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Technical Specification

Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); ISDN/PSTN Network Integration Testing for H.323 based trunking; Part 1: Test Suite Structure and Test Purposes (TSS&TP) specification



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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 the Network Integration Testing between H.323, ISDN and PSTN, as identified below:

Part 1: "Test Suite Structure and Test Purposes (TSS&TP) specification";

Part 2: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification".

Introduction

The present document contains the Test Suite Structure and Test Purposes (TSS&TP) list developed by ETSI for testing the international European ISDN, covering Network Integration Testing (NIT) between ISDN-ISDN, ISDN-PSTN and PSTN-ISDN over H.323 trunking networks to verify the level of international end-to-end support of ISDN services. Both bearer services (and associated teleservices) and supplementary services are checked for interworking capability and compatibility, in the international European ISDN.

The European ISDN is made up by connecting the different national networks and End-to-end NIT covers all the testing activities necessary to assess the correct behaviour of the interconnected network from the point of view of access interfaces, network side.

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 ITU-T Recommendation H.323 [2], ISDN and non-ISDN (PSTN) over the national or international H.323 trunking networks. The TSS&TP specification covers the procedures described in ITU-T Recommendation H.323 [2], ITU-T Recommendation H.225.0 [3] as specified in TS 101 883 [1] and ITU-T Recommendation Q.931 [4].

All test purposes are written with reference to ITU-T Recommendation H.246 Annex C [8] which implies the following test architecture:



Figure 1: H.323-ISDN inter-working testing architecture via ISUP

Two mapping functions are involved. They are specified in ITU-T Recommendation H.246 Annex C [8] (H.323-ISUP) and ITU-T Recommendation Q.699 [14] (ISDN-ISUP).

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication and/or edition number or version number) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies.

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

- [1] ETSI TS 101 883: "Telecommunications and Internet Protocol Harmonization Over Networks (TIPHON) Release 4; Technology Mapping; Implementation of TIPHON architecture using H.323".
- [2] ITU-T Recommendation H.323: "Packet-based multimedia communications systems".
- [3] ITU-T Recommendation H.225.0: "Call signalling protocols and media stream packetization for packet-based multimedia communication systems".
- [4] ITU-T Recommendation Q.931: "ISDN user-network interface layer 3 specification for basic call control".
- [5] ISO/IEC 9646-1: "Information technology Open Systems Interconnection Conformance testing methodology and framework Part 1: General concepts".
- [6] ISO/IEC 9646-2: "Information technology Open Systems Interconnection Conformance testing methodology and framework Part 2: Abstract Test Suite specification".

[7] ISO/IEC 9646-3: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 3: The Tree and Tabular Combined Notation (TTCN)".

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- [8] ITU-T Recommendation H.246 Annex C: "Annex C: ISDN User Part function H.225.0 interworking".
- [9] 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]".
- [10] 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".
- [11] 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".
- [12] ETSI EN 300 097-1: "Integrated Services Digital Network (ISDN); Connected Line Identification Presentation (COLP) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [13] ETSI EN 300 098-1: "Integrated Services Digital Network (ISDN); Connected Line Identification Restriction (COLR) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [14] ITU-T Recommendation Q.699: "Interworking between ISDN access and non-ISDN access over ISDN User Part of Signalling System No. 7".
- [15] ETSI EN 300 899-3: "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 3: Test Suite Structure and Test Purposes (TSS&TP) specification".
- [16] ETSI EN 300 207-1: "Integrated Services Digital Network (ISDN); Diversion supplementary services; Digital Subscriber Signalling System No. One (DSS1); Part 1: Protocol specification".
- [17] 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".
- [18] 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".
- [19] ETSI EN 300 058-1: "Integrated Services Digital Network (ISDN); Call Waiting (CW) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [20] 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".
- [21] ITU-T Recommendation Q.764: "Signalling System No. 7 ISDN User Part signalling procedures".
- [22] 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".
- [23] ETSI ETS 300 648: "Public Switched Telephone Network (PSTN); Calling Line Identification Presentation (CLIP) supplementary service; Service description".
- [24] ETSI EN 300 659 (all parts): "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".

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[25] 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".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in ITU-T Recommendation H.323 [2], ITU-T Recommendation H.225.0 [3], ISO/IEC 9646 parts 1 [5] to 3 [7] and the following apply:

Basic Call Control (BCC): signalling protocol associated with the DSS1 - ISDN Basic Call control procedures of ITU-T Recommendation Q.931 (EN 300 403-1)

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

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, which shall react correctly and eventually reject the message

test purpose: non-formal test description, mainly using text. This test description can be used as the basis for a formal test specification (e.g. Abstract Test Suite in TTCN). See ISO/IEC 9646.

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

3.2 Abbreviations

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

BCC	Basic Call Control
BI	network beyond interworking point
Ι	Inopportune
IUT	Implementation Under Test
LN	public network serving the local user
LPN	private network serving the local user
PIXIT	Protocol Implementation eXtra Information for Testing
RLN	public network serving the remote user
RPN	private network serving the remote user
S	Syntactically invalid
ТР	Test Purpose
TSS	Test Suite Structure
V	Valid

4 Test Suite Structure (TSS)

4.1 ISDN-H.323-ISDN

ISDN-ISDN	Basic_Call (1)	Successful (1)	Speech	IHISPxx
			Audio	IHIAUxx
			UDI	IHIUDxx
		Unsuccessful (2)		IHIxx_Uxx
			•	
	Supplementary			
	Services (2)		CLIP	IHIxxSSCLIPxx
			CLIR	IHIxxSSCLIRxx
			COLP	IHIxxSSCOLPxx
			COLR	IHIxxSSCOLRxx
			DDI	IHIxxSSDDIxx
			CFU	IHII_xxSSCFUxx
			CFB	IHII_xxSSCFBxx
			CFNR	IHII_xxSSCFNRxx
			3PTY	IHII_xxSS3PTYxx
			СН	IHI_xxSSCHxx
			CW	IHI_xxSSCWxx
			CUG	IHI xxSSCUGxx

4.2 ISDN- H.323-PSTN



4.3 PSTN-H.323-ISDN



5 Numbering Scheme

- 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

H: H.323

Pos. 6 and 7: Bearer- or Teleservice involved

xx: defined per PIXIT value

SP:Speech

- AU: 3,1 kHz Audio
- UD: UDI
- Pos. 8&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





Supplementary Services

|--|

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	Н	<u> </u>	_	_	Х	Х	S	S	С	L	- I	Р	Х	X

6 Test Purposes

6.1 Test purposes for ISDN-ISDN, Basic call

6.1.1 Successful - Speech

Successful	
Speech	

10

IHI_SP_01	ISDN ref. to: EN 300 403-1 [9]	PBN ref. to:
	clause 5.1.5.1	H.225.0 [3] clauses 7.2.2.1, 7.3.10 and 7.3.2
		TS 101 883 [1] clauses 5.1, B.1.3.8, and B.1.3.2
		H.246 Annex C [8] clauses C.7.1 and C.6.1
TSS reference:	ISDN-H.323-ISDN/Basic_call/Succ	cessful/Speech
Selection criteria:		
Test purpose:	Ensure that call establishment usin The first backward message after to The ALERTING message shall incon- Ensure that during call establishme included in the SETUP message to "Call is not end-to-end ISDN" and Ensure that in the call delivered sta B- channel is performed correctly. Ensure that in the active call state performed correctly (e.g. testing Q	ng en-bloc sending is performed correctly. the CALL PROCEEEDING shall include the PI # 1. lude the PI # 8. ent a Progress indicator information element shall be to the called user with progress description value # 1 optional # 3 origination address is "non-ISDN". ate (N4) the transfer of tone or announcement on the (N10) the voice transfer on the B-channels is oS parameters).
Parameter values:	BC = speech, no HLC	
Comments:	A: ! BC = speech, no HLC	
	A: ? CALL PROCEEDING:	
	A: ? ALERTING progress indicator	#1 Call is not end-to-end ISDN
	B: ? SETUP BC = speech, progres	s indicator #1 Call is not end-to-end ISDN

IHI_SP_02	ISDN ref. to: EN 300 403-1 [9]	PBN ref. to:		
	clause 5.1.5.2	H.225.0 [3] clauses 7.2.2.1, 7.3.10 and 7.3.2		
		TS 101 883 [1] clauses 5.1, B.1.3.8 and B.1.3.2		
		H.246 Annex C [8] clauses C.7.1 and C.6.1		
TSS reference:	ISDN-H.323-ISDN/Basic_call/Succ	essful/Speech		
Selection criteria:				
Test purpose:	Ensure that call establishment usin	g overlap sending is performed correctly.		
	The first backward message after t	he SETUP ACKNOWLEDGE		
	shall include the PI # 1.			
	The ALERTING message shall include the PI # 8.			
	Ensure that during call establishment a Progress indicator information element shall be			
	the called user with progress description value # 1			
	"Call is not end-to-end ISDN" and optional # 3 origination a.			
	Ensure that in the call delivered state (N4) the transfer of tone or announcerr			
	B- channel is performed correctly.			
	Ensure that in the active call state	(N10) the voice transfer on the B-channels is		
	performed correctly (e.g. testing Qo	S parameters).		
Parameter values:	A: ! BC = speech, no HLC			
	A: ? CALL PROCEEDING: progres	s indicator #1 Call is not end-to-end ISDN		
	A: ? ALERTING: progress indicator	r #8		
	B: ? SETUP BC = speech, progres	s indicator #1 Call is not end-to-end ISDN		
Comments:				

IHISP03	ISDN ref. to: EN 300 403-1 [9]	PBN ref. to:	
	clause 5.3.3	H.225.0 [3] clauses 7.2.2.1, 7.3.10 and 7.3.2	
		TS 101 883 [1] clauses 5.1, B.1.3.8 and B.1.3.2	
		H.246 Annex C [8] clauses C.7.1 and C.6.1	
TSS reference:	ISDN-H.323-ISDN/Basic_call/Suc	ccessful/Speech	
Selection criteria:			
Test purpose:	Ensure that the call clearing procedure is performed correctly when the calling user clears after answer.		
	Ensure that in the active call state performed correctly (e.g. testing (e (N10) the voice transfer on the B-channels is QoS parameters).	
Parameter values:	A: ! BC = speech, no HLC A: ? CALL PROCEEDING: progress indicator #1 Call is not end-to-end ISDN A: ? ALERTING: progress indicator #8 B: ? SETUP BC = speech, progress indicator #1 Call is not end-to-end ISDN A: ! DISCONNECT		
Comments:			

IHI_SP_04	ISDN ref. to: EN 300 403-1 [9]	PBN ref. to:
	clause 5.3.3	H.225.0 [3] clauses 7.2.2.1, 7.3.10 and 7.3.2
		TS 101 883 [1] clauses 5.1, B.1.3.8 and B.1.3.2
		H.246 Annex C [8] clauses C.7.1 and C.6.1
TSS reference:	ISDN-H.323-ISDN/Basic_call/Su	ccessful/Speech
Selection criteria:		
Test purpose:	Ensure that the call clearing proc after answer. The network transp user. Ensure that in the active call stat	e (N10) the voice transfer on the B-channels is
	performed correctly (e.g. testing	QoS parameters).
Parameter values:	A: ! BC = speech, no HLC A: ? CALL PROCEEDING: progr A: ? ALERTING: progress indica B: ? SETUP BC = speech, B: ! DISCONNECT	ess indicator #1 Call is not end-to-end ISDN tor #8
Comments:		

IHISP05	ISDN ref. to: EN 300 403-1 [9] clause 4.5.16	PBN ref. to: H.225.0 [3] clauses 7.2.2.1, 7.3.10 and 7.3.2
		H.246 Annex C [8] clauses C.7.1 and C.6.1
TSS reference:	ISDN-H.323-ISDN/Basic_call/Succ	cessful/Speech
Selection criteria:	Telephony 3,1 kHz teleservice	
Test purpose:	Support of telephony 3,1 kHz teles but without the HLC information is correctly delivered to the called us Ensure that in the call delivered sta B- channel is performed correctly. Ensure that in the active call state performed correctly (e.g. testing Q	ervice: Ensure that the BC= speech transported transparently through the network and er. ate (N4) the transfer of tone or announcement on the (N10) the voice transfer on the B-channels is oS parameters).
Parameter values:	A: ! BC = speech, HLC = telephony A: ? CALL PROCEEDING: progress A: ? ALERTING: progress indicato B: ? SETUP BC = speech,	y ss indicator #1 Call is not end-to-end ISDN r #8
Comments:		

IHISP06	ISDN ref. to: EN 300 403-1 [9]	PBN ref. to:		
	clauses 3.1.10 and 5.2	H.225.0 [3] clauses 7.2.2.1, 7.3.10 and 7.3.2		
		TS 101 883 [1] clauses 5.1, B.1.3.8 and B.1.3.2		
		H.246 Annex C [8] clauses C.7.1 and C.6.1		
TSS reference:	ISDN-H.323-ISDN/Basic_call/Succ	cessful/Speech		
Selection criteria:	ISDN - Point-to-Point			
Test purpose:	Verify that the progress indicator information with the progress description #2 "destination address is non-ISDN" in the ALERT message can be transported correctly to the calling			
	user.			
Parameter values:	A:! SETUP: BC = speech			
	A: ? CALL PROCEEDING: progress indicator #1 Call is not end-to-end ISDN			
	A:? ALERT: progress indicator #2 "destination address is non-ISDN" and PI #8.			
	B:? SETUP: BC = speech,			
	B:! CALL PROCEEDING			
	B:! ALERT: progress indicator #2 "	destination address is non-ISDN".		
Comments:	If the network does not support the separate PROGRESS message.	transport of two PI, the second PI will be sent in a		

IHISP07	ISDN ref. to: EN 300 403-1 [9]	PBN ref. to:	
	clauses 3.1.10 and 5.2	H.225.0 [3] clauses 7.2.2.1, 7.3.10 and 7.3.2	
		TS 101 883 [1] clauses 5.1, B.1.3.8 and B.1.3.2	
		H.246 Annex C [8] clauses C.7.1 and C.6.1	
TSS reference:	ISDN-H.323-ISDN/Basic_call/Su	ISDN-H.323-ISDN/Basic_call/Successful/Speech	
Selection criteria:	Telephony 3,1 kHz teleservice; IS	Telephony 3,1 kHz teleservice; ISDN - Point-to-Point	
Test purpose:	Verify that the progress indicator information with the progress description #2 "destination		
	address is non-ISDN" in the ISDN-CONNECT message can be transported correctly to		
	the calling user.		
Parameter values:	A:! SETUP: BC = speech, HLC = telephony		
	A:? CONNECT: progress indicate	or #1 Call is not end-to-end ISDN	
	progress indicator #2 "destination address is non-ISDN"		
	B:? SETUP: BC = speech,		
	B:! CONNECT: progress indicato	or #2 "destination address is non-ISDN".	
Comments:	If the network does not support the	ne transport of two PI, the second PI will be sent in a	
	separate PROGRESS message.		

