

**Services and Protocols for Advanced Networks (SPAN);  
Network Integration Testing between H.323, ISDN and PSTN;  
Part 1: Test Suite Structure and Test purposes (TSS&TP)**

---



---

Reference

DTS/SPAN-130303-1

---

Keywords

H.323, NIT, testing, TSS&TP

**ETSI**

650 Route des Lucioles  
F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C  
Association à but non lucratif enregistrée à la  
Sous-Préfecture de Grasse (06) N° 7803/88

---

**Important notice**

Individual copies of the present document can be downloaded from:

<http://www.etsi.org>

The present document may be made available in more than one electronic version or in print. In any case of existing or perceived difference in contents between such versions, the reference version is the Portable Document Format (PDF). In case of dispute, the reference shall be the printing on ETSI printers of the PDF version kept on a specific network drive within ETSI Secretariat.

Users of the present document should be aware that the document may be subject to revision or change of status. Information on the current status of this and other ETSI documents is available at

<http://portal.etsi.org/tb/status/status.asp>

If you find errors in the present document, send your comment to:

[editor@etsi.org](mailto:editor@etsi.org)

---

**Copyright Notification**

No part may be reproduced except as authorized by written permission.  
The copyright and the foregoing restriction extend to reproduction in all media.

© European Telecommunications Standards Institute 2003.  
All rights reserved.

**DECT™**, **PLUGTESTS™** and **UMTS™** are Trade Marks of ETSI registered for the benefit of its Members.  
**TIPHON™** and the **TIPHON logo** are Trade Marks currently being registered by ETSI for the benefit of its Members.  
**3GPP™** is a Trade Mark of ETSI registered for the benefit of its Members and of the 3GPP Organizational Partners.

# Contents

Intellectual Property Rights .....	5
Foreword.....	5
1 Scope .....	6
2 References .....	6
3 Definitions and abbreviations.....	8
3.1 Definitions .....	8
3.2 Abbreviations .....	8
4 Architecture and Test Suite Structure (TSS).....	9
4.1 Architecture .....	9
4.2 Test Suite Structure (TSS).....	10
4.2.1 ISDN-H.323.....	10
4.2.2 H.323-ISDN.....	10
4.2.3 PSTN-H.323 .....	11
4.2.4 H.323-PSTN .....	11
4.2.5 H.323-H.323 (PC-PC).....	11
5 Numbering Scheme .....	12
6 Test purposes.....	13
6.1 Test purposes for ISDN-H.323 Basic call Successful -Speech .....	13
6.2 Test purposes for ISDN-H.323 Basic call Successful - 3,1 kHz audio.....	18
6.3 Test purposes for ISDN-H.323 Basic call Successful -UDI.....	25
6.4 Test purposes for ISDN-H.323 Basic call Unsuccessful .....	31
6.5 Test purposes for ISDN-H.323 Basic call Unsuccessful -UDI/TA .....	35
6.6 Test purposes for ISDN-H.323 Supplementary services .....	35
6.7 Test purposes for H.323-ISDN, Basic call, Successful speech .....	40
6.8 Test purposes for H.323-ISDN, Basic call, Successful 3,1 kHz.....	47
6.9 Test purposes for H.323-ISDN, Basic call, UDI .....	53
6.10 Test purposes for H.323-ISDN, Basic call, Unsuccessful .....	58
6.11 Test purposes for H.323- ISDN Supplementary services.....	60
6.12 Test purposes for H.323-PSTN, Basic call, Successful - Speech.....	64
6.13 Test purposes for H.323-PSTN, Basic call, Successful - 3,1 kHz audio .....	66
6.14 Test purposes for H.323-PSTN, Basic call, Unsuccessful.....	67
6.15 Test purposes for PSTN-H.323, Basic call.....	69
6.16 Test purposes for PSTN-H.323, Unsuccessful .....	70
6.17 Test purposes for H.323-H.323 Basic call, Successful.....	71
6.18 Test purposes for H.323-H.323 Basic call, Unsuccessful.....	76
<b>Annex A (normative):           Bearer capability default encoding for ISDN calling terminal   equipment and H.323 called terminal equipment (H.225 § 7.2.2.1.1) .....</b>	<b>79</b>
A.1 Request and recognition of a circuit-mode bearer service .....	79
A.1.1 Circuit-mode 64 kbit/s 8 kHz structured bearer service category usable for speech information transfer .....	79
A.1.1.1 Request by a ISDN calling terminal equipment.....	79
A.1.1.2 Compatibility at the called H.323 terminal equipment .....	79
A.1.2 Circuit-mode 64 kbit/s unrestricted 8 kHz structured bearer service category.....	80
A.1.2.1 Request by a ISDN calling terminal equipment.....	80
A.1.2.2 Compatibility at the called H.323 terminal equipment .....	80
A.1.2.3 ISDN connections involving restricted 64 kbit/s transfer capability .....	80
A.1.2.3.1 Request by a calling ISDN terminal connected to a network supporting 64 kbit/s unrestricted digital information transfer .....	80
A.1.2.3.2 Compatibility at the called H.323 terminal equipment connected to a network supporting 64 kbit/s unrestricted digital information transfer .....	81
A.1.2.3.3 Request by a calling ISDN terminal connected to a network supporting 64 kbit/s restricted digital information transfer.....	81

A.1.2.3.4	Compatibility at the called H.323 terminal equipment connected to a network using restricted digital information transfer .....	81
A.1.3	Circuit-mode 64 kbit/s 8 kHz structured bearer service category usable for 3,1 kHz audio information transfer.....	82
A.1.3.1	Request by a ISDN calling terminal equipment.....	82
A.1.3.2	Compatibility at the H.323 called terminal equipment .....	82
History	.....	83

---

## Intellectual Property Rights

IPRs essential or potentially essential to the present document may have been declared to ETSI. The information pertaining to these essential IPRs, if any, is publicly available for **ETSI members and non-members**, and can be found in ETSI SR 000 314: "*Intellectual Property Rights (IPRs); Essential, or potentially Essential, IPRs notified to ETSI in respect of ETSI standards*", which is available from the ETSI Secretariat. Latest updates are available on the ETSI Web server (<http://webapp.etsi.org/IPR/home.asp>).

All published ETSI deliverables shall include information which directs the reader to the above source of information.

---

## Foreword

This Technical Specification (TS) has been produced by ETSI Technical Committee Services and Protocols for Advanced Networks (SPAN).

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:

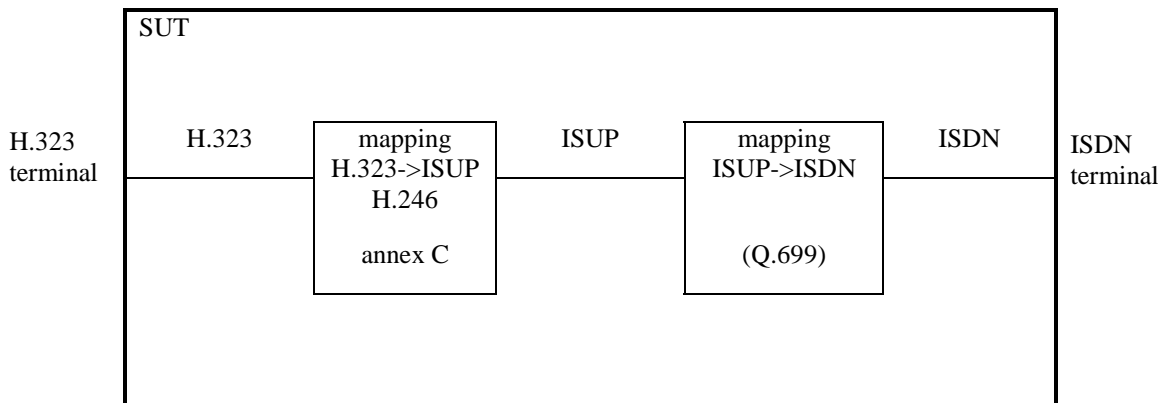
**Part 1:** "**Test Suite Structure and Test purposes (TSS&TP)**";

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

# 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 [3], ISDN and non-ISDN (PSTN) over the national or international ISUP between networks. The TSS&TP specification covers the procedures described in ITU-T Recommendation H.323 [3], ITU-T Recommendation H.225.0 [4] as specified in TS 101 883 [1] and ITU-T Recommendation Q.931 [5].

All test purposes are written with reference to ITU-T Recommendation H.246 annex C [10] which implies the following test architecture:



**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 [10] (H.323-ISUP) and ITU-T Recommendation Q.699 [23] (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 3; Technology Mapping; Implementation of TIPHON architecture using H.323".
- [2] Void.
- [3] ITU-T Recommendation H.323 (2000): "Packet-based multimedia communication".
- [4] ITU-T Recommendation H.225.0 (2000): "Call signalling protocols and media stream packetization for packet-based multimedia communication systems".
- [5] ITU-T Recommendation Q.931: "ISDN user-network interface layer 3 specification for basic call control".

- [6] ISO/IEC 9646-1: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 1: General concepts".
- [7] ISO/IEC 9646-2: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 2: Abstract Test Suite specification".
- [8] ISO/IEC 9646-3: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 3: The Tree and Tabular Combined Notation (TTCN)".
- [9] ITU-T Recommendation H.245 (2001): "Control protocol for multimedia communication".
- [10] ITU-T Recommendation H.246 annex C (2000): "ISDN User Part Function - H.225.0 Interworking".
- [11] 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]".
- [12] Void.
- [13] ETSI TBR 008: "Integrated Services Digital Network (ISDN); Telephony 3,1 kHz teleservice; Attachment requirements for handset terminals".
- [14] 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".
- [15] ETSI ETS 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".
- [16] ETSI ETS 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".
- [17] ETSI ETS 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".
- [18] ETSI ETS 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".
- [19] ETSI ETS 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".
- [20] 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".
- [21] 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".
- [22] ETSI ETS 300 097-1/Amendment 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".
- [23] ITU-T Recommendation Q.699: "Interworking between ISDN access and non-ISDN access over ISDN User Part of Signalling System No. 7".

## 3 Definitions and abbreviations

### 3.1 Definitions

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

- terms defined in ITU-T Recommendation H.323 [3];
- terms defined in ITU-T Recommendation H.225.0 [4];
- terms defined in ISO/IEC 9646 parts 1 [6] to 3 [8].

