SIP-ISDN-ISDN/Supplementary_servi	ices/3PTY				
Selection criteria:	The user B is in network N1 and is pronetwork N2. User B has a point-to-mu	ovided with 3PTY. The user A and user C are in the litipoint Configuration.				
Test purpose:	Ensure that user B can establish a three-way conversation call with user A and user C and B release the Active-Idle connection (A-B). The call clearing procedure is performed from user C after the Active-Held call has been retrieved.					
ISDN Parameter values:	BC =PIXIT					
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and preco a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)	ndition				
Comments:						

6.2.2.10 TP

SI_XXSSTP01	ISDN reference to: EN 300 141-1 [i.7], clause 7			NGN reference to: Q.1912.5 [51], annex B.10				
	EN 300 196-1 [i.9],							
TSS reference:	SIP-ISDN/Supplementary_services/TP							
Selection criteria:						t-to-multipoint Configuration.		
Test purpose:	Ensure that the user B		e the su	uspend a	and re	esume procedure		
ISDN Parameter values:	SETUP = 3,1 kHz audio							
SIP Parameter values:	Dial string parameters of	•	XIT					
	PIXIT for supported hea	ader:						
	Case a) no 100 rel							
	Case b) Supported: 100							
	Case c) Supported: 100	rel and p	recondi	tion				
	a line (DIVIT)							
	a = line (PIXIT) b = line (PIXIT)							
	m = line (PIXIT)							
Comments:	111 - 11110 (1 17411)							
	SIP		SU	Т		ISDN		
	INVITE	→		-3	>	SETUP		
	180 Ringing	(€	_	ALERT		
	200 OK INVITE	(€	-	CONN		
	ACK	→						
	INVITE	(•		SUSPEND		
	200 OK INVITE	→		-	>	SUS_ACK		
	ACK	+						
	INVITE	←		•	_	RESUME		
	200 OK INVITE	→		-3	>	RES ACK		
	ACK	+				_		
	BYE	(•	_	DISC		
	200 OK BYE	→		-		REL		

SI_XXSSTP02	ISDN reference to:			NGN reference to:					
	EN 300 141-1 [i			Q.1912.5 [51], annex B.10					
	EN 300 196-1 [i.s								
TSS reference:	SIP-ISDN/Supplementary_services/TP								
Selection criteria:	User B has a point-to-	-multipoint Config	juration.						
Test purpose:				and resume procedure and that the					
	call can be released f	rom the calling us	ser during t	he call suspension.					
ISDN Parameter values:	SETUP = 3,1 kHz aud	dio;							
SIP Parameter values:	Dial string parameters	s options=PIXIT							
	PIXIT for supported h	eader:							
	Case a) no 100 rel								
	Case b) Supported: 1								
	Case c) Supported: 1	00 rel and precor	ndition						
	a = line (PIXIT)								
	b = line (PIXIT)								
	m = line (PIXIT)								
Comments:									
	SIP		SUT	ISDN					
	INVITE	→	-						
	180 Ringing	+	€						
	200 OK INVITE	+	€	CONN					
	ACK	→							
	INVITE (sendonly)	(•						
	200 OK INVITE	→	7	SUS_ACK					
	(reconly)								
	ACK	+							
	BYE	→							
	200 OK BYE	-							
	200 OK DIL	•							

SI_XXSSTP03	ISDN referen EN 300 141-1 [i.7] EN 300 196-1 [i.9],], clause clause 7	'.1	NGN reference to: Q.1912.5 [51], annex B.10					
TSS reference:		SIP-ISDN/Supplementary_services/TP							
Selection criteria:	User B has a point-to-m								
Test purpose:					unicast media streams if a SUS Ensure that the connection is				
	cleared after T2 was ex								
ISDN Parameter values:	SETUP = 3,1 kHz audio								
SIP Parameter values:	Dial string parameters of	ptions=P	IXIT						
	PIXIT for supported hea	ader:							
	Case a) no 100 rel								
	Case b) Supported: 100) rel							
	Case c) Supported: 100		precondit	tion					
	a = line (PIXIT)								
	b = line (PIXIT)								
	m = line (PIXIT)								
Comments:									
	SIP		SU		ISDN				
	INVITE	→		→	SETUP				
	180 Ringing	+		+	ALERT				
	200 OK INVITE	(+	CONN				
	ACK	→							
	INVITE								
	200 OK INVITE	→		→	SUS_ACK				
			T2 expi	ry					
	BYE	+							
	200 OK BYE	→							

6.2.2.11 CUG

SI_XXSSCUG01	ISDN referen EN 300 138-1		NGN reference to:							
	clauses 9.2.2									
TSS reference:		SIP-ISDN/Supplementary_services/CUG/								
Selection criteria:	options: not IA; not ICB	B. User B has a po	oint-to-multip							
Test purpose:	Ensure that when the called user belongs to a CUG with incoming access not allowed and not incoming calls barred within the CUG, after the receipt of an INVITE message the network initiate call clearing to the calling user with 500 Server internal errors.									
ISDN Parameter values:										
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)									
Comments:										
	SIP	SU	I	ISDN						
	INVITE	→								
	500 Server Internal Error	(
	ACK	→								

SI XXSSCUG02	ISDN reference	e to:		NGN reference to:						
	EN 300 138-1 [i.101.								
	clauses 9.2.2,									
TSS reference:	SIP-ISDN/Supplementar	SIP-ISDN/Supplementary_services/CUG/								
Selection criteria:	Term: The called user be options: not IA; ICB. Use			ollowing CUG supplementary oint Configuration.						
Test purpose:	Ensure that when the called user belongs to a CUG with incoming access not allowed and incoming calls barred within the CUG, after the receipt of an INVITE message the network initiate call clearing to the calling user with 500 Server internal errors.									
ISDN Parameter values:										
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT)									
	b = line (PIXIT) m = line (PIXIT)									
Comments:										
	SIP		SUT	ISDN						
	INVITE	INVITE →								
	500 Server Internal	(
	Error									
	ACK	→								

SI_XXSSCUG03	ISDN referen EN 300 138-1 clauses 9.2.2	[i.10] , 9.2.4	, 1	NGN reference to:						
TSS reference:	SIP-ISDN/Supplementary_services/CUG/									
Selection criteria:	options: IA; not ICB . Us	ser B	has a point-	to-multip	oint					
Test purpose:		s barr	ed within the	e CUG, a	after	ith incoming access allowed the receipt of an INVITE ase.				
ISDN Parameter values:										
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)									
Comments:										
	SIP INVITE	→	SUT			ISDN				
	100 Trying	+			→	SETUP				
	180 Ringing	+			-	ALERT				
	200 OK INVITE	+			←	CON				
	ACK	→								
			Conversa	tion						
	BYE	→			→	DISC				
	200 OK BYE	←			-	REL				

SI_XXSSCUG04	ISDN referen			NGN reference to:							
	EN 300 138-1 clauses 9.2.2										
TSS reference:		SIP-ISDN/Supplementary_services/CUG/									
Selection criteria:	Term: The called user belongs to CUG with the following CUG supplementary										
	options: IA; ICB. User E										
Test purpose:						th incoming access allowed					
					he r	eceipt of an INVITE message					
	the call is successful on	a "no	n CUG call'	' base.							
ISDN Parameter values:											
SIP Parameter values:	Dial string parameters of	ptions	s=PIXIT								
	PIXIT for supported hea	dor:									
	Case a) no 100 rel	iuei.									
	Case b) Supported: 100	rel									
	Case c) Supported: 100		nd precondi	tion							
	a = line (PIXIT)										
	b = line (PIXIT)										
	m = line (PIXIT)										
Comments:											
	SIP		SUT			ISDN					
	INVITE	→		<u> </u>		OFT! ID					
	100 Trying	+				SETUP					
	180 Ringing 200 OK INVITE	-				ALERT CON					
	ACK	→				CON					
	AUN	7									
			Conversa	tion							
	BYE	→	301110100	-	>	DISC					
	200 OK BYE	+		•		REL					

6.2.2.12 Hold

SI_XXSSHOLD 01	ISDN referen EN 300 141-1			NGN reference to: Q.1912.5 [51], annex B.10			
TSS reference:	SIP-ISDN/SS/HOLD/				io i zio [o i], uiiiion ziio		
SIP selection criteria:	Support the temporarily	stops sendir	a on	ne or more u	ınicast media streams		
ISDN selection criteria:	Support the generic noti						
Test purpose:	Ensure that a party can put the other party on hold at any time after the call is answered and before call clearing has begun. Ensure that a party can retrieve the call previously put on hold. The calling party should be able to put the other party on hold						
	The calling party should The called party should	be able to re	etriev	e the other	party		
	The called party should						
SIP Parameter values:	Dial string parameters of						
	PIXIT for supported hea Case a) no 100 rel Case b) Supported: 100						
	Case c) Supported: 100		ondi	tion			
	SDP: a=sendonly (put o a=sendrecv or omitte	ed (retrieve th	ne ca	all)			
	o= <version increr<="" td=""><td></td><td></td><td></td><td></td></version>						
ISDN Parameter values:	SETUP = 3,1 kHz audio	1					
Comments:					_		
	SIP		MG	CF	ISDN		
	INVITE	→		→	SETUP		
	180 Ringing	+		←	ALERTING		
	200 OK INVITE	(+	CONNECT		
	INVITE(sendonly)	→		→	NOTIFY Remote HOLD		
	200 OK	+					
	INVITE(recvonly)						
	INVITE(sendrecv)	→		>	NOTIFY - Remote RETRIEVAL		
	200 OK INVITE(sendrecv)	+					
	INVITE(sendonly)	+		+	HOLD		
	200 OK INVITE(recvonly)	→					
	INIVITE (a a radra a co)				DETDIEVE		
	INVITE(sendrecv)	+		+	RETRIEVE		
	200 OK INVITE(sendrecv)	→					

EN 300 141-1 [i.7] SDN/SS/HOLD/ ort the temporarily stops ort the generic notification of the rethat a party can put the can retrieve the call presalling party should be all alling party should be all tring parameters options.	sending one on procedure service in the other party viously put of other to put the other to retrieve	e or more unice for HOLD supe alerting state on hold in the n hold.	oplementary service e e alerting state. Ensure that the				
ort the temporarily stops ort the generic notification of the invocation of the re that a party can put the can retrieve the call presalling party should be all alling party should be all tring parameters options	on procedure service in the e other party viously put of the to put the ole to retrieve	for HOLD supe alerting state of on hold in the hold. other party of	oplementary service e e alerting state. Ensure that the				
ort the generic notification of the invocation of the re that a party can put the can retrieve the call presalling party should be alstring parameters options	on procedure service in the e other party viously put of the to put the ole to retrieve	for HOLD supe alerting state of on hold in the hold. other party of	oplementary service e e alerting state. Ensure that the				
ort the invocation of the re that a party can put the can retrieve the call presalling party should be alstring party should be alstring parameters options	service in the other party viously put of the put the ole to retrieve	e alerting state of on hold in the n hold. other party of	e alerting state. Ensure that the				
re that a party can put the can retrieve the call presalling party should be alsalling party should be alstring parameters options	e other party viously put o ble to put the ble to retriev	on hold in the n hold. other party of	e alerting state. Ensure that the n hold				
can retrieve the call pre alling party should be al alling party should be al tring parameters options	viously put on the to put the	n hold. other party o	n hold				
alling party should be al tring parameters options	ole to retriev						
tring parameters options		e the other pa					
	s=PIXIT		rty				
for augmented booders							
TOL SUDDOMEO NEAGEL							
a) no 100 rel							
b) Supported: 100 rel							
c) Supported: 100 rel ai	nd precondit	on					
a=sendonly (put on hole sendrecv or omitted (ref	rieve the cal	1)					
JP = 3,1 kHz audio;							
SIP	М	GCF	ISDN				
E	→	→	SETUP				
Ringing	+	+	ALERT				
3 3							
ATE(sendonly)	→	→	NOTIFY - Remote HOLD				
200 OK UPDATE(recvonly)							
JPDATE(sendrecv) → NOTIFY - Remote							
RETRIEVAL							
	SIP TE Ringing ATE(sendonly) DK ATE(recvonly) ATE(sendrecv)	SIP M E Ringing ATE(sendonly) OK ATE(recvonly)	SIP MGCF E				

SI_XXSSHOLD 03	ISDN reference EN 300 141-1 [i		NGN reference to: Q.1912.5 [51], annex B.10					
TSS reference:	SIP-ISDN/SS/HOLD/							
SIP selection criteria:	Support the temporarily stops sending one or more unicast media streams							
ISDN selection criteria:	Support the generic notification procedure for HOLD supplementary service							
Test purpose:	Ensure that a party can pu							
, soup improve	answered and before call clearing has begun. Ensure that a party can retrieve the previously put on hold.							
	The calling party should be	able to put th	e other party on	hold				
	The calling party should be							
SIP Parameter values:	Dial string parameters opti		•					
	PIXIT for supported heade	r·						
	Case a) no 100 rel	••						
	Case b) Supported: 100 re	·I						
	Case c) Supported: 100 re		tion					
	SDP: a=sendonly (put on ha=sendrecy or omitted	(retrieve the ca	all)					
	o= <version increme<="" td=""><td>nted></td><td></td><td></td></version>	nted>						
ISDN Parameter values:	SETUP = 3,1 kHz audio							
Comments:		1	205	1001				
	SIP		GCF	ISDN				
	INVITE	→	→	SETUP				
	180 Ringing	-	+	ALERTING				
	200 OK INVITE	+	+	CONNECT				
	UPDATE(sendonly)	→	→	Notify - Remote HOLD				
	200 OK	+						
	INVITE(recvonly)							
	UPDATE(sendrecv)	→	→	Notify - Remote RETRIEVAL				
	200 OK	+						
	UPDATE(recvonly)							

SI_XXSSHOLD 04	ISDN reference to: NGN reference to: NGN reference to: Q.1912.5 [51], annex B							
TSS reference:	EN 300 141-1 [1.7] Q.1912.5 [51], annex B.10 SIP-ISDN/SS/HOLD/							
SIP selection criteria:	Support the temporarily stops sending one or more unicast media streams							
SIP selection chiena.	The MGCF sends the update of the media stream in an UPDATE message							
ISDN selection criteria:	Support the generic notification procedure for HOLD supplementary service							
Test purpose:	Ensure that a party can put the other party on hold at any time after the call							
root parpose.				at a party can retrieve the call				
	previously put on hold.	3	3	,,				
	The called party should b	e able to put th	e other party on	hold				
	The called party should b		ve the other part	ry				
SIP Parameter values:	Dial string parameters op	tions=PIXIT						
	PIXIT for supported head	ler:						
	Case a) no 100 rel							
	Case b) Supported: 100							
	Case c) Supported: 100 i	rel and precond	lition					
	SDP: a=sendonly (put on	hold)						
	a=sendrecv or omitted		all)					
	o= <version increm<="" td=""><td>ented></td><td>,</td><td></td></version>	ented>	,					
ISDN Parameter values:	SETUP = 3,1 kHz audio;							
Comments:								
	SIP	M	GCF	ISDN				
	INVITE	→	→	SETUP				
	180 Ringing	+	+	ALERT				
	200 OK INVITE	-	+	CONNECT				
	UPDATE(sendonly)	+	+	HOLD				
	200 OK	→						
	INVITE(recvonly)							
	UPDATE(sendrecv)	+	+	RETRIEVE				
	200 OK	→		INC IINIC V C				
	UPDATE(recvonly)	-						
<u> </u>	[C. 2.112(10010111)]			ı				

SI_XXSSHOLD 05	ISDN reference EN 300 141-1					N reference to: 2.5 [51], annex B.10		
TSS reference:	SIP-ISDN/SS/HOLD/				Q.1012	[01], armox 5.10		
SIP selection criteria:	Support the temporarily stops sending one or more unicast media streams							
ISDN selection criteria:	Support the generic notification procedure for HOLD supplementary service							
Test purpose:	Ensure that a party can put the other party on hold at any time after the call is answered and before call clearing has begun. Ensure that a party in held state c put the remote party put on hold. Ensure that a party can retrieve the call previou put on hold.							
	The calling party should be able to put the other party on hold The called party should be able to put the other party on hold The calling party should be able to retrieve the other party The called party should be able to retrieve the other party							
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition SDP: a=sendonly or a=inactive (put on hold) a=sendrecv or a=recvonly or omitted (retrieve the call)							
ICDN Desembles values	o= <version incren<br="">SETUP = 3,1 kHz audio</version>							
ISDN Parameter values: Comments:	SETUP = 3,1 kHz audio	,						
Comments.	SIP	1	MG	·CE		ISDN		
	INVITE	→	IVIG	ICF	→	ISDIN		
	180 Ringing	+			+			
	200 OK INVITE	+			+			
	200 OK INVITE				_			
	INVITE(sendonly) 200 OK INVITE(recvonly)	→			→	NOTIFY- Remote HOLD		
	D D (1777)					LIOLD		
	INVITE(inactive)	(+	HOLD		
	200 OK INVITE(inactive)	→						
	INVITE(recvonly) 200 OK INVITE(sendonly)	→			→	Notify - Remote Retrieval		
	INVITE(sendrecv)	+			+	RETRIEVE		
	200 OK INVITE(sendrecv)	→						

SI_XXSSHOLD 06	ISDN reference to: NGN reference to: EN 300 141-1 [i.7] Q.1912.5 [51], annex B.10								
TSS reference:	SIP-ISDN/SS/HOLD/								
SIP selection criteria:	Support the temporarily	y stops sen	ding or	e or mo	re unica	st media streams			
ISDN selection criteria:	Support the generic notification procedure for HOLD supplementary service								
Test purpose:	Ensure that a party can put the other party on hold at any time after the call is								
						at a party in held state can			
	put the remote party pu	ut on hold. I	Ensure	that a pa	arty can	retrieve the call previously			
	put on hold.			-	-	·			
	The calling party shoul								
	The called party should								
	The called party should								
OID D	The calling party should			e the oti	ner part	У			
SIP Parameter values:	Dial string parameters	options=Pi	XII						
	PIXIT for supported he	ader.							
	Case a) no 100 rel	auer.							
	Case b) Supported: 10	∩ rel							
	Case c) Supported: 10		econdi	tion					
	Case of Cappointain 10	о тог апта р	000						
	SDP: a=sendonly or a=inactive (put on hold)								
	a=sendrecv or a=re				the call)			
	o= <version incre<="" td=""><td>emented></td><td></td><td>•</td><td></td><td></td></version>	emented>		•					
ISDN Parameter values:	SETUP = 3,1 kHz audi	0							
Comments:									
	SIP		MG	CF		ISDN			
	INVITE	→			→				
	180 Ringing	+			+				
	200 OK INVITE	+			+				
	INVITE(sendonly)	→			→	NOTIFY - Remote HOLD			
	200 OK	+							
	INVITE(recvonly)								
	INDUSTRIC					11015			
	INVITE(inactive)	+			+	HOLD			
	200 OK	→							
	INVITE(inactive)								
	INI) /ITE / re ex reply)				+	DETDIEVE			
	INVITE(recvonly)	←			_	RETRIEVE			
	200 OK	7							
	INVITE(sendonly)								
	INVITE(sendrecv)	→			→	NOTIFY - Remote Retrieval			
	200 OK	+							
	INVITE(sendrecv)								
	m v m = (Schareov)				<u> </u>				

6.2.2.13 CONF

SI_XXSSCONF01	ISDN reference EN 300 185-1 [NGN reference to: TS 183 005 [46] TS 124 147 [i.11]				
TSS reference:	SIP-ISDN/SS/CONF/								
SIP selection criteria:	Support that a party can put the other party on hold after then calling user has provided all the information necessary for processing the call								
ISDN selection criteria:	Support of service conference call, add-on (conf)								
Test purpose:	Ensure that the SUT in the confirmed dialogue stop the temporarily sending one or more unicast media streams if a HOLD was sent and resume the session after the BeginCONF was received due to the CONF supplementary service. If the media stream is either in state "sendonly" or "inactive" then: INVITE with								
SIP Parameter values:	the attribute line a_LINE_VA, or omitted attribute line, else: no mapping Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition SDP: a= a_LINE_VA (TABLE 9) or a line is omitted								
ISDN Parameter values:	SETUP = 3,1 kHz audio;		,						
Comments:	,								
	SIP		MGCF		ISDN				
	INVITE	→		→	SETUP				
	180 Ringing	+		+	ALERTING				
	200 OK INVITE	+		+	CONNECT				
				+	BeginCONF				
	BYE	+		+	DISC				
	200 OK BYE	→		→	RELEASE				
				+	REL_COMP				

SI_XXSSCONF03	ISDN reference to: EN 300 185-1 [i.8]			NGN reference to: TS 183 005 [46] TS 124 147 [i.11]				
TSS reference:	SIP-ISDN/SS/CONF/							
SIP selection criteria:	Support that a party can put the other party on hold after then calling user has provided all the information necessary for processing the call							
ISDN selection criteria:	Support of service conference call, add-on (conf)							
Test purpose:	Ensure that the SUT in the confirmed dialogue stops the temporarily sending one or more unicast media streams if a FACILITY message isolatedCONF and resume the media stream if reattachedCONF was received due to the CONF supplementary service.							
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition							
100110	SDP: a= a_LINE_VA (TAE	BLE 10)	or a iir	e is om	ittea			
ISDN Parameter values:	SETUP = 3,1 kHz audio;							
Comments:	OID		14005	. 1	I IODAI			
	SIP	+	MGCF		ISDN			
	INVITE	→		→	SETUP			
	180 Ringing	+		←	ALERTING			
	200 OK INVITE	←		+	CONNECT			
				- I =	In			
		1-		←	BeginCONF			
	INVITE(sendonly)	+		+	IsolatedCONF			
	200 OK INVITE(recvonly)	→						
	ACK	+						
	INVITE(sendrecv)	+		←	ReattachCONF			
	200 OK INVITE(sendrecv)							
	ACK	←						
		1		T =	I			
	BYE	←		←	DISC			
	200 OK BYE	→		→	RELEASE			
				←	REL_COMP			