6.1.2 Successful - Audio

Successful	
3,1 kHz audio	

IHIAU01	ISDN ref. to: EN 300 403-1 [9] clause 5.1.5.1	PBN ref. to: H.225.0 [3] clauses 7.2.2.1, 7.3.10 and 7.3.2 TS 101 883 [1] clauses 5.1, B.1.3.8 and B.1.3.2 H.246 Annex C [8] clauses C.7.1 and C.6.1
TSS reference:	ISDN-H.323-ISDN/Basic_call/Succ	essful/Audio
Selection criteria:		
Test purpose:	Ensure that call establishment using en-bloc sending is performed correctly. The first backward message after the CALL PROCEEEDING shall include the PI # 1. The ALERTING message shall include the PI # 8. Ensure that during call establishment a Progress indicator information element shall be included in the SETUP message to the called user with progress description value # 1 "Call is not end-to-end ISDN" and optional # 3 origination address is "non-ISDN". Ensure that in the call delivered state (N4) the transfer of tone or announcement on the B- channel is performed correctly. Ensure that in the active call state (N10) the voice transfer on the B-channels is performed correctly (o g. testing OoS parameters)	
Parameter values:	BC = 3,1 kHz audio, no HLC	
Comments:		

IHIAU02	ISDN ref. to: EN 300 403-1 [9] clause 5.1.5.2	PBN ref. to: H.225.0 [3] clauses 7.2.2.1, 7.3.10 and 7.3.2 TS 101 883 [1] clauses 5.1, B.1.3.8 and B.1.3.2
TSS reference:	ISDN-H 323-ISDN/Basic, call/Sur	
Selection criteria:	10D14-11.523-10D14/Dasic_Call/Out	
Test purpose:	Ensure that call establishment using overlap sending is performed correctly. The first backward message after the SETUP ACKNOWLEDGE shall include the PI # 1. The ALERTING message shall include the PI # 8. Ensure that during call establishment a Progress indicator information element shall be included in the SETUP message to the called user with progress description value # 1 "Call is not end-to-end ISDN" and optional # 3 origination address is "non-ISDN". Ensure that in the call delivered state (N4) the transfer of tone or announcement on the B- channel is performed correctly. Ensure that in the active call state (N10) the voice transfer on the B-channels is performed correctly.	
Parameter values:	BC = 3,1 kHz audio, no HLC	
Comments:		

IHIAU03	ISDN ref. to: EN 300 403-1 [9]	PBN ref. to:
	clause 5.3.3	H.225.0 [3] clauses 7.2.2.1, 7.3.10 and 7.3.2
		TS 101 883 [1] clauses 5.1, B.1.3.8 and B.1.3.2
		H.246 Annex C [8] clauses C.7.1 and C.6.1
TSS reference:	ISDN-H.323-ISDN/Basic_call/Successful/Audio	
Selection criteria:		
Test purpose:	Ensure that the call clearing procedure is performed correctly when the calling user clears after answer. The network transports the cause value #16 and the location user to the called user.	
Parameter values:	BC = 3,1 kHz audio, no HLC	
Comments:		

IHIAU04	ISDN ref. to: EN 300 403-1 [9]	PBN ref. to:
	clause 5.3.3	H.225.0 [3] clauses 7.2.2.1, 7.3.10 and 7.3.2
		TS 101 883 [1] clauses 5.1, B.1.3.8 and B.1.3.2
		H.246 Annex C [8] clauses C.7.1 and C.6.1
TSS reference:	ISDN-H.323-ISDN/Basic_call/Succ	cessful/Audio
Selection criteria:		
Test purpose:	Ensure that the call clearing procedure is performed correctly when the called user clears after answer.	
	The network transports the cause value #16 and the location user to the calling user.	
Parameter values:	BC = 3,1 kHz audio, no HLC	
Comments:		

IHIAU05	ISDN ref. to: EN 300 403-1 [9]	PBN ref. to:
	clause 4.5.16	H.225.0 [3] clauses 7.2.2.1, 7.3.10 and 7.3.2
		TS 101 883 [1] clauses 5.1, B.1.3.8 and B.1.3.2
		H.246 Annex C [8] clauses C.7.1 and C.6.1
TSS reference:	ISDN-H.323-ISDN/Basic_call/Succ	essful/Audio
Selection criteria:	Telefax G2/G3 terminals	
Test purpose:	Support of Telefax G2/G3: Ensure that the BC = 3,1 kHz audio but without the HLC information is transported transparently through the network and correctly delivered to the called user. Ensure that in the call delivered state (N4) the transfer of tone or announcement on the B- channel is performed correctly. Ensure that in the active call state (N10) the data transfer on the B-channels is performed correctly (e.g. testing QoS parameters).	
Parameter values:	A: ! BC = 3,1 kHz audio, HLC = facsimile group 2/3 B: ! BC = 3,1 kHz audio,	
Comments:		

IHIAU06	ISDN ref. to: EN 300 403-1 [9]	PBN ref. to:
	clause 5.1.6	H.225.0 [3] clauses 7.2.2.1, 7.3.10 and 7.3.2
		TS 101 883 [1] clauses 5.1, B.1.3.8 and B.1.3.2
		H.246 Annex C [8] clauses C.7.1 and C.6.1
TSS reference:	ISDN-H.323-ISDN/Basic_call/Su	ccessful/Audio
Selection criteria:	point-to-point	
Test purpose:	Verify that the progress indicator address is non-ISDN" in the CAL to the calling user. Ensure that in announcement on the B- channe Ensure that in the active call stat correctly (e.g. testing QoS param	information with the progress description #2 "destination L PROCEEDING message can be transported correctly the call delivered state (N4) the transfer of tone or I is performed correctly. te (N10) the data transfer on the B-channels is performed neters).
Parameter values:	A:! SETUP: BC = 3,1 kHz audio A: ? CALL PROCEEDING: progress indicator #2 "destination address is non-ISDN" & progress indicator #1 Call is not end-to-end ISDN A:? ALERT B:? SETUP: BC = 3,1 kHz audio, B: ! CALL PROCEEDING: progress indicator #2 "destination address is non-ISDN". B:! ALERT	
Comments:	If the network does not support the transport of two PI, the second PI will be sent in a separate PROGRESS message	

IHI_AU_07	ISDN ref. to: EN 300 403-1 [9] clause 5.1.6	PBN ref. to: H.225.0 [3] clauses 7.2.2.1, 7.3.10 and 7.3.2	
		TS 101 883 [1] clauses 5.1, B.1.3.8 and B.1.3.2 H.246 Annex C [8] clauses C.7.1 and C.6.1	
TSS reference:	ISDN-H.323-ISDN/Basic_call/Suc	ISDN-H.323-ISDN/Basic_call/Successful/Audio	
Selection criteria:	point-to-point		
Test purpose:	Verify that the progress indicator information with the progress description #2 "destination address is non-ISDN" in the ALERT message can be transported correctly to the calling user.		
Parameter values:	A:! SETUP: BC = 3,1 kHz audio A: ? CALL PROCEEDING: progress indicator #1 Call is not end-to-end ISDN A:? ALERT: progress indicator #2 "destination address is non-ISDN". B:? SETUP: BC = 3,1 kHz audio, B: ! CALL PROCEEDING B:! ALERT: progress indicator #2 "destination address is non-ISDN".		
Comments:			

IHIAU08	ISDN ref. to: EN 300 403-1 [9]	PBN ref. to:
	clause 5.1.6	H.225.0 [3] clauses 7.2.2.1, 7.3.10 and 7.3.2
		TS 101 883 [1] clauses 5.1, B.1.3.8 and B.1.3.2
		H.246 Annex C [8] clauses C.7.1 and C.6.1
TSS reference:	ISDN-H.323-ISDN/Basic_call/Successful/Audio	
Selection criteria:	Point – to – point	
Test purpose:	Verify that the progress indicator information with the progress description #2 "destination address is non-ISDN" in the CONNECT message can be transported correctly to the calling user	
Parameter values:	A:! SETUP: BC = 3,1 kHz audio A:? CONNECT: progress indicator #2 "destination address is non-ISDN" & PI #1. B:? SETUP: BC = 3,1 kHz audio, B:! CONNECT: progress indicator #2 "destination address is non-ISDN".	
Comments:	If the network does not support the separate PROGRESS message.	e transport of two PI, the second PI will be sent in a

IHIAU09	ISDN ref. to: EN 300 403-1 [9]	PBN ref. to:
	clause 4.5.18	H.225.0 [3] clauses 7.2.2.1, 7.3.10 and 7.3.2
		TS 101 883 [1] clauses 5.1, B.1.3.8 and B.1.3.2
		H.246 Annex C [8] clauses C.7.1 and C.6.1
TSS reference:	ISDN-H.323-ISDN/Basic_call/Succ	essful/Audio
Selection criteria:	Bearer service 3,1 kHz audio	
Test purpose:	Ensure that the ISDN SETUP with the BC parameter value information transfer capability	
	3,1 kHz audio, voice band data via	modem, synchronous/asynchronous mode is set to
	MODE, user rate set to USER_RA	TE is correctly mapped to the BC=3,1 kHz audio and
	delivered to the called user.	
	Ensure that in the active call state	(N10) the data transfer on the B-channels is performed
	correctly (e.g. testing QoS parameter	ters).
Parameter values:	A: ! SETUP: BC=3,1 kHz audio, vo	ice band data via modem,
	synchronous/asynchronous mode: MODE	
	user rate: USER_RATE	
	B: ? SETUP: BC=3,1 kHz audio	
Comments:		

IHIAU10	ISDN ref. to: EN 300 403-1 [9]	PBN ref. to:
	clause 4.5.18	H.225.0 [3] clauses 7.2.2.1, 7.3.10 and 7.3.2
		TS 101 883 [1] clauses 5.1, B.1.3.8 and B.1.3.2
		H.246 Annex C [8] clauses C.7.1 and C.6.1
TSS reference:	ISDN-H.323-ISDN/Basic_call/Succ	essful/Audio
Selection criteria:	Bearer service 3,1 kHz audio	
Test purpose:	Ensure that the ISDN SETUP with 3,1 kHz audio and the LLC Parame synchronous/asynchronous mode correctly mapped to BC=3,1 kHz a Ensure that in the active call state correctly (e.g. testing QoS parame	the BC parameter value information transfer capability eter values: 3,1 kHz audio, voice band data via modem, is set to MODE, user rate set to USER_RATE is udio and correctly delivered to the called user. (N10) the data transfer on the B-channels is performed ters).
Parameter values:	A:! SETUP: BC=3,1 kHz audio, LLC=3,1 kHz audio, voice band synchronous/asynchronous mod user rate: USER_RATE B: ? SETUP: BC=3,1 kHz audio	data via modem, e: MODE
Comments:		

IHIAU11	ISDN ref. to: EN 300 403-1 [9] clause 4.5.18	PBN ref. to: H.225.0 [3] clauses 7.2.2.1, 7.3.10 and 7.3.2 TS 101 883 [1] clauses 5.1, B.1.3.8, and B.1.3.2 H.246 Annex C [8] clauses C.7.1 and C.6.1
TSS reference:	ISDN-H.323-ISDN/Basic_call/Succ	essful/Audio
Selection criteria:	Bearer service 3,1 kHz audio	
Test purpose:	Ensure that the ISDN SETUP with the BC parameter value information transfer capability 3,1 kHz audio voice band data via modem, synchronous/asynchronous mode is set to MODE, user rate set to USER_RATE and the LLC Parameter values: 3,1 kHz audio, voice band data via modem, synchronous/asynchronous mode is set to MODE, user rate set to USER_RATE is correctly mapped to BC=3,1 kHz audio and correctly delivered to the to the called user. In the active call state (N10) ensure that the data transfer on the B-channels is performed correctly (e.g. testing QoS parameters).	
Parameter values:	A: ! SETUP: BC = LLC = 3,1 kHz a synchronous/asynchronous mode user rate: USER_RATE B: ? SETUP: BC=3,1 kHz audio	udio, voice band data via modem, e: MODE
Comments:		