**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:

I	Inopportune
IPTN	IP Transmit Network
IUT	Implementation Under Test
PICS	Protocol Implementation Conformance Statement
PIXIT	Protocol Implementation eXtra Information for Testing
S	Syntactically invalid
SCN	Switched Circuit Network
TP	Test Purpose
TSS	Test Suite Structure
V	Valid



# 4 Architecture and Test Suite Structure (TSS)

## 4.1 Architecture

Figure 1 shows the different types of networks that may inter-operate for calls. A specific call may not involve all network types. Each network will include any required interconnecting and interworking functions.

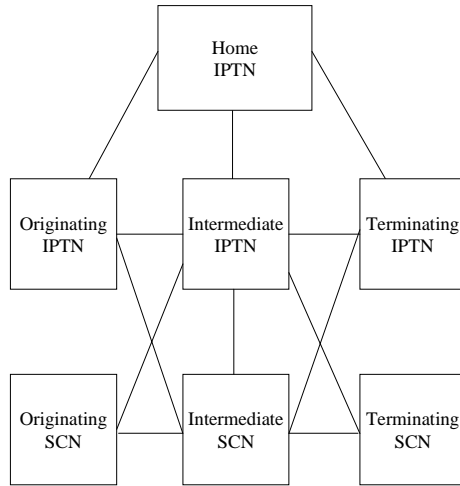


Figure 1: Network architecture

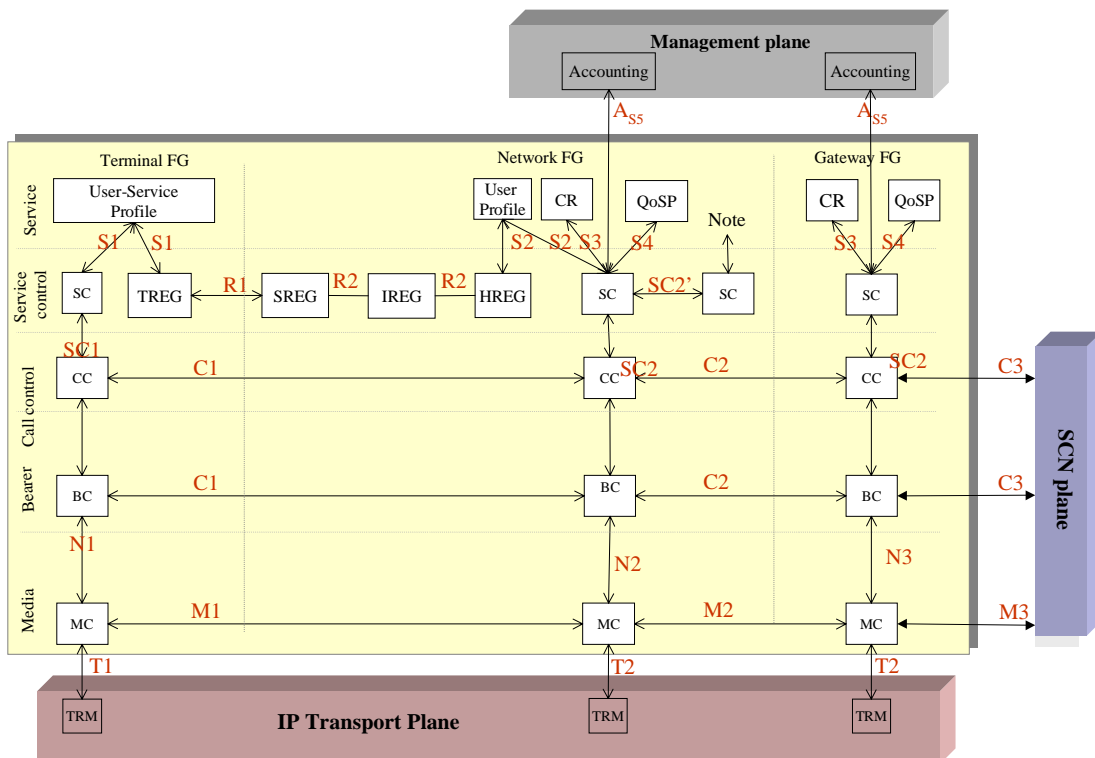


Figure 2: General reference configuration

## 4.2 Test Suite Structure (TSS)

### 4.2.1 ISDN-H.323

C - Plane /U - Plane

Basic_Call	Successful	
		Speech IH__ SP __ xx
		3,1 kHz audio IH__ AU __ xx
		UDI IH__ UD __ xx
C - Plane Supplementary Services	Unsuccessful	IH__xx__Uxx
		CLIP IH__xxSSCLIP xx
		CLIR IH__xxSSCLIR xx
		COLP IH__xxSSCOLP xx
		COLR IH__xxSSCOLR xx

### 4.2.2 H.323-ISDN

C - Plane /U - Plane

Basic_Call	Successful	
		Speech HI__ SP __xx
		3,1 kHz audio HI__ AU __xx
		UDI HI__ UD __xx
C - Plane Supplementary Services	Unsuccessful	HI__ xx __ Uxx
		CLIP HI__xxSSCLIP xx
		CLIR HI__xxSSCLIR xx
		COLP HI__xxSSCOLP xx
		COLR HI__xxSSCOLR xx

### 4.2.3 PSTN-H.323

C - Plane /U - Plane		
Basic_Call	Successful	PH__ AU __ xx
<hr/>		
	Unsuccessful	PH__ AU __ Uxx

### 4.2.4 H.323-PSTN

C - Plane /U - Plane		
Basic_Call	Successful	Speech HP__ SP __ xx
		3,1 kHz audio HP__ AU __ xx
<hr/>		
	Unsuccessful	HP__ xx __ U xx

### 4.2.5 H.323-H.323 (PC-PC)

C - Plane /U - Plane		
Basic_Call	Successful	HH__xx __ xx
<hr/>		
	Unsuccessful	HH__xx __ Uxx

## 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

(Extensions will be added when needed)

Pos. 6 and 7: Bearer- or Teleservice involved

xx: defined per PIXIT value

NOTE: This may be appropriate for Test Purposes (provided the Test Purpose states for which Bearer- and/or Tele Services it should be tested). It is however NOT appropriate for Test Cases since it would be detrimental to Test Automation

SP: Speech

AU: 3,1 kHz Audio

UD: UDI

UT: UDI/TA

Pos. 8 and 9:

\_\_: No Supplementary Services Involved /Successful

\_U: No Supplementary Services Involved /Unsuccessful

SS: Supplementary Services Involved

SI: Supplementary Services interaction

SN: Nonsymmetrical Supplementary Services Involved

ST: Supplementary Services transparent

Speech					IH__SP__xx					
1	2	3	4	5	6	7	8	9	10	11
I	H	_	_	_	S	P	_	_	x	x

## Supplementary Services

CLIP														
IH__xxSSCLIP xx														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
I	H	-	-	-	X	X	S	S	C	L	I	P	x	x

## 6 Test purposes

### 6.1 Test purposes for ISDN-H.323 Basic call Successful - Speech

Successful
Speech

IH__SP__01	<b>ISDN ref. to:</b> Q.931 [5], § 5.1.5.1 Q.699 [23], § 2.1.1	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.1, § 7.3.10, § 7.3.2 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.2 H.246 annex C [10] § C.7.1
<b>TSS reference:</b>	ISDN-H.323 [3]/Basic_call/Successful/Speech	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that call establishment using <u>en-bloc sending</u> is performed correctly. Ensure that the SETUP message on the H.323 [3] interface is sent including the fastStart field and on receipt of a CALL PROCEEDING message including the fastStart field, call establishment continues. Ensure that in the active call state (N10) the voice transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters). The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.	
<b>ISDN Parameter values:</b>	BC=speech, no HLC	
<b>H.323 [3] Parameter values:</b>	BC=speech, no HLC	
<b>Comments:</b>		

IH__SP__02	<b>ISDN ref. to:</b> Q.931 [5], § 5.1.5.1 Q.699 [23], § 2.1.1	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.1, § 7.3.10, § 7.3.2 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.1 H.246 annex C [10] § C.7.1
<b>TSS reference:</b>	ISDN-H.323 [3]/Basic_call/Successful/Speech	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that call establishment using <u>en-bloc sending</u> is performed correctly. Ensure that the SETUP message on the H.323 [3] interface is sent including the fastStart field and on receipt of an ALERTING message including the fastStart field, call establishment continues. Ensure that in the active call state (N10) the voice transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters). The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.	
<b>ISDN Parameter values:</b>	BC=speech, no HLC	
<b>H.323 [3] Parameter values:</b>	BC=speech, no HLC	
<b>Comments:</b>		

IH__SP__03	<b>ISDN ref. to:</b> Q.931 [5], § 5.1.5.1 Q.699 [23], § 2.1.1	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.1, § 7.3.10, § 7.3.2 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.3 H.246 annex C [10] § C.7.1
<b>TSS reference:</b>	ISDN-H.323 [3]/Basic_call/Successful/Speech	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that call establishment using <u>en-bloc sending</u> is performed correctly. Ensure that the SETUP message on the H.323 [3] interface is sent including the fastStart field and on receipt of a CONNECT message including the fastStart field, call establishment continues. Ensure that in the active call state (N10) the voice transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters). The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.	
<b>ISDN Parameter values:</b>	BC=speech, no HLC	
<b>H.323 [3] Parameter values:</b>	BC=speech, no HLC	
<b>Comments:</b>		

IH__SP__04	<b>ISDN ref. to:</b> Q.931 [5], § 5.1.5.1 Q.699 [23], § 2.1.1	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.1, § 7.3.10, § 7.3.2 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.2 H.246 annex C [10] § C.7.1
<b>TSS reference:</b>	ISDN-H.323 [3]/Basic_call/Successful/Speech	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that call establishment using <u>en-bloc sending</u> is performed correctly. Ensure that the SETUP message on the H.323 [3] interface is sent including the fastStart field and on receipt of a CALL PROCEEDING message including the Fast Connect Refused field, call establishment continues. The H.245 [9] master slave determination should be started. Ensure that in the active call state (N10) the voice transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters). The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.	
<b>ISDN Parameter values:</b>	BC=speech, no HLC	
<b>H.323 [3] Parameter values:</b>	BC=speech, no HLC	
<b>Comments:</b>	This test is not necessary in a TIPHON compliant SUT.	