SI_XXSSCONF05	ISDN refer EN 300 18				NGN reference to: TS 183 005 [46] TS 124 147 [i.11]			
TSS reference:	SIP-ISDN/SS/CONF/							
SIP selection criteria:	Conference event page	ckage sup	ported PICS	S [43]	1/1			
ISDN selection criteria:								
Test purpose:	Conference notification information is mapped into "conference established" Upon the receipt of a conference information document with the <conference-state-type> element active is set to 'true', the ISDN Network shall send a NOTIFY message with a notification 'conference established'.</conference-state-type>							
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition NOTIFY 1: <conference-state></conference-state>							
ISDN Parameter values:	SETUP = 3,1 kHz aud	dio						
Comments:			T		T			
	SIP		MGCF		ISDN			
	INVITE	→		→	SETUP			
	180 Ringing	(+	ALERTING			
	200 OK INVITE NOTIFY 1	→		→	CONNECT			
		-		7	NOTIFY(conference established)			
	200 OK NOTIFY							
	BYE	(-	DISCONNECT			
	200 OK BYE	→		→	RELEASE			
				(RELEASE COMPLETE			

SI_XXSSCONF06	ISDN reference to: EN 300 185-1 [i.8]				NGN reference to: TS 183 005 [46] TS 124 147 [i.11]		
TSS reference:	SIP-ISDN/SS/CONF/						
SIP selection criteria:	Conference event pac	kage sup	ported PIC	CS [43]	1/1		
ISDN selection criteria:							
Test purpose:	Conference notification information is mapped into "other party added" Upon the receipt of a conference information document with the <endpoint-type> and the element status of endpoint-status-type is set to 'connected' and it was not set to 'on-hold' before and the Contact URI in the element entity is not the address of the served PSTN/ISDN participant, the ISDN Network shall send a NOTIFY message 'other party added'.</endpoint-type>						
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition NOTIFY 1: <conference-state></conference-state>						
Comments:	<u> </u>						
	SIP		MGCF		ISDN		
	INVITE	→		→	SETUP		
	180 Ringing	+		+	ALERTING		
	200 OK INVITE	+		+	CONNECT		
			1				
	NOTIFY 1	→		→	NOTIFY(conference established)		
	200 OK NOTIFY	+					
	NOTIFY 2	→		→	NOTIFY(other party added)		
	200 OK NOTIFY	+			(1 2) 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
	BYE	+		←	DISCONNECT		
	200 OK BYE	→		→	RELEASE		
				+	RELEASE COMPLETE		
	The Connection to SIF	2 is not	shown in th	nis mes			

SI_XXSSCONF11	ISDN reference to: EN 300 185-1 [i.8]			٦	NGN reference to: FS 183 005 [46], clause 4.7.1.1.1 TS 124 147 [i.11]			
TSS reference:	SIP-ISDN/SS/CONF/							
SIP selection criteria:	Conference event package supported PICS [43] 1/1							
ISDN selection criteria:								
Test purpose:	Conference notification information is mapped into "other party disconnected" Upon the receipt of a conference information document with the <endpoint-type> and the element status of endpoint-status-type is set to 'disconnected' and the element joining-method of joining-type is not set to 'focus-owner, the ISDN network shall send a NOTIFY message 'other party disconnected'.</endpoint-type>							
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition NOTIFY 3: <endpoint entity="endpoint" sipx="" td="" uri<=""></endpoint>							
ISDN Parameter values:	SETUP = 3,1 kHz au	s>disconn	ecteu 5</td <td>iaius></td> <td></td>	iaius>				
ISDN Parameter values: Comments:	SETUP = 3,1 KHZ at	lalo						
Comments.	SIP	1	MGCF	1	ISDN			
	INVITE	→	MGCF	→	SETUP			
	180 Ringing	'		′	ALERTING			
	200 OK INVITE	+		+	CONNECT			
	200 OK INVITE			_	CONNECT			
	NOTIFY 1 200 OK NOTIFY	→		→	NOTIFY(conference established)			
	NOTIFY 2 200 OK NOTIFY	→		→	NOTIFY (other party added)			
	NOTIFY 3 → NOTIFY(other party discon							
	BYE	+		+	DISCONNECT			
	200 OK BYE	<u>`</u>		→	RELEASE			
	200 OK DIL			/	RELEASE COMPLETE			
	The session with SIF	2 is not sh	nown in th	nis mes				

SI_XXSSCONF12	ISDN reference to: EN 300 185-1 [i.8]				NGN reference to: TS 183 005 [46] TS 124 147 [i.11]			
TSS reference:	SIP-ISDN/SS/CONF/							
SIP selection criteria:	Conference event package not supported NOT PICS [43] 1/1							
ISDN selection criteria:								
Test purpose:	Conference notification							
					ument the conference notification			
				de. No N	IOTIFY is sent to the ISDN user.			
SIP Parameter values:	Dial string parameters of	ptions=PI	XIT					
	PIXIT for supported hea	ader:						
	Case a) no 100 rel							
	Case b) Supported: 100							
	Case c) Supported: 100	rel and p	reconditi	on				
	NOTIFY 1: <conferent cactive="">t</conferent>			sent				
	NOTIFY 2: <endpoint< td=""><td></td><td></td><td></td><td>I</td></endpoint<>				I			
ISDN Parameter values:	SETUP = 3,1 kHz audio);						
Comments:								
	SIP		MGCF		ISDN			
	INVITE	→		→	SETUP			
	180 Ringing	+		+	ALERTING			
	200 OK INVITE	(+	CONNECT			
	NOTIFY 1	→						
	200 OK NOTIFY	+						
	NOTIFY 2							
	200 OK NOTIFY							
	BYE	+		+	DISCONNECT			
	200 OK BYE	→		→	RELEASE			
				+	RELEASE COMPLETE			

SI_XXSSCONF13	SIP refe	erence:		NGN reference:			
	RFC 32		Q.734.1 [14], clause 2.7				
TSS reference:	SIP-ISUP/SS/CONF/						
SIP selection criteria:	The stop and retrieve of media streams is not supported						
ISUP selection							
criteria:							
Test purpose:	Ensure that the SUT on receipt of FACILITY messages due to the CONF						
	supplementary service	e,					
	no mapping, no dis			cedure	9.		
SIP Parameter values:	Dial string parameter	s options=F	PIXIT				
	DD/IT (
	PIXIT for supported h	neader:					
	Case a) no 100 rel	00 ==1					
	Case b) Supported: 1						
	Case c) Supported: 1	oo rei and	precondition				
	No mapping						
ISDN Parameter	SETUP = 3,1 kHz au	dio:					
values:	3L 101 = 3,1 KHZ au	aio,					
Comments:							
Commonto.	SIP		MGCF		ISUP		
	INVITE	→		→	SETUP		
	180 Ringing	-		+	ALERTING		
	200 OK INVITE	(←	CONNECT		
		<u> </u>	1	-	1		
				+	HOLD		
				+	BeginCONF		
				+	IsolatedCONF		
				+	ReattachCONF		
	BYE	+		+	DISCONNECT		
	200 OK BYE	→		→	RELEASE		
				+	RELEASE COMPLETE		

SI_XXSSCONF14	ISDN referen EN 300 185-	••••		NGN reference to: TS 183 005 [46], clause 4.7.1.1.1 TS 124 147 [i.11]						
TSS reference:	SIP-ISDN/SS/CONF/									
SIP selection criteria:										
ISDN selection criteria:										
Test purpose:	The referring of MGCF is not possible call is established Ensure that a REFER request received by the MGCF is not successful. The request is rejected with . 403 Forbidden. The CS -site is not affected.									
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition REFER: Request URI contained the conference URI Refer-To contains the URI of ISDNx, method=invite									
ISDN Parameter values:	Referred-By SETUP = 3,1 kHz audio		C C . (C).	<u> </u>	<u> </u>					
Comments:	·									
	SIP		MGCF		ISDN					
	INVITE	→		→	SETUP					
	180 Ringing	((ALERTING					
	200 OK INVITE	200 OK INVITE ← CONNECT								
	REFER	→								
	403 Forbidden	-								

SI_XXSSCONF15	ISDN reference to EN 300 185-1 [i.8		NGN reference to: TS 183 005 [46], clause 4.7.1.1.1 TS 124 147 [i.11]					
TSS reference:	SIP-ISDN/SS/CONF/							
SIP selection criteria:								
ISDN selection criteria:								
Test purpose:	The referring of MGCF is not possible call is not established Ensure that a REFER request received by the MGCF is not successful. The request is rejected with . 403 Forbidden. The CS -site is not affected.							
SIP Parameter values:	Dial string parameters option PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel REFER: Request URI con Refer-To contain: Referred-By cont	and precond tained the co s the URI of	onference URI ISDNx, method=invite					
ISDN Parameter values:	SETUP = 3,1 kHz audio;							
Comments:								
	SIP	MGCF	ISDN					
	REFER →							
	403 Forbidden ←							

6.2.2.14 Call waiting (CW)

SI_XXSSCW01	SIP re RFC 3			ISUP reference: Q.1912.5 [51], annex B.9					
TSS reference:	SIP-ISDN/SS/CW		20]	Q.191	2.5 [51], aimex 6.9				
SIP selection criteria:	317-13011/33/01/	/							
ISDN selection criteria:	F 4 4 1		DNI OUT: I' (II	. 0.11.					
Test purpose:				at a Call is	a waiting call the SIP				
	signalling procedu								
SIP Parameter values:	Dial string parame	eters o	ptions=PIXIT						
	Case a) no 100 re Case b) Supporte	PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition							
ISDN Parameter values:	SETUP = 3,1 kHz	audio);						
Comments:									
	SIP		SUT		ISDN				
	INVITE	→			SETUP				
	180 Ringing	+		+	ALERTING				
	200 OK INVITE	+		+	CONN				
	ACK	→							
			Conversation						
	BYE	→		→	DISC				
	200 OK BYE	+		+	REL				

6.2.2.15 Anonymous Call Rejection (ACR)

SI_XXSSACR01	SIP reference:	ISUP reference:					
	RFC 3261 [28]	Q.1912.5 [51], annex B.8					
TSS reference:	SIP-ISDN/SS/ACR/						
SIP selection criteria:							
ISDN selection criteria:	An implementation according EN 383 00	1 [49]					
Test purpose:	Ensure that the SUT, if a destination user has subscribed the ACR supplementary service the call attempt is rejected with a 603 Decline: Reason header field Reason:						
	Q.850 [22];cause=24 due to ACR supple	mentary service"					
SIP Parameter values:	Dial string parameters options=PIXIT						
	PIXIT for supported header:						
	Case a) no 100 rel						
	Case b) Supported: 100 rel						
	Case c) Supported: 100 rel and precondi	tion					
	INVITE: Privacy-header = "id"						
	603 Decline: Reason header field Reaso	n: Q.850 [22];cause=24					
ISDN Parameter values:	SETUP = 3,1 kHz audio						
Comments:							

SI_XXSSACR02	SIP reference: RFC 3261 [28]	ISUP reference: Q.1912.5 [51], annex B.8					
TSS reference:	SIP-ISUP/SS/ACR/	L 4/					
SIP selection criteria:							
ISDN selection criteria:	An implementation according ETSI EN 383 001 [49] Send a Calling Party Number with an Number Presentation restriction Indicator set to "presentation restricted by the network" if no P-Asserted -Identity header field has not been received or not in the format "+"CC+NDC+SN						
Test purpose:	Ensure that the SUT if a destination user has subscribed the ACR supplementary service the call attempt is successful						
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition INVITE: No P-Asserted-Identity header field and no Privacy header field present						
ISDN Parameter values:	Calling party number Address presentation restriction is set to "Presentation restricted by the network"						
Comments:							

6.3 Test purposes for PSTN - SIP

6.3.1 Basic call

6.3.1.1 Basic call Successful

Successful	
PSTN	

PS_AU_01	PSTN reference to:	NGN reference to:							
	EN 300 899-1 [23], clause 2.1.1	Q.1912.5 [51]							
TSS reference:	PSTN-SIP/Basic_call/Successful/3,1 kHz audio								
Selection criteria:									
Test purpose:	Ensure that the PSTN can in the overlap proceeding state handle the call establishment correctly when the SIP user answers with a Session Progress message following by a 180 Ringing message. Ensure that in the active call state the voice transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters). In case when the parameter in the SDP rtpmap: <dynamic-pt> is used the codecs in table 8 applies.</dynamic-pt>								
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT)								
Comments:	m = line (PIXIT)								
	PSTN		SUT		SIP				
	Off hook								
	Dial number	→		→	INVITE				
				←	183 Session Progress				
	Ringing tone			←	180 Ringing				
				+	200 OK INVITE				
				→	ACK				
	Communication				D) (5				
	On hook	→		→	BYE				
				+	200 OK BYE				

PS_AU_02	PSTN reference to:		NGN reference to:						
	EN 300 899-1 [23], clause 2.1.1 Q.1912.5 [51]								
TSS reference:	PSTN-SIP/Basic_call/Successful/3,1 kHz audio								
Selection criteria:									
Test purpose:	Ensure that the PSTN in the Outgoing call proceeding state can handle the call establishment correctly when the SIP user answers with a 200 OK message. Ensure that in the active call state the voice/data transfer is performed correctly (e.g. testing QoS parameters). In case when the parameter in the SDP rtpmap: <dynamic-pt> is used the codecs in table 8 applies.</dynamic-pt>								
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)								
Comments:									
	PSTN		SUT		SIP				
	Off hook								
	Dial number	→		→	INVITE				
				←	200 OK INVITE				
		→ ACK							
	Communication								
	On hook	→		→	BYE				
				←	200 OK BYE				

PS_AU_03	PSTN reference to:			NG	N reference to:				
	EN 300 899-1 [23], clause 2.1.1			(Q.1912.5 [51]				
TSS reference:	PSTN-SIP/Basic_call/Successful/3,1 kHz audio /								
Selection criteria:									
Test purpose:	Ensure that the call establishment and the call clearing procedure are performed								
	correctly when the calling user cl			ering.					
	The called user shall receive a BY								
	The Reason header should contain								
	Ensure that in the Call Delivered of		tate the tra	nsfer o	f tone or announcement on the				
	B- channel is performed correctly.								
	In case when the parameter in the	SD	P rtpmap:<	dynam	ic-PT> is used the codecs in				
	table 8 applies.								
SIP Parameter values:	Dial string parameters options=PIX	XII							
	DIVIT for a compared to a dam								
	PIXIT for supported header:								
	Case a) no 100 rel								
	Case b) Supported: 100 rel Case c) Supported: 100 rel and pr		adition						
	Case c) Supported. 100 fer and pr	eco	idition						
	a = line (PIXIT)								
	b = line (PIXIT)								
	m = line (PIXIT)								
Comments:									
	PSTN		SUT		SIP				
	Off hook								
	Dial number •	→		→	INVITE				
	Ringing tone			+	180 Ringing				
				+	200 OK INVITE				
				→	ACK				
	Communication				,				
	On hook	→		→	BYE				
				(200 OK BYE				

PS_AU_04	PSTN reference to: NGN reference to:								
	EN 300 899-1 [23], clause 2.1.1								
TSS reference:	PSTN -SIP/Basic_call/Successful/3,1 kHz audio/								
Selection criteria:									
Test purpose:	Ensure that the call clearing proc	edui	e is perform	ed cor	rectly when the called user				
	clears after answering with a BYI		ssage indica	ating th	e Cause value # 16 "normal call				
	clearing" in the Reason header fi								
	Ensure that in the Call Delivered								
	transfer of tone or announcemen								
	the SDP rtpmap: <dynamic-pt> is</dynamic-pt>		ed the coded	s in tal	ole 8 applies.				
SIP Parameter values:	Dial string parameters options=P	IXIT							
	DIVIT for a compared to a description								
	PIXIT for supported header:								
	Case a) no 100 rel								
	Case b) Supported: 100 rel Case c) Supported: 100 rel and p	roce	ndition						
	Case c) Supported. 100 fel allu p	лесс	manion						
	a = line (PIXIT)								
	b = line (PIXIT)								
	m = line (PIXIT)								
Comments:									
	PSTN		SUT		SIP				
	Off hook								
	Dial number	→		→	INVITE				
	Ringing tone			←	180 Ringing				
				←	200 OK INVITE				
				→	ACK				
	Communication								
	Special tone or announcement	←		←	BYE				
	On hook			→	200 OK BYE				

Table 7

		m= line		b= line	a= line
	<media></media>	<transport></transport>	<fmt-list></fmt-list>	<modifier>:<band width-value=""></band></modifier>	rtpmap: <dynamic-pt> <encoding name="">/</encoding></dynamic-pt>
					<pre><clock rate="">[/encoding parameters></clock></pre>
VA_01	audio	RTP/AVP	0 and/or 8	AS:64	rtpmap:0 PCMU/8000 and/or rtpmap:8 PCMA/8000
VA_02	audio	RTP/AVP	0 (and possibly 8)	AS:64	rtpmap:0 PCMU/8000 (and possibly rtpmap:8 PCMA/8000)
VA 03	audio	RTP/AVP	8	AS:64	rtpmap:8 PCMA/8000

Table 8: Values of codecs for test purposes PS_AU_01 to PS_AU_04

VARIABLE	PT	Encoding	media type	clock rate	channels
VA_01	0	PCMU	A	8 000	1
VA_02	3	GSM	Α	8 000	1
VA_03	4	G723	A	8 000	1
VA_04	5	DVI4	Α	8 000	1
VA_05	7	LPC	Α	8 000	1
VA_06	8	PCMA	Α	8 000	1
VA_07	9	G722	Α	8 000	1
VA_08	12	QCELP	Α	8 000	1
VA_09	13	CN	Α	8 000	1
VA_10	18	G729	Α	8 000	1
VA_11	Dyn	G726-40	Α	8 000	1
VA_12	Dyn	G726-32	Α	8 000	1
VA_13	Dyn	G726-24	Α	8 000	1
VA_14	Dyn	G726-16	Α	8 000	1
VA_15	Dyn	G729D	A	8 000	1
VA_16	Dyn	G729E	Α	8 000	1
VA_17	Dyn	GSM-EFR	A	8 000	1

6.3.1.2 Test purposes for PSTN - SIP Basic call Unsuccessful

Unsuccessful	
PSTN	

PS_AU_U01	PSTN reference to:			N	IGN reference to:	
	EN 300 899-1 [23], clause 2.				Q.1912.5 [51]	
TSS reference:	PSTN-SIP/Basic_call/Unsuccess	PSTN-SIP/Basic_call/Unsuccessful				
Selection criteria:						
Test purpose:		Ensure that when the called SIP user is busy, the calling user receives in-band information that the called user is busy.				
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)					
Comments:						
	PSTN		SUT		SIP	
	Off hook					
	Dial number	→		→	INVITE	
	Special tone or announcement					
	→ ACK				ACK	
		1				
	On hook					

PS_AU_U02	PSTN reference to: NGN reference to:				N reference to:	
	EN 300 899-1 [23], clause 2.1.1			(Q.1912.5 [51]	
TSS reference:	PSTN-SIP/Basic_call/Unsuccessful					
Selection criteria:						
Test purpose:	Ensure that when the calling user	Ensure that when the calling user clears before answer from the called SIP user the call				
	is cleared					
SIP Parameter values:	Dial string parameters options=PI	Dial string parameters options=PIXIT				
	PIXIT for supported header:					
	Case a) no 100 rel					
	Case b) Supported: 100 rel					
	Case c) Supported: 100 rel and p	reco	ndition			
	a = line (PIXIT)					
	b = line (PIXIT)					
	m = line (PIXIT)					
Comments:						
	PSTN		SUT		SIP	
	Off hook					
	Dial number	→		→	INVITE	
	Ringing tone			+	180 Ringing	
	On hook	On hook → CANCEL				
			•			
				←	200 OK Cancel	
				←	487 Request Terminated	
				→	ACK	

PS_AU_U03	PSTN reference to:	NGN reference to:
	EN 300 899-1 [23], clause 2.1.1	Q.1912.5 [51]
TSS reference:	PSTN-SIP/Basic_call/Unsuccessful	
Selection criteria:		
Test purpose:	Ensure that when the called SIP us expires, the network initiate call clear	er is alerted by not answering before timer Q.18 aring.
SIP Parameter values:	Dial string parameters options=PIX PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and pre a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)	
Comments:		

PS_XX_U04	PSTN reference to:	NGN reference to:			
	EN 300 899-1 [23], clause 2.1.1	Q.1912.5 [51], RFC 3261 [28], RFC 4566 [25]			
TSS reference:	PSTN-SIP/Basic_call/Unsuccessful				
Selection criteria:					
Test purpose:		Ensure that when there is no answer from the called user (there is no response from INVITE messages), the network initiate call clearing to the calling user.			
SIP Parameter values:	Dial string parameters options=PIXI PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and pre a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)				
Comments:					