Values for test purposes II	IIAU09 to IHIAU11
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
_	USER RATE: 32 kbit/s
VA 12	MODE: synchronous
	USER RATE: 48 kbit/s
VA 13	MODE: synchronous
	USER RATE: 56.0 kbit/s
VA 14	MODE: synchronous
_	USER RATE: 64 kbit/s
VA 15	MODE: asynchronous
_	USER_RATE: 1,2 kbit/s
VA_16	MODE: asynchronous
	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: asynchronous
	USER_RATE: 16 kbit/s
VA_24	MODE: asynchronous
	USER_RATE: 19,2 kbit/s
VA_25	MODE: asynchronous
	USER_RATE: 32 kbit/s
VA_26	MODE: asynchronous
	USER_RATE: 48 kbit/s
VA_27	MODE: asynchronous
	USER_RATE: 56 kbit/s
VA_28	MODE: asynchronous
	USER_RATE: 64 kbit/s

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6.1.3 Successful - UDI

Successful	
UDI	

IHI_UD_01	ISDN ref. to: EN 300 403-1 [9] clause 5.1.5.1	PBN ref. to: H.225.0 [3] clauses 7.2.2.1, 7.3.10 and 7.3.2 TS 101 883 [1] clauses 5.1, B.1.3.8 and B.1.3.2 H.246 Annex C [8] clauses C.7.1 and C.6.1
TSS reference:	ISDN-H.323-ISDN/Basic_call/Successful/UDI	
Selection criteria:		
Test purpose:	Ensure that call establishment using en-bloc sending is performed correctly. Ensure that in the active call state (N10) the data transfer on the B-channels is performed correctly (e.g. testing QoS parameters).	
Parameter values:	BC = UDI, no HLC	
Comments:		

IHIUD02	ISDN ref. to: EN 300 403-1 [9]	PBN ref. to:
	clause 5.1.5.2	H.225.0 [3] clauses 7.2.2.1, 7.3.10, and 7.3.2
		TS 101 883 [1] clauses 5.1, B.1.3.8 and B.1.3.2
		H.246 Annex C [8] clauses C.7.1 and C.6.1
TSS reference:	ISDN-H.323-ISDN/Basic_call/Successful/UDI	
Selection criteria:		
Test purpose:	Ensure that call establishment using overlap sending is performed correctly. Ensure that	
	in the active call state (N10) the da	ata transfer on the B-channels is performed correctly
	(e.g. testing QoS parameters).	
Parameter values:	BC = UDI, no HLC	
Comments:		

	ISDN ref. to: EN 300 403-1 [9]	PBN ref. to:
	clause 5.3.3	H.225.0 [3] clauses 7.2.2.1, 7.3.10 and 7.3.2
		TS 101 883 [1] clauses 5.1, B.1.3.8 and B.1.3.2
		H.246 Annex C [8] clauses C.7.1 and C.6.1
TSS reference:	ISDN-H.323-ISDN/Basic_call/Successful/UDI	
Selection criteria:		
Test purpose:	Ensure that the call clearing procedure is performed correctly when the calling user clears	
	after answer.	
	The network transports the cause value #16 and the location user to the called user.	
Parameter values:	BC = UDI, no HLC	
Comments:		

IHIUD04	ISDN ref. to: EN 300 403-1 [9] clause 5.3.3	PBN ref. to: H.225.0 [3] clauses 7.2.2.1, 7.3.10 and 7.3.2 TS 101 883 [1] clauses 5.1, B.1.3.8 and B.1.3.2 H 246 Appex C [8] clauses C 7.1 and C 6.1
TSS reference:	ISDN-H.323-ISDN/Basic_call/Succ	essful/UDI
Selection criteria:		
Test purpose:	Ensure that the call clearing procedure is performed correctly when the called user clears after answer. The network transports the cause value #16 and the location user to the calling user.	
Parameter values:	BC = UDI, no HLC	
Comments:		

IHIUD05	ISDN ref. to: EN 300 403-1 [9]	PBN ref. to: H 225 0 [3] clauses 7 2 2 1 7 3 10 and 7 3 2	
		TS 101 883 [1] clauses 5.1, B.1.3.8 and B.1.3.2	
TSS reference:		H.246 Annex C [8] clauses C.7.1 and C.6.1	
133 Telefence.	ISDIN-FI.SZS-ISDIN/BASIC_Call/Su	CCESSIU/ODI	
Selection criteria:	Telefax G4 teleservice		
Test purpose:	Support of Telefax G4 teleservice (no LLC): Ensure that the BC= UDI but without the HLC information is transported transparently through the network and correctly delivered to the called user. Ensure that in the active call state (N10) the data transfer on the B-channels is performed correctly (e.g. testing QoS parameters).		
Parameter values:	A: ! SETUP BC = UDI, HLC = fac B: ? SETUP BC = UDI,	A: ! SETUP BC = UDI, HLC = facsimile group 4, no LLC B: ? SETUP BC = UDI,	
Comments:			

IHIUD06	ISDN ref. to: EN 300 403-1 [9]	PBN ref. to:	
	clauses 4.5.16 and 4.5.18	H.225.0 [3] clauses 7.2.2.1, 7.3.10 and 7.3.2	
		TS 101 883 [1] clauses 5.1, B.1.3.8 and B.1.3.2	
		H.246 Annex C [8] clauses C.7.1 and C.6.1	
TSS reference:	ISDN-H.323-ISDN/Basic_call/Suc	ccessful/UDI	
Selection criteria:	Telefax G4 teleservice		
Test purpose:	Support of telefax G4 teleservice: Ensure that the BC= UDI but without the LLC and HLC information is transported transparently through the network and correctly delivered to the called user. Ensure that in the active call state (N10) the data transfer on the B-channels is performed correctly (e.g. testing QoS parameters).		
Parameter values:	A: ! SETUP: BC = UDI, HLC = fai B: ? SETUP: BC = UDI	A: ! SETUP: BC = UDI, HLC = facsimile group 4, LLC = telematic_term B: ? SETUP: BC = UDI	
Comments:			

IHIUD07	ISDN ref. to: EN 300 403-1 [9]	PBN ref. to:
	clauses 4.5.16 and 4.5.18	H.225.0 [3] clauses 7.2.2.1, 7.3.10 and 7.3.2
		TS 101 883 [1] clauses 5.1, B.1.3.8 and B.1.3.2
		H.246 Annex C [8] clauses C.7.1 and C.6.1
TSS reference:	ISDN-H.323-ISDN/Basic_call/Succe	essful/UDI
Selection criteria:	Telefax G4 teleservice	
Test purpose:	Support of telefax G4 teleservice: Ensure that the BC= UDI but without the LLC and HLC information is transported transparently through the network and correctly delivered to the called user. Ensure that in the active call state (N10) the data transfer on the B-channels is performed correctly (e.g. testing QoS parameters).	
Parameter values:	A: ! SETUP: BC = UDI, HLC = facsimile group 4, LLC = telematic_term B: ? SETUP: BC = UDI	
Comments:		

IHIUD08	ISDN ref. to: EN 300 403-1 [9] clauses 4.5.16 and 4.5.18	PBN ref. to: H.225.0 [3] clauses 7.2.2.1, 7.3.10 and 7.3.2 TS 101 883 [1] clauses 5.1, B.1.3.8 and B.1.3.2 H.246 Annex C [8] clauses C.7.1 and C.6.1
TSS reference:	ISDN-H.323-ISDN/Basic_call/Successful/UDI	
Selection criteria:		
Test purpose:	Ensure that the ISDN SETUP with the BC parameter value information transfer capability UDI, voice band data via modem, synchronous/asynchronous mode is set to MODE, user rate set to USER_RATE is correctly mapped to the BC = UDI. Ensure that in the active call state (N10) the data transfer on the B-channels is performed correctly (e.g. testing QoS parameters).	
Parameter values:	A:! SETUP: BC = UDI, synchronous/asynchronous mode user rate: USER_RATE B:? SETUP: BC = UDI	e: MODE
Comments:		

IHIUD09	ISDN ref. to: EN 300 403-1 [9]	PBN ref. to:
	clauses 4.5.16 and 4.5.18	H.225.0 [3] clauses 7.2.2.1, 7.3.10 and 7.3.2
		TS 101 883 [1] clauses 5.1, B.1.3.8 and B.1.3.2
		H.246 Annex C [8] clauses C.7.1 and C.6.1
TSS reference:	ISDN-H.323-ISDN/Basic_call/Suc	ccessful/UDI
Selection criteria:		
Test purpose:	Ensure that the ISDN SETUP with the BC parameter value information transfer capability UDI and the LLC Parameter values: UDI, synchronous/asynchronous mode is set to MODE, user rate set to USER_RATE is correctly mapped and correctly delivered to the BC = UDI Ensure that in the active call state (N10) the data transfer on the B-channels is performed correctly (e.g. testing QoS parameters).	
Parameter values:	A: ! SETUP: BC = UDI, LLC= UDI, synchronous/asynchronous mode: MODE user rate: USER_RATE B: ! SETUP: BC = UDI,	
Comments:		

IHI_UD_10	ISDN ref. to: EN 300 403-1 [9]	PBN ref. to:
	clauses 4.5.16 and 4.5.18	H.225.0 [3] clauses 7.2.2.1, 7.3.10 and 7.3.2
		TS 101 883 [1] clauses 5.1, B.1.3.8 and B.1.3.2
		H.246 Annex C [8] clauses C.7.1 and C.6.1
TSS reference:	ISDN-H.323-ISDN/Basic_call/Succ	cessful/UDI
Selection criteria:		
Test purpose:	Ensure that the SETUP with the BC	C parameter value information transfer capability UDI,
	synchronous/asynchronous mode is set to MODE, user rate set to USER_RATE and the	
	LLC	
	Parameter values: UDI, synchronous/asynchronous mode is set to	
	to USER_RATE is correctly mappe	ed and correctly delivered to the $BC = UDI$.
	In the active call state (N10) ensur	e that the data transfer on the B-channels is performed
	correctly (e.g. testing QoS parame	ters).
Parameter values:	A:! SETUP: BC = LLC = UDI,	
	synchronous/asynchronous mod	le: MODE
	user rate: USER_RATE	
	B: ! SETUP: BC = UDI,	
Comments:		

Values for test purposes IHIUD08 to IHIUD10		
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	
	USER RATE: 32 kbit/s	
VA 12	MODE: synchronous	
_	USER RATE: 48 kbit/s	
VA 13	MODE: synchronous	
	USER RATE: 56.0 kbit/s	
VA 14	MODE: synchronous	
	USER RATE: 64 kbit/s	
VA 15	MODE: asynchronous	
	USER RATE: 1.2 kbit/s	
VA 16	MODE: asynchronous	
	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: asynchronous	
	USER_RATE: 16 kbit/s	
VA_24	MODE: asynchronous	
	USER_RATE: 19,2 kbit/s	
VA_25	MODE: asynchronous	
	USER_RATE: 32 kbit/s	
VA_26	MODE: asynchronous	
	USER_RATE: 48 kbit/s	
VA_27	MODE: asynchronous	
	USER RATE: 56 kbit/s	
VA_28	MODE: asynchronous	
	USER_RATE: 64 kbit/s	

6.1.4 Unsuccessful

Unsuccessiui

IHIxx_U01	ISDN ref. to: EN 300 403-1 [9]	PBN ref. to:
	clauses 5.1.4 and G.1.1	H.225.0 [3] clause 7.2.2.8
		TS 101 883 [1] clauses 5.1, B.1.3.8 and B.1.3.7
		H.246 Annex C [8] clause C.7.1.8
TSS reference:	ISDN-H.323-ISDN/Basic_call/Uns	uccessful
Selection criteria:		
Test purpose:	Ensure that, when calling to unallocated number, the network initiate call clearing to the	
	calling user with cause value #1 "	unassigned number", location U, RPN,RLN,TN or INTL
Parameter values:	BC = PIXIT	
Comments:	If in BC in the SETUP is coded speech or 3,1 kHz audio in the case when the calling use	
	is calling to an unallocated number	er the tones or announcement can only by generated in
	the destination exchange (or inter	mediate exchange) during call establishment
	(see ITU-T Recommendation Q.7	64 [21] clause 2.2).
	The originating exchange sends a	DISCONNECT message to the calling user with
	progress indicator #8 thus indicati	ng that in-band information is available. Normal release
	procedure applies after the in-ban	d information has been connected.
	The calling user shall receive in th	e disconnect indication state (N12) the in-band
	tone/announcement on the B-chai	nnel.