IH__SP__05	<b>ISDN ref. to:</b> Q.931 [5], § 5.1.5.1 Q.699 [23], § 2.1.1	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.1, § 7.3.10, § 7.3.2 TS 101 883 [1] Release 3 § 5.1, § B.1.3.8, § B.1.3.1 H.246 annex C [10] § C.7.1
<b>TSS reference:</b>	ISDN-H.323 [3]/Basic_call/Successful/Speech	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that call establishment using <u>en-bloc sending</u> is performed correctly. Ensure that the SETUP message on the H.323 [3] interface is sent including the fastStart field and on receipt of an ALERTING message including the Fast Connect Refused field, call establishment continues. The H.245 [9] master slave determination should be started. Ensure that in the active call state (N10) the voice transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters). The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.	
<b>ISDN Parameter values:</b>	BC=speech, no HLC	
<b>H.323 [3] Parameter values:</b>	BC=speech, no HLC	
<b>Comments:</b>	This test is not necessary in a TIPHON compliant SUT.	

IH__SP__06	<b>ISDN ref. to:</b> Q.931 [5], § 5.1.5.1 Q.699 [23], § 2.1.1	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.1, § 7.3.10, § 7.3.2 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.3 H.246 annex C [10] § C.7.1
<b>TSS reference:</b>	ISDN-H.323 [3]/Basic_call/Successful/Speech	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that call establishment using <u>en-bloc sending</u> is performed correctly. Ensure that the SETUP message on the H.323 [3] interface is sent including the fastStart field and on receipt of a CONNECT message including the Fast Connect Refused field, call establishment continues. The H.245 [9] master slave determination should be started. Ensure that in the active call state (N10) the voice transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters). The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.	
<b>ISDN Parameter values:</b>	BC=speech, no HLC	
<b>H.323 [3] Parameter values:</b>	BC=speech, no HLC	
<b>Comments:</b>	This test is not necessary in a TIPHON compliant SUT.	

IH__SP__07	<b>ISDN ref. to:</b> Q.931 [5], § 5.1.5.2 Q.699 [23], § 2.1.1	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.1, § 7.3.10, § 7.3.2 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.1 H.246 annex C [10] § C.7.1
<b>TSS reference:</b>	ISDN-H.323 [3]/Basic_call/Successful/Speech	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that call establishment using <u>overlap sending</u> is performed correctly Ensure that the SETUP message on the H.323 [3] interface is sent including the fastStart field and on receipt of a CONNECT message including the fastStart field, call establishment continues. Ensure that in the active call state (N10) the voice transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters). The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.	
<b>ISDN Parameter values:</b>	BC=speech, no HLC	
<b>H.323 [3] Parameter values:</b>	BC=speech, no HLC	
<b>Comments:</b>		

IH__SP__08	<b>ISDN ref. to:</b> Q.931 [5], § 5.1.5.2 Q.699 [23], § 2.1.1	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.1, § 7.3.10, § 7.3.2 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.3 H.246 annex C [10] § C.7.1
<b>TSS reference:</b>	ISDN-H.323 [3]/Basic_call/Successful/Speech	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that call establishment using <u>overlap sending</u> is performed correctly Ensure that the SETUP message on the H.323 [3] interface is sent including the fastStart field and on receipt of a CONNECT message including the Fast Connect Refused field, call establishment continues. The H.245 [9] master slave determination should be started. Ensure that in the active call state (N10) the voice transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters). The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.	
<b>ISDN Parameter values:</b>	BC=speech, no HLC	
<b>H.323 [3] Parameter values:</b>	BC=speech, no HLC	
<b>Comments:</b>	This test is not necessary in a TIPHON compliant SUT.	

IH__SP__09	<b>ISDN ref. to:</b> Q.931 [5], § 5.3.3 Q.699 [23], § 2.1.1	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.1, § 7.3.10, § 7.3.2 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.7 H.246 annex C [10] § C.7.1
<b>TSS reference:</b>	ISDN-H.323 [3]/Basic_call/Successful/Speech/	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that the call establishment and the call clearing procedure is performed correctly when the <u>calling user</u> clears after answering with a DISCONNECT message indicating the cause value # 16 "normal call clearing". The called user shall receive a RELEASE COMPLETE message indicating the cause value # 16 "normal call clearing" or ReleaseCompleteReason facilityCallDeflection. Ensure that in the Call Delivered call state U4 the transfer of tone or announcement on the B- channel is performed correctly. The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.	
<b>ISDN Parameter values:</b>	BC=speech, no HLC	
<b>H.323 [3] Parameter values:</b>	BC=speech, no HLC	
<b>Comments:</b>		

IH__SP__10	<b>ISDN ref. to:</b> Q.931 [5], § 5.3.3 Q.699 [23], § 2.1.1	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.1, § 7.3.10, § 7.3.2 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.1 H.246 annex C [10] § C.7.1
<b>TSS reference:</b>	ISDN-H.323 [3]/Basic_call/Successful/Speech/	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that the call clearing procedure is performed correctly when the <u>called user</u> clears after answering with a RELEASE COMPLETE message indicating the cause value # 16 "normal call clearing". The calling user shall receive a DISCONNECT message with the cause value # 16 "normal call clearing". Ensure that in the Call Delivered call state U4 and disconnect indication state (N12) the transfer of tone or announcement on the B- channel is performed correctly. parameters). The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.	
<b>ISDN Parameter values:</b>	BC=speech, no HLC	
<b>H.323 [3] Parameter values:</b>	BC=speech, no HLC	
<b>Comments:</b>		

IH__SP__11	<b>ISDN ref. to:</b> Q.931 [5], § 5.3.3 Q.699 [23], § 2.1.1	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.1, § 7.3.10, § 7.3.2 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.1 H.246 annex C [10] § C.7.1
<b>TSS reference:</b>	ISDN-H.323 [3]/Basic_call/Successful/Speech/	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that the call clearing procedure is performed correctly when the <u>called user</u> clears after answering with a RELEASE COMPLETE message indicating the ReleaseCompleteReason facilityCallDeflection. The calling user shall receive a DISCONNECT message with the cause value # 16 "normal call clearing". Ensure that in the Call Delivered call state U4 and disconnect indication state (N12) the transfer of tone or announcement on the B- channel is performed correctly. The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.	
<b>ISDN Parameter values:</b>	BC=speech, no HLC	
<b>H.323 [3] Parameter values:</b>	BC=speech, no HLC	
<b>Comments:</b>		



IH__SP__12	<b>ISDN ref. to:</b> Q.931 [5], § 4.5.16 Q.699 [23], § 2.1.1 TBR 008 [13] § 5.1.3, EG 201 018 [14], § 6.3.1	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.1, § 7.3.10, § 7.3.2 TS 101 883 [1] § 5.1, § B.1.3.8 H.246 annex C [10] § C.7.1
<b>TSS reference:</b>	ISDN-H.323 [3]/Basic_call/Successful/Speech	
<b>Selection criteria:</b>	Telephony 3,1 kHz teleservice	
<b>Test purpose:</b>	Ensure that call establishment supporting the telephony 3,1 kHz teleservice is performed correctly. Ensure that in the active call state (N10) the voice transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters). The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.	
<b>ISDN Parameter values:</b>	BC=speech, HLC=telephony	
<b>H.323 [3] Parameter values:</b>	BC=speech, no HLC	
<b>Comments:</b>		

Values for test purposes IH__SP__01 to IH__SP__12	
VA_01	g711Alaw64k
VA_02	g711Alaw56k
VA_03	g711Ulaw64k
VA_04	g711Ulaw56k
VA_05	g722-64k
VA_06	g722-56k
VA_07	g722-48k
VA_08	g7231
VA_09	g728
VA_10	g729
VA_11	g729annexA
VA_12	is11172AudioCapability
VA_13	is13818AudioCapability
VA_14	g729wannexB
VA_15	g7231annexCCapability
VA_16	gsmFullRate GSMAudioCapability
VA_17	gsmHalfRate GSMAudioCapability
VA_18	gsmEnhancedFullRate GSMAudioCapability
VA_19	genericAudioCapability GenericCapability

ITU-T Recommendation H.245 [9] - G-series audio codepoints Mapping of ASN.1 Codepoints to the Semantic meaning of codepoint	
ASN.1 Codepoint	Semantic meaning of codepoint
g711Alaw64k	G.711 audio at 64 kbit/s, A-law
g711Alaw56k	G.711 audio at 56 kbit/s, A-law, truncated to 7 bits
g711Ulaw64k	G.711 audio at 64 kbit/s, $\mu$ -law
g711Ulaw56k	G.711 audio at 56 kbit/s, $\mu$ -law, truncated to 7 bits
g722-64k	G.722 7 kHz audio at 64 kbit/s
g722-56k	G.722 7 kHz audio at 56 kbit/s
g722-48k	G.722 7 kHz audio at 48 kbit/s
g7231	G.723.1 at either 5,3 kbit/s or 6,3 kbit/s
g728	G.728 audio at 16 kbit/s
g729	G.729 audio at 8 kbit/s
ASN.1 Codepoint	Semantic meaning of codepoint
g729annexA	G.729 annex A audio at 8 kbit/s
g729wannexB	G.729 audio at 8 kbit/s with silence suppression as in annex B
g729annexAwannexB	G.729 annex A audio at 8 kbit/s with silence suppression as in annex B
g7231annexCCapability	G.723.1 with annex C
gsmFullRate	Full-rate speech transcoding (GSM 06.10)
gsmHalfRate	Half-rate speech transcoding (GSM 06.20)
gsmEnhancedFullRate	Enhanced Full Rate (EFR) speech transcoding (GSM 06.60)

## 6.2 Test purposes for ISDN-H.323 Basic call Successful - 3,1 kHz audio

# Successful

## 3,1 kHz audio

IH__AU__01	<b>ISDN ref. to:</b> Q.931 [5], § 5.1.5.1 Q.699 [23], § 2.1.1	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.1, § 7.3.10, § 7.3.2 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.2 H.246 [10] annex C § C.7.1
<b>TSS reference:</b>	ISDN-H.323 [3]/Basic_call/Successful/3,1 kHz audio	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	<p>Ensure that call establishment using <u>en-bloc sending</u> is performed correctly.</p> <p>Ensure that the SETUP message on the H.323 [3] interface is sent including the fastStart field and on receipt of a CALL PROCEEDING message including the fastStart field, call establishment continues.</p> <p>Ensure that in the active call state (N10) the data transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters).</p> <p>The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.</p>	
<b>ISDN Parameter values:</b>	BC=3,1 kHz audio, no HLC	
<b>H.323 [3] Parameter values:</b>	BC=3,1 kHz audio, no HLC	
<b>Comments:</b>		