PS_XX_U05	PSTN reference to:	NGN reference to:
	EN 300 899-1 [23], clause 2.1.1	RFC 3261 [28] and RFC 4566 [25]
TSS reference:	PSTN-SIP/Basic_call/Unsuccessful	
Selection criteria:		
Test purpose:	Ensure that the call will be released network initiates call clearing 484 A	I when the called number is incomplete. The SIP ddress Incomplete message.
SIP Parameter values:	Dial string parameters options=PIX PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and pre a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)	
Comments:		

6.3.2 Test purposes for PSTN - SIP Supplementary services

6.3.2.1 CLIP

PS_XXSSCLIP01	PSTN reference to: EN 300 001 [i.12], ETS 300 648 [i.13], EN 300 659 [i.15]		Q.19 EN 38 ES 283 (12.5 3 00	I reference to: 5 [51], clause 7.1.3 01 [49], clause 7.1.3 [48], clause 7.2.3.2.2.3	
TSS reference:	ISDN-SIP/Supplementary_s		<u>P</u>			
Selection criteria:	The called user is provided v					
Test purpose:	Ensure that when the Calling party number is provided by the network, the Calling party number information elements is correctly delivered to the called (served) with following mapping rules:					
	The SIP P-Asserted-Identity	header is I	Derived from C	Callir	ng party information element	
	Address Signal					
	The Calling Party Number is	mapped in	to the SIP Fro	m h	eader	
PSTN Parameter:						
values:						
SIP Parameter values:	Dial string parameters option	ns=PIXIT				
	PIXIT for supported header: Case a) no 100 rel					
	Case b) Supported: 100 rel					
	Case c) Supported: 100 rel a	and precon	dition			
	a = line (PIXIT)					
	b = line (PIXIT)					
	m = line (PIXIT)					
Comments:						
Commonto.	PSTN		SUT		UA S	
	Off hook, Dial			→	INVITE	
	number					
	Ringing tone			+	180 Ringing	
	Connection			<u>`</u>	200 OK INVITE	
	Connection	Connection				
					/\text{\text{CIX}}	
		Conversat	ion			
	On hook			_	DVE	
	On hook			→	BYE	
				←	200 OK BYE	

	Display_Options_PA	Display name
VA_1	"display-name" is supported in the P-Asserted header	Presented
VA_2	"display-name" is not supported in the P-Asserted header	Not presented
VA_3	"display-name" is supported in the From header	Presented
VA_4	"display-name" is not supported in the From header	Not presented

6.3.2.2 CLIR

PS_XXSSCLIR01	PSTN reference to EN 300 001 [i.12] ETS 300 648 [i.13 EN 300 659 [i.15]],],	Q.1912.5 EN 383 00 ES 283 027 RI	l reference to: 5 [51], clause 7.1.3 01 [49], clause 7.1.3 [48], clause 7.2.3.2.2.3 FC 3323 [33]		
		RFC 3325 [34]				
TSS reference:	ISDN-SIP/Supplementary					
Selection criteria:	The calling user is provide					
Test purpose:	Ensure that when the Cal Sends a INVITE message "unavailable" and no P-A	e where the he SIP	From heade	er field is set to "anonymous" or		
PSTN Parameter:						
values:						
SIP Parameter values:	Dial string parameters op	tions=PIXIT				
	PIXIT for supported head	er:				
	Case a) no 100 rel					
	Case b) Supported: 100 r	el				
	Case c) Supported: 100 r	el and precondition	1			
	a = line (PIXIT)					
	b = line (PIXIT)					
	m = line (PIXIT)					
Comments:	,		_			
	PSTN	SUT		UA S		
	Off hook, Dial number		→	INVITE		
	Ringing tone		(180 Ringing		
	Connection		←	200 OK INVITE		
			→	ACK		
		Conversation				
	On hook		→	BYE		
			(200 OK BYE		
L						

PS_XXSSCLIR02	PSTN reference to EN 300 001 [i.12] ETS 300 648 [i.13] EN 300 659 [i.15]	,],	El	Q.1912.5 N 383 00 83 027	I reference to: 5 [51], clause 7.1.3 01 [49], clause 7.1.3 [48], clause 7.2.3.2.2.3 FC 3323 [33]			
				RF	FC 3325 [34]			
TSS reference:	ISDN-SIP/Supplementary_							
Selection criteria:	The calling user is provided							
Test purpose:	Ensure that when the Calli	0. ,	•	,	·			
	Sends a INVITE message "unavailable" and no P-Ass				field is set to "anonymous" or ed			
PSTN Parameter:								
values:								
SIP Parameter values:	a = line (PIXIT) b = line (PIXIT) m = line (PIXIT) Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition							
Comments:								
	PSTN		SUT		UA S			
	Off hook, Dial number			→	INVITE			
	Ringing tone			+	180 Ringing			
	Connection			←	200 OK INVITE			
				→	ACK			
		Conver	sation					
	On hook			→	BYE			
				← 200 OK BYE				

6.3.2.3 CFU

PSP_XXSSCFU 01	PSTN reference to:	NGN reference to: Q.1912.5 [51] annex B.6.			
TSS reference:	PSTN-SIP-PSTN/Supplementary_services/CFU				
Configuration:	The user A and the user C are in network N1. The user B is in network N2 and is provided with CFU				
Selection criteria:	Call forwarding by the network Call forwarding unconditional support	orted			
Test purpose:	Ensure that when user A calls user				
PSTN Parameter: values:					
SIP Parameter values:	Dial string parameters options=PIXIT				
	PIXIT for supported header:				
	Case a) no 100 rel				
	Case b) Supported: 100 rel				
	Case c) Supported: 100 rel and pre	econdition			
	a = line (PIXIT)				
	b = line (PIXIT)				
	m = line (PIXIT)				
Comments:					

PSP_XXSSCFU 02	PSTN reference to:	NGN reference to: TS 183 004 [45]
TSS reference:	PSTN-SIP-PSTN/Supplementary s	
Configuration:	The user A and the user C are in no with CFU	etwork N1. The user B is in network N2 and is provided
Selection criteria:	User B has activated the CALL DEI Call forwarding unconditional support	
Test purpose:	Ensure that when user A calls user	B, the call is forwarded to user C.
PSTN Parameter: values:		
SIP Parameter values:	Dial string parameters options=PIXIT	
	PIXIT for supported header:	
	Case a) no 100 rel	
	Case b) Supported: 100 rel	
	Case c) Supported: 100 rel and precondition a = line (PIXIT)	
	b = line (PIXIT)	
	m = line (PIXIT)	
Comments:		

PSP_XXSSCFU 03	PSTN reference to:	NGN reference to: TS 183 004 [45]
TSS reference:	PSTN-SIP-PSTN/Supplementary_s	ervices/CFU
Configuration:	The user B is in network N2 and is	provided with CFU
Selection criteria:	Call forwarding by the network Call forwarding unconditional supported user C is user determined user busy	
Test purpose:	To verify that a call is released correctly if CFU was not successful . User A calls user B, the call is forwarded to user C who is busy.	
PSTN Parameter		
values:		
SIP Parameter values:	Dial string parameters options=PIXIT	
	PIXIT for supported header:	
	Case a) no 100 rel	
	Case b) Supported: 100 rel	
	Case c) Supported: 100 rel and precondition	
	a = line (PIXIT)	
	b = line (PIXIT)	
	m = line (PIXIT)	
Comments:		

PSP_XXSSCFU 04	PSTN reference to:	NGN reference to: TS 183 004 [45]
TSS reference:	PSTN-SIP-PSTN/Supplementary_s	. ,
Configuration:	The user B is in network N2 and is	
Selection criteria:	Call forwarding unconditional support	orted
	user C is network determined user	busy
	User B has activated the CALL DEF	FLECTION service
Test purpose:	To verify that a call is released corr	ectly if CFU was not successful.
	User A calls user B, the call is forwa	arded to user C who is busy.
PSTN Parameter		
values:		
SIP Parameter values:	Dial string parameters options=PIXIT	
	PIXIT for supported header:	
	Case a) no 100 rel	
	Case b) Supported: 100 rel	
	Case c) Supported: 100 rel and precondition	
	a = line (PIXIT)	
	b = line (PIXIT)	
	m = line (PIXIT)	
Comments:		

PSPP_XXSSCFU 05	PSTN reference to:	NGN reference to: TS 183 004 [45]
TSS reference:	PSTN-SIP-PSTN-ISDN/Supplemen	atary_services/CFU
Configuration:	The user A and the user C and D a provided with CFU. User D forward	re in network N1. The user B is in network N2 and is sthe call to back to user B.
Selection criteria:	Call forwarding by the network Call forwarding unconditional support	orted
Test purpose:	Ensure that when user A calls user B, the call is forwarded to user C and D. User D forwards the call to back to user B. Ensure that the call is released.	
PSTN Parameter		
values:		
SIP Parameter values:	Dial string parameters options=PIXIT	
	PIXIT for supported header:	
	Case a) no 100 rel	
	Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT)	
	b = line (PIXIT)	
	m = line (PIXIT)	
Comments:		

PSPP_XXSSCFU 06	PSTN reference to:	NGN reference to: TS 183 004 [45]
TSS reference:	PSTN-SIP-PSTN-ISDN/Supplementary_services/CFU	
Configuration:	provided with CFU. User D forward	re in network N1. The user B is in network N2 and is sthe call to back to user B.
Selection criteria:	Call forwarding by the network	
	Call forwarding unconditional support	orted
	Network option: hop counter suppo	rted N<5
Test purpose:	Ensure that when user A calls user	B, the call is forwarded to user C and D.
	User D forwards the call to back to	user B. Ensure that the call is released.
PSTN Parameter		
values:		
SIP Parameter values:	Dial string parameters options=PIXIT	
	PIXIT for supported header:	
	Case a) no 100 rel	
	Case b) Supported: 100 rel	
	Case c) Supported: 100 rel and precondition	
	a = line (PIXIT)	
	b = line (PIXIT)	
	m = line (PIXIT)	
Comments:		

PSS_XXSSCFU 07	PSTN reference to:	NGN reference to: TS 183 004 [45]
TSS reference:	PSTN-SIP-SIP/Supplementary_se	ervices/CFU
Configuration:	The user B is provided with CFU	
Selection criteria:	Call forwarding by the network Call forwarding unconditional supp	ported
Test purpose:	Ensure that when user A calls use	er B, the call is forwarded to user C.
PSTN Parameter		
values:		
SIP Parameter values:	Dial string parameters options=PIX PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and pr a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)	
Comments:		

PSS_XXSSCFU 08	PSTN reference to:	NGN reference to: TS 183 004 [45]
TSS reference:	PSTN-SIP-SIP/Supplementary_services/CFU	
Configuration:	The user B is provided with CFU ("Served user allows the presentation of forwarded to URI to originating user in diversion notification" = Yes, "diverting number is released to the diverted-to user" = Yes, "served user receives notification that the call has been forwarded" = Yes).	
Selection criteria:	Call forwarding by the network Call forwarding unconditional supported CF Notifications supported	
Test purpose:	Ensure that when user A calls user B, the call is forwarded to user C which is informed of the forwarding number (user B has presentation allowed). User B is notified of call diversion.	
PSTN Parameter values:		
SIP Parameter values:	Dial string parameters options=PIX PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and pre a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)	
Comments:		

PSS_XXSSCFU 09	PSTN reference to:	NGN reference to: TS 183 004 [45]
TSS reference:	PSTN-SIP-SIP/Supplementary_services/CFU	
Configuration:	The user B is provided with CFU ("Served user allows the presentation of forwarded to URI to originating user in diversion notification" = Yes, "diverting number is released to the diverted-to user" = Yes, "served user receives notification that the call has been forwarded" = No).	
Selection criteria:	Call forwarding by the network Call forwarding unconditional supported CF Notifications supported	
Test purpose:	Ensure that when user A calls user B, the call is forwarded to user C which is informed of the forwarding number (user B has presentation allowed). User B is not notified of call diversion.	
PSTN Parameter values:		
SIP Parameter values:	Dial string parameters options=PIX PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and pre a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)	
Comments:		

PSS_XXSSCFU 10	PSTN reference to:	NGN reference to: TS 183 004 [45]
TSS reference:	PSTN-SIP-SIP/Supplementary_services/CFU	
Configuration:	User B is provided with CFU ("Served user allows the presentation of forwarded to URI to originating user in diversion notification" = Yes, "diverting number is released to the diverted-to user" = No, "served user receives notification that the call has been forwarded" = no).	
Selection criteria:	Call forwarding by the network Call forwarding unconditional supported CF Notifications supported	
Test purpose:	Ensure that when user A calls user B, the call is forwarded to user C which is not informed of the forwarding number (user B has presentation not allowed). User B is not notified of call diversion	
PSTN Parameter values:		
SIP Parameter values:	Dial string parameters options=PIXI PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and pre a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)	
Comments:		

PSS_XXSSCFU 11	PSTN reference to:	NGN reference to: TS 183 004 [45]
TSS reference:	PSTN-SIP-SIP/Supplementary_se	ervices/CFU
Configuration:	The user B is in network N2 and is	s provided with CFU
Selection criteria:	Call forwarding by the network Call forwarding unconditional sup	ported
Test purpose:	To verify that a call is released co User A calls user B, the call is for	rrectly if CFU was not successful . warded to user C who is busy.
PSTN Parameter values:		
SIP Parameter values:	Dial string parameters options=PI PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and pi a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)	
Comments:		

PSS_XXSSCFU 12	PSTN reference to:	NGN reference to: TS 183 004 [45]
TSS reference:	PSTN-SIP-SIP/Supplementary_se	rvices/CFU
Configuration:	The user B is in network N2 and is	provided with CFU
Selection criteria:	Call forwarding by the network	
	Call forwarding unconditional supp	
	User B has activated the CALL DE	FLECTION service
Test purpose:	To verify that a call is released cor	
	User A calls user B, the call is forw	arded to user C who is busy .
PSTN Parameter values:		
SIP Parameter values:	Dial string parameters options=PIXIT	
	PIXIT for supported header:	
	Case a) no 100 rel	
	Case b) Supported: 100 rel	
	Case c) Supported: 100 rel and precondition	
	a = line (PIXIT)	
	b = line (PIXIT)	
	m = line (PIXIT)	
Comments:		

PSSP_XXSSCFU 13	PSTN reference to:	NGN reference to: TS 183 004 [45]
TSS reference:	PSTN-SIP-SIP-PSTN/Supplementar	
Configuration:		twork N1. The user B is in network N2 and is provided
Selection criteria:	Call forwarding busy by the network Call forwarding busy supported	
Test purpose:	Ensure that when user A calls user B, the call is forwarded to user C and D. User D forwards the call to back to user B. Ensure that the call is released.	
PSTN Parameter		
values:		
SIP Parameter values:	Dial string parameters options=PIXIT	
	PIXIT for supported header:	
	Case a) no 100 rel	
	Case b) Supported: 100 rel	
	Case c) Supported: 100 rel and precondition	
	a = line (PIXIT)	
	b = line (PIXIT)	
	m = line (PIXIT)	
Comments:		

PSSP_XXSSCFB 14	PSTN reference to:	NGN reference to: TS 183 004 [45]
TSS reference:	PSTN-SIP-SIP-PSTN/Supplementar	
Selection criteria:	The user is A in network N1. The user B and the user C are in network N2. User B is provided with CFU. User E forwards the call to back to user B. Network option: hop counter supported N<5	
Test purpose:	Ensure that when user A calls user B, the call is forwarded to user C, C to D. User D forwards the call to back to user B. User D forwards the call to back to user B. Ensure that the call is released.	
	Dial string parameters options=PIXITPIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and prec a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)	
Comments:	,	

6.3.2.4 CFB

PSP_XXSSCFB 01	PSTN reference to:	NGN reference to: TS 183 004 [45]
TSS reference:	PSTN-SIP-PSTN/Supplementary_se	ervices/CFB
Configuration:	The user A and the user C are in ne with CFB	twork N1. The user B is in network N2 and is provided
Selection criteria:	Call forwarding by the network Call forwarding busy supported	
Test purpose:	Ensure that when user A calls user	B, the call is forwarded to user C.
PSTN Parameter:		
values:		
SIP Parameter values:	Dial string parameters options=PIXIT	
	PIXIT for supported header:	
	Case a) no 100 rel	
	Case b) Supported: 100 rel	
	Case c) Supported: 100 rel and pred	condition
	a = line (PIXIT)	
	b = line (PIXIT)	
	m = line (PIXIT)	
Comments:		

PSP_XXSSCFB 02	PSTN reference to:	NGN reference to: TS 183 004 [45]
TSS reference:	PSTN-SIP-PSTN/Supplementary	. .
Configuration:	The user B is in network N2 and	is provided with CFB
Selection criteria:	Call forwarding by the network	
	Call forwarding busy supported	
	user C is user determined user b	
Test purpose:		orrectly if CFB was not successful.
	User A calls user B, the call is for	warded to user C who is busy.
PSTN Parameter		
values:		
SIP Parameter values:		
	b = line (PIXIT)	
	m = line (PIXIT)	
	Case a) no 100 rel	
	Case b) Supported: 100 rel	
	Case c) Supported: 100 rel and p	precondition
Comments:		

PSS_XXSSCFB 03	PSTN reference to:	NGN reference to: TS 183 004 [45]
TSS reference:	PSTN-SIP-SIP/Supplementary_serv	rices/CFB
Configuration:	The user B is provided with CFB	
Selection criteria:	Call forwarding by the network	
	Call forwarding busy supported	
Test purpose:	Ensure that when user A calls user	B, the call is forwarded to user C.
PSTN Parameter		
values:		
SIP Parameter values:	Dial string parameters options=PIXIT	
	PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and pred a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)	condition
Comments:		

PSS_XXSSCFB 04	PSTN reference to:	NGN reference to: TS 183 004 [45]
TSS reference:	PSTN-SIP-SIP/Supplementary_serv	
Configuration:	The user B is provided with CFB ("Served user allows the presentation of forwarded to URI to originating user in diversion notification" = Yes, "diverting number is released to the diverted-to user" = Yes, "served user receives notification that the call has been forwarded" = Yes).	
Selection criteria:	Call forwarding by the network Call forwarding busy supported CF Notifications supported	
Test purpose:	Ensure that when user A calls user B, the call is forwarded to user C which is informed of the forwarding number (user B has presentation allowed). User B is notified of call diversion.	
PSTN Parameter values:		
	Dial string parameters options=PIXI PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and pre a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)	
Comments:	, , ,	

PSS_XXSSCFB 05	PSTN reference to:	NGN reference to:	
		TS 183 004 [45]	
TSS reference:	PSTN-SIP-SIP/Supplementary_serv	vices/CFB	
Configuration:	The user B is provided with CFB ("Served user allows the presentation of forwarded to URI to originating user in diversion notification" = Yes, "diverting number is released to the diverted-to user" = Yes, "served user receives notification that the call has been forwarded" = No).		
Selection criteria:	Call forwarding by the network Call forwarding busy supported		
	CF Notifications supported		
Test purpose:	Ensure that when user A calls user B, the call is forwarded to user C which is informed of the forwarding number (user B has presentation allowed). User B is not notified of call diversion.		
PSTN Parameter			
values:			
SIP Parameter values:	Dial string parameters options=PIXIT		
	PIXIT for supported header:		
	Case a) no 100 rel		
	Case b) Supported: 100 rel		
	Case c) Supported: 100 rel and precondition		
	a = line (PIXIT)		
	b = line (PIXIT)		
	m = line (PIXIT)		
Comments:			

PSS_XXSSCFB 06	PSTN reference to:	NGN reference to: TS 183 004 [45]
TSS reference:	PSTN-SIP-SIP/Supplementary_services/CFB	
Configuration:	User B is provided with CFB ("Served user allows the presentation of forwarded to URI to originating user in diversion notification" = Yes, "diverting number is released to the diverted-to user" = No, "served user receives notification that the call has been forwarded" = no).	
Selection criteria:	Call forwarding by the network Call forwarding busy supported CF Notifications supported	
Test purpose:	Ensure that when user A calls user B, the call is forwarded to user C which is not informed of the forwarding number (user B has presentation not allowed). User B is not notified of call diversion	
PSTN Parameter values:		
SIP Parameter values:	Dial string parameters options=PIXI PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and pre a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)	
Comments:	- \ /	

PSS_XXSSCFB 07	PSTN reference to:	NGN reference to: TS 183 004 [45]
TSS reference:	PSTN-SIP-SIP/Supplementary serv	• -
Configuration:	The user B is in network N2 and is p	
Selection criteria:	Call forwarding by the network	
	Call forwarding busy supported	
Test purpose:	To verify that a call is released corre	ectly if CFB was not successful.
	User A calls user B, the call is forwa	rded to user C who is user determined user busy.
PSTN Parameter		
values:		
SIP Parameter values:	Dial string parameters options=PIXIT	
	PIXIT for supported header: Case a) no 100 rel	
	Case b) Supported: 100 rel	
	Case c) Supported: 100 rel and precondition	
	a = line (PIXIT)	
	b = line (PIXIT)	
	m = line (PIXIT)	
Comments:		