IHIxx_U02	ISDN ref. to: EN 300 403-1 [9] clauses 5.2.5.1 and G.1.7	PBN ref. to: H.225.0 [3] clause 7.2.2.8 TS 101 883 [1] clauses 5.1, B.1.3.8 and B.1.3.7 H.246 Annex C [8] clause C.7.1.8
TSS reference:	ISDN-H.323-ISDN/Basic_call/Uns	uccessful
Selection criteria:		
Test purpose:	Ensure that, when the called user is busy and responds with a RELEASE COMPLETE message indicating cause value #17 "user busy", the network transport the cause value and the location to the calling user. Possible locations are U, RPN or RLN.	
Parameter values:	BC = PIXIT	
Comments:	If in BC in the SETUP is coded speech or 3,1 kHz audio the originating exchange sends a DISCONNECT message to the calling user with progress indicator #8 thus indicating that in-band information is available. Normal release procedure applies after the in-band information has been connected. The calling user shall receive in the disconnect indication state (N12) the in-band tone/announcement on the B-channel.	

IHIxx_U03	ISDN ref. to: EN 300 403-1 [9]	PBN ref. to:
	clauses 5.2.5.4 and G.1.8	H.225.0 [3] clause 7.2.2.8
		TS 101 883 [1] clauses 5.1, B.1.3.8 and B.1.3.7
		H.246 Annex C [8] clause C.7.1.8
TSS reference:	ISDN-H.323-ISDN/Basic_call/Un	successful
Selection criteria:		
Test purpose:	Ensure that when the called user calling user with cause value #18	is not responding, the network initiate call clearing to the "no user responding" location RLN.
Parameter values:	BC = PIXIT	
Comments:	If in BC in the SETUP is coded speech or 3,1 kHz audio the originating exchange sends a DISCONNECT message to the calling user with progress indicator #8 thus indicating that in-band information is available. Normal release procedure applies after the in-band information has been connected. The calling user shall receive in the disconnect indication state (N12) the in-band tone/announcement on the B-channel.	

IHIxx_U04	ISDN ref. to: EN 300 403-1 [9]	PBN ref. to:
	clauses 5.2.5.4 and G.1.9	H.225.0 [3] clause 7.2.2.8
		TS 101 883 [1] clauses 5.1, B.1.3.8 and B.1.3.7
		H.246 Annex C [8] clause C.7.1.8
TSS reference:	ISDN-H.323-ISDN/Basic_call/Un	nsuccessful
Selection criteria:		
Test purpose:	Ensure that when no answer fror call clearing to the calling user w (user alerted)" location RLN, TN "recovery on timer expiry".	m the called user (but user alerted), the network initiate rith cause value #19 "no user responding or INTL and called user with cause value # 102
Parameter values:	BC = PIXIT	
Comments:	If in BC in the SETUP is coded s DISCONNECT message to the c in-band information is available. information has been connected indication state (N12) the in-band	peech or 3,1 kHz audio the originating exchange sends a calling user with progress indicator #8 thus indicating that Normal release procedure applies after the in-band . The calling user shall receive in the disconnect d tone/announcement on the B-channel.

IHIxx_U05	ISDN ref. to: EN 300 403-1 [9]	PBN ref. to:
	clauses 5.1.9, 5.3.2 and G.1.10	H.225.0 [3] clause 7.2.2.8
		TS 101 883 [1] clauses 5.1, B.1.3.8 and B.1.3.7
		H.246 Annex C [8] clause C.7.1.8
TSS reference:	ISDN-H.323-ISDN/Basic_call/Uns	successful
Selection criteria:		
Test purpose:	Ensure that when the called user COMPLETE message indicating of the cause value and the location t RLN.	rejects the call and responds with a RELEASE cause value #21 "call rejected", the network transports to the calling user. Possible locations are U, RPN or
Parameter values:	BC = PIXIT	
Comments:	If in BC in the SETUP is coded sp DISCONNECT message to the ca in-band information is available. N information has been connected. The calling user shall receive in th tone/announcement on the B-cha	peech or 3,1 kHz audio the originating exchange sends a alling user with progress indicator #8 thus indicating that lormal release procedure applies after the in-band ne disconnect indication state (N12) the in-band nnel.

IHIxx_U06	ISDN ref. to: EN 300 403-1 [9]	PBN ref. to:
	clause G.1.13	H.225.0 [3] clause 7.2.2.8
		TS 101 883 [1] clauses 5.1, B.1.3.8 and B.1.3.7
		H.246 Annex C [8] clause C.7.1.8
TSS reference:	ISDN-H.323-ISDN/Basic_call/Un	successful
Selection criteria:		
Test purpose:	Ensure that when the called user terminal is not connected, the network initiate call	
	clearing to the calling user with cause value #27 "destination out of order"	
Parameter values:	BC = PIXIT	
Comments:	If in BC in the SETUP is coded speech or 3,1 kHz audio the originating exchange sends a DISCONNECT message to the calling user with progress indicator #8 thus indicating that	
	in-band information is available. Normal release procedure applies after the in-band	
	information has been connected.	
	The calling user shall receive in the disconnect indication state (N12) the in-band	
	tone/announcement on the B-channel.	

IHIxx_U07	ISDN ref. to: EN 300 403-1 [9]	PBN ref. to: H 225 0 [3] clause 7 2 2 8
	0100000 0.2.2 0110 0.0.1	TS 101 883 [1] clauses 5.1, B.1.3.8 and B.1.3.7
		[H.246 Annex C [8] clause C.7.1.8
TSS reference:	ISDN-H.323-ISDN/Basic_call/Un	successful
Selection criteria:		
Test purpose:	Ensure that when the called user COMPLETE message indicating network transports the cause val are U and RPN.	is not compatible and responds with a RELEASE cause value #88 "called user not compatible", the ue and the location to the calling user. Possible locations
Parameter values:	BC = PIXIT	
Comments:	If in BC in the SETUP is coded s DISCONNECT message to the c in-band information is available. information has been connected. The calling user shall receive in t the in-band tone/announcement	peech or 3,1 kHz audio the originating exchange sends a alling user with progress indicator #8 thus indicating that Normal release procedure applies after the in-band he disconnect indication state (N12) on the B-channel.

IHIxx_U08	ISDN ref. to: EN 300 403-1 [9]	PBN ref. to:
	clause G.1.6	H.225.0 [3] clause 7.2.2.8
		TS 101 883 [1] clauses 5.1, B.1.3.8 and B.1.3.7
		H.246 Annex C [8] clause C.7.1.8
TSS reference:	ISDN-H.323-ISDN/Basic_call/Unsu	iccessful
Selection criteria:	Multipoint configuration for the called side	
Test purpose:	Ensure that when the calling user of	clears with cause value #16 "normal call clearing"
	before answer from called user, the	e network transport the cause value and the location
	user to the called user	
Parameter values:	BC = PIXIT	
Comments:		

IHIxx_U09	ISDN ref. to: EN 300 403-1 [9]	PBN ref. to:
	clause G.1.6	H.225.0 [3] clause 7.2.2.8
		TS 101 883 [1] clauses 5.1, B.1.3.8 and B.1.3.7
		H.246 Annex C [8] clause C.7.1.8
TSS reference:	ISDN-H.323-ISDN/Basic_call/Unsu	iccessful
Selection criteria:	Point-to-point configuration for the called side	
Test purpose:	Ensure that when the calling user of	clears with cause value #16 "normal call clearing"
	before answer from called user, the	e network transport the cause value and the location
	user to the called user	
Parameter values:	BC = PIXIT	
Comments:		

IHIxx_U10	ISDN ref. to: EN 300 403-1 [9]	PBN ref. to:	
	clause G.1.6;	H.225.0 [3] clause 7.2.2.8	
	EN 300 899-3 [15] Annex A	TS 101 883 [1] clauses 5.1, B.1.3.8 and B.1.3.7	
		H.246 Annex C [8] clause C.7.1.8	
TSS reference:	ISDN-H.323-ISDN/Basic_call/Unsuccessful		
Selection criteria:	Point-to-point configuration for the called side		
Test purpose:	Ensure that the SUT after receiving a call from the calling user, sends out a SETUP		
	message, receives a CALL PROCEEDING message on receipt of a DISCONNECT		
	message with the Cause value CV_ISDN;		
	sends a DISCONNECT message with the Cause value CV_ISDN to the calling user.		
Parameter values:	BC = PIXIT		
Comments:			

Values for test purposes IHIxx_U10		
	Cause	
		CV_ISDN
VA_01	17	User busy
VA_02	18	No user responding
VA_03	21	Call rejected
VA_04	22	Number changed
VA_05	27	Destination out of order
VA_06	28	Invalid number format
		(address incomplete)
VA_07	29	Facility rejected
VA_08	31	Normal, unspecified
VA_09	38	Network out of order
VA_10	41	Temporary failure
VA_11	63	Service or option not
		available, unspecified
VA_12	88	Incompatible destination
VA_13	95	Invalid message, unspecified
VA_14	111	Protocol error, unspecified

-			
IHIxx_U11	ISDN ref. to: EN 300 403-1 [9]	PBN ref. to:	
	clause G.1.6	H.225.0 [3] clause 7.2.2.8	
		TS 101 883 [1] clauses 5.1, B.1.3.8 and B.1.3.7	
		H.246 Annex C [8] clause C.7.1.8	
TSS reference:	ISDN-H.323-ISDN/Basic_call/Unsuccessful		
Selection criteria:	Point-to-point configuration for the called side		
Test purpose:	Ensure that the SUT after receiving a call from the calling user, sends out a SETUP		
	message, receives a CALL PROCEEDING message and an ALERTING message on		
	receipt of a DISCONNECT message with the Cause value CV_ISDN;		
	sends a DISCONNECT message with the Cause value CV_ISUP to the calling user.		
Parameter values:	BC = PIXIT		
Comments:			

Values for test purposes IHIxx_U11		
	Cau	lse
	CV_I	SDN
VA_01	21	Call rejected
VA_02	27	Destination out of order
VA_03	31	Normal, unspecified
VA_04	38	Network out of order
VA_05	41	Temporary failure
VA_06	111	Protocol error, unspecified

IHIxx_U12	ISDN ref. to: EN 300 403-1 [9]	PBN ref. to:
	clause G.1.6	H.225.0 [3] clause 7.2.2.8
		TS 101 883 [1] clauses 5.1, B.1.3.8 and B.1.3.7
		H.246 Annex C [8] clause C.7.1.8
TSS reference:	ISDN-H.323-ISDN/Basic_call/Unsuccessful	
Selection criteria:	Point-to-point configuration for the called side	
Test purpose:	Ensure that the SUT sends out a SETUP message, receives a CONNECT message and on receipt of a DISCONNECT message with the Cause value CV_ISDN; sends a DISCONNECT message with the Cause value CV_ISDN to the calling user.	
Parameter values:	BC = PIXIT	
Comments:		

6.2 Test purposes for ISDN-ISDN, Supplementary services

6.2.1 CLIP

IHIxxSSCLIP01	ISDN ref. to: EN 300 092-1 [10]	PBN ref. to:
	clause 9.3	H.246 Annex C [8] clauses C.6.2 and C.7.2
	EN 300 403-1 [9] clauses 4.5.10	
	and 4.5.11	
TSS reference:	ISDN-H.323-ISDN/Supplementary_services/CLIP	
Selection criteria:	The called user is provided with CLIP	
Test purpose:	Ensure that when the Calling party number is provided by the calling user, when the Type	
	of number is defined as : TYPE_NL	JMBER, the Calling party number information element
	is correctly delivered to the called (s	served) user.
Parameter values:	BC = PIXIT	
Comments:		

IHISSCLIP02	ISDN ref. to: EN 300 092-1 [10]	PBN ref. to:	
	clause 9.3	H.246 Annex C [8] clauses C.6.2 and C.7.2	
	EN 300 403-1 [9] clauses 4.5.10		
	and 4.5.11		
TSS reference:	ISDN-H.323-ISDN/Supplementary	ISDN-H.323-ISDN/Supplementary_services/CLIP	
Selection criteria:	The called user is provided with CLIP		
Test purpose:	Ensure that when the Calling party number is provided by the calling user, where the		
	Type of number is defined as: TYPE_NUMBER, with Calling party subaddress, the		
	Calling party number information elements is correctly delivered to the called (served)		
Parameter values:	BC = PIXIT		
Comments:			

IHISSCLIP 03	ISDN ref. to: EN 300 092-1 [10]	PBN ref. to:
	clause 9.3	H.246 Annex C [8] clauses C.6.2 and C.7.2
	EN 300 403-1 [9] clauses 4.5.10	
	and 4.5.11	
TSS reference:	ISDN-H.323-ISDN/Supplementary_services/CLIP	
Selection criteria:	The called user is provided with CLIP	
Test purpose:	Ensure that when no Calling party number information element is provided by the calling	
	user, (and no Calling party subaddress) the Calling party number information element is	
	correctly delivered to the called (served) user.	
Parameter values:	BC = PIXIT	
Comments:		

Values for the	Values for the test purpose IHI_SSCLIP 01 to IHI_SSCLIP 02	
TON		
VA_01	subscriber number	
VA_02	national number	
VA_03	International number	
VA_04	Unknown	