IH__AU__02	<b>ISDN ref. to:</b> Q.931 [5] § 5.1.5.1 Q.699 [23], § 2.1.1	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.1, § 7.3.10, § 7.3.2 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.1 H.246 annex C [10] § C.7.1
<b>TSS reference:</b>	ISDN-H.323 [3]/Basic_call/Successful/3,1 kHz audio	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	<p>Ensure that call establishment using <u>en-bloc sending</u> is performed correctly.</p> <p>Ensure that the SETUP message on the H.323 [3] interface is sent including the fastStart field and on receipt of a ALERTING message including the fastStart field, call establishment continues.</p> <p>Ensure that in the active call state (N10) the data transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters).</p> <p>The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.</p>	
<b>ISDN Parameter values:</b>	BC=3,1 kHz audio, no HLC	
<b>H.323 [3] Parameter values:</b>	BC=3,1 kHz audio, no HLC	
<b>Comments:</b>		

IH__AU__03	<b>ISDN ref. to:</b> Q.931 [5], § 5.1.5.1 Q.699 [23], § 2.1.1	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.1, § 7.3.10, § 7.3.2 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.3 H.246 annex C [10] § C.7.1
<b>TSS reference:</b>	ISDN-H.323 [3]/Basic_call/Successful/3,1 kHz audio	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that call establishment using <u>en-bloc sending</u> is performed correctly. Ensure that the SETUP message on the H.323 [3] interface is sent including the fastStart field and on receipt of a CONNECT message including the fastStart field, call establishment continues. Ensure that in the active call state (N10) the data transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters). The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.	
<b>ISDN Parameter values:</b>	BC=3,1 kHz audio, no HLC	
<b>H.323 [3] Parameter values:</b>	BC=3,1 kHz audio, no HLC	
<b>Comments:</b>		

IH__AU__04	<b>ISDN ref. to:</b> Q.931 [5], § 5.1.5.1 Q.699 [23], § 2.1.1	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.1, § 7.3.10, § 7.3.2 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.2 H.246 annex C [10] § C.7.1
<b>TSS reference:</b>	ISDN-H.323 [3]/Basic_call/Successful/3,1 kHz audio	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that call establishment using <u>en-bloc sending</u> is performed correctly. Ensure that the SETUP message on the H.323 [3] interface is sent including the fastStart field and on receipt of a CALL PROCEEDING message including the Fast Connect Refused field, call establishment continues. The H.245 [9] master slave determination should be started. Ensure that in the active call state (N10) the data transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters). The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.	
<b>ISDN Parameter values:</b>	BC=3,1 kHz audio, no HLC	
<b>H.323 [3] Parameter values:</b>	BC=3,1 kHz audio, no HLC	
<b>Comments:</b>	This test is not necessary in a TIPHON compliant SUT.	

IH__AU__05	<b>ISDN ref. to:</b> Q.931 [5], § 5.1.5.1 Q.699 [23], § 2.1.1	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.1, § 7.3.10, § 7.3.2 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.1 H.246 annex C [10] § C.7.1
<b>TSS reference:</b>	ISDN-H.323 [3]/Basic_call/Successful/3,1 kHz audio	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that call establishment using <u>en-bloc sending</u> is performed correctly. Ensure that the SETUP message on the H.323 [3] interface is sent including the fastStart field and on receipt of a ALERTING message including the Fast Connect Refused field, call establishment continues. The H.245 [9] master slave determination should be started. Ensure that in the active call state (N10) the data transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters). The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.	
<b>ISDN Parameter values:</b>	BC=3,1 kHz audio, no HLC	
<b>H.323 [3] Parameter values:</b>	BC=3,1 kHz audio, no HLC	
<b>Comments:</b>	This test is not necessary in a TIPHON compliant SUT.	

IH__AU__06	<b>ISDN ref. to:</b> Q.931 [5], § 5.1.5.1 Q.699 [23], § 2.1.1	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.1, § 7.3.10, § 7.3.2 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.1 H.246 annex C [10] § C.7.1
<b>TSS reference:</b>	ISDN-H.323 [3]/Basic_call/Successful/3,1 kHz audio	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that call establishment using <u>en-bloc sending</u> is performed correctly. Ensure that the SETUP message on the H.323 [3] interface is sent including the fastStart field and on receipt of a CONNECT message including the Fast Connect Refused field, call establishment continues. The H.245 [9] master slave determination should be started. Ensure that in the active call state (N10) the data transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters). The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.	
<b>ISDN Parameter values:</b>	BC=3,1 kHz audio, no HLC	
<b>H.323 [3] Parameter values:</b>	BC=3,1 kHz audio, no HLC	
<b>Comments:</b>	This test is not necessary in a TIPHON compliant SUT.	

IH__AU__07	<b>ISDN ref. to:</b> Q.931 [5], § 5.1.5.2 Q.699 [23], § 2.1.1	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.1, § 7.3.10, § 7.3.2 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.3 H.246 annex C [10] § C.7.1
<b>TSS reference:</b>	ISDN-H.323 [3]/Basic_call/Successful/3,1 kHz audio	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that call establishment using <u>overlap sending</u> is performed correctly Ensure that the SETUP message on the H.323 [3] interface is sent including the fastStart field and on receipt of a CONNECT message including the fastStart field, call establishment continues. Ensure that in the active call state (N10) the data transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters). The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.	
<b>ISDN Parameter values:</b>	BC=3,1 kHz audio, no HLC	
<b>H.323 [3] Parameter values:</b>	BC=3,1 kHz audio, no HLC	
<b>Comments:</b>		

IH__AU__08	<b>ISDN ref. to:</b> Q.931 [5], § 5.1.5.2 Q.699 [23], § 2.1.1	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.1, § 7.3.10, § 7.3.2 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.3 H.246 annex C [10] § C.7.1
<b>TSS reference:</b>	ISDN-H.323 [3]/Basic_call/Successful/3,1 kHz audio	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that call establishment using <u>overlap sending</u> is performed correctly Ensure that the SETUP message on the H.323 [3] interface is sent including the fastStart field and on receipt of a CONNECT message including the Fast Connect Refused field, call establishment continues. The H.245 [9] master slave determination should be started. Ensure that in the active call state (N10) the data transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters). The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.	
<b>ISDN Parameter values:</b>	BC=3,1 kHz audio, no HLC	
<b>H.323 [3] Parameter values:</b>	BC=3,1 kHz audio, no HLC	
<b>Comments:</b>	This test is not necessary in a TIPHON compliant SUT.	

IH__AU__09	<b>ISDN ref. to:</b> Q.931 [5], § 5.3.3 Q.699 [23], § 2.1.1	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.1, § 7.3.10, § 7.3.2 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.7 H.246 annex C [10] § C.7.1
<b>TSS reference:</b>	ISDN-H.323 [3]/Basic_call/Successful/3,1 kHz audio	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	<p>Ensure that the call establishment and the call clearing procedure is performed correctly when the <u>calling user</u> clears after answering with a DISCONNECT message indicating the cause value # 16 "normal call clearing".</p> <p>The called user shall receive a RELEASE COMPLETE message indicating the cause value # 16 "normal call clearing" or ReleaseCompleteReason facilityCallDeflection.</p> <p>Ensure that in the Call Delivered call state U4 the transfer of tone or announcement on the B- channel is performed correctly.</p> <p>The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.</p>	
<b>ISDN Parameter values:</b>	BC=3,1 kHz audio, no HLC	
<b>H.323 [3] Parameter values:</b>	BC=3,1 kHz audio, no HLC	
<b>Comments:</b>		

IH__AU__10	<b>ISDN ref. to:</b> Q.931 [5], § 5.3.3 Q.699 [23], § 2.1.1	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.1, § 7.3.10, § 7.3.2 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.7 H.246 annex C [10] § C.7.1
<b>TSS reference:</b>	ISDN-H.323 [3]/Basic_call/Successful/3,1 kHz audio	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	<p>Ensure that the call clearing procedure is performed correctly when the <u>called user</u> clears after answering with a RELEASE COMPLETE message indicating the cause value # 16 "normal call clearing"</p> <p>The calling user shall receive a DISCONNECT message with the cause value # 16 "normal call clearing".</p> <p>Ensure that in the Call Delivered call state U4 and disconnect indication state (N12) the transfer of tone or announcement on the B- channel is performed correctly.</p> <p>The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.</p>	
<b>ISDN Parameter values:</b>	BC=3,1 kHz audio, no HLC	
<b>H.323 [3] Parameter values:</b>	BC=3,1 kHz audio, no HLC	
<b>Comments:</b>		

IH__AU__11	<b>ISDN ref. to:</b> Q.931 [5], § 5.3.3 Q.699 [23], § 2.1.1	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.1, § 7.3.10, § 7.3.2 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.7 H.246 annex C [10] § C.7.1
<b>TSS reference:</b>	ISDN-H.323 [3]/Basic_call/Successful/3,1 kHz audio	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	<p>Ensure that the call clearing procedure is performed correctly when the <u>called user</u> clears after answering with a RELEASE COMPLETE message indicating the ReleaseCompleteReason facilityCallDeflection.</p> <p>The calling user shall receive a DISCONNECT message with the cause value # 16 "normal call clearing".</p> <p>Ensure that in the Call Delivered call state U4 and disconnect indication state (N12) the transfer of tone or announcement on the B- channel is performed correctly.</p> <p>The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.</p>	
<b>ISDN Parameter values:</b>	BC=3,1 kHz audio, no HLC	
<b>H.323 [3] Parameter values:</b>	BC=3,1 kHz audio, no HLC	
<b>Comments:</b>		