PSSP_XXSSCFB 08	PSTN reference to:	NGN reference to:
		TS 183 004 [45]
TSS reference:	PSTN-SIP-SIP-SIP/Supplementary_	services/CFB
Configuration:	The user A and the user C are in new with CFU. User D forwards the call to	twork N1. The user B is in network N2 and is provided b back to user B.
Selection criteria:	Call forwarding busy by the network Call forwarding busy supported	
Test purpose:		B, the call is forwarded to user C and D. ser B. Ensure that the call is released.
PSTN Parameter		
values:		
SIP Parameter values:	Dial string parameters options=PIXIT	
	PIXIT for supported header:	
	Case a) no 100 rel	
	Case b) Supported: 100 rel	
	Case c) Supported: 100 rel and precondition	
	a = line (PIXIT)	
	b = line (PIXIT)	
	m = line (PIXIT)	
Comments:		

PSSP_XXSSCFB 09	PSTN reference to:	NGN reference to: TS 183 004 [45]
TSS reference:	PSTN-SIP-SIP-PSTN/Supplementar	L 4
Selection criteria:	The user is A in network N1. The user B and the user C are in network N2. User B is provided with CFU. User E forwards the call to back to user B. Network option: hop counter supported N<5	
Test purpose:	Ensure that when user A calls user B, the call is forwarded to user C, C to D. User D forwards the call to back to user B. User D forwards the call to back to user B. Ensure that the call is released.	
SIP Parameter values:	Dial string parameters options=PIXITPIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and prec a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)	
Comments:	,	

6.3.2.5 CFNR

PSP_XXSSCFNR01	PSTN reference to: EN 300 403-1 [i.3],	NGN reference to: TS 183 004 [45]
	clauses 9.2.2, 9.2.4.4, 9.2.5	10 100 00 1[10]
TSS reference:	PSTN-SIP-PSTN/Supplementary_ser	vices/CFNR/
Selection criteria:		vork N1. The user B is in network N2 and is mmunication retention on invocation of diversion
Test purpose:	Ensure that when user A calls user B,	if unanswered, the call is forwarded to user C.
PSTN Parameter values:		
SIP Parameter values:	Dial string parameters options=PIXIT	
	PIXIT for supported header:	
	Case a) no 100 rel	
	Case b) Supported: 100 rel	
	Case c) Supported: 100 rel and precondition	
	a = line (PIXIT)	
	b = line (PIXIT)	
	m = line (PIXIT)	
Comments:		

PSP_XXSSCFNR02	PSTN reference to:	NGN reference to:
TSS reference:	TS 183 004 [45] PSTN-SIP-PSTN/Supplementary_services/CFNR/	
Configuration:	The user A and the user C are in network N1. The user B is provided with CFNR, Served user communication retention on invocation of diversion (forwarding or deflection) = Yes	
Selection criteria:	CFNR supported CF Notifications supported	
Test purpose:	Ensure that when user A calls user B, if unanswered, the call is forwarded to user C The diverting user accepts the communication after sending the INVITE request, the communication path towards the diverted to user shall be released according to the rules and procedures in RFC 3261 [28].	
PSTN Parameter values:		
SIP Parameter values:	Dial string parameters options=PIXIT	
	PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and pre a = line (PIXIT) b = line (PIXIT)	econdition
	m = line (PIXIT)	
Comments:		

PSP_XXSSCFNR 03	PSTN reference to:	NGN reference to:
	EN 300 207-1 [i.5],	TS 183 004 [45]
	clauses 6.1, 9.2.2, 9.2.5	
TSS reference:	PSTN-SIP-PSTN/Supplementary_set	rvices/CFNR
Configuration:	The user B is in network N2 and is pr	
		n on invocation of diversion (forwarding or
	deflection) = No [Clear call to the serv	ved user on invocation of call diversion],
		when forwarding is rejected at forwarded-to
	user = No action at the forwarding us	er.
Selection criteria:	Call forwarding by the network	
	Call forwarding unconditional support	ted
	user C is user determined user busy	
Test purpose:	To verify that a call is released correct	
	User A calls user B, the call is forwarded to user C who is busy.	
PSTN Parameter values:		
SIP Parameter values:	Dial string parameters options=PIXIT	
	PIXIT for supported header:	
	Case a) no 100 rel	
	Case b) Supported: 100 rel	
	Case c) Supported: 100 rel and precondition	
	a = line (PIXIT)	
	b = line (PIXIT)	
	m = line (PIXIT)	
Comments:		

PSP_XXSSCFNR 04	PSTN reference to:	NGN reference to: TS 183 004 [45]
TSS reference:	PSTN-SIP-PSTN/Supplementa	• 1
Configuration:	The user B is in network N2 an	d is provided with CFNR Served user communication sion (forwarding or deflection) = Yes.
Selection criteria:	Call forwarding by the network Call forwarding unconditional s user C is user determined user	
Test purpose:	User A calls user B, the call is busy. The forwarding user Use	forwarded to user C who is network determined user r B continues to alert.
PSTN Parameter values:		
SIP Parameter values:	Dial string parameters options=PIXIT	
	PIXIT for supported header:	
	Case a) no 100 rel	
	Case b) Supported: 100 rel	
	Case c) Supported: 100 rel and	d precondition
	a = line (PIXIT)	
	b = line (PIXIT)	
	m = line (PIXIT)	
Comments:		

PSP_XXSSCFNR 05	PSTN reference to:	NGN reference to:
		TS 183 004 [45]
TSS reference:	PSTN-SIP-PSTN/Supplementa	ry_services/CFNR
Configuration:		d is provided with CFNR Served user communication sion (forwarding or deflection) = Yes.
Selection criteria:	Call forwarding by the network Call forwarding unconditional s	upported
	user C is user determined user	busy
Test purpose:	User A calls user B, the call is busy. The forwarding user Use	forwarded to user C who is user determined user r B continues to alert.
PSTN Parameter values:	,	
SIP Parameter values:	Dial string parameters options=PIXIT	
	PIXIT for supported header:	
	Case a) no 100 rel	
	Case b) Supported: 100 rel	
	Case c) Supported: 100 rel and	d precondition
	a = line (PIXIT)	
	b = line (PIXIT)	
	m = line (PIXIT)	
Comments:		

PSPP_XXSSCFNR 06	PSTN reference to:	NGN reference to: TS 183 004 [45]
TSS reference:	PSTN-SIP-PSTN-PSTN/Supplen	nentary_services/CFNR
Configuration:	The user A and the user C are in provided with CFNR. User D forw	network N1. The user B is in network N2 and is vards the call to back to user B.
Selection criteria:	Call forwarding by the network CFNR supported	
Test purpose:	Ensure that when user A calls user B, the call is forwarded to user C and D. User D forwards the call to back to user B. Ensure that the call is released.	
PSTN Parameter values:		
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header:	
	Case a) no 100 rel	
	Case b) Supported: 100 rel	
	Case c) Supported: 100 rel and p	precondition
	a = line (PIXIT)	
	b = line (PIXIT)	
	m = line (PIXIT)	
Comments:		

PSS_XXSSCFNR 07	PSTN reference to:	NGN reference to:
	EN 300 207-1 [i.5]	TS 183 004 [45]
	clauses 6.1, 9.2.2, 9.2.5	
TSS reference:	PSTN-SIP-SIP/Supplementary_servi	ces/CFNR
Configuration:	The user B is provided with CFNR.	
	Served user communication retention	n on invocation of diversion (forwarding or
	deflection) = No	
Selection criteria:	Call forwarding by the network	
	CFNR supported	
Test purpose:	Ensure that when user A calls user B	, the call is forwarded to user C.
PSTN Parameter values:		
SIP Parameter values:	Dial string parameters options=PIXIT	
	PIXIT for supported header:	
	Case a) no 100 rel	
	Case b) Supported: 100 rel	
	Case c) Supported: 100 rel and precondition	
	a = line (PIXIT)	
	b = line (PIXIT)	
	m = line (PIXIT)	
Comments:		

PSS_XXSSCFNR 08	PSTN reference to:	NGN reference to: TS 183 004 [45]
TSS reference:	PSTN-SIP-SIP/Supplementary_services/CFNR	
Configuration:	The user B is provided with CFN	
	Served user communication rete	ntion on invocation of diversion (forwarding or
	deflection) = Yes	
Selection criteria:	Call forwarding by the network	
	CFNR supported	
Test purpose:		ser B, if unanswered, the call is forwarded to user C
		ommunication after sending the INVITE request, the
		diverted to user shall be released according to the
DOTNI D	rules and procedures in RFC 326	51 [28].
PSTN Parameter values:		
SIP Parameter values:	Dial string parameters options=F	PIXII
	PIXIT for supported header:	
	Case a) no 100 rel	
	Case b) Supported: 100 rel	
	Case c) Supported: 100 rel and I	precondition
	a = line (PIXIT)	
	b = line (PIXIT)	
	m = line (PIXIT)	
Comments:		

PSS_XXSSCFNR 09	PSTN reference to:	NGN reference to: TS 183 004 [45]
TSS reference:	PSTN-SIP-SIP/Supplementary_s	services/CFNR
Configuration:	The user B is provided with CFN	R
Selection criteria:	User B has activated the CALL DEFINE Supported	DEFLECTION service
Test purpose:	Ensure that when user A calls us	ser B, the call is forwarded to user C.
PSTN Parameter values:		
SIP Parameter values:	Dial string parameters options=F PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and p	
	a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)	
Comments:		

PSS_XXSSCFNR 10	PSTN reference to:	NGN reference to: TS 183 004 [45]	
TSS reference:	PSTN-SIP-SIP/Supplementary	_services/CFNR	
Configuration:	The user B is in network N2 and is provided with CFNR Served user communication retention on invocation of diversion (forwarding or		
		he served user on invocation of call diversion], Served when forwarding is rejected at forwarded-to user = No	
Selection criteria:		Call forwarding by the network Call forwarding unconditional supported	
Test purpose:	To verify that a call is released correctly if CFNR was not successful . User A calls user B, the call is forwarded to user C who is user determined user busy.		
PSTN Parameter values:			
SIP Parameter values:	Dial string parameters options=	=PIXIT	
	PIXIT for supported header:		
Case a) no 100 rel			
	Case b) Supported: 100 rel		
	Case c) Supported: 100 rel and precondition		
	a = line (PIXIT)		
	b = line (PIXIT)		
	m = line (PIXIT)		
Comments:			

PSS_XXSSCFNR 11	PSTN reference to:	NGN reference to:
		TS 183 004 [45]
TSS reference:	PSTN-SIP-SIP/Supplementary	
Configuration:	The user B is in network N2 an	
	Served user communication re-	tention on invocation of diversion (forwarding or
	deflection) = No [Clear call to the	ne served user on invocation of call diversion], Served
	user communication retention v	when forwarding is rejected at forwarded-to user = No
	action at the forwarding user).	
Selection criteria:	Call forwarding by the network	
	Call forwarding unconditional s	upported
Test purpose:	To verify that a call is released	correctly if CFNR was not successful.
	User A calls user B, the call is	forwarded to user C who is network determined user
	busy.	
PSTN Parameter values:		
SIP Parameter values:	Dial string parameters options=	-PIXIT
	PIXIT for supported header:	
	Case a) no 100 rel	
	Case b) Supported: 100 rel	
	Case c) Supported: 100 rel and precondition	
	a = line (PIXIT)	
	b = line (PIXIT)	
	m = line (PIXIT)	
Comments:		

PSS_XXSSCFNR 12	PSTN reference to:	NGN reference to: TS 183 004 [45]	
TSS reference:	PSTN-SIP-SIP/Supplementary	_services/CFNR	
Configuration:	The user A and the user C are in network N1. The user B is in network N2 and is provided with CFNR.		
	deflection) = Yes.	tention on invocation of diversion (forwarding or	
Selection criteria:	Call forwarding by the network CFNR supported	Call forwarding by the network CFNR supported	
Test purpose:	User A calls user B, the call is forwarded to user C who is user determined user busy. The forwarding user User B continues to alert.		
PSTN Parameter values:			
SIP Parameter values:	Dial string parameters options=PIXIT		
	PIXIT for supported header:		
	Case a) no 100 rel		
	Case b) Supported: 100 rel		
Case c) Supported: 100 rel and precondition		d precondition	
	a = line (PIXIT)		
	b = line (PIXIT) m = line (PIXIT)		
Comments:			

PSS_XXSSCFNR 13	PSTN reference to:	NGN reference to:
TSS reference:	PSTN-SIP-SIP/Supplementary_services/CFNR	
Configuration:	The user A and the user C are in	
	Served user communication rete	ntion on invocation of diversion (forwarding or
Colontina pritoria:	deflection) = Yes.	
Selection criteria:	Call forwarding by the network Call forwarding unconditional sup	pported
Test purpose:		rwarded to user C who is network determined user
	busy. The forwarding user User I	3 continues to alert.
PSTN Parameter values:		
SIP Parameter values:	Dial string parameters options=PIXIT	
	PIXIT for supported header:	
	Case a) no 100 rel	
	Case b) Supported: 100 rel	
	Case c) Supported: 100 rel and precondition	
	a = line (PIXIT)	
	b = line (PIXIT)	
	m = line (PIXIT)	
Comments:		

PSPP_XXSSCFNR 14	PSTN reference to:	NGN reference to:
		TS 183 004 [45]
TSS reference:	PSTN-SIP-PSTN-PSTN/Supplen	nentary_services/CFNR
Configuration:	The user A and the user C are in	network N1. The user B is in network N2 and is
	provided with CFNR. User D forw	vards the call to back to user B.
Selection criteria:	Call forwarding by the network	
	Call forwarding unconditional sur	pported
Test purpose:	Ensure that when user A calls us	er B, the call is forwarded to user C and D.
	User D forwards the call to back	to user B. Ensure that the call is released.
PSTN Parameter values:		
SIP Parameter values:	Dial string parameters options=PIXIT	
	PIXIT for supported header:	
	Case a) no 100 rel	
	Case b) Supported: 100 rel	
	Case c) Supported: 100 rel and p	precondition
	II (DI)(IT)	
	a = line (PIXIT)	
	b = line (PIXIT)	
_	m = line (PIXIT)	
Comments:		

6.3.2.6 CFNL

PSP_XXSSCFNL 01	PSTN reference to:	NGN reference to:			
		TS 183 004 [45]			
TSS reference:	PSTN-SIP-PSTN/Supplementary_	_services/CFNL			
Configuration:	The user A and the user C are in network N1. The user B is in network N2 and is provided with CFNL				
Selection criteria:	Call forwarding by the network				
	CFNL supported				
Test purpose:	Ensure that when user A calls user B, the call is forwarded to user C.				
PSTN Parameter values:					
SIP Parameter values:					
Comments:					

PSP_XXSSCFNL 02	PSTN reference to:	NGN reference to:		
		TS 183 004 [45]		
TSS reference:	PSTN-SIP-PSTN/Supplementary_	services/CFNL		
Configuration:	The user B is in network N2 and is	provided with CFNL		
Selection criteria:	Call forwarding by the network			
	CFNL supported			
	user C is user determined user but			
Test purpose:		rectly if CFNL was not successful.		
	User A calls user B, the call is forw	varded to user C who is user determined user busy.		
PSTN Parameter values:				
SIP Parameter values:				
Comments:				

PSP_XXSSCFNL 03	PSTN reference to:	NGN reference to:			
		TS 183 004 [45]			
TSS reference:	PSTN-SIP-PSTN/Supplementary_s	ervices/CFNL			
Configuration:	The user B is in network N2 and is	provided with CFNL			
Selection criteria:	Call forwarding by the network				
	CFNL supported				
	user C is network determined user	busy			
Test purpose:	To verify that a call is released correctly if CFNL was not successful.				
	User A calls user B, the call is forwarded to user C who is network determined user busy.				
	User A is notified of call diversion and user C is informed of the forwarding number (user				
	B has presentation allowed).				
PSTN Parameter					
values:					
SIP Parameter values:					
Comments					

PSS_XXSSCFNL 04	PSTN reference to:	NGN reference to: TS 183 004 [45]
TSS reference:	PSTN-SIP-SIP/Supplementary_se	b 4
Configuration:	The user B is provided with CFNL	
Selection criteria:	Call forwarding by the network CFNL supported	
Test purpose:	Ensure that when user A calls use	er B, the call is forwarded to user C.
PSTN Parameter		
values:		
SIP Parameter values:	a = line (PIXIT)	
	b = line (PIXIT)	
	m = line (PIXIT)	
	Case a) no 100 rel	
	Case b) Supported: 100 rel	
	Case c) Supported: 100 rel and pr	recondition
Comments:		

PSS_XXSSCFNL 05	PSTN reference to:	NGN reference to: TS 183 004 [45]				
TSS reference:	PSTN-SIP-SIP/Supplementary_s	ervices/CFNL				
Configuration:	The user B is in network N2 and i	s provided with CFNL				
Selection criteria:	Call forwarding by the network Call forwarding unconditional sup	ported				
Test purpose:		To verify that a call is released correctly if CFNL was not successful . User A calls user B, the call is forwarded to user C who is user determined user busy.				
PSTN Parameter						
values:						
SIP Parameter values:	a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)					
	Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and p	recondition				
Comments:						

PSS_XXSSCFNL 06	PSTN reference to: EN 300 207-1 [i.5],	NGN reference to: TS 183 004 [45]				
TSS reference:	clauses 6.1, 9.2.2, 9.2.5 PSTN-SIP-SIP/Supplementary_services/CFNL					
Configuration:	The user B is in network N2 and is pr					
Selection criteria:	Call forwarding by the network Call forwarding unconditional support					
Test purpose:	To verify that a call is released correct User A calls user B, the call is forwar busy.	etly if CFNL was not successful. ded to user C who is network determined user				
PSTN Parameter values:						
SIP Parameter values:	a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)					
	Case a) no 100 rel					
	Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition					
Comments:						

6.4 Test purposes for SIP-PSTN

6.4.1 Test purposes for SIP-PSTN, Basic call

6.4.1.1 Test purposes for SIP-PSTN, Basic call, Successful

SP_AU_01	PSTN reference to: EN 300 899-1 [23], clause 3.1.1	NGN reference to: Q.1912.5 [51], clause 6.1.3			
TSS reference:	SIP-PSTN /Basic_call/Successful/3	,1 kHz audio			
Selection criteria:					
Test purpose:	Ensure that call establishment and the mapping of the parameters defined in table 9 between INVITE message and the PSTN is performed correctly. Ensure that in the confirmed state the voice transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters).				
SIP Parameter values:	a = line (PIXIT) b = line (PIXIT) m = line (PIXIT) Case a) no 100 rel Case b) Supported: 100 rel				
	Case c) Supported: 100 rel and precondition				
Comments:	In the Request-URI a sip: URI with the user=phone parameter, and the user info part of that URI is an E.164 number encoded as specified by the telephone-subscriber rule of RFC 3966 [26].				

SP_AU_02	PSTN reference to: EN 300 899-1 [23],	NGN reference to: Q.1912.5 [51], clause 6.1.3		
	clause 3.1.1	4.1012.0 [01], olddod 0.110		
TSS reference:	SIP-PSTN/Basic_call/Successful/3,	1 kHz audio		
Selection criteria:	FAX G3			
Test purpose:	Ensure that call establishment and the mapping of the defined parameters between INVITE message and PSTN is performed correctly Ensure that in the active call state (N10) the voice transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters).			
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line Based on T.38. b = line AS: 64 m = line: udptl: T38			
Comments:	In the Request-URI a sip: URI with the user=phone parameter, and the user info part of that URI is an E.164 number encoded as specified by the telephone-subscriber rule of RFC 3966 [26].			

SP_AU_03	PSTN reference to: EN 300 899-1 [23], clause 3.1.1	NGN reference to: Q.1912.5 [51], clause 6.11		
TSS reference:	SIP-PSTN/Basic_call/Successful/3,	1 kHz audio		
Selection criteria:				
Test purpose:	Ensure that the call establishment and the call clearing procedure are performed correctly when the calling user clears after answering with a BYE message. Ensure that in the confirmed state the transfer of tone or announcement on the media channel is performed correctly. In case when the parameter in the SDP rtpmap: <dynamic-pt> is used the codecs in table 10 applies.</dynamic-pt>			
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)			
Comments:	In the Request-URI a sip: URI with the user=phone parameter, and the user info part of that URI is an E.164 number encoded as specified by the telephone-subscriber rule of RFC 3966 [26].			