IHI_SSCLIP 04	ISDN ref. to: EN 300 092-1 [10] clause 9.3 EN 300 403-1 [9] clauses 4.5.10 and 4 5 11	PBN ref. to: H.246 Annex C [8] clauses C.6.2 and C.7.2
TSS reference:	ISDN-H.323-ISDN/Supplementary	_services/CLIP
Selection criteria:	The called user is provided with special arrangement applies.	CLIP;
Test purpose:	Ensure that when a special arrangement applies and a Calling party number information element with a valid calling number is provided by the calling user; the Calling party number information element with the calling number, presentation is allowed and the screening indicator is set to "user-provided, not screened" immediately followed by a second Calling party number information element with the default number of the access of the calling user, the screening indicator is set to "network-provided" are delivered to the called (served) user	
Parameter values:	BC = PIXIT	
Comments:		

IHI_SSCLIP 05	ISDN ref. to: EN 300 092-1 [10]	PBN ref. to:
	clause 9.3	H.246 Annex C [8] clauses C.6.2 and C.7.2
	EN 300 403-1 [9] clauses 4.5.10	
	and 4.5.11	
TSS reference:	ISDN-H.323-ISDN/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 subaddress	
	information element is provided	by the calling user;
	the Calling party number information element with the default number of the access of	
	the calling user, the screening indicator is set to "network-provided", with the Calling	
	party subaddress information ele	ement are delivered to the called (served) user.
Parameter values:	BC = PIXIT	
Comments:		

IHISSCLIP 06	ISDN ref. to: EN 300 092-1 [10]	PBN ref. to:
	clause 9.3	H.246 Annex C [8] clauses C.6.2 and C.7.2
	EN 300 403-1 [9] clauses 4.5.10	
	and 4.5.11	
TSS reference:	ISDN-H.323-ISDN/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 no Calling party number	
	information element is provided by the calling user; the Calling party number information element the with the default number of the access of the calling user, the screening indicator is set to "network-provided" is delivered to	
	the called (served) user.	·
Parameter values:	BC = PIXIT	
Comments:		

IHISSCLIP 07	ISDN ref. to: EN 300 092-1 [10] clause 9.3 EN 300 403-1 [9] clauses 4.5.10 and 4.5.11	PBN ref. to: H.246 Annex C [8] clauses C.6.2 and C.7.2
TSS reference:	ISDN-H.323-ISDN/Supplementary_	_services/CLIP
Selection criteria:	The called user is provided with CLIP and the two delivery option does not apply; 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 Calling party number information element with the calling number, presentation is allowed and the screening indicator is set to "user-provided, not screened" is delivered to the called (served) user.	
Parameter values:	BC = PIXIT	
Comments:		

IHI_SSCLIR 01	ISDN ref. To: EN 300 093-1 [11] clause 9.4.1 EN 300 092-1 [10] clause A.2 figure 2	PBN ref. to: H.246 Annex C [8] clauses C.6.2 and C.7.2
TSS reference:	ISDN-H.323-ISDN/Supplementary_services/CLIR	
Selection criteria:	The calling user is provided with CLIR permanent mode subscription, the called user with CLIP	
Test purpose:	Ensure that when the Calling party number is provided by the calling user, without Calling party subaddress, the Calling party number information element is delivered to the called user without any digit information.	
Parameter values:	BC = PIXIT	
Comments:		

IHI_SSCLIR 02	ISDN ref. To: EN 300 093-1 [11] clause 9.4.1 EN 300 092-1 [10] clause A.2 figure 2	PBN ref. to: H.246 Annex C [8] clauses C.6.2 and C.7.2	
TSS reference:	ISDN-H.323-ISDN/Supplementary_	ISDN-H.323-ISDN/Supplementary_services/CLIR	
Selection criteria:	The calling user is provided with CLIR permanent mode subscription, the called user with CLIP		
Test purpose:	Ensure that when the Calling party number is provided by the calling user, with Calling party subaddress, the Calling party number information element is delivered to the called user without any digit information. The Calling party subaddress shall not be present		
Parameter values:	BC = PIXIT		
Comments:			

IHISSCLIR 03	ISDN ref. To: EN 300 093-1 [11]	PBN ref. to:
	clause 9.4.1	H.246 Annex C [8] clauses C.6.2 and C.7.2
	EN 300 092-1 [10] clause A.2	
	figure 2	
TSS reference:	ISDN-H.323-ISDN/Supplementary_services/CLIR	
Selection criteria:	The calling user is provided with CLIR permanent mode subscription, the called user with	
	CLIP	
Test purpose:	Ensure that when no Calling party number is provided by the calling user (and no Calling	
	party subaddress), the Calling party number information element is network provided a	
	delivered to the called user without any digit information.	
Parameter values:	BC = PIXIT	
Comments:		

IHISSCLIR 04	ISDN ref. To: EN 300 093-1 [11] clause 9.4.1	PBN ref. to: H.246 Annex C [8] clauses C.6.2 and C.7.2	
	EN 300 092-1 [10] clause A.2		
	figure 2		
TSS reference:	ISDN-H.323-ISDN/Supplementary_	_services/CLIR	
Selection criteria:	The calling user is provided with CLIR temporary mode subscription;		
	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 with presentation in restricted is		
	provided by the calling user;		
	the Calling party number information element with the presentation indicator set to		
	"presentation restricted" is delive	red to the called user.	
Parameter values:	BC = PIXIT		
Comments:			

6.2.3 COLP

IHISSCOLP 01	ISDN ref. To: EN 300 097-1 [12],	PBN ref. to:
	clause 9.5.1	H.246 Annex C [8] clauses C.6.2 and C.7.2
TSS reference:	ISDN-H.323-ISDN/Supplementary_	_services/COLP
Selection criteria:	The calling user is provided with COLP	
Test purpose:	Ensure that when the Connected number is provided by the called user, Type of number "subscriber number", with Connected subaddress, the Connected number and Connected subaddress information elements are correctly delivered to the calling (served) user.	
Parameter values:	BC = PIXIT	
Comments:		

IHI_SSCOLP 02	ISDN ref. To: EN 300 097-1 [12],	PBN ref. to:
	clause 9.5.1	H.246 Annex C [8] clauses C.6.2 and C.7.2
TSS reference:	ISDN-H.323-ISDN/Supplementary_	_services/COLP
Selection criteria:	The calling user is provided with C	OLP
Test purpose:	Ensure that when the Connected number is provided by the called user, Type of number "national number", with Connected subaddress, the Connected number and Connected subaddress information elements are correctly delivered to the calling (served) user.	
Parameter values:	BC = PIXIT	
Comments:		

IHISSCOLP 03	ISDN ref. To: EN 300 097-1 [12],	PBN ref. to:
	clause 9.5.1	H.246 Annex C [8] clauses C.6.2 and C.7.2
TSS reference:	ISDN-H.323-ISDN/Supplementary_	_services/COLP
Selection criteria:	The calling user is provided with COLP	
Test purpose:	Ensure that when the Connected number is provided by the called user, Type of number "international number", with Connected subaddress, the Connected number and Connected subaddress information elements are correctly delivered to the calling (served) user.	
Parameter values:	BC = PIXIT	
Comments:		

IHI_SSCOLP 04	ISDN ref. To: EN 300 097-1 [12],	PBN ref. to:
	clause 9.5.1	H.246 Annex C [8] clauses C.6.2 and C.7.2
TSS reference:	ISDN-H.323-ISDN/Supplementary_	services/COLP/IHI_SSCOLP 04
Selection criteria:	The calling user is provided with Co	OLP
Test purpose:	Ensure that when the Connected number is provided by the called user, Type of number "unknown", with Connected subaddress, the Connected number information element with the with the Screening indicator value "user provided" and Connected subaddress information element correctly delivered to the calling (served) user.	
Parameter values:	BC = PIXIT	
Comments:		

IHISSCOLP 05	ISDN ref. To: EN 300 097-1 [12],	PBN ref. to:
	clause 9.5.1	H.246 Annex C [8] clauses C.6.2 and C.7.2
TSS reference:	ISDN-H.323-ISDN/Supplementary_	services/COLP
Selection criteria:	Calling user is provided with COLP	
Test purpose:	Ensure that when no Connected number is provided by the called user (and no Connected subaddress), the Connected number information element is network provided and correctly delivered to the calling (served) user.	
Parameter values:	BC = PIXIT	
Comments:		

IHISSCOLP 06	ISDN ref. To: EN 300 097-1 [12],	PBN ref. to:
	clause 9.5.1	H.246 Annex C [8] clauses C.6.2 and C.7.2
TSS reference:	ISDN-H.323-ISDN/Supplementary_	_services/COLP
Selection criteria:	Calling user is provided with COLP	
Test purpose:	Ensure that when an incorrect Connected number is provided by the called user (and no	
	Connected subaddress), the Conne	ected number information element is network provided
	and correctly delivered to the callin	g (served) user.
Parameter values:	BC = PIXIT	
Comments:		

IHISSCOLP 07	ISDN ref. To: EN 300 097-1 [12]	PBN ref. to:	
		H.246 Annex C [8] clauses C.6.2 and C.7.2	
TSS reference:	ISDN-H.323-ISDN/Supplementary_	_services/COLP	
Selection criteria:	Calling user is provided with CO	_P;	
	special arrangement applies.		
Test purpose:	Ensure that when a special arrangement applies and when a Connected number with		
	a Screening indicator value is provided by the called user in the CONNECT message,		
	(the Network shall discard the Screening indicator value);		
	the Connected number information element with the Screening indicator value		
	"user-provided, not screened" is	delivered to the calling user.	
Parameter values:			
Comments:			

IHISSCOLP 08	ISDN ref. To: EN 300 097-1 [12] PBN ref. to:
	H.246 Annex C [8] clauses C.6.2 and C.7.2
TSS reference:	ISDN-H.323-ISDN/Supplementary_services/COLP
Selection criteria:	Calling user is provided with COLP;
	special arrangement applies.
Test purpose:	Ensure that when a special arrangement applies and when a Connected number with the Type of number coded other than "national number" or "international number" is provided by the called user in the CONNECT message, (the Network shall discard the Connected number information element); the Connected number information element with the Screening indicator value "network provided" is delivered to the calling (served) user.
Parameter values:	
Comments:	

IHISSCOLP 09	ISDN ref. To: EN 300 097-1 [12],	PBN ref. to:
	clause 9.5.1	H.246 Annex C [8] clauses C.6.2 and C.7.2
TSS reference:	ISDN-H.323-ISDN/Supplementary_	_services/COLP
Selection criteria:	Calling user is provided with COI	_P;
	special arrangement applies.	
Test purpose:	Ensure that when a special arra provided by the called user in the	ngement applies and when no Connected number is eCONNECT message;
	the Connected number information provided" is delivered to the calling	on element with the Screening indicator value "network ng (served) user.
Parameter values:	BC = PIXIT	
Comments:		

IHISSCOLP 10	ISDN ref. To: EN 300 097-1 [12],	PBN ref. to:
	clause 9.5.1	H.246 Annex C [8] clauses C.6.2 and C.7.2
TSS reference:	ISDN-H.323-ISDN/Supplementary_	_services/COLP
Selection criteria:	Calling user is provided with COL	_P;
	special arrangement applies.	
Test purpose:	Ensure that when a special arra information element and a Conne the called user in the CONNECT the Connected number information "user-provided, not screened" and delivered to the calling (served) u	ngement applies and when a Connected number ected subaddress information element is provided by message; on element with the Screening indicator value id a Connected subaddress information element is user.
Parameter values:	BC = PIXIT	
Comments:		

6.2.4 COLR

IHI_SSCOLR01	ISDN ref. To: EN 300 098-1 [13], clauses 9.3.1 and 9.4.1 EN 300 097-1 [12], clause 1, figure 4	PBN ref. to: H.246 Annex C [8] clauses C.6.2 and C.7.2
TSS reference:	ISDN-H.323-ISDN/Supplementary_	_services/COLR
Selection criteria:	The called (served) user is provide user with COLP	d with COLR permanent mode subscription, the calling
Test purpose:	Ensure that when the Connected number is provided by the called user, with Connected subaddress, the Connected number information element is delivered to the calling user without any digit information. The Connected subaddress shall not be present	
Parameter values:	BC = PIXIT	
Comments:		

IHISSCOLR02	ISDN ref. To: EN 300 098-1 [13], clauses 9.3.1 and 9.4.1 EN 300 097-1 [12], clause 1, figure 4	PBN ref. to: H.246 Annex C [8] clauses C.6.2 and C.7.2
TSS reference:	ISDN-H.323-ISDN/Supplementary_	_services/COLR
Selection criteria:	The called (served) user is provide user with COLP	d with COLR permanent mode subscription, the calling
Test purpose:	Ensure that when no Connected number is provided by the called user (and no Connected subaddress), the Connected number information element is network provided and delivered to the calling user without any digit information.	
Parameter values:	BC = PIXIT	
Comments:		

IHISSCOLR03	ISDN ref. To: EN 300 098-1 [13],	PBN ref. to:
	clauses 9.3.1 and 9.4.1	H.246 Annex C [8] clauses C.6.2 and C.7.2
	EN 300 097-1 [12], clause 1,	
	figure 4	
TSS reference:	ISDN-H.323-ISDN/Supplementary	_services/COLR
Selection criteria:	The called (served) user is provided with COLR permanent mode subscription, the calling	
	user with COLP	
Test purpose:	Ensure that when no Connected number is provided by the called user, with Connected	
	subaddress, the Connected number and Connected subaddress information elements are	
	correctly delivered to the calling us	er without any digit information.
Parameter values:	BC = PIXIT	
Comments:		