IH__AU__12	<b>ISDN ref. to:</b> Q.931 [5], § 5.1.6 Q.699 [23], § 2.1.1	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.1, § 7.3.10, § 7.3.2 TS 101 883 [1] § 5.1, § B.1.3.8, H.246 annex C [10] § C.7.1
<b>TSS reference:</b>	ISDN-H.323 [3]/Basic_call/Successful/3,1 kHz audio	
<b>Selection criteria:</b>	Audio	
<b>Test purpose:</b>	To verify that progress information in the SETUP can be transported correctly to the called party. Ensure that in the active call state (N10) the data transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters). The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.	
<b>ISDN Parameter values:</b>	BC=3,1 kHz audio, LLC=3,1 kHz audio, progress value # 3 "origination address is non ISDN".	
<b>H.323 [3] Parameter values:</b>	BC=3,1 kHz audio, progress value # 3 "origination address is non ISDN".	
<b>Comments:</b>		

IH__AU__13	<b>ISDN ref. to:</b> Q.931 [5], § 4.5.17 Q.699 [23], § 2.1.1	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.1, § 7.3.10, § 7.3.2 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.1 H.246 annex C [10] § C.7.1
<b>TSS reference:</b>	ISDN-H.323 [3]/Basic_call/Successful/3,1 kHz audio	
<b>Selection criteria:</b>	Telefax G3 terminals;	
<b>Test purpose:</b>	Support of Telefax G3. Ensure that the ISDN BC value "3,1 kHz audio" is mapped to the BC value "3,1 kHz audio". Ensure that in the active call state (N10) the Fax transfer on the media and B-channels is performed correctly. The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.	
<b>ISDN Parameter values:</b>	BC=3,1 kHz audio, HLC = Facsimile G2/G3	
<b>H.323 [3] Parameter values:</b>	BC=3,1 kHz audio	
<b>Comments:</b>		

IH__AU__14	<b>ISDN ref. to:</b> Q.931 [5], § 4.5.5 Q.699 [23], § 2.1.1	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.1, § 7.3.10, § 7.3.2 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.1 H.246 annex C [10] § C.7.1
<b>TSS reference:</b>	ISDN-H.323 [3]/Basic_call/Successful/3,1 kHz audio	
<b>Selection criteria:</b>	Bearer service 3,1 kHz audio	
<b>Test purpose:</b>	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 is correctly mapped to the BC=3,1 kHz audio. Ensure that in the active call state (N10) the data transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters). The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.	
<b>ISDN Parameter values:</b>	BC=3,1 kHz audio, voice band data via modem, synchronous/asynchronous mode: MODE user rate: USER_RATE	
<b>H.323 [3] Parameter values:</b>	BC=3,1 kHz audio	
<b>Comments:</b>		

IH__AU__15	<b>ISDN ref. to:</b> Q.931 [5], § 4.5.18 Q.699 [23], § 2.1.1	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.1, § 7.3.10, § 7.3.2 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.1 H.246 annex C [10] § C.7.1
<b>TSS reference:</b>	ISDN-H.323 [3]/Basic_call/Successful/3,1 kHz audio	
<b>Selection criteria:</b>	Bearer service 3,1 kHz audio	
<b>Test purpose:</b>	Ensure that the ISDN SETUP with the BC parameter value information transfer capability 3,1 kHz audio and the LLC <b>Parameter values:</b> 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 and correctly delivered to the BC=3,1 kHz audio Ensure that in the active call state (N10) the data transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters). The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.	
<b>ISDN Parameter values:</b>	BC=3,1 kHz audio, LLC=3,1 kHz audio, voice band data via modem, synchronous/asynchronous mode: MODE user rate: USER_RATE	
<b>H.323 [3] Parameter values:</b>	BC=3,1 kHz audio	
<b>Comments:</b>		

IH__AU__16	<b>ISDN ref. to:</b> Q.931 [5], § 4.5.18 Q.699 [23], § 2.1.1	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.1, § 7.3.10, § 7.3.2 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.1 H.246 annex C [10] § C.7.1
<b>TSS reference:</b>	ISDN-H.323 [3]/Basic_call/Successful/3,1 kHz audio	
<b>Selection criteria:</b>	Bearer service 3,1 kHz audio	
<b>H.323 [3] Selection criteria:</b>	Audio	
<b>Test purpose:</b>	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 <b>Parameter values:</b> 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 and correctly delivered to the BC=3,1 kHz audio. In the active call state (N10) ensure that the data transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters). The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.	
<b>ISDN Parameter values:</b>	BC=LLC=3,1 kHz audio, voice band data via modem, synchronous/asynchronous mode: MODE user rate: USER_RATE	
<b>H.323 [3] Parameter values:</b>	BC=3,1 kHz audio	
<b>Comments:</b>		

Values for test purposes IH_AU_14 to , IH_AU_16	
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: 19,2 kbit/s
VA_10	MODE: synchronous USER_RATE: 32 kbit/s
VA_11	MODE: synchronous USER_RATE: 48 kbit/s
VA_12	MODE: synchronous USER_RATE: 56,0 kbit/s
VA_13	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: 19,2 kbit/s
VA_24	MODE: asynchronous USER_RATE: 32 kbit/s
VA_25	MODE: asynchronous USER_RATE: 48 kbit/s
VA_26	MODE: asynchronous USER_RATE: 58 kbit/s
VA_27	MODE: asynchronous USER_RATE: 64 kbit/s

Values for test purposes IH_AU_01 to IH_AU_16	
VA_01	g711Alaw64k
VA_02	g711Alaw56k
VA_03	g711Ulaw64k
VA_04	g711Ulaw56k



## 6.3 Test purposes for ISDN-H.323 Basic call Successful -UDI

## Successful UDI

IH__UD__01	<b>ISDN ref. to:</b> Q.931 [5], § 5.1.5.1 Q.699 [23], § 2.1.1	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.1, § 7.3.10, § 7.3.2 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.2 H.246 annex C [10] § C.7.1
<b>TSS reference:</b>	ISDN-H.323 [3]/Basic_call/Successful/UDI	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that call establishment using en-bloc sending is performed correctly. Ensure that in the active call state (N10) the data transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters). Ensure that the SETUP message on the H.323 [3] interface is sent including the fastStart field and on receipt of a CALL PROCEEDING message including the fastStart field, call establishment continues.	
<b>ISDN Parameter values:</b>	BC=UDI, no HLC	
<b>H.323 [3] Parameter values:</b>	BC=UDI, no HLC	
<b>Comments:</b>		

IH__UD__02	<b>ISDN ref. to:</b> Q.931 [5], § 5.1.5.1 Q.699 [23], § 2.1.1	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.1, § 7.3.10, § 7.3.2 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.1 H.246 annex C [10] § C.7.1
<b>TSS reference:</b>	ISDN-H.323 [3]/Basic_call/Successful/UDI	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that call establishment using en-bloc sending is performed correctly. Ensure that in the active call state (N10) the data transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters). Ensure that the SETUP message on the H.323 [3] interface is sent including the fastStart field and on receipt of a ALERTING message including the fastStart field, call establishment continues.	
<b>ISDN Parameter values:</b>	BC=UDI, no HLC	
<b>H.323 [3] Parameter values:</b>	BC=UDI, no HLC	
<b>Comments:</b>		

IH__UD__03	<b>ISDN ref. to:</b> Q.931 [5], § 5.1.5.1 Q.699 [23], § 2.1.1	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.1, § 7.3.10, § 7.3.2 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.3 H.246 annex C [10] § C.7.1
<b>TSS reference:</b>	ISDN-H.323 [3]/Basic_call/Successful/UDI	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that call establishment using en-bloc sending is performed correctly. Ensure that in the active call state (N10) the data transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters). Ensure that the SETUP message on the H.323 [3] interface is sent including the fastStart field and on receipt of a CONNECT message including the fastStart field, call establishment continues.	
<b>ISDN Parameter values:</b>	BC=UDI, no HLC	
<b>H.323 [3] Parameter values:</b>	BC=UDI, no HLC	
<b>Comments:</b>		

IH__UD__04	<b>ISDN ref. to:</b> Q.931 [5], § 5.1.5.1 Q.699 [23], § 2.1.1	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.1, § 7.3.10, § 7.3.2 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.2 H.246 annex C [10] § C.7.1
<b>TSS reference:</b>	ISDN-H.323 [3]/Basic_call/Successful/UDI	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that call establishment using en-bloc sending is performed correctly. Ensure that in the active call state (N10) the data transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters). Ensure that the SETUP message on the H.323 [3] interface is sent including the fastStart field and on receipt of a CALL PROCEEDING message including the Fast Connect Refused field, call establishment continues. The H.245 [9] master slave determination should be started.	
<b>ISDN Parameter values:</b>	BC=UDI, no HLC	
<b>H.323 [3] Parameter values:</b>	BC=UDI, no HLC	
<b>Comments:</b>	This test is not necessary in a TIPHON compliant SUT.	

IH__UD__05	<b>ISDN ref. to:</b> Q.931 [5], § 5.1.5.1 Q.699 [23], § 2.1.1	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.1, § 7.3.10, § 7.3.2 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.1 H.246 annex C [10] § C.7.1
<b>TSS reference:</b>	ISDN-H.323 [3]/Basic_call/Successful/UDI	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that call establishment using en-bloc sending is performed correctly. Ensure that in the active call state (N10) the data transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters). Ensure that the SETUP message on the H.323 [3] interface is sent including the fastStart field and on receipt of a ALERTING message including the Fast Connect Refused field, call establishment continues. The H.245 [9] master slave determination should be started.	
<b>ISDN Parameter values:</b>	BC=UDI, no HLC	
<b>H.323 [3] Parameter values:</b>	BC=UDI, no HLC	
<b>Comments:</b>	This test is not necessary in a TIPHON compliant SUT.	

IH__UD__06	<b>ISDN ref. to:</b> Q.931 [5], § 5.1.5.1 Q.699 [23], § 2.1.1	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.1, § 7.3.10, § 7.3.2 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.3 H.246 annex C [10] § C.7.1
<b>TSS reference:</b>	ISDN-H.323 [3]/Basic_call/Successful/UDI	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that call establishment using en-bloc sending is performed correctly. Ensure that in the active call state (N10) the data transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters). Ensure that the SETUP message on the H.323 [3] interface is sent including the fastStart field and on receipt of a CONNECT message including the Fast Connect Refused field, call establishment continues. The H.245 [9] master slave determination should be started.	
<b>ISDN Parameter values:</b>	BC=UDI, no HLC	
<b>H.323 [3] Parameter values:</b>	BC=UDI, no HLC	
<b>Comments:</b>	This test is not necessary in a TIPHON compliant SUT.	