SP_AU_04	PSTN reference to: EN 300 899-1 [23],	NGN reference to: Q.1912.5 [51], clause 6.11
	clause 3.1.1	tarre series (e.g., e.a.a.e.
TSS reference:	SIP-PSTN/Basic_call/Successful/3,	1 kHz audio
Selection criteria:		
Test purpose:	Ensure that the call clearing procedule clears after answering The calling u	ure is performed correctly when the called user user shall receive a BYE message.
SIP Parameter values:	Dial string parameters options=PIX PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and pre a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)	
Comments:	·	the user=phone parameter, and the user info part of ed as specified by the telephone-subscriber rule of

Table 9: Values for test purposes SP_AU_01 to SP_AU_04

m= line		b= line	a= line			
VA	<media></media>	<transport></transport>	<fmt-list></fmt-list>	<modifier>: <bandwidth-value> (see note)</bandwidth-value></modifier>	rtpmap: <dynamic-pt> <encoding name="">/ <clock rate="">[/encoding parameters></clock></encoding></dynamic-pt>	
VA_01	audio	RTP/AVP	0	N/A or up to 64 kbit/s	N/A	
VA_02	audio	RTP/AVP	Dynamic PT	N/A or up to 64 kbit/s	rtpmap: <dynamic-pt> PCMU/8000</dynamic-pt>	
VA_03	audio	RTP/AVP	8	N/A or up to 64 kbit/s	N/A	
VA_04	audio	RTP/AVP	Dynamic PT	N/A or up to 64 kbit/s	rtpmap: <dynamic-pt> PCMA/8000</dynamic-pt>	
VA_05	image	Udptl	t38	N/A or up to 64 kbit/s	Based on T.38	
VA_06	image	Tcptl	t38	N/A or up to 64 kbit/s	Based on T.38	
NOTE: <b< td=""><td colspan="6">NOTE: <bandwidth value=""> for <modifier> of AS is evaluated to be B kbit/s.</modifier></bandwidth></td></b<>	NOTE: <bandwidth value=""> for <modifier> of AS is evaluated to be B kbit/s.</modifier></bandwidth>					

Table 10: Values for test purposes SP_AU_01 and SP_AU_04

PT	Encoding	media type	clock rate	channels
0	PCMU	Α	8,000	1
3	GSM	Α	8,000	1
4	G723	Α	8,000	1
5	DVI4	Α	8,000	1
7	LPC	Α	8,000	1
8	PCMA	Α	8,000	1
9	G722	Α	8,000	1
12	QCELP	Α	8,000	1
13	CN	Α	8,000	1
18	G729	Α	8,000	1
Dyn	G726-40	Α	8,000	1
Dyn	G726-32	Α	8,000	1
Dyn	G726-24	Α	8,000	1
Dyn	G726-16	Α	8,000	1
Dyn	G729D	Α	8,000	1
Dyn	G729E	Α	8,000	1
Dyn	GSM-EFR	Α	8,000	1
	0 3 4 5 7 8 9 12 13 18 Dyn Dyn Dyn Dyn Dyn	0 PCMU 3 GSM 4 G723 5 DVI4 7 LPC 8 PCMA 9 G722 12 QCELP 13 CN 18 G729 Dyn G726-40 Dyn G726-32 Dyn G726-24 Dyn G726-16 Dyn G729D Dyn G729E	0 PCMU A 3 GSM A 4 G723 A 5 DVI4 A 7 LPC A 8 PCMA A 9 G722 A 12 QCELP A 13 CN A 18 G729 A Dyn G726-40 A Dyn G726-32 A Dyn G726-24 A Dyn G726-16 A Dyn G729D A Dyn G729E A	0 PCMU A 8,000 3 GSM A 8,000 4 G723 A 8,000 5 DVI4 A 8,000 7 LPC A 8,000 8 PCMA A 8,000 9 G722 A 8,000 12 QCELP A 8,000 13 CN A 8,000 18 G729 A 8,000 Dyn G726-40 A 8,000 Dyn G726-32 A 8,000 Dyn G726-24 A 8,000 Dyn G726-16 A 8,000 Dyn G729D A 8,000 Dyn G729E A 8,000

6.4.1.2 Test purposes for SIP-PSTN, Basic call, Unsuccessful

	Unsuccessful		

SP_XX_U01		NGN reference to: Q.1912.5 [51]
TSS reference:	SIP-PSTN/Basic_call/Unsuccessful	
Selection criteria:		
Test purpose:		cated number, the network initiate call clearing to the nessage. If the Reason Header field is implemented the Reason Header field.
SIP Parameter values:	Dial string parameters options=PIX PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and pre a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)	
Comments:		the user=phone parameter, and the user info part of led as specified by the telephone-subscriber rule of

SP_XX_U02		NGN reference to: Q.1912.5 [51]
TSS reference:	SIP-PSTN/Basic_call/Unsuccessful	-
Selection criteria:		
Test purpose:	initiates call clearing to the calling u	I when there is no route to destination . The network ser with a 503 Service unavailable message. If the d the cause value # 3 should be set in the Reason
SIP Parameter values:	a = line (PIXIT) b = line (PIXIT) m = line (PIXIT) Case a) no 100 rel Case b) Supported: 100 rel	
	Case c) Supported: 100 rel and pre	
Comments:		the user=phone parameter, and the user info part of ed as specified by the telephone-subscriber rule of

SP_XX_U03		NGN reference to: Q.1912.5 [51]
TSS reference:	SIP-PSTN/Basic_call/Unsuccessful	
Selection criteria:		
Test purpose:	Ensure that, when the called user calling user with a 486 Busy Here n	is busy the network initiates call clearing to the nessage.
SIP Parameter values:	Dial string parameters options=PIXI PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and pre a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)	
Comments:		the user=phone parameter, and the user info part of ed as specified by the telephone-subscriber rule of

SP_XX_U04		NGN reference to: Q.1912.5 [51]	
TSS reference:	SIP-PSTN/Basic_call/Unsuccessful		
Selection criteria:			
Test purpose:	Ensure that when there is no answer from the called user (but user alerted), the network initiate call clearing to the calling user with a CANCEL or 408 Request Timeout message.		
SIP Parameter values:	Dial string parameters options=PIX PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and pre a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)		
Comments:		the user=phone parameter, and the user info part of led as specified by the telephone-subscriber rule of	

SP_XX_U05		NGN reference to: Q.1912.5 [51]
TSS reference:	SIP-PSTN/Basic_call/Unsuccessful	
Selection criteria:		
Test purpose:		when the called number is incomplete. The network ser with final response code in SIP_MESSAGE_VA. to the Reason Header field.
SIP Parameter values:	Dial string parameters options=PIXI PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and pred a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)	
Comments:		he user=phone parameter, and the user info part of ed as specified by the telephone-subscriber rule of

	Test case variable for test case SP_XX_U05				
	SIP_MESSAGE_VA Unsuccessful destination (Address incomplete)				
VA_1	404 Not Found	"Unassigned (unallocated) number"			
VA_2	503 Service unavailable	"No route to destination"			
VA_3	410 Gone	"Number changed"			
VA_4	484 Address Incomplete	"Invalid number format (incomplete number")			

SP_XX_U06		NGN reference to: Q.1912.5 [51]
TSS reference:	SIP-PSTN/Basic_call/Unsuccessful	
Selection criteria:		
Test purpose:	Ensure that the call will be released or BYE before answer from called u	I when the calling user clears the call with a CANCEL user.
SIP Parameter values:	Dial string parameters options=PIX PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and pre a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)	condition
Comments:	· · · · · · · · · · · · · · · · · · ·	the user=phone parameter, and the user info part of ed as specified by the telephone-subscriber rule of

Table 11: Values for test purposes SP_XX_U01 to SP_XX_U06

m= line		b= line	a= line		
VA	<media></media>	<transport></transport>	<fmt-list></fmt-list>	<modifier>: <bandwidth-value> (see note)</bandwidth-value></modifier>	rtpmap: <dynamic-pt> <encoding name="">/ <clock rate="">[/encoding parameters></clock></encoding></dynamic-pt>
VA_01	audio	RTP/AVP	0	N/A or up to 64 kbit/s	N/A
VA_02	audio	RTP/AVP	Dynamic PT	N/A or up to 64 kbit/s	rtpmap: <dynamic-pt> PCMU/8000</dynamic-pt>
VA_03	audio	RTP/AVP	8	N/A or up to 64 kbit/s	N/A
VA_04	audio	RTP/AVP	Dynamic PT	N/A or up to 64 kbit/s	rtpmap: <dynamic-pt> PCMA/8000</dynamic-pt>
VA_05	image	Udptl	t38	N/A or up to 64 kbit/s	Based on T.38
VA_06	image	Tcptl	t38	N/A or up to 64 kbit/s	Based on T.38
NOTE:	<bandwidt< td=""><td>h value> for <m< td=""><td>odifier> of AS</td><td>is evaluated to be B kbi</td><td>t/s.</td></m<></td></bandwidt<>	h value> for <m< td=""><td>odifier> of AS</td><td>is evaluated to be B kbi</td><td>t/s.</td></m<>	odifier> of AS	is evaluated to be B kbi	t/s.

Table 12: Values for test purposes SP_XX_U01 to SP_XX_U06

VARIABLE	PT	Encoding	media type	clock rate	channels
VA_01	0	PCMU	Α	8 000	1
VA_02	3	GSM	Α	8 000	1
VA_03	4	G723	Α	8 000	1
VA_04	5	DVI4	Α	8 000	1
VA_05	7	LPC	Α	8 000	1
VA_06	8	PCMA	Α	8 000	1
VA_07	9	G722	Α	8 000	1
VA_08	12	QCELP	Α	8 000	1
VA_09	13	CN	Α	8 000	1
VA_10	18	G729	Α	8 000	1
VA_11	Dyn	G726-40	Α	8 000	1
VA_12	Dyn	G726-32	Α	8 000	1
VA_13	Dyn	G726-24	Α	8 000	1
VA_14	Dyn	G726-16	Α	8 000	1
VA_15	Dyn	G729D	Α	8 000	1
VA_16	Dyn	G729E	Α	8 000	1
VA_17	Dyn	GSM-EFR	A	8 000	1

6.4.2 Test purposes for SIP - PSTN Supplementary services

6.4.2.1 OIP/ CLIP

SP_XXSSOIP01	PSTN reference to:		NGN reference to:	
	EN 300 001 [i.12],		912.5 [51], clause 6.1.3.6	
	ETS 300 648 [i.13],		83 001 [49], clause 6.1.3.6	
	EN 300 659 [i.15]	ES 283	3 027 [48], clause 7.2.3.1.2.6	
TSS reference:	Private Extensions to SIP for Asserted Identity within Trusted Networks			
Selection criteria:				
Test purpose:	Ensure that the SUT in the Idle			
			SIP URI (PIXIT) with an identity in the	
	format of a tel URI has			
	the priv-value compone			
	the SIP From header fit URI has not been received.		I with an identity in the format of a tel	
			e P-Asserted-Identity Header is	
	correctly delivered to the		7 / Nobelied Identity Floader Id	
SIP Parameter	Dial string parameters options=I	PIXIT		
values:				
	PIXIT for supported header:			
	Case a) no 100 rel			
	Case b) Supported: 100 rel			
	Case c) Supported: 100 rel and	precondition		
	a = line (PIXIT)			
	b = line (PIXIT)			
	m = line (PIXIT)			
Comments:				
	SIP	SUT	PSTN	
	INVITE -		Ringing	
	180 Ringing ←		Off Hook	
	200 OK INVITE			
	ACK →			
	BYE →		On hook	
	200 OK BYE ←			

SP_XXSSOIP02	PSTN reference to EN 300 001 [i.12], ETS 300 648 [i.13], EN 300 659 [i.15]	-	NGN reference to: Q.1912.5 [51], clause 6.1.3.6 EN 383 001 [49], clause 6.1.3.6 ES 283 027 [48], clause 7.2.3.1.2.6		
TSS reference:	Private Extensions to SIP for Asserted Identity within Trusted Networks				
Selection criteria:	The user subscribes OIR "	tempora	ry mode" default	"not restricted"	
	No priv value is sent				
_	Special arrangement applie				
Test purpose: SIP Parameter	Ensure that the SUT in the Idle state, on receipt of a INVITE message where the SIP P-Preferred-Identity containing a SIP URI (PIXIT) with an identity in the format of a tel URI has not been received no priv value is received the SIP From header field containing a URI with an identity in the format of a tel URI has been received the Calling Party Number mapped from the From Header is correctly delivered to the called (served) Dial string parameters options=PIXIT				
values:	PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)				
Comments:					
	SIP		SUT	PSTN	
	INVITE	→		Ringing	
	100 Dinging	_		Off Hook	
	3 3	(Off Hook	
		→			
	, (0)(
	BYE	→		On hook	
		(

SP_XXSSOIP03	PSTN reference to:		-	NGN reference to:		
	EN 300 001 [i.12], ETS 300 648 [i.13],			2.5 [51], clause 6.1.3.6 6 001 [49], clause 6.1.3.6		
	EN 300 659 [i.15]			27 [48], clause 7.2.3.1.2.6		
TSS reference:	Private Extensions to SIP for Asserted Identity within Trusted Networks					
Selection criteria:	The user subscribes OIR "to					
Concomon cintonia.	No priv value is sent	op o.a.	,			
	No special arrangement ap	plies				
Test purpose:	Ensure that the SUT in the		e, on receipt of a II	NVITE message where		
				URI (PIXIT) with an identity in the		
	format of a tel URI	l has no	t been received			
	 no priv value is red 	ceived				
			containing a URI v	vith an identity in the format of a tel		
	URI has been rece					
				P-Asserted ID is correctly delivered		
	to the called (serve					
SIP Parameter	Dial string parameters option	ns=PIX	T			
values:	DIVIT for augmented bonder					
	PIXIT for supported header Case a) no 100 rel	•				
	Case b) Supported: 100 rel					
	Case c) Supported: 100 rel		condition			
		aa p	00.10111011			
	a = line (PIXIT)					
	b = line (PIXIT)					
	m = line (PIXIT)					
Comments:						
	SIP	_	SUT	PSTN		
	INVITE → Ringing					
	180 Ringing ← Off Hook 200 OK INVITE ←					
		▼				
	ACK					
	BYE → On hook					
	200 OK BYE					
	ZUU ON DIE					

SP_XXSSOIP04	PSTN reference to: EN 300 001 [i.12],		NGN reference to: 012.5 [51], clause 6.1.3.6		
	ETS 300 648 [i.13], EN 300 659 [i.15]		33 001 [49], clause 6.1.3.6 027 [48], clause 7.2.3.1.2.6		
TSS reference:	Private Extensions to SIP for As				
Selection criteria:	The user subscribes OIR "tempor				
	No priv value is sent	orally initiate decidant			
Test purpose:	Ensure that the SUT in the Idle state, on receipt of a INVITE message where: the SIP P-Preferred-Identity containing a SIP URI (PIXIT) with an identity in the format of a tel URI has not been received no priv value is received the SIP From header field containing a URI with an identity in the format of a tel URI has not been received the Calling Party Number mapped from the P-Asserted-Identity Header is				
	correctly delivered to the		er		
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)				
Comments:					
	SIP	SUT	PSTN		
	INVITE → Ringing				
	180 Ringing ← Off Hook				
	200 OK INVITE				
	BYE →		On hook		
	200 OK BYE ←				

SP_XXSSOIP05	PSTN reference to: EN 300 001 [i.12], ETS 300 648 [i.13], EN 300 659 [i.15]	Q.1912.5 EN 383 00 ES 283 027	N reference to: [51], clause 6.1.3.6 1 [49], clause 6.1.3.6 [48], clause 7.2.3.1.2.6			
TSS reference:	Private Extensions to SIP for Assert					
Selection criteria:	The user subscribes OIR "temporary Special arrangement applies	mode" default "not re	estricted"			
Test purpose:	Ensure that the SUT in the Idle state, on receipt of a INVITE message where: the SIP From header field containing a SIP URI (PIXIT) with an identity in the format of a tel URI has been received the priv-value component is set to "none" the Calling Party Number mapped from the From Header is correctly delivered to the called (served) user					
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)					
Comments:						
	SIP	SUT	PSTN			
	INVITE →		Ringing			
	180 Ringing ← Off Hook					
	200 OK INVITE ←					
	ACK →					
	BYE →		On hook			
	200 OK BYE					

SP_XXSSOIP06	PSTN reference to: EN 300 001 [i.12], ETS 300 648 [i.13], EN 300 659 [i.15]	Q.1912 EN 383	IGN reference to: 2.5 [51], clause 6.1.3.6 001 [49], clause 6.1.3.6 27 [48], clause 7.2.3.1.2.6		
TSS reference:	Private Extensions to SIP for Ass	erted Identity within T	rusted Networks		
Selection criteria:	The user subscribes OIR "tempo No Special arrangement applies	•			
Test purpose:	Ensure that the SUT in the Idle state, on receipt of a INVITE message where: the SIP From header field containing a SIP URI (PIXIT) with an identity in the format of a tel URI has been received the priv-value component is set to "none" the Calling Party Number mapped from the P-Asserted-Identity Header is correctly delivered to the called (served) user				
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)				
Comments:					
	SIP	SUT	PSTN		
	INVITE →		Ringing		
	180 Ringing ← Off Hook 200 OK INVITE ←				
	ACK →				
	BYE →		On hook		
	200 OK BYE				

SP_XXSSOIP07	PSTN reference to: EN 300 001 [i.12], ETS 300 648 [i.13], EN 300 659 [i.15]	Q.1912. EN 383 0 ES 283 027	6N reference to: 5 [51], clause 6.1.3.6 01 [49], clause 6.1.3.6 7 [48], clause 7.2.3.1.2.6			
TSS reference:	Private Extensions to SIP for Ass	erted Identity within Tru	usted Networks			
Selection criteria:	The user subscribes OIR "tempo Special arrangement applies	ary mode" default "not	restricted"			
Test purpose:	Ensure that the SUT in the Idle state, on receipt of a INVITE message where: the SIP From header field containing a SIP URI (PIXIT) with an identity in the format of a tel URI has been received no priv value is received the Calling Party Number mapped from the From Header is correctly delivered to the called (served) user					
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)					
Comments:						
	SIP	SUT	PSTN			
	INVITE →		Ringing			
	180 Ringing ← Off Hook					
	200 OK INVITE ←					
	ACK →	<u> </u>				
	BYE →		On hook			
	200 OK BYE					

SP_XXSSOIP08	PSTN reference to: EN 300 001 [i.12],		NGN reference to: 12.5 [51], clause 6.1.3.6	
	ETS 300 648 [i.13],		3 001 [49], clause 6.1.3.6	
	EN 300 659 [i.15]		027 [48], clause 7.2.3.1.2.6	
TSS reference:	Private Extensions to SIP for A			
Selection criteria:	The user subscribes OIR "temp No Special arrangement applie		not restricted"	
Test purpose:	Ensure that the SUT in the Idle state, on receipt of a INVITE message where: the SIP From header field containing a SIP URI (PIXIT) with an identity in the format of a tel URI has been received no priv value is received the Calling Party Number mapped from the P-Asserted-Identity Header is correctly delivered to the called (served) user			
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)			
Comments:				
	SIP	SUT	PSTN	
	INVITE →		Ringing	
	180 Ringing ← Off Hook			
	200 OK INVITE			
	ACK →			
	BYE →		On hook	
	200 OK BYE ←			

SP_XXSSOIP09	PSTN reference to:	0.46	NGN reference to:		
	EN 300 001 [i.12], ETS 300 648 [i.13],		912.5 [51], clause 6.1.3.6 33 001 [49], clause 6.1.3.6		
	EN 300 659 [i.15]		ES 283 027 [48], clause 7.2.3.1.2.6		
TSS reference:	Private Extensions to SIP for Asserted Identity within Trusted Networks				
Selection criteria:	The user subscribes OIR "tempo				
	Special arrangement applies	•			
Test purpose:	Ensure that the SUT in the Idle state, on receipt of a INVITE message where: the SIP P-Preferred-Identity containing a SIP URI (PIXIT) in the format of a tel URI has not been received the priv-value component is set to "none" the SIP From header field containing a SIP URI (PIXIT) with an identity in the format of a tel URI has been received				
	 the Calling Party Numb to the called (served) to 		From Header is correctly delivered		
SIP Parameter	Dial string parameters options=I	PIXIT			
values:	PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)				
Comments:	202				
	SIP	SUT	PSTN		
	INVITE → Ringing 180 Ringing ← Off Hook				
	180 Ringing				
	ACK →				
	BYE → On hook				
	200 OK BYE ←				

SP_XXSSOIP10	PSTN reference to: EN 300 001 [i.12],	1	reference to: [51], clause 6.1.3.6		
	ETS 300 648 [i.13],		[49], clause 6.1.3.6		
	EN 300 659 [i.15]	ES 283 027 [48], clause 7.2.3.1.2.6			
TSS reference:	Private Extensions to SIP for Ass				
Selection criteria:	The user subscribes OIR "tempor	ary mode" default "not re	estricted"		
	No Special arrangement applies				
Test purpose:	Ensure that the SUT in the Idle st				
	 the SIP P-Preferred-Idea URI has not been received 		I (PIXIT) in the format of a tel		
	the priv-value componer	t is set to "none"			
	the SIP From header fie format of a tel URI has I		PIXIT) with an identity in the		
	the Calling Party Number correctly delivered to the		serted-Identity Header is		
SIP Parameter	Dial string parameters options=PI	XIT			
values:					
	PIXIT for supported header:				
	Case a) no 100 rel				
	Case b) Supported: 100 rel				
	Case c) Supported: 100 rel and p	recondition			
	a = line (PIXIT)				
	b = line (PIXIT)				
	m = line (PIXIT)				
Comments:					
	SIP SUT PSTN				
	INVITE → Ringing				
	180 Ringing ← Off Hook				
	200 OK INVITE				
	ACK →				
	BYE →		On hook		
	BYE → On hook 200 OK BYE ←				
	ZUU UN DIE T				