IHI_SSCOLR04	ISDN ref. To: EN 300 098-1 [13],	PBN ref. to:
	clauses 9.3.1 and 9.4.1	H.246 Annex C [8] clauses C.6.2 and C.7.2
	EN 300 097-1 [12], clause 1,	
	figure 4	
TSS reference:	ISDN-H.323-ISDN/Supplementary_	_services/COLR
Selection criteria:	The called (served) user is provide user with COLP	d with COLR permanent mode subscription, the calling
Test purpose:	Ensure that when a special arra provided by the called user in the the Connected number information "presentation restricted" and with (served) user.	ngement applies and when no Connected number is e CONNECT message; on element with Presentation indicator value nout connected party number is delivered to the calling
Parameter values:	BC = PIXIT	
Comments:		

IHISSCOLR05	ISDN ref. To: EN 300 098-1 [13], clauses 9.3.1 and 9.4.1 EN 300 097-1 [12], clause 1, figure 4	PBN ref. to: H.246 Annex C [8] clauses C.6.2 and C.7.2
TSS reference:	ISDN-H.323-ISDN/Supplementary	_services/COLR
Selection criteria:	The called (served) user is provide user with COLP	d with COLR temporary mode subscription, the calling
Test purpose:	Ensure that when a special arrangement applies and when the Connected number with the Presentation indicator "presentation restricted" is provided by the called user in the CONNECT message; the Connected number information element with Presentation indicator value "presentation restricted" and without connected party number is delivered to the calling (served) user.	
Parameter values:	BC = PIXIT	
Comments:		

6.2.5 DDI

IHISSDDI01	ISDN ref. to: EN 300 403-1 [9]	PBN ref. to:
	clause 5.1.5.1	H.246 Annex C [8] clauses C.6.2 and C.7.2
TSS reference:	ISDN-ISDN/Supplementary_service	es/DDI
Selection criteria:	en-bloc sending at user A	
	DDI at user B	
Test purpose:	Ensure that call establishment usin	g en-bloc sending is performed correctly when user B
	supports DDI.	
Parameter values:	BC = PIXIT	
Comments:		

IHISSDDII02	ISDN ref. to: EN 300 403-1 [9]	PBN ref. to:
	clause 5.1.5.2	H.246 Annex C [8] clauses C.6.2 and C.7.2
TSS reference:	ISDN-ISDN/Supplementary_service	es/DDI
Selection criteria:	overlap sending at user A	
	DDI at user B	
Test purpose:	Ensure that call establishment usin	g overlap sending is performed correctly when user B
	supports DDI.	
Parameter values:	BC = PIXIT	
Comments:		

6.2.6 CFU

IHII_SSCFU01	ISDN ref. to: EN 300 207-1 [16]	Other relevant ref .:
	clauses 6.1, 9.2.2 and 9.2.5	
TSS reference:	ISDN-H.323-ISDN/Supplementary_	_services/CFU
Selection criteria:	The user A and the user C are in network N1. The user B is in network N2 and is provided with CFU	
Test purpose:	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 B-channels is performed correctly (e.g. testing QoS parameters).	
Parameter values:	BC = PIXIT CF active	
Comments:		

IHII_SSCFU02	ISDN ref. to: EN 300 207-1 [16]	Other relevant ref .:
	clauses 9.2.2 and 9.2.5	
TSS reference:	ISDN-H.323-ISDN/Supplementary_	services/CFU
ISDN selection criteria:	The user B is in network N2 and is	provided with CFU
Test purpose:	To verify that a call is released corr	ectly if CFU was not successful.
	User A calls user B, the call is fe	prwarded to user C who is user determined user busy.
	User A is optionally notified of c	all diversion and user C is optionally informed of the
	forwarding number (user B has pre	sentation allowed).
ISDN parameter values:	CFU active	
Comments:		

IHII_SSCFU03	ISDN ref. to: EN 300 207-1 [16]	Other relevant ref .:
	clause 10.5	
TSS reference:	ISDN-H.323-ISDN/Supplementary_	_services/CFU
Selection criteria:	The user B is in network N2. Partia	I rerouting provided in PTNX in case of CFU
Test purpose:	User A calls user B. The public netre the private network (NT2) and perfore Ensure that in the active call state (performed correctly (e.g. testing Qc	work acts on the call rerouting invocation request from orms rerouting towards the indicated address (user C). (N10) the voice transfer on the B-channels is oS parameters).
ISDN parameter values:	CFU – partial rerouting	
Comments:		

6.2.7 CFB

IHII_SSCFB01	ISDN ref. to: EN 300 207-1 [16]	Other relevant ref .:
	clauses 9.2.2, 9.2.4.3 and 9.2.5	
TSS reference:	ISDN-H.323-ISDN/Supplementary_	_services/CFB
Selection criteria:	The user B is in network N2 and is provided with CFB-UDUB	
Test purpose:	Ensure that when user A calls busy user B, the call is forwarded to user C.	
	Ensure that in the active call state (N10) the voice transfer on the B-channels is	
	performed correctly (e.g. testing Qo	oS parameters).
Parameter values:	CF active	
Comments:		

IHII_SSCFB02	ISDN ref. to: EN 300 207-1 [16]	Other relevant ref.:
	clauses 9.2.2, 9.2.4.3 and 9.2.5	
TSS reference:	ISDN-H.323-ISDN/Supplementary_	_services/CFB
Selection criteria:	The user B is in network N2 and is	provided with CFB-NDUB
Test purpose:	Ensure that when user A calls busy the active call state (N10) the voice testing QoS parameters).	user B, the call is forwarded to user C. Ensure that in transfer on the B-channels is performed correctly (e.g.
Parameter values:	CF active	
Comments:		

IHII_SSCFB03	ISDN ref. to: EN 300 207-1 [16]	Other relevant ref.:
	clauses 9.2.2, 9.2.4.3 and 9.2.5	
TSS reference:	ISDN-H.323-ISDN/Supplementary_	_services/CFB
Selection criteria:	The user B is in network N2. Partia	I rerouting provided in PTNX in case of CFB
Test purpose:	User A calls user B. The public netr the private network (NT2) and performed that in the active call state (performed correctly (e.g. testing Qo	work acts on the call rerouting invocation request from orms rerouting towards the indicated address (user C). (N10) the voice transfer on the B-channels is oS parameters).
Parameter values:	CFB – partial rerouting	
Comments:		

6.2.8 CFNR

IHII_SSCFNR01	ISDN ref. to: EN 300 403-1 [9]	Other relevant ref.:
	clauses 9.2.2, 9.2.4.4 and 9.2.5	
TSS reference:	ISDN-H.323-ISDN/Supplementary_	_services/CFNR
Selection criteria:	The user A and the user C are in new with CFNR (option A, late release)	etwork N1. The user B is in network N2 and is provided
Test purpose:	Ensure that when user A calls user Ensure that in the active call state (performed correctly (e.g. testing Qo	B, if unanswered, the call is forwarded to user C. (N10) the voice transfer on the B-channels is oS parameters).
Parameter values:	CF active	
Comments:		

IHII_SSCFNR02	ISDN ref. to: EN 300 403-1 [9]	Other relevant ref.:	
	clauses 9.2.2, 9.2.4.4 and 9.2.5		
TSS reference:	ISDN-H.323-ISDN/Supplementary_	_services/CFNR	
Selection criteria:	The user A and the user C are in network N1. The user B is in network N2 and is provided		
	with CFNR (option B, immediate release)		
Test purpose:	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 B-channels is	
	performed correctly (e.g. testing Qo	oS parameters).	
Parameter values:	CFNR active		
Comments:			

IHII_SSCFNR03	ISDN ref. to: EN 300 403-1 [9]	Other relevant ref.:
	clauses 9.2.2 and 10.5	
TSS reference:	ISDN-H.323-ISDN/Supplementary_	services/CFNR
Selection criteria:	The user B is in network N2. Partial rerouting provided in PTNX in case of CFNR (option	
	A, late release)	
Test purpose:	User A calls user B. The public network acts on the call rerouting invocation request from the private network (NT2) and performs rerouting towards the indicated address (user C). Ensure that in the active call state (N10) the voice transfer on the B-channels is performed correctly (e.g. testing QoS parameters).	
ISDN parameter values:	CFNR - partial rerouting	
Comments:		

IHII_SSCFNR04	ISDN ref. to: EN 300 403-1 [9]	Other relevant ref.:
	clauses 9.2.2, 9.2.4.4 and 9.2.5	
TSS reference:	ISDN-H.323-ISDN/Supplementary_	_services/CFNR
Selection criteria:	The user B is in network N2. Partial (option B, immediate release).	I rerouting provided in PTNX in case of CFNR
Test purpose:	User A calls user B. The public network (NT2) and performer that in the active call state (performed correctly (e.g. testing Qc	work acts on the call rerouting invocation request from orms rerouting towards the indicated address (user C). (N10) the voice transfer on the B-channels is oS parameters).
ISDN parameter values:	CFNR - partial rerouting	
Comments:		

6.2.9 3PTY

IHII_SS3PTY01	ISDN ref. to: EN 300 188-1 [17],	Other relevant ref .:
	clause 9.2	
TSS reference:	ISDN-H.323-ISDN/Supplementary_	_services/3PTY
Selection criteria:	The user A is in network N1 and is	provided with 3PTY. The user B and user C are in the
	network N2.	
Test purpose:	Ensure that user A can establish a and release the Active-Idle connect	three-way conversation call with user B and user C tion (A-C). After the completion of the Retrieve
	function, the call clearing procedure	e is performed from user A.
Parameter values:	BC = speech	
Comments:		

IHII_SS3PTY02	ISDN ref. to: EN 300 188-1 [17],	Other relevant ref.:
	clause 9.2, figure A.2	
TSS reference:	ISDN-H.323-ISDN/Supplementary_	_services/3PTY
Selection criteria:	The user A is in network N1 and is network N2.	provided with 3PTY.The user B and user C are in the
Test purpose:	Ensure that user A can establish a and release the Active-Held connect from user A.	three-way conversation call with user B and user C ction (A-B). The call clearing procedure is performed
Parameter values:	BC = speech	
Comments:		

IHII_SS3PTY03	ISDN ref. to: EN 300 188-1 [17],	Other relevant ref .:
	clause 9.2	Figure 2-8/Q.734.2 - User B disconnects
TSS reference:	ISDN-H.323-ISDN/Supplementary	_services/3PTY
Selection criteria:	The user A is in network N1 and is network N2.	provided with 3PTY. The user B and user C are in the
Test purpose:	Ensure that user A can establish a three-way conversation call with user B and user C and user B sends disconnect during the Three-Party communication.	
Parameter values:	BC = speech	
Comments:		

IHII_SS3PTY04	ISDN ref. to: EN 300 188-1 [17],	Other relevant ref .:
	clause 9.2	Figure 2-9/Q.734.2 - User C disconnects
TSS reference:	ISDN-H.323-ISDN/Supplementary_	_services/3PTY
Selection criteria:	The user A is in network N1 and is network N2.	provided with 3PTY. The user B and user C are in the
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.	
Parameter values:	BC = speech	
Comments:		

IHII_SS3PTY05	ISDN ref. to: EN 300 188-1 [17]	Other relevant ref .:
	clause 9.2	
TSS reference:	ISDN-H.323-ISDN/Supplementary	_services/3PTY
Selection criteria:	The user A is in network N1 and is network N2.	provided with 3PTY. The user B and user C are in the
Test purpose:	Ensure that user A can establish a three-way conversation call with user B and user C and release of both remote users, user C is released first.	
Parameter values:	BC = speech	
Comments:		

IHII_SS3PTY06	ISDN ref. to: EN 300 188-1 [17], clause 9.2	Other relevant ref.:
TSS reference:	ISDN-H.323-ISDN/Supplementary_	_services/3PTY
Selection criteria:	The user A is in network N1 and is provided with 3PTY. The user B and user C are in the network N2.	
Test purpose:	Ensure that user A can establish a three-way conversation call with user B and user C and create a private communication with user B. The call clearing procedure is performed from user A	
Parameter values:	BC = speech	
Comments:		

IHII_SS3PTY07	ISDN ref. to: EN 300 188-1 [17],	Other relevant ref .:
	clause 9.2	
TSS reference:	ISDN-H.323-ISDN/Supplementary_	_services/3PTY
Selection criteria:	The user A is in network N1 and is network N2.	provided with 3PTY. The user B and user C are in the
Test purpose:	Ensure that user A can establish a and create a private communicatior from user A	three-way conversation call with user B and user C n with user C. The call clearing procedure is performed
Parameter values:	BC = speech	
Comments:		

6.2.10 HOLD

IHI_SSHOLD01	ISDN ref. to: EN 300 141-1 [18],	Other relevant ref .:
	clause 7	EN 300 196-1 [25], clause 7.1
TSS reference:	ISDN-H.323-ISDN/Supplementary_	_services/HOLD
Selection criteria:	The calling user is provided with HOLD	
Test purpose:	Ensure that the calling user can activate the call hold and retrieval procedure. Ensure that in the active call state (N10) the voice transfer on the B-channels is performed correctly (e.g. testing QoS parameters).	
Parameter values:	BC = speech	
Comments:		