IH__UD__07	<b>ISDN ref. to:</b> Q.931 [5], § 5.1.5.2 Q.699 [23], § 2.1.1	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.1, § 7.3.10, § 7.3.2 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.3 H.246 annex C [10] § C.7.1
<b>TSS reference:</b>	ISDN-H.323 [3]/Basic_call/Successful/UDI	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that call establishment using <u>overlap sending</u> is performed correctly Ensure that in the active call state (N10) the data transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters). Ensure that the SETUP message on the H.323 [3] interface is sent including the fastStart field and on receipt of a CONNECT message including the fastStart field, call establishment continues.	
<b>ISDN Parameter values:</b>	BC=UDI, no HLC	
<b>H.323 [3] Parameter values:</b>	BC=UDI, no HLC	
<b>Comments:</b>		

IH__UD__08	<b>ISDN ref. to:</b> Q.931 [5], § 5.1.5.2 Q.699 [23], § 2.1.1	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.1, § 7.3.10, § 7.3.2 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.3 H.246 annex C [10] § C.7.1
<b>TSS reference:</b>	ISDN-H.323 [3]/Basic_call/Successful/UDI	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that call establishment using <u>overlap sending</u> is performed correctly Ensure that in the active call state (N10) the data transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters). Ensure that the SETUP message on the H.323 [3] interface is sent including the fastStart field and on receipt of a CONNECT message including the Fast Connect Refused field, call establishment continues. The H.245 [9] master slave determination should be started.	
<b>ISDN Parameter values:</b>	BC=UDI, no HLC	
<b>H.323 [3] Parameter values:</b>	BC=UDI, no HLC	
<b>Comments:</b>	This test is not necessary in a TIPHON compliant SUT.	

IH__UD__09	<b>ISDN ref. to:</b> Q.931 [5], § 5.3.3 Q.699 [23], § 2.1.1	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.1, § 7.3.10, § 7.3.2 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.7 H.246 annex C [10] § C.7.1
<b>TSS reference:</b>	ISDN-H.323 [3]/Basic_call/Successful/UDI/	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that the call establishment and the call clearing procedure is performed correctly when the <u>calling user</u> clears after answering with a DISCONNECT message indicating the cause value # 16 "normal call clearing". The called user shall receive a RELEASE COMPLETE message indicating the cause value # 16 "normal call clearing" or ReleaseCompleteReason facilityCallDeflection.	
<b>ISDN Parameter values:</b>	BC=UDI, no HLC	
<b>H.323 [3] Parameter values:</b>	BC=UDI, no HLC	
<b>Comments:</b>		

IH__UD__10	<b>ISDN ref. to:</b> Q.931 [5], § 5.3.3 Q.699 [23], § 2.1.1	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.1, § 7.3.10, § 7.3.2 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.7 H.246 annex C [10] § C.7.1
<b>TSS reference:</b>	ISDN-H.323 [3]/Basic_call/Successful/UDI	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that the call clearing procedure is performed correctly when the <u>called user</u> clears after answering with a RELEASE COMPLETE message indicating the cause value # 16 "normal call clearing". The calling user shall receive a DISCONNECT message with the cause value # 16 "normal call clearing".	
<b>ISDN Parameter values:</b>	BC=UDI, no HLC	
<b>H.323 [3] Parameter values:</b>	BC=UDI, no HLC	
<b>Comments:</b>		

IH__UD__11	<b>ISDN ref. to:</b> Q.931 [5], § 5.3.3 Q.699 [23], § 2.1.1	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.1, § 7.3.10, § 7.3.2 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.7 H.246 annex C [10] § C.7.1
<b>TSS reference:</b>	ISDN-H.323 [3]/Basic_call/Successful/UDI	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that the call clearing procedure is performed correctly when the <u>called user</u> clears after answering with a RELEASE COMPLETE message indicating ReleaseCompleteReason facilityCallDeflection. The calling user shall receive a DISCONNECT message with the cause value # 16 "normal call clearing".	
<b>ISDN Parameter values:</b>	BC=UDI, no HLC	
<b>H.323 [3] Parameter values:</b>	BC=UDI, no HLC	
<b>Comments:</b>		

IH__UD__12	<b>ISDN ref. to:</b> Q.931 [5], § 4.5.5 Q.699 [23], § 2.1.1	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.1, § 7.3.10, § 7.3.2 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.1 H.246 annex C [10] § C.7.1
<b>TSS reference:</b>	ISDN-H.323 [3]/Basic_call/Successful/UDI	
<b>Selection criteria:</b>	Bearer service UDI	
<b>Test purpose:</b>	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 media and B-channels is performed correctly (e.g. testing QoS parameters).	
<b>ISDN Parameter values:</b>	BC=UDI, synchronous/asynchronous mode: MODE user rate: USER_RATE	
<b>H.323 [3] Parameter values:</b>	BC = UDI	
<b>Comments:</b>		

IH__UD__13	<b>ISDN ref. to:</b> Q.931 [5], § 4.5.18 Q.699 [23], § 2.1.1	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.1, § 7.3.10, § 7.3.2 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.1 H.246 annex C [10] § C.7.1
<b>TSS reference:</b>	ISDN-H.323 [3]/Basic_call/Successful/UDI	
<b>Selection criteria:</b>	Bearer service UDI	
<b>Test purpose:</b>	Ensure that the ISDN SETUP with the BC parameter value information transfer capability UDI and the LLC <b>Parameter values:</b> 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 media and B-channels is performed correctly (e.g. testing QoS parameters).	
<b>ISDN Parameter values:</b>	BC=UDI, LLC= UDI, synchronous/asynchronous mode: MODE user rate: USER_RATE	
<b>H.323 [3] Parameter values:</b>	BC = UDI	
<b>Comments:</b>		

IH__UD__14	<b>ISDN ref. to:</b> Q.931 [5], § 4.5.18 Q.699 [23], § 2.1.1	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.1, § 7.3.10, § 7.3.2 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.1 H.246 annex C [10] § C.7.1
<b>TSS reference:</b>	ISDN-H.323 [3]/Basic_call/Successful/UDI	
<b>Selection criteria:</b>	Bearer service UDI	
<b>H.323 [3] Selection criteria:</b>	Audio	
<b>Test purpose:</b>	Ensure that the SETUP with the BC parameter value information transfer capability UDI, synchronous/asynchronous mode is set to MODE, user rate set to USER_RATE and the LLC <b>Parameter values:</b> UDI, synchronous/asynchronous mode is set to MODE, user rate set to USER_RATE is correctly mapped and correctly delivered to the BC=UDI. In the active call state (N10) ensure that the data transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters).	
<b>ISDN Parameter values:</b>	BC=LLC=UDI, synchronous/asynchronous mode: MODE user rate: USER_RATE	
<b>H.323 [3] Parameter values:</b>	BC = UDI	
<b>Comments:</b>		

Values for test purposes IH UD 12 to , IH UD 14	
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: 19,2 kbit/s
VA_10	MODE: synchronous USER_RATE: 32 kbit/s
VA_11	MODE: synchronous USER_RATE: 48 kbit/s
VA_12	MODE: synchronous USER_RATE: 56,0 kbit/s
VA_13	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: 19,2 kbit/s
VA_24	MODE: asynchronous USER_RATE: 32 kbit/s
VA_25	MODE: asynchronous USER_RATE: 48 kbit/s
VA_26	MODE: asynchronous USER_RATE: 58 kbit/s
VA_27	MODE: asynchronous USER_RATE: 64 kbit/s

IH__UD__15	<b>ISDN ref. to:</b> Q.931 [5], § 4.5.17 Q.699 [23], § 2.1.1	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.1, § 7.3.10, § 7.3.2 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.1 H.246 [10] annex C§ C.7.1
<b>TSS reference:</b>	ISDN-H.323 [3]/Basic_call/Successful/UDI	
<b>Selection criteria:</b>	Telefax G4 terminals;	
<b>Test purpose:</b>	Support of Telefax G4. Ensure that the ISDN BC value UDI is mapped to the BC value UDI. Ensure that in the active call state (N10) the Fax transfer on the media and B-channels is performed correctly.	
<b>ISDN Parameter values:</b>	BC=UDI, HLC = Facsimile G4	
<b>H.323 [3] Parameter values:</b>	BC=UDI	
<b>Comments:</b>		

## 6.4 Test purposes for ISDN-H.323 Basic call Unsuccessful

<b>Unsuccessful</b>		

IH__xx_U01	<b>ISDN ref. to:</b> Q.931 [5], § 5.1.4 Q.699 [23], § 2.1.1	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.8 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.7 H.246 annex C [10] § C.7.1.8
<b>TSS reference:</b>	ISDN-H.323 [3]/Basic_call/Unsuccessful	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that the call will be released when the destination is unreachable. The network initiates call clearing to the calling user with a DISCONNECT message indicating cause value # 3 "no route to destination".	
<b>Parameter values:</b>	BC=PIXIT	
<b>Comments:</b>	In some networks tones or announcement can be generated in the destination exchange (or intermediate exchange) during call establishment. 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.	

IH__xx_U02	<b>ISDN ref. to:</b> Q.931 [5], § 5.2.5.1 Q.699 [23], § 2.1.1	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.8 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.7 H.246 annex C [10] § C.7.1.8
<b>TSS reference:</b>	ISDN-H.323 [3]/Basic_call/Unsuccessful	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that, when the called user is busy and responds with a RELEASE COMPLETE message containing the Cause information element indicating the cause value # 17 "user busy" the circuit switched side is initiating call clearing with a DISCONNECT message indicating cause value # 17 "user busy".	
<b>Parameter values:</b>	BC=PIXIT	
<b>Comments:</b>	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.	

IH__xx_U03	<b>ISDN ref. to:</b> Q.931 [5], § 5.2.5.1 Q.699 [23], § 2.1.1	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.8 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.7 H.246 annex C [10] § C.7.1.8
<b>TSS reference:</b>	ISDN-H.323 [3]/Basic_call/Unsuccessful	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that, when the called user is busy and responds with a RELEASE COMPLETE message containing an User-to-user information element including the reason field indicating inConf the circuit switched side is initiating call clearing with a DISCONNECT message indicating cause value # 17 "user busy".	
<b>Parameter values:</b>	BC=PIXIT	
<b>Comments:</b>	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.	