SP_XXSSOIP11	PSTN reference to: EN 300 001 [i.12], ETS 300 648 [i.13], EN 300 659 [i.15]	Q.191 EN 383	NGN reference to: 2.5 [51], clause 6.1.3.6 3 001 [49], clause 6.1.3.6 3 127 [48], clause 7.2.3.1.2.6		
TSS reference:	Private Extensions to SIP for Ass				
Selection criteria:	The user subscribes OIR "temporary mode" default "not restricted" Special arrangement applies				
Test purpose:	Ensure that the SUT in the Idle state, on receipt of a INVITE message where the SIP P-Preferred-Identity containing a SIP URI (PIXIT) in the format of a tel URI has not been received No priv value is received the SIP From header field containing a SIP URI (PIXIT) with an identity in the format of a tel URI has been received the Calling Party Number mapped from the From Header is correctly delivered				
SIP Parameter values:	to the called (served) user Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)				
Comments:					
	SIP	SUT	PSTN		
	INVITE →		Ringing		
	180 Ringing ← Off Hook				
	200 OK INVITE ←				
	ACK →				
	BYE →		On hook		
	200 OK BYE				

SP_XXSSOIP12	PSTN reference to: EN 300 001 [i.12],		reference to: [51], clause 6.1.3.6	
	ETS 300 648 [i.13],		[49], clause 6.1.3.6	
	EN 300 659 [i.15]	ES 283 027 [48], clause 7.2.3.1.2.6		
TSS reference:	Private Extensions to SIP for Ass			
Selection criteria:	The user subscribes OIR "tempor			
	No Special arrangement applies			
Test purpose:	 Ensure that the SUT in the Idle state, on receipt of a INVITE message where: the SIP P-Preferred-Identity containing a SIP URI (PIXIT) in the format of a tel URI has not been received no priv value is received the SIP From header field containing a SIP URI (PIXIT) with an identity in the 			
	format of a tel URI has I	been received or mapped from the conte	ent of the P-Asserted Header is	
SIP Parameter	Dial string parameters options=P			
values:				
	PIXIT for supported header:			
	Case a) no 100 rel			
	Case b) Supported: 100 rel Case c) Supported: 100 rel and p	racandition		
	Case c) Supported. 100 reliand p	recondition		
	a = line (PIXIT)			
	b = line (PIXIT)			
	m = line (PIXIT)			
Comments:				
	SIP	SUT	PSTN	
	INVITE -		Ringing	
	180 Ringing ←		Off Hook	
	200 OK INVITE			
	ACK →			
	BYE →		On hook	
	200 OK BYE		OTTTIOOK	
	ZOU OR DIL			

SP_XXSSOIP 13	PSTN reference EN 300 001 [i.	12],	Q.1912	GN reference to: 2.5 [51], clause 6.1.3.6	
	ETS 300 648 [i.			001 [49], clause 6.1.3.6	
	EN 300 659 [i.		ES 283 027 [48], clause 7.2.3.1.2.6		
TSS reference:	Private Extensions to SI				
Selection criteria:	The user subscribes OIF				
Test purpose:	 Ensure that the SUT in the Idle state, on receipt of a INVITE message where: the SIP P-Preferred-Identity containing a SIP URI (PIXIT) in the format of a tel URI has been received the priv-value component is set to "none" the SIP From header field containing a SIP URI (PIXIT) not in the format of a tel URI has not been received the Calling Party Number mapped from the P-Asserted-Identity Header is 				
SIP Parameter values:	correctly delivered to the called (served) user Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)				
Comments:	, ,				
	SIP		SUT	PSTN	
	INVITE	→		Ringing	
	180 Ringing	+		Off Hook	
	200 OK INVITE	+			
	ACK	→			
	BYE	→		On hook	
	200 OK BYE	(

SP_XXSSOIP14	PSTN reference to EN 300 001 [i.12], ETS 300 648 [i.13] EN 300 659 [i.15]	,	EN 38 ES 283	NGN reference to: 912.5 [51], clause 6.1.3.6 33 001 [49], clause 6.1.3.6 027 [48], clause 7.2.3.1.2.6
TSS reference:	Private Extensions to SIP to			
Selection criteria:	The user subscribes OIR "		•	
Test purpose:	 Ensure that the SUT in the Idle state, on receipt of a INVITE message where: the SIP P-Preferred-Identity containing a SIP URI (PIXIT) in the format of a tel URI has been received: no priv value is received the SIP From header field containing a SIP URI (PIXIT) in the format of a tel URI has not been received the Calling Party Number mapped from the P-Asserted-Identity Header is correctly delivered to the called (served) user 			
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)			
Comments:				
	SIP		SUT	PSTN
	INVITE	→		Ringing
	180 Ringing	(Off Hook
	200 OK INVITE	(
	ACK	→		
	BYE	→		On hook
	200 OK BYE	(

SP_XXSSOIP15	PSTN reference to:	0.1	NGN reference to:		
	EN 300 001 [i.12], ETS 300 648 [i.13],		912.5 [51], clause 6.1.3.6 83 001 [49], clause 6.1.3.6		
	EN 300 659 [i.15]		3 027 [48], clause 7.2.3.1.2.6		
TSS reference:	Private Extensions to SIP for As				
Selection criteria:	The user subscribes OIR "temp				
	Special arrangement applies	•			
Test purpose:	Ensure that the SUT in the Idle state, on receipt of a INVITE message where the SIP P-Preferred-Identity containing a SIP URI (PIXIT) in the format of a tel URI has been received the priv-value component is set to "none" the SIP From header field containing a SIP URI (PIXIT) with an identity in the format of a tel URI has been received the Calling Party Number mapped from the From Header is correctly delivered				
	to the called (served) to				
SIP Parameter values:	Dial string parameters options=	PIXIT			
	PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)				
Comments:	OID	OUT	DOTN		
	SIP	SUT	PSTN		
	INVITE → 180 Ringing ←		Ringing Off Hook		
	200 OK INVITE		OILLIOOK		
	ACK →				
	BYE → 200 OK BYE ←		On hook		

SP_XXSSOIP16	PSTN reference to: EN 300 001 [i.12], ETS 300 648 [i.13],	EN 38	NGN reference to: 912.5 [51], clause 6.1.3.6 83 001 [49], clause 6.1.3.6		
	EN 300 659 [i.15] ES 283 027 [48], clause 7.2.3.1.2.6				
TSS reference:	Private Extensions to SIP for A				
Selection criteria:	The user subscribes OIR "temp	•	"not restricted"		
	No Special arrangement applie				
Test purpose:	 Ensure that the SUT in the Idle state, on receipt of a INVITE message where the SIP P-Preferred-Identity containing a SIP URI (PIXIT) in the format of a tel URI has been received the priv-value component is set to "none" the SIP From header field containing a SIP URI (PIXIT) with an identity in the format of a tel URI has been received the Calling Party Number mapped from the P-Asserted-Identity Header is correctly delivered to the called (served) user 				
SIP Parameter	Dial string parameters options=				
values:	PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)				
Comments:					
	SIP	SUT	PSTN		
	INVITE →		Ringing		
	180 Ringing ←		Off Hook		
	200 OK INVITE		1 1		
	ACK →				
	BYE →		On hook		
	200 OK BYE ←				

SP_XXSSOIP17	PSTN reference to: EN 300 001 [i.12], ETS 300 648 [i.13], EN 300 659 [i.15]		EN 3	NGN reference to: 912.5 [51], clause 6.1.3.6 83 001 [49], clause 6.1.3.6 3 027 [48], clause 7.2.3.1.2.6	
TSS reference:	Private Extensions to SIP for	Asserte			
Selection criteria:	The user subscribes OIR "tem Special arrangement applies				
Test purpose:	 Ensure that the SUT in the Idle state, on receipt of a INVITE message where: the SIP P-Preferred-Identity containing a URI (PIXIT) in the format of a tel URI has been received no priv value is received the SIP From header field containing a SIP URI (PIXIT) with an identity in the format of a tel URI has been received the Calling Party Number mapped from the From Header is correctly delivered to the called (served) user. 				
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)				
Comments:					
	SIP		SUT	PSTN	
	INVITE -			Ringing	
	180 Ringing ←			Off Hook	
	200 OK INVITE ←				
	ACK →				
	BYE →			On hook	
	200 OK BYE				

SP_XXSSOIP17	PSTN reference to:	_	NGN reference to:		
	EN 300 001 [i.12], ETS 300 648 [i.13],		2.5 [51], clause 6.1.3.6 3 001 [49], clause 6.1.3.6		
	EN 300 648 [i.13],		027 [48], clause 0.1.3.0		
TSS reference:	Private Extensions to SIP for Ass				
Selection criteria:	The user subscribes OIR "tempo				
	No Special arrangement applies	•			
Test purpose:	Ensure that the SUT in the Idle state, on receipt of a INVITE message where: the SIP P-Preferred-Identity containing a URI (PIXIT) in the format of a tel URI has been received no priv value is received the SIP From header field containing a SIP URI (PIXIT) with an identity in the format of a tel URI has been received and the Calling Party Number mapped from the P-Asserted-Identity Header is				
	correctly delivered to the		er		
SIP Parameter values:	Dial string parameters options=F	IXIT			
	PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)				
Comments:	OID T	OUT	DOTN		
	SIP	SUT	PSTN		
	INVITE → 180 Ringing ←		Ringing Off Hook		
	200 OK INVITE		OILLIOOK		
	ACK →				
	BYE →		On hook		
	200 OK BYE				

SP_XXSSOIP18	PSTN reference to: EN 300 001 [i.12], ETS 300 648 [i.13], EN 300 659 [i.15]	Q.19 ⁴ EN 383 ES 283 (NGN reference to: 12.5 [51], clause 6.1.3.6 3 001 [49], clause 6.1.3.6 027 [48], clause 7.2.3.1.2.6		
TSS reference:	Private Extensions to SIP for A	sserted Identity within	Trusted Networks		
Selection criteria:	The user subscribes OIR "temp Special arrangement applies	•			
Test purpose:	Ensure that the SUT in the Idle state, on receipt of a INVITE message where the SIP From header field containing a SIP URI (PIXIT) with an identity in the format of a tel URI has been received the priv-value component is set to "none" the Calling Party Number mapped from the From Header is correctly delivered to the called (served) user				
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)				
Comments:					
	SIP	SUT	PSTN		
	INVITE →		Ringing		
	180 Ringing ←		Off Hook		
	200 OK INVITE ←				
	ACK →				
	BYE →		On hook		
	200 OK BYE ←				

SP_XXSSOIP19	PSTN reference to: EN 300 001 [i.12], ETS 300 648 [i.13],		EN 3	NGN reference to: 912.5 [51], clause 6.1.3.6 83 001 [49], clause 6.1.3.6	
	EN 300 659 [i.15]		ES 283	027 [48], clause 7.2.3.1.2.6	
TSS reference:	Private Extensions to SIP for	Asserte	d Identity with	nin Trusted Networks	
Selection criteria:	The user subscribes OIR "ter No Special arrangement app		mode" defaul	t "not restricted"	
Test purpose:	Ensure that the SUT in the Idle state, on receipt of a INVITE message where: the SIP From header field containing a SIP URI (PIXIT) with an identity in the format of a tel URI has been received the priv-value component is set to "none" the Calling Party Number mapped from the P-Asserted-Identity Header is correctly delivered to the called (served) user				
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)				
Comments:					
	SIP		SUT	PSTN	
	INVITE →			Ringing	
	180 Ringing ←			Off Hook	
	200 OK INVITE ←				
	ACK →				
	BYE →			On hook	
	200 OK BYE ←				

SP_XXSSOIP20	PSTN reference to: EN 300 001 [i.12], ETS 300 648 [i.13], EN 300 659 [i.15]	Q.1912.5 EN 383 00	I reference to: [51], clause 6.1.3.6 1 [49], clause 6.1.3.6 [48], clause 7.2.3.1.2.6			
TSS reference:	Private Extensions to SIP for Asser					
Selection criteria:	The user subscribes OIR "temporal Special arrangement applies					
Test purpose:	Ensure that the SUT in the Idle state, on receipt of a INVITE message where: the SIP From header field containing a SIP URI (PIXIT) with an identity in the format of a tel URI has been received no priv value is received the Calling Party mapped from the set to the content of the From Header					
SIP Parameter values:	Number is correctly delivered to the called (served) user Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)					
Comments:	<u> </u>					
	SIP	SUT	PSTN			
	INVITE →		Ringing			
	180 Ringing ←		Off Hook			
	200 OK INVITE ← ACK →					
	7					
	BYE →		On hook			
	200 OK BYE ←					

SP_XXSSOIP21	PSTN reference to: EN 300 001 [i.12],	Q.19	NGN reference to: 12.5 [51], clause 6.1.3.6
	ETS 300 648 [i.13], EN 300 659 [i.15]		3 001 [49], clause 6.1.3.6 027 [48], clause 7.2.3.1.2.6
TSS reference:	Private Extensions to SIP for Ass		
Selection criteria:	The user subscribes OIR "tempor		
	No Special arrangement applies		
Test purpose:	Ensure that the SUT in the Idle st		
			URI (PIXIT) with an identity in the
	format of a tel URI has b		
	no priv value is received		D. Assenta d Islandita I Islandania
	correctly delivered to the		P-Asserted-Identity Header is
SIP Parameter	Dial string parameters options=P		CI
values:	Dia ouring parameters options—i		
	PIXIT for supported header:		
	Case a) no 100 rel		
	Case b) Supported: 100 rel		
	Case c) Supported: 100 rel and p	recondition	
	a = line (PIXIT)		
	b = line (PIXIT)		
	m = line (PIXIT)		
Comments:			
	SIP	SUT	PSTN
	INVITE -		Ringing
	180 Ringing ←		Off Hook
	200 OK INVITE		
	ACK →		
	BYE →		On hook
	200 OK BYE ←		

SP_XXSSOIP22	PSTN reference to: EN 300 001 [i.12], ETS 300 648 [i.13], EN 300 659 [i.15]	Q.19 EN 38 ES 283	NGN reference to: 12.5 [51], clause 6.1.3.6 3 001 [49], clause 6.1.3.6 027 [48], clause 7.2.3.1.2.6		
TSS reference:	Private Extensions to SIP for As				
Selection criteria:	The user subscribes OIR "temp	•			
Test purpose:	 Ensure that the SUT in the Idle state, on receipt of a INVITE message where: the SIP P-Preferred-Identity containing a SIP URI (PIXIT) in the format of a tel URI has not been received the priv-value component is set to "none" the SIP From header is set to anonymous the Calling Party Number mapped from the P-Asserted-Identity Header is 				
SIP Parameter values:	correctly delivered to the called (served) user Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)				
Comments:					
	SIP	SUT	PSTN		
	INVITE →		Ringing		
	180 Ringing ←		Off Hook		
	200 OK INVITE ←				
	ACK →				
	BYE →		On hook		
	200 OK BYE ←				

SP_XXSSOIP23	PSTN reference EN 300 001 [i.12 ETS 300 648 [i.1 EN 300 659 [i.1	2], 3],	EN 3	NGN reference to: 912.5 [51], clause 6.1.3.6 83 001 [49], clause 6.1.3.6 3 027 [48], clause 7.2.3.1.2.6		
TSS reference:	Private Extensions to SI	of for Assert				
Selection criteria:	The user subscribes OIR	temporar	y mode" default	"not restricted"		
Test purpose:	Ensure that the SUT in the Idle state, on receipt of a INVITE message where: the SIP P-Preferred-Identity containing a SIP URI (PIXIT) in the format of a tel URI has not been received no priv value is received the SIP From header is set to anonymous the Calling Party Number mapped from the P-Asserted-Identity Header is					
SIP Parameter values:	correctly delivered to the called (served) user Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)					
Comments:						
	SIP INVITE	→	SUT	PSTN Ringing		
		/		Off Hook		
	200 OK INVITE ← ACK →					
	BYE	→		On hook		
		-				

SP_XXSSOIP24	PSTN reference to: EN 300 001 [i.12],		NGN reference to: 12.5 [51], clause 6.1.3.6		
	ETS 300 648 [i.12],		3 001 [49], clause 6.1.3.6		
	EN 300 659 [i.15]		027 [48], clause 7.2.3.1.2.6		
TSS reference:	Private Extensions to SIP for Ass				
Selection criteria:	The user subscribes OIR "tempo	rary mode" default "	restricted"		
	Special arrangement applies				
Test purpose:	Ensure that the SUT in the Idle state, on receipt of a INVITE message where: the SIP P-Preferred-Identity containing a SIP URI (PIXIT) with an identity in the format of a tel URI has not been received the priv-value component is set to "none" the SIP From header field containing a SIP URI (PIXIT) not in the format of a tel URI has been received				
	 the Calling Party Numb delivered to the called (of the From Header is correctly		
SIP Parameter	Dial string parameters options=F	IXIT			
values:	PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)				
Comments:	CID	CLIT	DOTN		
	SIP INVITE →	SUT	PSTN Ringing		
	180 Ringing		Off Hook		
	200 OK INVITE ←		OII FIOOK		
	ACK →				
	BYE →		On hook		
	200 OK BYE ←				

SP_XXSSOIP25	PSTN referenc EN 300 001 [i. ETS 300 648 [i EN 300 659 [i	.12], i.13], .15]	EN 38 ES 283	NGN reference to: 12.5 [51], clause 6.1.3.6 33 001 [49], clause 6.1.3.6 027 [48], clause 7.2.3.1.2.6
TSS reference:	Private Extensions to S			
Selection criteria:	The user subscribes OI		mode" default	"restricted"
Test purpose:	No Special arrangement applies Ensure that the SUT in the Idle state, on receipt of a INVITE message where: • the SIP P-Preferred-Identity containing a SIP URI (PIXIT) with an identity in the format of a tel URI has not been received • the priv-value component is set to "none" • the SIP From header field containing a SIP URI (PIXIT) not in the format of a tel URI has been received • the Calling Party Number mapped from the P-Asserted-Identity Header is			
SIP Parameter values:	correctly delivered to the called (served) user Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)			
Comments:				
	SIP INVITE 180 Ringing 200 OK INVITE ACK BYE	÷	SUT	PSTN Ringing Off Hook On hook
	200 OK BYE	-		STI HOOK

SP_XXSSOIP26	PSTN reference to: EN 300 001 [i.12],			NGN reference to: 12.5 [51], clause 6.1.3.6
	ETS 300 648 [i.13],			3 001 [49], clause 6.1.3.6
	EN 300 659 [i.15]			027 [48], clause 7.2.3.1.2.6
TSS reference:	Private Extensions to SIP for			
Selection criteria:	The user subscribes OIR "t			
Test purpose:	 Ensure that the SUT in the Idle state, on receipt of a INVITE message where: the SIP P-Preferred-Identity containing a SIP URI (PIXIT) with an identity in the format of a tel URI has not been received the priv-value component is set to "none" the SIP From header field containing a SIP URI (PIXIT) not in the format of a tel URI has not been received the Calling Party Number mapped from the P-Asserted-Identity Header is 			
SIP Parameter values:	correctly delivered to the called (served) user Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)			
Comments:	,			
	SIP		SUT	PSTN
		→		Ringing
	3 3	(<u>-</u>	Off Hook
	200 OK ĬNVITE ←			
	ACK	→		
	BYE	→		On hook
	200 OK BYE	(

SP_XXSSOIP27	PSTN reference to: EN 300 001 [i.12], ETS 300 648 [i.13], EN 300 659 [i.15]	Q.191 EN 383 ES 283 (NGN reference to: 2.5 [51], clause 6.1.3.6 3 001 [49], clause 6.1.3.6 27 [48], clause 7.2.3.1.2.6	
TSS reference:	Private Extensions to SIP for As			
Selection criteria:	The user subscribes OIR "temp Special arrangement applies	•		
Test purpose:	Ensure that the SUT in the Idle state, on receipt of a INVITE message where: the SIP From header field containing a SIP URI (PIXIT) with an identity in the format of a tel URI has been received the priv-value component is set to "none" the Calling Party Number mapped from the From Header is correctly delivered to the called (served) user			
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)			
Comments:				
	SIP	SUT	PSTN	
	INVITE →		Ringing	
	180 Ringing ←		Off Hook	
	200 OK INVITE ←			
	ACK →			
	BYE →		On hook	
	200 OK BYE ←			

SP_XXSSOIP28	PSTN reference to: EN 300 001 [i.12], ETS 300 648 [i.13], EN 300 659 [i.15]		EN 38 ES 283	NGN reference to: 12.5 [51], clause 6.1.3.6 33 001 [49], clause 6.1.3.6 027 [48], clause 7.2.3.1.2.6
TSS reference:	Private Extensions to SIP fo			
Selection criteria:	The user subscribes OIR "to No Special arrangement app		y mode" default '	'restricted"
Test purpose:	Ensure that the SUT in the Idle state, on receipt of a INVITE message where: the SIP From header field containing a SIP URI (PIXIT) with an identity in the format of a tel URI has been received the priv-value component is set to "none" the Calling Party Number mapped from the P-Asserted-Identity Header is correctly delivered to the called (served) user			
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)			
Comments:				
	SIP		SUT	PSTN
	INVITE =	-		Ringing
	180 Ringing ◀			Off Hook
	200 OK INVITE			
	ACK -	→		
	BYE =	>		On hook
	200 OK BYE	-		