IHISSHOLD02	ISDN ref. to: EN 300 141-1 [18],	Other relevant ref.:
	clause 7	EN 300 196-1 [25], clause 7.1
TSS reference:	ISDN-H.323-ISDN/Supplementary_	_services/HOLD
Selection criteria:	The calling user is provided with HOLD	
Test purpose:	Ensure that the calling user can initiate Call Hold and that the call can be released from	
	the calling user during the held stat	e.
Parameter values:	BC = speech	
Comments:		

IHISSHOLD03	ISDN ref. to: EN 300 141-1 [18],	Other relevant ref.:
	clause 7	EN 300 196-1 [25], clause 7.1
TSS reference:	ISDN-H323-ISDN/Supplementary_services/HOLD	
Selection criteria:	The calling user is provided with HOLD	
Test purpose:	Ensure that the calling user can initiate Call Hold and that the call can be released from	
	the called user in the held state.	
Parameter values:	BC = speech	
Comments:		

6.2.11 CW

IHII_SSCW01	ISDN ref. to: EN 300 058-1 [19]	Other relevant ref .:
	clause 7	EN 300 403-1 [9] clause 4.5.2.1
TSS reference:	ISDN-H.323-ISDN/Supplementary_services/CW	
Selection criteria:	The called user is provided with CW, notification allowed	
Test purpose:	Ensure that the Waiting call is released at the terminating exchange after timer expired	
Parameter values:	BC = PIXIT	
Comments:		

IHISSCUG01	ISDN ref. to: EN 300 138-1 [20]	Other relevant ref .:		
	clauses 9.2.2 and 9.2.4			
TSS reference:	ISDN-H.323-ISDN/Supplementary_	_services/CUG		
Selection criteria:	Orign.: The calling user belongs to	Orign.: The calling user belongs to a CUG with the following CUG		
	supplementary options: not OA; not ocb; not Pref. CUG			
Test purpose:	Ensure that when the calling user belongs to a CUG with outgoing access is not allowed, not outgoing calls barred within the CUG and not preferential CUG and the called user belongs not to a CUG, after the receipt of a SETUP message with a Facility IE containing a cUGCall invoke component with OARequested set to TRUE, CUG Index included; call establishment is not possible and the network initiate call clearing to the calling user with cause value 87 "User Not Member Of CUG".			
Parameter values:	BC = PIXIT; Facility IE with cUGCall invoke component:			
		OARequested set to TRUE		
	CUG Index included			
Comments:				

6.3 Test purposes for ISDN-PSTN, Basic call

6.3.1 Successful-Speech

Successful	
Speech	

IHPSP01	ISDN ref. to: EN 300 403-1 [9] clause 5.1.6	PBN ref. to: H.246 Annex C [8] clauses C.6.2 and C.7.2
TSS reference:	ISDN-H.323-PSTN/Basic_call/Successful/Speech	
Selection criteria:		
Test purpose:	Ensure that the call establishment using en-bloc sending is performed correctly. During call establishment a Progress indicator information element shall be returned to the calling user with progress description value #1 "call is not end-to-end ISDN". and optional #2 "destination address is non-ISDN".	
Parameter values:	BC = speech, no HLC	
Comments:		

IHPSP02	ISDN ref. to: EN 300 403-1 [9]	PBN ref. to:
	clause 5.1.6	H.246 Annex C [8] clauses C.6.1 and C.7.1
TSS reference:	ISDN-H.323-PSTN/Basic_call/Successful/Speech	
Selection criteria:		
Test purpose:	Ensure that the call establishment using overlap sending is performed correctly. During call establishment a Progress indicator information element shall be returned to the calling user with progress description value #1 "call is not end-to-end ISDN" and optional #2 "destination address is non-ISDN".	
Parameter values:	BC = speech, no HLC	
Comments:		

IHPSP03	ISDN ref. to: EN 300 403-1 [9]	PBN ref. to:
	clause 5.3.3	H.246 Annex C [8] clauses C.6.1 and C.7.1
TSS reference:	ISDN-H.323-PSTN/Basic_call/Successful/Speech	
Selection criteria:		
Test purpose:	Ensure that the clearing procedure is performed correctly when the calling user clears after answer.	
Parameter values:	BC = speech, no HLC	
Comments:		

IHPSP04	ISDN ref. to: EN 300 403-1 [9]	PBN ref. to:
	clause 5.3.3	H.246 Annex C [8] clauses C.6.1 and C.7.1
TSS reference:	ISDN-H.323-PSTN/Basic_call/Succ	cessful/Speech
Selection criteria:		
Test purpose:	Ensure that the clearing procedure is performed correctly when the called user clears	
	after answer	
Parameter values:	BC = speech, no HLC	
Comments:		

IHPSP05	ISDN ref. to: EN 300 403-1 [9]	PBN ref. to:
		H.246 Annex C [8] clauses C.6.1 and C.7.1
TSS reference:	ISDN-H.323-PSTN/Basic_call/Su	uccessful/Speech
Selection criteria:		
Test purpose:	Ensure that the reanswer procedure is performed correctly when the called user clears and reanswers	
Parameter values:	BC = speech, no HLC	
Comments:		

IHPSP06	ISDN ref. to: EN 300 403-1 [9]	PBN ref. to:
	clauses 4.5.16 and 5.1.6	H.246 Annex C [8] clauses C.6.1 and C.7.1
TSS reference:	ISDN-H.323-PSTN/Basic_call/Successful/Speech/IHP_SP_06	
Selection criteria:		
Test purpose:	Support of telephony 3,1 kHz teleservice: Ensure that call establishment can be done with HLC. During call establishment a Progress indicator information element shall be returned to the calling user with progress description value #1 "call is not end-to-end ISDN" and optional #2 "destination address is non-ISDN".	
Parameter values:	BC = speech, HLC = telephony	
Comments:		

6.3.2 Successful-Audio

Successful	
3,1 kHz audio	

IHPAU01	ISDN ref. to: EN 300 403-1 [9]	PBN ref. to:
	clause 5.1.6	H.246 Annex C [8] clauses C.6.1 and C.7.1
TSS reference:	ISDN-H.323-PSTN/Basic_call/Succ	cessful/Audio
Selection criteria:		
Test purpose:	Ensure that the call establishment using en-bloc sending is performed correctly. During call establishment a Progress indicator information element shall be returned to the calling user with progress description value #1 "call is not end-to-end ISDN" and optional #2 "destination address is non-ISDN".	
Parameter values:	BC = 3,1 kHz audio, no HLC	
Comments:		

IHPAU02	ISDN ref. to: EN 300 403-1 [9]	PBN ref. to:
	clause 5.1.6	H.246 Annex C [8] clauses C.6.1 and C.7.1
TSS reference:	ISDN-H.323-PSTN/Basic_call/Successful/Audio	
Selection criteria:		
Test purpose:	Ensure that the call establishment using overlap sending is performed correctly. During call establishment a Progress indicator information element shall be returned to the calling user with progress description value #1 "call is not end-to-end ISDN" and optional #2 "destination address is non-ISDN".	
Parameter values:	BC = 3,1 kHz audio, no HLC	
Comments:		

IHPAU03	ISDN ref. to: EN 300 403-1 [9]	PBN ref. to:
	clause 5.3.3	H.246 Annex C [8] clauses C.6.1 and C.7.1
TSS reference:	ISDN-H.323-PSTN/Basic_call/Successful/Audio	
Selection criteria:		
Test purpose:	Ensure that the clearing procedure is performed correctly when the calling user clears	
	after answer	
Parameter values:	BC = 3,1 kHz audio, no HLC	
Comments:		

IHPAU04	ISDN ref. to: EN 300 403-1 [9]	PBN ref. to:
	clause 5.3.3	H.246 Annex C [8] clauses C.6.1 and C.7.1
TSS reference:	ISDN-H.323-PSTN/Basic_call/Succ	cessful/Audio
Selection criteria:		
Test purpose:	Ensure that the clearing procedure is performed correctly when the called user clears after answer	
Parameter values:	BC = 3,1 kHz audio, no HLC	
Comments:		

IHPAU05	ISDN ref. to: EN 300 403-1 [9]	PBN ref. to:
	clauses 4.5.16 and 5.1.6	H.246 Annex C [8] clauses C.6.1 and C.7.1
TSS reference:	ISDN-H.323-PSTN/Basic_call/Succ	cessful/Audio
Selection criteria:		
Test purpose:	Support of Telefax G2/G3: Ensure that call establishment can be done with HLC. During call establishment a Progress indicator information element shall be returned to the calling user with progress description value #1 "call is not end-to-end ISDN" or #2 "destination address is non-ISDN".	
Parameter values:	BC = 3,1 kHz audio, HLC = facsimi	le group 2/3
Comments:		

IHPAU06	ISDN ref. to: EN 300 403-1 [9] clause 4.5.18	PBN ref. to: H.246 Annex C [8] clauses C.6.1 and C.7.1
TSS reference:	ISDN-H.323-PSTN/Basic_call/Successful/Audio	
Selection criteria:		
Test purpose:	Support of voice band data via modem: Ensure that call establishment can be done with LLC. During call establishment a Progress indicator information element shall be returned to the calling user with progress description value #1 "call is not end-to-end ISDN" and optional #2 "destination address is non-ISDN".	
Parameter values:	BC = 3,1 kHz audio, LLC = voice band data via modem	
Comments:		

6.3.3 Unsuccessful

Unsuccessful

IHPxx_U01	ISDN ref. to: EN 300 403-1 [9]	PBN ref. to:
		H.246 Annex C [8] clauses C.6.1 and C.7.1
TSS reference:	ISDN-H.323-PSTN/Basic_call/Unsuccessful	
Selection criteria:		
Test purpose:	Ensure that when the called PSTN	I user is busy the network transport the cause value
	#17 "user busy" to the calling user	
Parameter values:	BC = PIXIT	
Comments:		

IHPxx_U02	ISDN ref. to: EN 300 403-1 [9]	PBN ref. to:
		H.246 Annex C [8] clauses C.6.1 and C.7.1
TSS reference:	ISDN-H.323-PSTN/Basic_call/Unst	uccessful
Selection criteria:		
Test purpose:	Ensure that when calling to a unallo	ocated PSTN number, the network initiate call clearing
	to the calling user with cause value	#1 "unassigned number"
Parameter values:	BC = PIXIT	
Comments:	IBC = PIXII If in BC in the SETUP is coded speech or 3,1 kHz audio in the case when the calling user is calling to an unallocated number the tones or announcement can only by generated in the destination exchange (or intermediate exchange) during call establishment (see ITU-T Recommendation Q.764 [21] clause 2.2). The originating exchange sends a DISCONNECT message to the calling user with progress indicator #8 thus indicating that in-band information is available. Normal release procedure apply after the in-band information has been connected. The calling user shall receive in the disconnect indication state (N12) the in-band	

	-	
IHPxx_U03	ISDN ref. to: EN 300 403-1 [9]	PBN ref. to:
		H.246 Annex C [8] clauses C.6.1 and C.7.1
TSS reference:	ISDN-H.323-PSTN/Basic_call/Uns	uccessful
Selection criteria:		
Test purpose:	Ensure that when the calling user clears with cause value #16 "normal call clearing"	
	before answer from the called PSTN user, the call is cleared	
Parameter values:	BC = PIXIT	
Comments:	If in BC in the SETUP is coded speech or 3,1 kHz audio the originating exchange sends a	
DISCONNECT message to the calling user with progress indicator #8 thus indic in-band information is available. Normal release procedure apply after the in-ba		ling user with progress indicator #8 thus indicating that
		ormal release procedure apply after the in-band
	information has been connected. T	he calling user shall receive in the disconnect
	indication state (N12) the in-band t	one/announcement on the B-channel.

IHPxx_U04	ISDN ref. to: EN 300 403-1 [9]	PBN ref. to:
		H.246 Annex C [8] clauses C.6.1 and C.7.1
TSS reference:	ISDN-H.323-PSTN/Basic_call/Ur	nsuccessful
Selection criteria:		
Test purpose:	Ensure that when the called PSTN user is ringing but not answering, the network initiate call clearing to the calling user with cause value #18 "no user responding" or cause value #19 "no answer from user (user alerted)"	
Parameter values:	BC = PIXIT	
Comments:	If in BC in the SETUP is coded speech or 3,1 kHz audio the originating exchange sends a DISCONNECT message to the calling user with progress indicator #8 thus indicating that in-band information is available. Normal release procedure apply after the in-band information has been connected. The calling user shall receive in the disconnect indication state (N12) the in-band tone/announcement on the B-channel.	