IH__xx_U04	<b>ISDN ref. to:</b> Q.931 [5], § 5.2.5.4 Q.699 [23], § 2.1.1	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.8 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.7 H.246 annex C [10] § C.7.1.8
<b>TSS reference:</b>	ISDN-H.323 [3]/Basic_call/Unsuccessful/	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that when there is no answer from the called user (but user alerted), the network initiate call clearing to the calling user with a DISCONNECT message indicating cause value # 19 "no answer from user (user alerted)" and sends to the called user a RELEASE COMPLETE message indicating cause # 102 "recovery on timer expire.	
<b>Parameter values:</b>	BC=PIXIT	
<b>Comments:</b>	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	

IH__xx_U05	<b>ISDN ref. to:</b> Q.931 [5], § 5.1.9, 5.3.2 Q.699 [23], § 2.1.1	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.8 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.7 H.246 annex C [10] § C.7.1.8
<b>TSS reference:</b>	ISDN-H.323 [3]/Basic_call/Unsuccessful/	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that when the called user rejects the call and responds with a RELEASE COMPLETE message containing the Cause information element indicating the cause value # 21 "call reject" the circuit switched network initiates call clearing to the calling user with a DISCONNECT message indicating cause value # 21 "call reject".	
<b>Parameter values:</b>	BC=PIXIT	
<b>Comments:</b>		

IH__xx_U06	<b>ISDN ref. to:</b> Q.931 [5], § 5.1.9, 5.3.2 Q.699 [23], § 2.1.1	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.8 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.7 H.246 annex C [10] § C.7.1.8
<b>TSS reference:</b>	ISDN-H.323 [3]/Basic_call/Unsuccessful/	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that when the called user rejects the call and responds with a RELEASE COMPLETE message containing an User-to-user information element including the reason field with the parameter "destinationReject". The circuit switched network initiates call clearing to the calling user with a DISCONNECT message indicating cause value # 16.	
<b>Parameter values:</b>	BC=PIXIT	
<b>Comments:</b>		



IH__xx_U07	<b>ISDN ref. to:</b> Q.931 [5], § 5.1.9, 5.3.2 Q.699 [23], § 2.1.1	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.8 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.7 H.246 annex C [10] § C.7.1.8
<b>TSS reference:</b>	ISDN-H.323 [3]/Basic_call/Unsuccessful	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that the call will be released when the called number is incomplete. The circuit switched network initiates call clearing to the calling user with a DISCONNECT or RELEASE COMPLETE message with a cause such as one of the following: # 28 - "Invalid number format (incomplete number)".	
<b>Parameter values:</b>	BC=PIXIT	
<b>Comments:</b>	In some networks tones or announcement can be generated in the destination exchange (or intermediate exchange) during call establishment. 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.	

IH__xx_U08	<b>ISDN ref. to:</b> Q.931 [5] Q.699 [23], § 2.1.1	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.8 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.7 H.246 annex C [10] § C.7.1.8
<b>TSS reference:</b>	ISDN-H.323 [3]/Basic_call/Unsuccessful	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that when the called party is not registered, the circuit switched network initiates call clearing to the calling user with a DISCONNECT or RELEASE COMPLETE message with a cause: # 20 "subscriber absent".	
<b>Parameter values:</b>	BC=PIXIT	
<b>Comments:</b>		

IH__xx_U09	<b>ISDN ref. to:</b> Q.931 [5], § 5.2.2 Q.699 [23], § 2.1.1	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.8 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.7 H.246 annex C [10] § C.7.1.8
<b>TSS reference:</b>	ISDN-H.323 [3]/Basic_call/Unsuccessful	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that when the called user is not compatible and responds with a RELEASE COMPLETE message indicating cause value # 88 "incompatible destination" the circuit switched network initiates call clearing to the calling user with a DISCONNECT message indicating cause value # 88 "incompatible destination".	
<b>Parameter values:</b>	BC=PIXIT	
<b>Comments:</b>		

IH__xx_U10	<b>ISDN ref. to:</b> Q.931 [5], § 5.2.2 Q.699 [23], § 2.1.1	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.8 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.7 H.246 annex C [10] § C.7.1.8
<b>TSS reference:</b>	ISDN-H.323 [3]/Basic_call/Unsuccessful	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that when the called user is not compatible and responds with a RELEASE COMPLETE message containing the User-to-user information element including the reason field indicating "invallidRevision" the circuit switched network initiates call clearing to the calling user with a DISCONNECT message indicating cause value # 88 "incompatible destination".	
<b>Parameter values:</b>	BC=PIXIT	
<b>Comments:</b>		

IH__xx_U11	<b>ISDN ref. to:</b> Q.931 [5] Q.699 [23], § 2.1.1	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.8 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.7 H.246 annex C [10] § C.7.1.8
<b>TSS reference:</b>	ISDN-H.323 [3]/Basic_call/Unsuccessful	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that when the calling user clears with cause value # 16 "normal call clearing" before answer from called user, the network transport the cause value to the called user.	
<b>Parameter values:</b>	BC=PIXIT	
<b>Comments:</b>		

IH__xx_U12	<b>ISDN ref. to:</b> Q.931 [5] Q.699 [23], § 2.1.1	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.8 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.7 H.246 annex C [10] § C.7.1.8
<b>TSS reference:</b>	ISDN-H.323 [3]/Basic_call/Unsuccessful	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that when the called packet based network has no gateway resources the circuit switched network initiates call clearing to the calling user with a DISCONNECT or RELEASE COMPLETE message with a cause: # 42 "switching equipment congestion".	
<b>Parameter values:</b>	BC=PIXIT	
<b>Comments:</b>		

IH__xx_U13	<b>ISDN ref. to:</b> Q.931 [5] Q.699 [23], § 2.1.1	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.8 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.7 H.246 annex C [10] § C.7.1.8
<b>TSS reference:</b>	ISDN-H.323 [3]/Basic_call/Unsuccessful	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that when the called packet based network has no gatekeeper resources, the circuit switched network initiates call clearing to the calling user with a DISCONNECT or RELEASE COMPLETE message with a cause: # 47 "Resource Unavailable"	
<b>Parameter values:</b>	BC=PIXIT	
<b>Comments:</b>		

IH__xx_U14	<b>ISDN ref. to:</b> Q.931 [5] Q.699 [23], § 2.1.1	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.8 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.7 H.246 annex C [10] § C.7.1.8
<b>TSS reference:</b>	ISDN-H.323 [3]/Basic_call/Unsuccessful	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that when the called packet based network has no Bandwidth available, the circuit switched network initiates call clearing to the calling user with a DISCONNECT message with a cause: # 34 "No circuit/channel available".	
<b>Parameter values:</b>	BC=PIXIT	
<b>Comments:</b>		

IH__xx_U15	<b>ISDN ref. to:</b> Q.931 [5], § 5.1.5.1 Q.699 [23], § 2.1.1	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.8 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.7 H.246 annex C [10] § C.7.1.8
<b>TSS reference:</b>	ISDN-H.323 [3]/Basic_call/lunsuccessful	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that the call will be released if the Gatekeeper is unreachable. The circuit switched network initiates call clearing to the calling user with a DISCONNECT message with a cause: # 38 "Network out of order".	
<b>Parameter values:</b>	BC=PIXIT	
<b>Comments:</b>		

## 6.5 Test purposes for ISDN-H.323 Basic call Unsuccessful - UDI/TA

### Unsuccessful UDI/TA

IH__UT_U01	<b>ISDN ref. to:</b> ETS 300 267-1 [19], § 6.5.2 ETR 018 [20], § 6.3.5	<b>PBN ref. to:</b>
<b>TSS reference:</b>	ISDN-H.323 [3]/Basic_call/Unsuccessful/UDI-TA	
<b>Selection criteria:</b>	Telephony UDI-TA teleservice; Fallback allowed	
<b>Test purpose:</b>	Ensure that when a telephony 7 kHz fallback not allowed SETUP message is sent to the network, the PBN network ( GK) shall initiate call clearing to the calling user with cause value # 65 "bearer capability not implemented"	
<b>Parameter values:</b>		
<b>Comments:</b>	telephony 7 kHz fallback allowed SETUP message: A SETUP message containing a single BCs with the BC=UDI/TA and a single HLC=telephony	

IH__UT_U02	<b>ISDN ref. to:</b> ETS 300 267-1 [19], § 6.5.2 ETR 018 [20], § 6.3.5	<b>PBN ref. to:</b>
<b>TSS reference:</b>	ISDN-H.323 [3]/Basic_call/Unsuccessful/UDI-TA	
<b>Selection criteria:</b>	Videotelephony teleservice; Fallback allowed	
<b>Test purpose:</b>	Ensure that when a videotelephony 7 kHz fallback not allowed SETUP message is sent to the network, the PBN network shall initiate call clearing to the calling user with cause value # 65 "bearer capability not implemented"	
<b>Parameter values:</b>		
<b>Comments:</b>	videotelephony 7 kHz fallback not allowed SETUP message: A SETUP message containing a single BC=UDI/TA and a single HLC=videotelephony_ic	

## 6.6 Test purposes for ISDN-H.323 Supplementary services

IH__xxSSCLIP01	<b>ISDN ref. to:</b> ETS 300 092-1 [15], § 9.3 Q.931 [5], § 4.5.10, § 4.5.11	<b>PBN ref. to:</b> H.246 annex C [10] § C.7.2.3
<b>TSS reference:</b>	ISDN-H.323 [3]/Supplementary_services/CLIP	
<b>Selection criteria:</b>	The called user is provided with CLIP	
<b>Test purpose:</b>	Ensure that when the Calling party number is provided by the calling user, when the Type of number is defined as : TYPE_NUMBER, the Calling party number information elements is correctly delivered to the called (served) user as Calling party number or sourceAddress.	
<b>Parameter values:</b>	BC=PIXIT	
<b>Comments:</b>		