SP_XXSSOIP29	PSTN reference	to:		NGN reference to:	
	EN 300 001 [i.12	2],		l912.5 [51], clause 6.1.3.6	
	ETS 300 648 [i.1:	3],		383 001 [49], clause 6.1.3.6	
	EN 300 659 [i.15			3 027 [48], clause 7.2.3.1.2.6	
TSS reference:	Private Extensions to SIP				
Selection criteria:	The user subscribes OIR		mode" default	t "restricted"	
	Special arrangement app				
Test purpose:				a INVITE message where:	
			containing a	SIP URI (PIXIT) in the format of a tel	
	URI has not bee				
	the priv-value co				
				P URI (PIXIT) with an identity in the	
	format of a tel U			-	
			apped to the f	From Header is correctly delivered to	
OID Developed	the called (serve				
SIP Parameter values:	Dial string parameters op	tions=PIXII			
	PIXIT for supported head	or:			
	Case a) no 100 rel	CI.			
	Case b) Supported: 100 r	·el			
	Case c) Supported: 100 r		ondition		
		o. aa p. oo.			
	a = line (PIXIT)				
	b = line (PIXIT)				
	m = line (PIXIT)				
Comments:					
	SIP		SUT	PSTN	
		→		Ringing	
	180 Ringing ← Off Hook				
	200 OK INVITE ←				
	ACK	→			
	L	→		On hook	
	200 OK BYE	←			

SP_XXSSOIP30	PSTN reference to: EN 300 001 [i.12],		0.1	NGN reference to: 912.5 [51], clause 6.1.3.6
	ETS 300 648 [i.12],			883 001 [49], clause 6.1.3.6
	EN 300 659 [i.15]			3 027 [48], clause 7.2.3.1.2.6
TSS reference:	Private Extensions to SIP for	Assert		
Selection criteria:	The user subscribes OIR "ter			
	No Special arrangement app	lies		
Test purpose:	Ensure that the SUT in the Idle state, on receipt of a INVITE message where: the SIP P-Preferred-Identity containing a SIP URI (PIXIT) in the format of a tel URI has not been received the priv-value component is set to "none" the SIP From header field containing a SIP URI (PIXIT) with an identity in the format of a tel URI has been received and			
				e P-Asserted-Identity Header is
SIP Parameter values:	correctly delivered to the called (served) user Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)			
Comments:				
	SIP		SUT	PSTN
	INVITE -			Ringing
	180 Ringing			Off Hook
	200 OK INVITE ← ACK			
	ACK 7			
	BYE -			On hook
	200 OK BYE			OH HOOK

SP_XXSSOIP31	PSTN reference to: EN 300 001 [i.12], ETS 300 648 [i.13], EN 300 659 [i.15]	EN 3 ES 28	NGN reference to: 1912.5 [51], clause 6.1.3.6 383 001 [49], clause 6.1.3.6 3 027 [48], clause 7.2.3.1.2.6		
TSS reference:	Private Extensions to SIP for				
Selection criteria:	The user subscribes OIR "ten				
Test purpose:	 Ensure that the SUT in the Idle state, on receipt of a INVITE message where: the SIP P-Preferred-Identity containing a SIP URI (PIXIT) in the format of a tel URI has been received the priv-value component is set to "none" the SIP From header field containing a SIP URI (PIXIT) not in the format of a tel URI has not been received the Calling Party Number mapped from the P-Asserted-Identity Header is 				
	<u> </u>	the called (served) u	user		
SIP Parameter values:	Dial string parameters options	s=PIXIT			
	PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)				
Comments:					
	SIP	SUT	PSTN		
	INVITE ->		Ringing		
	180 Ringing ←		Off Hook		
	200 OK INVITE ←				
	ACK →				
	BYE →		On hook		
	200 OK BYE ←				

SP_XXSSOIP32	PSTN reference to:	NGN	reference to:		
	EN 300 001 [i.12],		[51], clause 6.1.3.6		
	ETS 300 648 [i.13],		[49], clause 6.1.3.6		
	EN 300 659 [i.15]		48], clause 7.2.3.1.2.6		
TSS reference:	Private Extensions to SIP for Asse				
Selection criteria:	The user subscribes OIR "tempora	ry mode" default "restri	cted"		
	Special arrangement applies				
Test purpose:	Ensure that the SUT in the Idle sta				
		ity containing a SIP UR	I (PIXIT) in the format of a tel		
	URI has been received:				
	the priv-value component				
			PIXIT) with an identity in the		
	format of a tel URI has be				
			Header is correctly delivered		
CID Donomotor	to the called (served) use				
SIP Parameter values:	Dial string parameters options=PI	Al I			
values.	PIXIT for supported header:				
	Case a) no 100 rel				
	Case b) Supported: 100 rel				
	Case c) Supported: 100 rel and pro	econdition			
	a = line (PIXIT)				
	b = line (PIXIT)				
	m = line (PIXIT)				
Comments:					
	SIP	SUT	PSTN		
	INVITE -		Ringing		
	180 Ringing ← Off Hook				
	200 OK INVITE				
	ACK →				
	DVE		On head		
	BYE → → + + + + + + + +		On hook		
	200 OK BYE ←				

SP_XXSSOIP33	PSTN reference to: EN 300 001 [i.12],		NGN reference to: Q.1912.5 [51], clause 6.1.3.6	
	ETS 300 648 [i.13],		N 383 001 [49], clause 6.1.3.6	
	EN 300 659 [i.15]	ES	5 283 027 [48], clause 7.2.3.1.2.6	
TSS reference:	Private Extensions to SIP for A			
Selection criteria:	The user subscribes OIR "tem		fault "restricted"	
	No Special arrangement applied			
Test purpose:	 Ensure that the SUT in the Idle state, on receipt of a INVITE message where: the SIP P-Preferred-Identity containing a SIP URI (PIXIT) in the format of a tel URI has been received the priv-value component is set to "none" the SIP From header field containing a SIP URI (PIXIT) with an identity in the format of a tel URI has been received the Calling Party Number mapped from the P-Asserted-Identity Header is 			
OID D	correctly delivered to		d) user	
SIP Parameter values:	Dial string parameters options	=PIXII		
	PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)			
Comments:	OID	OUT	DOTAL	
	SIP	SUT	PSTN	
	INVITE →		Ringing	
	180 Ringing ← 200 OK INVITE ←	+	Off Hook	
	ACK →			
	7 - ACR			
	BYE →		On hook	
	200 OK BYE ←		OHTOOK	

SP_XXSSOIP34	PSTN reference to: EN 300 001 [i.12], ETS 300 648 [i.13], EN 300 659 [i.15]	EN : ES 28	NGN reference to: 1912.5 [51], clause 6.1.3.6 383 001 [49], clause 6.1.3.6 3 027 [48], clause 7.2.3.1.2.6				
TSS reference:	Private Extensions to SIP for A						
Selection criteria:	The user subscribes OIR "tem						
Test purpose:	Ensure that the SUT in the Idle state, on receipt of a INVITE message where: the SIP P-Preferred-Identity containing a SIP URI (PIXIT) in the format of a tel URI has not been received the priv-value component is set to "none" the SIP From header is set to anonymous the Calling Party Number mapped from the P-Asserted-Identity Header is						
SIP Parameter values:	correctly delivered to the called (served) user Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)						
Comments:							
	SIP	SUT	PSTN				
	INVITE →		Ringing				
	180 Ringing ←		Off Hook				
	200 OK INVITE ←						
	ACK →						
	BYE →		On hook				
	200 OK BYE ←						

SP_XXSSOIP35	PSTN reference to:	NGN	I reference to:	
	EN 300 001 [i.12],	Q.1912.5	[51], clause 6.1.3.6	
	ETS 300 648 [i.13],	EN 383 001 [49], clause 6.1.3.6		
	EN 300 659 [i.15]		[48], clause 7.2.3.1.2.6	
TSS reference:	Private Extensions to SIP for Ass			
Selection criteria:	The user subscribes OIR "tempor			
Test purpose:	Ensure that the SUT in the Idle st			
		ntity containing a SIP UF	RI (PIXIT) in the format of a tel	
	URI has been received			
	 the priv-value componer 	it is set to "none"		
	 the SIP From header is 	set to anonymous		
	 the Calling Party Number correctly delivered to the 		e P-Asserted-Identity Header is	
SIP Parameter	Dial string parameters options=P			
values:				
	PIXIT for supported header:			
	Case a) no 100 rel			
	Case b) Supported: 100 rel			
	Case c) Supported: 100 rel and p	recondition		
	a = line (PIXIT)			
	b = line (PIXIT)			
Commonter	m = line (PIXIT)			
Comments:	SIP	SUT	PSTN	
	INVITE ->	301	Ringing	
	180 Ringing ←		Off Hook	
	200 OK INVITE		OILLIOOK	
	ACK →			
	AON 9			
	BYE →		On hook	
	200 OK BYE ←		CHINOR	
L	ZOO OR DIE			

SP_XXSSOIP36	PSTN reference to: EN 300 001 [i.12], ETS 300 648 [i.13], EN 300 659 [i.15]	,	Q.19 [.] EN 38: ES 283 (NGN reference to: 12.5 [51], clause 6.1.3.6 3 001 [49], clause 6.1.3.6 027 [48], clause 7.2.3.1.2.6
TSS reference:	Private Extensions to SIP f		•	
Selection criteria:	The user subscribes OIR "t			
Test purpose:	 Ensure that the SUT in the Idle state, on receipt of a INVITE message where: the SIP P-Preferred-Identity containing a SIP URI (PIXIT) in the format of a tel URI has been received No priv value is received the SIP From header is set to anonymous the Calling Party Number mapped from the P-Asserted-Identity Header is correctly delivered to the called (served) user 			
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)			
Comments:				
	SIP		SUT	PSTN
		→		Ringing
	3 3	(Off Hook
		(
	ACK	→		
	BYE	→		On hook
		(

SP_XXSSOIP37	PSTN reference to: EN 300 001 [i.12], ETS 300 648 [i.13], EN 300 659 [i.15]	EN 38 ES 283	NGN reference to: 012.5 [51], clause 6.1.3.6 03 001 [49], clause 6.1.3.6 027 [48], clause 7.2.3.1.2.6	
TSS reference:	Private Extensions to SIP for A			
Selection criteria:	The user subscribes OIR "tem			
Test purpose:	Ensure that the SUT in the Idle state, on receipt of a INVITE message where: the SIP P-Preferred-Identity containing a SIP URI (PIXIT) in the format of a tel URI has been received the priv-value component is set to "none" the SIP From header is set to anonymous the Calling Party Number mapped from the P-Asserted-Identity Header is			
SIP Parameter values:	correctly delivered to the called (served) user Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)			
Comments:	,			
	SIP	SUT	PSTN	
	INVITE →		Ringing	
	180 Ringing ←		Off Hook	
	200 OK INVITE ←			
	ACK →			
	BYE →		On hook	
	200 OK BYE ←			

6.4.2.2 OIR/CLIR

SP_XXSSOIR01	PSTN reference to:	NG	N reference to:
	EN 300 001 [i.12],	Q.1912.	5 [51], clause 6.1.3.6
	ETS 300 648 [i.13],	EN 383 00	01 [49], clause 6.1.3.6
	EN 300 659 [i.15]		[48], clause 7.2.3.1.2.6
TSS reference:	Private Extensions to SIP for Asse		
Selection criteria:	The user subscribes OIR "tempora	ary mode" default "rest	ricted"
Test purpose:	Ensure that the SUT in the Idle sta		
	 the SIP P-Preferred-Iden 	tity containing a SIP U	RI (PIXIT) has been received
	 the priv-value componen 		
	 the SIP From header field 	d containing a SIP URI	(PIXIT) has been received
	 the Calling Party Number 	is not delivered to the	called (served) user
SIP Parameter	Dial string parameters options=PIX	(IT	
values:			
	PIXIT for supported header:		
	Case a) no 100 rel		
	Case b) Supported: 100 rel		
	Case c) Supported: 100 rel and pr	econdition	
	a = line (PIXIT)		
	b = line (PIXIT)		
	m = line (PIXIT)		
Comments:			
	SIP	SUT	PSTN
	INVITE →		Ringing
	180 Ringing ←		Off Hook
	200 OK INVITE ←		
	ACK →		
	BYE →		On hank
			On hook
	200 OK BYE ←		

SP_XXSSOIR02	PSTN reference to: EN 300 001 [i.12], ETS 300 648 [i.13],	Q.1912 EN 383	GN reference to: 2.5 [51], clause 6.1.3.6 001 [49], clause 6.1.3.6	
	EN 300 659 [i.15]		7 [48], clause 7.2.3.1.2.6	
TSS reference:	Private Extensions to SIP for As			
Selection criteria:	The user subscribes OIR "tempor			
Test purpose:	Ensure that the SUT in the Idle state, on receipt of a INVITE message where: the SIP P-Preferred-Identity containing a SIP URI (PIXIT) has been received the priv-value not present the SIP From header field containing a SIP URI (PIXIT) has been received			
SIP Parameter values:	 the Calling Party Number is not delivered to the called (served) user Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT) 			
Comments:	, ,			
	SIP	SUT	PSTN	
	INVITE →		Ringing	
	180 Ringing ←	<u>-</u>	Off Hook	
	200 OK INVITE ←			
	ACK →			
	BYE →		On hook	
	200 OK BYE ←			

SP_XXSSOIR03	PSTN reference to: EN 300 001 [i.12], ETS 300 648 [i.13], EN 300 659 [i.15]	Q.1912. EN 383 0 ES 283 027	6N reference to: 5 [51], clause 6.1.3.6 01 [49], clause 6.1.3.6 7 [48], clause 7.2.3.1.2.6	
TSS reference:	Private Extensions to SIP for Asse			
Selection criteria:	The user subscribes OIR "tempora			
Test purpose:	 Ensure that the SUT in the Idle state, on receipt of a INVITE message where: the SIP P-Preferred-Identity containing a SIP URI (PIXIT) has been received priv-value component is set to "id" the SIP From header is set to anonymous the Calling Party Number is not delivered to the called (served) user 			
SIP Parameter	Dial string parameters options=PI		2 24.104 (20.104) 400.	
values:	PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)			
Comments:				
	SIP	SUT	PSTN	
	INVITE -		Ringing	
	180 Ringing ←		Off Hook	
	200 OK INVITE ←			
	ACK →			
	BYE →		On hook	
	200 OK BYE ←			

SP_XXSSOIR04	PSTN reference to EN 300 001 [i.12], ETS 300 648 [i.13] EN 300 659 [i.15]	,	EN ES 2	NGN reference to: .1912.5 [51], clause 6.1.3.6 383 001 [49], clause 6.1.3.6 83 027 [48], clause 7.2.3.1.2.6	
TSS reference:	Private Extensions to SIP fo				
Selection criteria:	The user subscribes OIR "te				
Test purpose:	the SIP P-Preferrepriv-value componthe SIP From head	ed-Identity ent is not placed der is set to	containing a present p anonymo		
SIP Parameter values:	the Calling Party Number is not delivered to the called (served) user a = line (PIXIT) b = line (PIXIT) m = line (PIXIT) Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition SIP URI PIXIT: Case a) sip: local-number-digits; phone-context=nat @hostportion; user=phone Case b)				
Comments:	sip: global -number-digits @	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, acc. p		
	SIP		SUT	PSTN	
	INVITE →			Ringing	
	180 Ringing ←			Off Hook	
	200 OK INVITE ←				
	ACK →				
	BYE →			On hook	
	200 OK BYE				

SP_XXSSOIR05	PSTN reference to:	NG	N reference to:
	EN 300 001 [i.12],	Q.1912.	5 [51], clause 6.1.3.6
	ETS 300 648 [i.13],	EN 383 00	01 [49], clause 6.1.3.6
	EN 300 659 [i.15]	ES 283 027	[48], clause 7.2.3.1.2.6
TSS reference:	Private Extensions to SIP for Ass		
Selection criteria:	The user subscribes OIR tempora		
Test purpose:	Ensure that the SUT in the Idle st		
	 the SIP P-Preferred-Ider 	itity containing a SIP U	RI (PIXIT) has been received
	 the priv-value componer 		
	 the SIP From header fie 	d containing a SIP URI	(PIXIT) has been received
	 the Calling Party Number 	r is not delivered to the	called (served) user
SIP Parameter	Dial string parameters options=PI		, ,
values:			
	PIXIT for supported header:		
	Case a) no 100 rel		
	Case b) Supported: 100 rel		
	Case c) Supported: 100 rel and p	recondition	
	a = line (PIXIT)		
	b = line (PIXIT)		
	m = line (PIXIT)		
Comments:			
Commente.	SIP	SUT	PSTN
	INVITE →		Ringing
	180 Ringing ←		Off Hook
	200 OK INVITE ←		
	ACK →		
	BYE ->		On hook
	200 OK BYE ←		

SP_XXSSOIR06	PSTN reference to: EN 300 001 [i.12], ETS 300 648 [i.13], EN 300 659 [i.15]	Q.1912 EN 383	GN reference to: 2.5 [51], clause 6.1.3.6 001 [49], clause 6.1.3.6 27 [48], clause 7.2.3.1.2.6		
TSS reference:	Private Extensions to SIP for As				
Selection criteria:	The user subscribes OIR tempor				
Test purpose:	Ensure that the SUT in the Idle state, on receipt of a INVITE message where: the SIP P-Preferred-Identity containing a SIP URI (PIXIT) has been received priv-value component is set to "id" the SIP From header is set to anonymous				
SIP Parameter values:	 the Calling Party Number is not delivered to the called (served) user Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT) 				
Comments:	, ,				
	SIP	SUT	PSTN		
	INVITE →		Ringing		
	180 Ringing ←		Off Hook		
	200 OK INVITE				
	BYE →		On hook		
	200 OK BYE ←				

SP_XXSSOIR07	PSTN reference to:		NGN reference to:		
	EN 300 001 [i.12],			912.5 [51], clause 6.1.3.6	
	ETS 300 648 [i.13],		EN 383 001 [49], clause 6.1.3.6		
	EN 300 659 [i.15]		ES 283 027 [48], clause 7.2.3.1.2.6		
TSS reference:	Private Extensions to SIP for	Asserte	ed Identity withir	n Trusted Networks	
Selection criteria:	The user subscribes OIR peri				
Test purpose:	Ensure that the SUT in the Id				
				IP URI (PIXIT) has been received	
	 the priv-value compe 				
	 the SIP From heade 	er field c	ontaining a SIP	URI (PIXIT) has been received	
				the called (served) user	
SIP Parameter	Dial string parameters options	s=PIXI7	-		
values:					
	PIXIT for supported header:				
	Case a) no 100 rel				
	Case b) Supported: 100 rel				
	Case c) Supported: 100 rel a	nd prec	ondition		
	a = line (PIXIT)				
	b = line (PIXIT)				
	m = line (PIXIT)				
Comments:	,				
	SIP		SUT	PSTN	
	INVITE →			Ringing	
	180 Ringing ←			Off Hook	
	200 OK INVITE				
	ACK →				
	BYE →			On hook	
	200 OK BYE ←				

SP_XXSSOIR08	PSTN reference to:		NGN reference to:		
	EN 300 001 [i.12],	Q.191	12.5 [51], clause 6.1.3.6		
	ETS 300 648 [i.13],		3 001 [49], clause 6.1.3.6		
	EN 300 659 [i.15]	ES 283 (027 [48], clause 7.2.3.1.2.6		
TSS reference:	Private Extensions to SIP for A	Asserted Identity within	Trusted Networks		
Selection criteria:	The user subscribes OIR perm	nanent mode			
Test purpose:	Ensure that the SUT in the Idle		INVITE message where: P URI (PIXIT) has been received		
	the priv-value compo		ORT (FIXET) Has been received		
			URI (PIXIT) has been received		
	 the Calling Party Nur 	nber is not delivered to	the called (served) user		
SIP Parameter values:	Dial string parameters options	=PIXIT			
	PIXIT for supported header:				
	Case a) no 100 rel				
	Case b) Supported: 100 rel				
	Case c) Supported: 100 rel an	d precondition			
	a = line (PIXIT)				
	b = line (PIXIT)				
	m = line (PIXIT)				
Comments:					
	SIP	SUT	PSTN		
	INVITE →		Ringing		
	180 Ringing ←		Off Hook		
	200 OK INVITE ←				
	ACK →				
	DVE				
	BYE ->		On hook		
	200 OK BYE ←				

SI_XXSSOIR09	PSTN reference to:	NGN r	eference to:		
	EN 300 001 [i.12],		1], clause 6.1.3.6		
	ETS 300 648 [i.13],	<u> </u>	49], clause 6.1.3.6		
	EN 300 659 [i.15]		3], clause 7.2.3.1.2.6		
TSS reference:	Private Extensions to SIP for Ass	erted Identity within Trus	sted Networks		
Selection criteria:	The user subscribes OIR perman				
Test purpose:	Ensure that the SUT in the Idle state, on receipt of a INVITE message where: the SIP P-Preferred-Identity containing a SIP URI (PIXIT) has been received priv-value component is set to "id" the SIP From header is set to anonymous				
	 the Calling Party Number 		called (served) user		
SIP Parameter	Dial string parameters options=P	XIT			
values:					
	PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel				
	Case c) Supported: 100 rel and p	recondition			
	a = line (PIXIT)				
	b = line (PIXIT)				
	m = line (PIXIT)				
Comments:					
	SIP	SUT	PSTN		
	INVITE →		Ringing		
	180 Ringing ←		Off Hook		
	200 OK INVITE ←				
	ACK →				
	BYE →		On hook		
	200 OK BYE ←				