6.4 Test purposes for ISDN-PSTN, Supplementary services

6.4.1 CLIP

IHPxxSSCLIP01	ISDN ref. to:	PBN ref. to:
	EN 300 403-1 [9]	H.246 Annex C [8] clauses C.6.2 and C.7.2
	EN 300 001 [22]	
	ETS 300 648 [23]	
	EN 300 659 [24]	
TSS reference:	ISDN-H.323-PSTN/Supplementary_services/CLIP	
Selection criteria:	The called user is provided with CLIP	
Test purpose:	Ensure that when the Calling party number is provided by the calling user, the Calling	
	party number is user provided correctly delivered to the called (served) user.	
Parameter values:	BC = PIXIT	
Comments:		

IHPxxSSCLIP02	ISDN ref. to:	PBN ref. to:
	EN 300 403-1 [9]	H.246 Annex C [8] clauses C.6.2 and C.7.2
	EN 300 001 [22]	
	ETS 300 648 [23]	
	EN 300 659 [24]	
TSS reference:	ISDN-H.323-PSTN/Supplementary_services/CLIP	
Selection criteria:	The called user is provided with CLIP	
Test purpose:	Ensure that when no calling party number is provided by the calling user, the Calling party	
	number information element is network provided and correctly delivered to the called	
	(served) user.	
Parameter values:	BC = PIXIT	
Comments:		

6.4.2 CLIR

IHPxxSSCLIR01	ISDN ref. to:	PBN ref. to:
	EN 300 403-1 [9]	H.246 Annex C [8] clauses C.6.2 and C.7.2
	EN 300 001 [22]	
	ETS 300 648 [23]	
	EN 300 659 [24]	
TSS reference:	ISDN-H.323-PSTN/Supplementary_services/CLIP	
Selection criteria:	the called user is provided with CLIP;	
	the calling user is provided with (CLIR
Test purpose:	The calling user is provided with CLIR permanent mode subscription	
	Ensure that when the Calling party	subaddress is provided by the calling user the Calling
	party number is not delivered to the	e called user.
Parameter values:	BC = PIXIT Calling party subaddress	
Comments:		

IHPxxSSCLIR02	ISDN ref. to:	PBN ref. to:
	EN 300 403-1 [9]	H.246 Annex C [8] clauses C.6.2 and C.7.2
	EN 300 001 [22]	
	ETS 300 648 [23]	
	EN 300 659 [24]	
TSS reference:	ISDN-H.323-PSTN/Supplementary_services/CLIP	
Selection criteria:	the called user is provided with CLIP;	
	the calling user is provided with (CLIR
Test purpose:	The calling user is provided with CLIR permanent mode subscription	
	Ensure that when No Calling party subaddress is provided by the calling user t	
	party number is not delivered to the called user.	
Parameter values:	BC = PIXIT	
Comments:		

6.4.3 COLP

IHPxxSSCOLP01	ISDN ref. to: EN 300 097-1 [12],	PBN ref. to:
	clauses 9.5.1 and 11	H.246 Annex C [8] clauses C.6.2 and C.7.2
TSS reference:	ISDN-H.323-PSTN/Supplementary	_services/COLP
Selection criteria:	The calling user is provided with COLP	
Test purpose:	Ensure that the Connected number information element is network provided and correctly	
	delivered to the calling user or, if th	e PSTN does not support this service, the presentation
	indicator indicate "number not avail	able due to interworking"
Parameter values:	BC = PIXIT	
Comments:		

6.4.4 COLR

IHPxxSSCOLR01	ISDN ref. to: EN 300 098-1 [13]	PBN ref. to:
	clauses 9.3.1, 9.4.1 and 11	H.246 Annex C [8] clauses C.6.2 and C.7.2
	EN 300 097-1 [12], clause 9.5.1	
TSS reference:	ISDN-H.323-PSTN/Supplementary_services/COLR	
Selection criteria:	The called PSTN user is provided with COLR, the calling user is provided with COLP	
Test purpose:	Ensure that the Connected number information element is network provided and delivered to the calling user without any digit information or, if the PSTN does not support this service, the presentation indicator indicate "number not available due to interworking"	
Parameter values:	BC = PIXIT	
Comments:		

6.4.5 CUG

IHP_SSCUG01	ISDN ref. to: EN 300 138-1 [20]	Other relevant ref .:	
	clauses 9.2.2 and 9.2.4		
TSS reference:	ISDN-H.323-PSTN/Supplementary_services/CUG		
Selection criteria:	The calling user belongs to a CUG w	The calling user belongs to a CUG with the following CUG	
	supplementary options: not OA; not	ocb; not Pref. CUG	
Test purpose:	Ensure that when the calling user be not outgoing calls barred within the 0 belongs not to a CUG, after the rece a cUGCall invoke component with O call establishment is not possible an with cause value 87 "User Not Meml	elongs to a CUG with outgoing access is not allowed, CUG and not preferential CUG and the called user eipt of a SETUP message with a Facility IE containing DARequested set to TRUE, CUG Index included; d the network initiate call clearing to the calling user ber Of CUG".	
Parameter values:	BC = PIXIT; Facility IE with cUGCall invoke component:		
		OARequested set to TRUE	
		CUG Index included	
Comments:			

6.5 Test purposes for PSTN-ISDN, Basic call

6.5.1 Successful - PSTN

Successful	
PSTN	

PHIAU01	ISDN ref. to: EN 300 403-1 [9]	PBN ref. to:	
	clauses 5.2.6 and B.4	H.246 Annex C [8] clauses C.6.1 and C.7.1	
TSS reference:	PSTN-H.323-ISDN/Basic_call/Successful		
Selection criteria:			
Test purpose:	Ensure that call is delivered to the called ISDN user with the Bearer capability information		
Parameter values:			
Comments:	Some networks as an national option are sending during call establishment a Progress indicator information element shall be included in the SETUP message sent to the called user with progress description value #1 "call is not end-to-end ISDN" and optional # 3 'origination address is non-ISDN'		

PHIAU02	ISDN ref. to: EN 300 403-1 [9]	PBN ref. to:
		H.246 Annex C [8] clauses C.6.1 and C.7.1
TSS reference:	PSTN-H.323-ISDN/Basic_call/Succ	cessful
Selection criteria:		
Test purpose:	Ensure that the clearing procedure is performed correctly when the calling user clears the	
	call after answering.	
Parameter values:		
Comments:		

PHIAU03	ISDN ref. to: EN 300 403-1 [9]	PBN ref. to:	
		H.246 Annex C [8] clauses C.6.1 and C.7.1	
TSS reference:	PSTN-H.323-ISDN/Basic_call/Su	PSTN-H.323-ISDN/Basic_call/Successful	
Selection criteria:			
Test purpose:	Ensure that the clearing procedure is performed correctly when the called ISDN user clears the call after answering		
Parameter values:			
Comments:			

6.5.2 Unsuccessful - PSTN

Unsuccessful	
PSTN	

PHIAU_U01	ISDN ref. to: EN 300 403-1 [9]	PBN ref. to:
		H.246 Annex C [8] clauses C.6.1 and C.7.1
TSS reference:	PSTN-H.323-ISDN/Basic_call/Unsuccessful	
Selection criteria:		
Test purpose:	Ensure that when the called ISDN user is busy, the calling user receives in-band information that the called user is busy	
Parameter values:		
Comments:		

PHIAU_U02	ISDN ref. to: EN 300 403-1 [9]	PBN ref. to: H.246 Annex C [8] clauses C.6.1 and C.7.1
TSS reference:	PSTN-H.323-ISDN/Basic_call/Uns	uccessful
Selection criteria:		
Test purpose:	Ensure that when the called ISDN user terminal is not connected, the calling user receives in-band announcement that the destination is out of order	
Parameter values:		
Comments:		

PHIAU_U03	ISDN ref. to: EN 300 403-1 [9]	PBN ref. to: H.246 Annex C [8] clauses C.6.1 and C.7.1
TSS reference:	PSTN-H.323-ISDN/Basic_call/Unsuccessful	
Selection criteria:		
Test purpose:	Ensure that when calling to unallocated ISDN number, the calling user receives in-band information that the called number is unallocated.	
Parameter values:		
Comments:		

PHIAU_U05	ISDN ref. to: EN 300 403-1 [9]	PBN ref. to:
		H.246 Annex C [8] clauses C.6.1 and C.7.1
TSS reference:	PSTN-H.323-ISDN/Basic_call/Unsuccessful	
Selection criteria:	Point-to-point configuration for the called side.	
Test purpose:	Ensure that when the calling user clears before answer from the called ISDN user in a	
	point-to-point access configuration	i, the call is cleared
Parameter values:		
Comments:		

PHIAU_U06	ISDN ref. to: EN 300 403-1 [9]	PBN ref. to:
		H.246 Annex C [8] clauses C.6.1 and C.7.1
TSS reference:	PSTN-H.323-ISDN/Basic_call/Unsuccessful	
Selection criteria:		
Test purpose:	Ensure that when the called ISDN user is alerted by not answering before timer Q118 expires, the network initiate call clearing.	
Parameter values:		
Comments:		

6.6 Test purposes for PSTN-ISDN, Supplementary services

6.6.1 CLIP

PHI_AUSSCLIP01	ISDN ref. to: EN 300 092-1 [10] clauses 9.5.1 and 11	PBN ref. to: H.246 Annex C [8] clauses C.6.2 and C.7.2
TSS reference:	PSTN-H.323-ISDN/Supplementary_services/CLIP	
Selection criteria:	The called (served) user is provided with CLIP	
Test purpose:	Ensure that the Calling party number information element is network provided and correctly delivered to the called ISDN user or, if the PSTN does not support this service, the presentation indicator indicates "number not available due to interworking"	
Parameter values:		
Comments:		

6.6.2 CLIR

PHI_AUSSCLIR01	ISDN ref. to: EN 300 093-1 [11] PBN ref. to:		
	clause 9.4.1	H.246 Annex C [8] clauses C.6.2 and C.7.2	
	EN 300 092-1 [10] clause 9.5.1		
TSS reference:	PSTN-H.323-ISDN/Supplementary	PSTN-H.323-ISDN/Supplementary_services/CLIR	
Selection criteria:	The calling (served) user is provide	The calling (served) user is provided with CLIR, the called user with CLIP	
Test purpose:	Ensure that the Calling party number information element is network provided and correctly delivered to the called user without any digit information or, if the PSTN does not support this service, the presentation indicator indicates "number not available due to interworking"		
Parameter values:			
Comments:			

	10DN and the EN1 000 400 4 [0]	DDN ref to:
PHI_AUSSDDI01	ISDN ref. to: EN 300 403-1 [9]	PBN ref. to:
	clause 5.1.5.2	H.246 Annex C [8] clauses C.6.2 and C.7.2
TSS reference:	PSTN-H.323-ISDN/Supplementary	_services/DDI
Selection criteria:	overlap sending at user A DDI at user B	
Test purpose:	Ensure that call establishment using overlap sending is performed correctly when user B supports DDI.	
Parameter values:		
Comments:	The network in the call state N25 to indicate that an INFORMATION message received from the originating network contained a Called party number information element with the full ISDN number including DDI digits and a Sending complete information element is to be sent to the called user; transmits to user B an INFORMATION message with a valid Called party number information element with the numbering plan identification field set to "ISDN/telephony numbering plan" and type of number field set to "national number", "international number" or "subscriber number" with the DDI digits contained in the number digits field.	

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6.6.4 CUG

PHI_AUSSCUG01	ISDN ref. to: EN 300 138-1 [20] clauses 9.2.2 and 9.2.4	Other relevant ref.:	
TSS reference:	PSTN-H.323-ISDNSupplementary	PSTN-H.323-ISDNSupplementary_services/CUG	
Selection criteria:	The calling user belongs to a CUG with the following CUG supplementary options: not OA; not ocb; not Pref. CUG		
Test purpose:	Ensure that when the calling user belongs to a CUG with outgoing access is not allowed; call establishment is not possible and the network initiate call clearing to the calling user with cause value 87 "User Not Member Of CUG".		
Parameter values:			
Comments:			

- ETSI ETS 300 083: "Integrated Services Digital Network (ISDN); Circuit mode structured bearer service category usable for speech information transfer; Terminal requirements for end-to-end compatibility".
- ETSI ETS 300 084: "Integrated Services Digital Network (ISDN); Circuit mode structured bearer service category usable for 3,1 kHz audio information transfer; Terminal requirements necessary for end-to-end compatibility".
- ETSI TBR 008: "Integrated Services Digital Network (ISDN); Telephony 3,1 kHz teleservice; Attachment requirements for handset terminals".
- ETSI ETR 193: "Methods for Testing and Specification (MTS); Network Integration Testing (NIT); Methodology aspects; Test Co-ordination Procedure (TCP) style guide".
- ITU-T Recommendation I.411 (1988): "ISDN user-network interfaces Reference configurations".
- ETSI ETS 300 121: "Integrated Services Digital Network (ISDN); Application of the ISDN User Part (ISUP) of CCITT Signalling System No.7 for international ISDN interconnections (ISUP version 1)".
- ITU-T Recommendation H.242: "System for establishing communication between audiovisual terminals using digital channels up to 2 Mbit/s".
- 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".
- ETSI ETR 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".
- ETSI ETS 300 092-1/Amendment 2: "Integrated Services Digital Network (ISDN); Calling Line Identification Presentation (CLIP) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- ITU-T Recommendation H.245: "Control protocol for multimedia communication".
- ETSI EN 300 267-1: "Integrated Services Digital Network (ISDN); Telephony 7 kHz and videotelephony teleservices; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".

History

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