SP_XXSSOIR10	PSTN reference to			NGN reference to:
	EN 300 001 [i.12]			12.5 [51], clause 6.1.3.6
	ETS 300 648 [i.13]			3 001 [49], clause 6.1.3.6
	EN 300 659 [i.15]			027 [48], clause 7.2.3.1.2.6
TSS reference:	Private Extensions to SIP for Asserted Identity within Trusted Networks			
Selection criteria:	The user subscribes OIR			
Test purpose:	Ensure that the SUT in the			
				P URI (PIXIT) has been received
	 priv-value compo 			
	the SIP From hea		-	
	 the Calling Party 	Number i	s not delivered to	the called (served) user
SIP Parameter	Dial string parameters opt	ions=PIXI	T	
values:				
	PIXIT for supported heade	er:		
	Case a) no 100 rel			
	Case b) Supported: 100 re			
	Case c) Supported: 100 rel and precondition			
	a line (DIVIT)			
	a = line (PIXIT)			
	b = line (PIXIT) m = line (PIXIT)			
Comments:	III = IIIIe (FIXIT)			
Comments.	SIP		SUT	PSTN
	INVITE	→		Ringing
	180 Ringing	(Off Hook
	200 OK INVITE	+		
	ACK	→		
	BYE	→		On hook
	200 OK BYE	+		

SP_XXSSOIR11	PSTN reference EN 300 001 [i.12		Ω 19	NGN reference to: 12.5 [51], clause 6.1.3.6
	ETS 300 648 [i.1	•		3 001 [49], clause 6.1.3.6
	EN 300 659 [i.1			027 [48], clause 7.2.3.1.2.6
TSS reference:	Private Extensions to SIP for Asserted Identity within Trusted Networks			
Selection criteria:	SIP URI or SIPS URI is us			
	The user subscribes OIR	"permanent r	node"	
Test purpose:	 Ensure that the SUT in the Idle state, on receipt of a INVITE message where: the SIP P-Preferred-Identity containing a SIP URI (PIXIT) with an identity in the format of a tel URI has not been received the priv-value component is set to "none" the SIP From header field containing a SIP URI (PIXIT) not in the format of a tel URI has been received the Calling Party Number is not delivered to the called (served) user 			
SIP Parameter values:	Dial string parameters opt PIXIT for supported header Case a) no 100 rel Case b) Supported: 100 rec Case c) Supported: 100 rec a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)	ions=PIXIT er: el		tile dalled (Served) dser
Comments:				
	SIP		SUT	PSTN
	INVITE	→		Ringing
		(Off Hook
		←		
	ACK	7		
	BYE	→		On hook
		(SHIOK

SP_XXSSOIR12	PSTN reference to EN 300 001 [i.12],	-	0.10	NGN reference to: 12.5 [51], clause 6.1.3.6
	ETS 300 648 [i.13],			33 001 [49], clause 6.1.3.6
	EN 300 659 [i.15]			027 [48], clause 7.2.3.1.2.6
TSS reference:	Private Extensions to SIP f	or Asser	ted Identity within	Trusted Networks
Selection criteria:	The user subscribes OIR "	permane	nt mode"	
Test purpose:	format of a tel UR	ed-Identi	ty containing a S	INVITE message where: IP URI (PIXIT) with an identity in the he priv-value component is set to
	 "none" the SIP From header field containing a SIP URI (PIXIT) not in the format of a tel URI has not been received the Calling Party Number is not delivered to the called (served) user 			
SIP Parameter values:	Dial string parameters optic PIXIT for supported heade Case a) no 100 rel Case b) Supported: 100 re Case c) Supported: 100 re a = line (PIXIT) b = line (PIXIT)	ons=PIX r: I	Т	o mo camba (correa) aco.
	m = line (PIXIT)			
Comments:	SIP	1	CLIT	DOTN
		→	SUT	PSTN Ringing
		/		Off Hook
	3 3	`		OHTIOOK
		→		
		→		On hook
	200 OK BYE	(_	

SP_XXSSOIR13	PSTN reference to: EN 300 001 [i.12], ETS 300 648 [i.13],	Q.191	IGN reference to: 2.5 [51], clause 6.1.3.6 001 [49], clause 6.1.3.6
	EN 300 659 [i.15] ES 283 027 [48], clause 7.2.3.1.2.6		
TSS reference:	Private Extensions to SIP for Asserted Identity within Trusted Networks		
Selection criteria:	The user subscribes OIR "peri	manent mode"	
Test purpose:	 Ensure that the SUT in the Idle state, on receipt of a INVITE message where: the SIP From header field containing a SIP URI (PIXIT) with an identity in the format of a tel URI has been received the priv-value component is set to "none" the Calling Party Number is not delivered to the called (served) user 		
SIP Parameter values:	Dial string parameters options PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel an a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)	=PIXIT	
Comments:	, ,		
	SIP	SUT	PSTN
	INVITE →		Ringing
	180 Ringing ←		Off Hook
	200 OK INVITE ←		
	ACK →		
	BYE →		On hook
	200 OK BYE ←		

SP_XXSSOIR14	PSTN reference to:		NGN reference to:
	EN 300 001 [i.12],		912.5 [51], clause 6.1.3.6
	ETS 300 648 [i.13],		83 001 [49], clause 6.1.3.6
	EN 300 659 [i.15]		027 [48], clause 7.2.3.1.2.6
TSS reference:	Private Extensions to SIP for A		n Trusted Networks
Selection criteria:	The user subscribes OIR "pern		
Test purpose:	Ensure that the SUT in the Idle	state, on receipt of a	INVITE message where:
			IP URI (PIXIT) in the format of a tel
	URI has been receive		
	 the priv-value compor 		
			URI (PIXIT) with an identity in the
	format of a tel URI ha		
	 the Calling Party Num 	ber is not delivered to	o the called (served) user
SIP Parameter	Dial string parameters options=	:PIXIT	
values:			
	PIXIT for supported header:		
	Case a) no 100 rel		
	Case b) Supported: 100 rel		
	Case c) Supported: 100 rel and precondition		
	a = line (PIXIT)		
	b = line (PIXIT)		
	m = line (PIXIT)		
Comments:			
Commonto.	SIP	SUT	PSTN
	INVITE -		Ringing
	180 Ringing ←		Off Hook
	200 OK INVITE		
	ACK →		
	BYE →		On hook
	200 OK BYE ←		

SP_XXSSOIR15	PSTN reference to: EN 300 001 [i.12], ETS 300 648 [i.13],			NGN reference to: 1912.5 [51], clause 6.1.3.6 383 001 [49], clause 6.1.3.6
	EN 300 659 [i.15]		ES 28	33 027 [48], clause 7.2.3.1.2.6
TSS reference:		Private Extensions to SIP for Asserted Identity within Trusted Networks		
Selection criteria:	The user subscribes OIR "pe			
Test purpose:	 Ensure that the SUT in the Idle state, on receipt of a INVITE message where: the SIP P-Preferred-Identity containing a SIP URI (PIXIT) in the format of a tel URI has been received the priv-value component is set to "none" the SIP From header is set to anonymous 			
			not delivered	to the called (served) user
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header:			
	Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition			
	a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)			
Comments:				
	SIP		SUT	PSTN
	INVITE ->			Ringing
	180 Ringing ←			Off Hook
	200 OK INVITE ← ACK →			
	BYE →			On hook
	200 OK BYE ←			

6.4.2.3 CFU

SPS_XXSSCFU 01	PSTN reference to:	NGN reference to: TS 183 004 [45]	
TSS reference:	SIP-PSTN-SIP/Supplementary_services/CFU		
Configuration:	The user A and the user C are in network N1. The user B is in network N2 and is provided with CFU		
Selection criteria:	Call forwarding by the networ Call forwarding unconditional		
Test purpose:	Ensure that when user A calls	s user B, the call is forwarded to user C.	
SIP Parameter values:	Dial string parameters options PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel a a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)		
Comments:			

SPS_XXSSCFU 02	PSTN reference to:	NGN reference to: TS 183 004 [45]	
TSS reference:	SIP-PSTN-SIP/Supplementa		
Configuration:	The user B is in network N2	and is provided with CFU	
Selection criteria:	Call forwarding by the netwo	rk	
	Call forwarding unconditiona	I supported	
	User C is user determined us		
Test purpose:		ed correctly if CFU was not successful.	
	User A calls user B, the call	is forwarded to user C who is user determined user busy	
SIP Parameter values:	Dial string parameters options=PIXIT		
	PIXIT for supported header:		
	Case a) no 100 rel		
	Case b) Supported: 100 rel		
	Case c) Supported: 100 rel a	and precondition	
	a = line (PIXIT)		
	b = line (PIXIT)		
	m = line (PIXIT)		
Comments:			

SPS_XXSSCFU 03	PSTN reference to:	NGN reference to: TS 183 004 [45]	
TSS reference:	SIP-PSTN-SIP/Supplementary_ser	vices/CFU	
Configuration:	The user B is in network N2 and is	provided with CFU	
Selection criteria:	Call forwarding by the network		
	Call forwarding unconditional support	orted	
	User C is network determined user	busy	
Test purpose:	To verify that a call is released corr		
	User A calls user B, the call is forwa	arded to user C who is network determined user busy.	
SIP Parameter values:	Dial string parameters options=PIXIT		
	PIXIT for supported header:		
	Case a) no 100 rel		
	Case b) Supported: 100 rel		
	Case c) Supported: 100 rel and precondition a = line (PIXIT)		
	b = line (PIXIT)		
	m = line (PIXIT)		
Comments:			

SPP_XXSSCFU 04	PSTN reference to:	NGN reference to: TS 183 004 [45]
TSS reference:	SIP-PSTN-PSTN/Supplementary_	services/CFU
Configuration:	The user B is provided with CFU	
Selection criteria:	Call forwarding by the network	
	Call forwarding unconditional supp	orted
Test purpose:	Ensure that when user A calls use	r B, the call is forwarded to user C.
SIP Parameter values:	Dial string parameters options=PIXPIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and produced a line (PIXIT)	
	b = line (PIXIT) m = line (PIXIT)	
Comments:	,	

SPP_XXSSCFU 05	PSTN reference to:	NGN reference to: TS 183 004 [45]
TSS reference:	SIP-PSTN-PSTN/Supplementary_s	
Configuration:	The user B is in network N2 and is	
Selection criteria:	Call forwarding by the network Call forwarding unconditional support	orted
Test purpose:	To verify that a call is released corr User A calls user B, the call is forward	· ·
SIP Parameter values:	Dial string parameters options=PIX PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and pre a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)	IT ,
Comments:		

6.4.2.4 CFB

SPS_XXSSCFB01	PSTN reference to:	NGN reference to: TS 183 004 [45]
TSS reference:	SIP-PSTN-SIP/Supplementary	• •
Configuration:		in network N1. The user B is in network N2 and is provided
Selection criteria:	Call forwarding by the network	
Test purpose:	Ensure that when user A calls	user B, the call is forwarded to user C.
SIP Parameter values:		
	Dial string parameters options= PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and a = line (PIXIT) b = line (PIXIT)	
Comments:	m = line (PIXIT)	

SPS_XXSSCFB 02	PSTN reference to:	NGN reference to: TS 183 004 [45]
T00 (OLD DOTAL OLD/O	
TSS reference:	SIP-PSTN-SIP/Supplementary_ser	
Configuration:	The user B is in network N2 and is	provided with CFB
Selection criteria:	Call forwarding by the network	
	CFB supported	
	User C is user determined user bus	sy
Test purpose:	To verify that a call is released corr	ectly if CFU was not successful.
	User A calls user B, the call is forward	arded to user C who is user determined user busy.
SIP Parameter values:	Dial string parameters options=PIXIT	
	PIXIT for supported header:	
	Case a) no 100 rel	
	Case b) Supported: 100 rel	
	Case c) Supported: 100 rel and precondition	
	a – line (PIXIT)	
	a = line (PIXIT)	
	b = line (PIXIT)	
	m = line (PIXIT)	
Comments:		

SPS_XXSSCFB 03	PSTN reference to:	NGN reference to: TS 183 004 [45]
TSS reference:	SIP-PSTN-SIP/Supplementary_service	es/CFB
Configuration:	The user B is in network N2 and is pro-	vided with CFB
Selection criteria:	Call forwarding by the network	
	CFB supported	
	User C is network determined user bus	Sy
Test purpose:	To verify that a call is released correctl	
	User A calls user B, the call is forwarded to user C who is network determined user busy.	
SIP Parameter	Dial string parameters options=PIXIT	
values:		
	PIXIT for supported header:	
	Case a) no 100 rel	
	Case b) Supported: 100 rel	
	Case c) Supported: 100 rel and precondition	
	a = line (PIXIT)	
	b = line (PIXIT)	
	m = line (PIXIT)	
Comments:		

SPP_XXSSCFB 04	PSTN reference to:	NGN reference to: TS 183 004 [45]
TSS reference:	SIP-PSTN-PSTN/Supplementary_serv	vices/CFB
Configuration:	The user B is provided with CFB	
Selection criteria:	Call forwarding by the network Call forwarding busy	
Test purpose:	Ensure that when user A calls user B,	the call is forwarded to user C.
SIP Parameter	Dial string parameters options=PIXIT	
values:		
	PIXIT for supported header:	
	Case a) no 100 rel	
	Case b) Supported: 100 rel	
	Case c) Supported: 100 rel and preco	ndition
	a = line (PIXIT)	
	b = line (PIXIT)	
	m = line (PIXIT)	
Comments:		

SPP_XXSSCFB 05	PSTN reference to:	NGN reference to: TS 183 004 [45]
TSS reference:	SIP-PSTN-PSTN/Supplementary_serv	ices/CFB
Configuration:	The user B is in network N2 and is prov	vided with CFB
Selection criteria:	Call forwarding by the network	
	CFB supported	
	User C is network determined user bus	sy
Test purpose:	To verify that a call is released correctly	
	User A calls user B, the call is forwarded to user C who is busy.	
SIP Parameter	Dial string parameters options=PIXIT	
values:		
	PIXIT for supported header:	
	Case a) no 100 rel	
	Case b) Supported: 100 rel	
	Case c) Supported: 100 rel and precondition	
	a = line (PIXIT)	
	b = line (PIXIT)	
	m = line (PIXIT)	
Comments:		

6.4.2.5 CFNR

SPS_XXSSCFNR01	PSTN reference to:	NGN reference to: TS 183 004 [45]
TSS reference:	SIP-PSTN-SIP/Supplementary_se	• 1
Selection criteria:	The user A and the user C are in r provided with CFNR, option B, im	network N1. The user B is in network N2 and is mediate release, no notification
Test purpose:	Ensure that when user A calls use	r B, if unanswered, the call is forwarded to user C.
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition	
	a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)	
Comments:		

SPS_XXSSCFNR02	PSTN reference to:	NGN reference to:	
		TS 183 004 [45]	
TSS reference:	SIP-PSTN-SIP/Supplementary_ser	vices/CFNR/	
Selection criteria:	The user A and the user C are in no	etwork N1. The user B is in network N2 and is	
	provided with CFNR, option A, late	release, no notification	
Test purpose:	Ensure that when user A calls user	B, if unanswered, the call is forwarded to user C.	
SIP Parameter values:	Dial string parameters options=PIX	IT	
	PIXIT for supported header:		
	Case a) no 100 rel		
	Case b) Supported: 100 rel		
	Case c) Supported: 100 rel and precondition		
	a = line (PIXIT)		
	b = line (PIXIT)		
	m = line (PIXIT)		
Comments:			

SPS_XXSSCFNR 03	PSTN reference to:	NGN reference to: TS 183 004 [45]
TSS reference:	SIP-PSTN-SIP/Supplementary_se	rvices/CFNR
Configuration:	The user B is in network N2 and is	provided with CFNR
Selection criteria:	Call forwarding by the network	
	CFNR option B, immediate release	e, no notification
	User C is user determined user bu	sy
Test purpose:		rectly if CFNR was not successful.
	User A calls user B, the call is forwarded to user C who is user determined user busy.	
SIP Parameter values:	Dial string parameters options=PIXIT	
	PIXIT for supported header:	
	Case a) no 100 rel	
	Case b) Supported: 100 rel	
	Case c) Supported: 100 rel and precondition	
	a = line (PIXIT)	
	b = line (PIXIT)	
	m = line (PIXIT)	
Comments:		

SPS_XXSSCFNR 04	PSTN reference to:	NGN reference to: TS 183 004 [45]
TSS reference:	SIP-PSTN-SIP/Supplementary_se	rvices/CFNR
Configuration:	The user B is in network N2 and is	provided with CFNR
Selection criteria:	Call forwarding by the network CFNR supported option B, immediate release, no notification User C is network determined user busy	
Test purpose:	To verify that a call is released correctly if CFNR was not successful. User A calls user B, the call is forwarded to user C who is network determined user busy.	
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)	
Comments:		

SPS_XXSSCFNR 05	PSTN reference to:	NGN reference to: TS 183 004 [45]
TSS reference:	SIP-PSTN-SIP/Supplementary_se	<u> </u>
Configuration:	The user B is in network N2 and is	provided with CFNR
Selection criteria:	Call forwarding by the network CFNR option A late release, no notification User C is user determined user busy	
Test purpose:	To verify that a call is released correctly if CFNR was not successful . User A calls user B, the call is forwarded to user C who is user determined user busy.	
SIP Parameter values:	Dial string parameters options=PIX PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and pro a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)	
Comments:		

SPS_XXSSCFNR 06	PSTN reference to:	NGN reference to: TS 183 004 [45]
TSS reference:	SIP-PSTN-SIP/Supplementary_se	rvices/CFNR
Configuration:	The user B is in network N2 and is	provided with CFNR
Selection criteria:	Call forwarding by the network CFNR supported option A, late release, no notification User C is network determined user busy	
Test purpose:	To verify that a call is released correctly if CFNR was not successful. User A calls user B, the call is forwarded to user C who is network determined user busy.	
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precondition a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)	
Comments:		

SPP_XXSSCFNR 07	PSTN reference to:	NGN reference to:
	EN 300 403-1 [i.3],	TS 183 004 [45]
	clauses 9.2.2, 9.2.4.4, 9.2.5	
TSS reference:	SIP-PSTN-PSTN/Supplementary_serv	ices/CFNR/
Selection criteria:	The user A and the user C are in networking provided with CFNR, option B, immed	ork N1. The user B is in network N2 and is iate release, no notification
Test purpose:	Ensure that when user A calls user B,	f unanswered, the call is forwarded to user C.
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and precor a = line (PIXIT) b = line (PIXIT)	ndition
Comments:	m = line (PIXIT)	
Comments:		

SPP_XXSSCFNR 08	PSTN reference to:	NGN reference to:
	EN 300 403-1 [i.3],	TS 183 004 [45]
	clauses 9.2.2, 9.2.4.4, 9.2.5	
TSS reference:	SIP-PSTN-PSTN/Supplementary_se	rvices/CFNR/
Selection criteria:	The user A and the user C are in net provided with CFNR, option A, late r	work N1. The user B is in network N2 and is elease, no notification
Test purpose:	Ensure that when user A calls user B	, if unanswered, the call is forwarded to user C.
SIP Parameter values:	Dial string parameters options=PIXIT PIXIT for supported header: Case a) no 100 rel Case b) Supported: 100 rel Case c) Supported: 100 rel and prece a = line (PIXIT) b = line (PIXIT) m = line (PIXIT)	
Comments:	,	

SPP_XXSSCFNR 09	PSTN reference to:	NGN reference to:	
	EN 300 207-1 [i.5],	TS 183 004 [45]	
	clauses 6.1, 9.2.2, 9.2.5		
TSS reference:	SIP-PSTN-PSTN/Supplementary_services/CFNR		
Configuration:	The user B is in network N2 and is provided with CFNR		
Selection criteria:	Call forwarding by the network		
	CFNR option B, immediate release, no notification		
	User C is user determined user busy		
Test purpose:	To verify that a call is released correctly if CFNR was not successful .		
	User A calls user B, the call is forwar	ded to user C who is busy.	
SIP Parameter values:	Dial string parameters options=PIXIT		
	PIXIT for supported header:		
	Case a) no 100 rel Case b) Supported: 100 rel		
	Case c) Supported: 100 rel and precondition		
	II (DI)(IT)		
	a = line (PIXIT)		
	b = line (PIXIT)		
	m = line (PIXIT)		
Comments:			

SPP_XXSSCFNR 10	PSTN reference to:	NGN reference to:	
	EN 300 207-1 [i.5],	TS 183 004 [45]	
	clauses 6.1, 9.2.2, 9.2.5		
TSS reference:	SIP-PSTN-PSTN/Supplementary_services/CFNR		
Configuration:	The user B is in network N2 and is provided with CFNR		
Selection criteria:	criteria: Call forwarding by the network		
	CFNR option A, late release, no notif	ication	
	User C is user determined user busy		
Test purpose:	To verify that a call is released correctly if CFNR was not successful .		
	User A calls user B, the call is forwarded to user C who is busy. User B continues to alert		
	to the forwarding user.		
SIP Parameter values:	P Parameter values: Dial string parameters options=PIXIT		
	DIVIT (
	PIXIT for supported header:		
	Case a) no 100 rel		
	Case b) Supported: 100 rel		
	Case c) Supported: 100 rel and preco	ondition	
	a = line (PIXIT)		
	b = line (PIXIT)		
	m = line (PIXIT)		
Comments:	111 - 1110 (1 17(1)		

6.5 ISDN-ISDN

The tests for ISDN-ISDN are identical with the tests in EG 201 299-1 [57] V2.1.1.

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History

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