IH__xxSSCLIP02	<b>ISDN ref. to:</b> ETS 300 092-1 [15], § 9.3 Q.931 [5], § 4.5.10, § 4.5.11	<b>PBN ref. to:</b> H.246 annex C [10] § C.7.2.3
<b>TSS reference:</b>	ISDN-H.323 [3]/Supplementary_services/CLIP	
<b>Selection criteria:</b>	The called user is provided with CLIP	
<b>Test purpose:</b>	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) user as Calling party number or sourceAddress and Calling party subaddress information elements is correctly delivered to the called (served) user.	
<b>Parameter values:</b>	BC=PIXIT	
<b>Comments:</b>		

Values for the test purpose IH__xxSSCLIP01, IH__xxSSCLIP02	
	TON
VA_01	subscriber number
VA_02	national number
VA_03	international number
VA_04	unknown

IH__xxSSCLIP03	<b>ISDN ref. to:</b> ETS 300 092-1 [15], § 9.3	<b>PBN ref. to:</b> H.246 annex C [10] § C.7.2.3
<b>TSS reference:</b>	ISDN-H.323 [3]/Supplementary_services/CLIP	
<b>Selection criteria:</b>	The called user is provided with CLIP	
<b>Test purpose:</b>	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 elements is correctly delivered to the called (served) user as Calling party number or sourceAddress.	
<b>Parameter values:</b>	BC=PIXIT	
<b>Comments:</b>		

IH__xxSSCLIP04	<b>ISDN ref. to:</b> ETS 300 092-1 [15]; Q.931 [5], § 4.5.10, § 4.5.11	<b>PBN ref. to:</b> H.246 annex C [10] § C.7.2.3
<b>TSS reference:</b>	ISDN-H.323 [3]/Supplementary_services/CLIP	
<b>Selection criteria:</b>	The called user is provided with CLIP Special arrangement applies	
<b>Test purpose:</b>	Ensure that when a <b>special arrangement applies</b> 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" 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 as Calling party number or sourceAddress.	
<b>Parameter values:</b>	BC=PIXIT	
<b>Comments:</b>		

IH__xxSSCLIP05	<b>ISDN ref. to:</b> ETS 300 092-1 [15] Q.931 [5], § 4.5.10, § 4.5.11	<b>PBN ref. to:</b> H.246 annex C [10] § C.7.2.3
<b>TSS reference:</b>	ISDN-H.323 [3]/Supplementary_services/CLIP	
<b>Selection criteria:</b>	The called user is provided with CLIP Special arrangement applies	
<b>Test purpose:</b>	Ensure that when a <b>special arrangement applies</b> 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 element are delivered to the called (served) user as Calling party number or sourceAddress.	
<b>Parameter values:</b>	BC=PIXIT	
<b>Comments:</b>		

IH__xxSSCLIP06	<b>ISDN ref. to:</b> ETS 300 092-1 [15] Q.931 [5], § 4.5.10, § 4.5.11	<b>PBN ref. to:</b> H.246 annex C [10] § C.7.2.3
<b>TSS reference:</b>	ISDN-ISDN/Supplementary_services/CLIP	
<b>Selection criteria:</b>	The called user is provided with CLIP Special arrangement applies	
<b>Test purpose:</b>	Ensure that when a <b>special arrangement applies</b> and no Calling party number 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 is delivered to the called (served) user as Calling party number or sourceAddress.	
<b>Parameter values:</b>	BC= PIXIT	
<b>Comments:</b>		

IH__xxSSCLIR01	<b>ISDN ref. to:</b> ETS 300 093-1 [16], § 9.4.1 ETS 300 092-1/Amendment 2 [21] Figure 2	<b>PBN ref. to:</b> H.246 annex C [10] § C.7.2.4
<b>TSS reference:</b>	ISDN-H.323 [3]/Supplementary_services/CLIR	
<b>Selection criteria:</b>	The calling user is provided with CLIR permanent mode subscription, the called user with CLIP	
<b>Test purpose:</b>	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.	
<b>Parameter values:</b>	BC=PIXIT	
<b>Comments:</b>		

IH__xxSSCLIR02	<b>ISDN ref. to:</b> ETS 300 093-1 [16], § 9.4.1 ETS 300 092-1/Amendment 2 [21] Figure 2	<b>PBN ref. to:</b> H.246 annex C [10] § C.7.2.4
<b>TSS reference:</b>	ISDN-H.323 [3]/Supplementary_services/CLIR	
<b>Selection criteria:</b>	The calling user is provided with CLIR permanent mode subscription, the called user with CLIP	
<b>Test purpose:</b>	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 and delivered to the called user without any digit information.	
<b>Parameter values:</b>	BC=PIXIT	
<b>Comments:</b>		

IH__xxSSCLIR03	<b>ISDN ref. to:</b> ETS 300 093-1 [16], § 9.4.1 ETS 300 092-1/Amendment 2 [21] Figure 2	<b>PBN ref. to:</b> H.246 annex C [10] § C.7.2.4
<b>TSS reference:</b>	ISDN-H.323 [3]/Supplementary_services/CLIR	
<b>Selection criteria:</b>	The calling user is provided with CLIR temporary mode subscription The called user is provided with CLIP Special arrangement applies	
<b>Test purpose:</b>	Ensure that when a <b>special arrangement applies</b> and a Calling party number information element and a valid calling number with presentation in not allowed is provided by the calling user, the Calling party number information element with the presentation indicator set to "presentation restricted", the screening indicator is set to "network-provided" is delivered to the called user.	
<b>Parameter values:</b>	BC=PIXIT	
<b>Comments:</b>		

## COLP

IH__xxSSCOLP01	<b>ISDN ref. to:</b> ETS 300 097-1 [17], § 9.5.1	<b>PBN ref. to:</b> H.246 annex C [10] § C.7.2.5
<b>TSS reference:</b>	ISDN-H.323 [3]/Supplementary_services/COLP	
<b>Selection criteria:</b>	The calling user is provided with COLP	
<b>Test purpose:</b>	Ensure that when the Connected number is provided by the called user, the Type of number is defined as: TYPE OF NUMBER, the Connected number information elements is correctly delivered to the calling (served) user.	
<b>Parameter values:</b>	BC=PIXIT	
<b>Comments:</b>		

IH__xxSSCOLP02	<b>ISDN ref. to:</b> ETS 300 097-1 [17], § 9.5.1	<b>PBN ref. to:</b> H.246 annex C [10] § C.7.2.5
<b>TSS reference:</b>	ISDN-H.323 [3]/Supplementary_services/COLP	
<b>Selection criteria:</b>	The calling user is provided with COLP	
<b>Test purpose:</b>	Ensure that when the Connected number is provided by the called user, the Type of number is defined as: TYPE OF NUMBER, with Connected subaddress, the Connected number and Connected subaddress information elements are correctly delivered to the calling (served) user.	
<b>Parameter values:</b>	BC=PIXIT	
<b>Comments:</b>		

Values for the test purpose IH__xxSSCOLP01, IH__xxSSCOLP02	
	TON
<b>VA_01</b>	subscriber number
<b>VA_02</b>	national number
<b>VA_03</b>	international number
<b>VA_04</b>	unknown

IH__xxSSCOLP05	<b>ISDN ref. to:</b> ETS 300 097-1 [17], § 9.5.1	<b>PBN ref. to:</b> H.246 annex C [10] § C.7.2.5
<b>TSS reference:</b>	ISDN-H.323 [3]/Supplementary_services/COLP	
<b>Selection criteria:</b>	Calling user is provided with COLP	
<b>Test purpose:</b>	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.	
<b>Parameter values:</b>	BC=PIXIT	
<b>Comments:</b>		

IH__xxSSCOLP06	<b>ISDN ref. to:</b> ETS 300 097-1 [17], § 9.5.1	<b>PBN ref. to:</b> H.246 annex C [10] § C.7.2.5
<b>TSS reference:</b>	ISDN-H.323 [3]/Supplementary_services/COLP	
<b>Selection criteria:</b>	Calling user is provided with COLP Special arrangement applies	
<b>Test purpose:</b>	Ensure that when a <b>special arrangement applies</b> 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.	
<b>Parameter values:</b>	BC=PIXIT	
<b>Comments:</b>		

IH__xxSSCOLP07	<b>ISDN ref. to:</b> ETS 300 097-1 [17], § 9.5.1	<b>PBN ref. to:</b> H.246 annex C [10] § C.7.2.5
<b>TSS reference:</b>	ISDN-H.323 [3]/Supplementary_services/COLP	
<b>Selection criteria:</b>	Calling user is provided with COLP Special arrangement applies	
<b>Test purpose:</b>	Ensure that when a <b>special arrangement applies</b> and when a Connected number with the Type of number coded <b>other</b> 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.	
<b>Parameter values:</b>	BC=PIXIT	
<b>Comments:</b>		

IH__xxSSCOLP08	<b>ISDN ref. to:</b> ETS 300 097-1 [17], § 9.5.1	<b>PBN ref. to:</b> H.246 annex C [10] § C.7.2.5
<b>TSS reference:</b>	ISDN-H.323 [3]/Supplementary_services/COLP	
<b>Selection criteria:</b>	Calling user is provided with COLP Special arrangement applies	
<b>Test purpose:</b>	Ensure that when a <b>special arrangement applies</b> and when no Connected number is provided by the called user in the CONNECT message, the Connected number information element with the Screening indicator value "network provided" is delivered to the calling (served) user.	
<b>Parameter values:</b>	BC=PIXIT, SI=NP,	
<b>Comments:</b>		

IH__xxSSCOLP09	<b>ISDN ref. to:</b> ETS 300 097-1 [17], § 9.5.1	<b>PBN ref. to:</b> H.246 annex C [10] § C.7.2.5
<b>TSS reference:</b>	ISDN-H.323 [3]/Supplementary_services/COLP	
<b>Selection criteria:</b>	Calling user is provided with COLP special arrangement applies	
<b>Test purpose:</b>	Ensure that when a <b>special arrangement applies</b> and when a Connected number information element and a Connected subaddress information element is provided by the called user in the CONNECT message, the Connected number information element with the Screening indicator value "user-provided, not screened" and a Connected subaddress information element is delivered to the calling (served) user.	
<b>Parameter values:</b>	BC=PIXIT	
<b>Comments:</b>		

## COLR

IH__xxSSCOLR01	<b>ISDN ref. to:</b> ETS 300 098-1 [18], § 9.3.1, § 9.4.1 ETS 300 097-1/Amendment 1 [22] Figure 4	<b>PBN ref. to:</b> H.246 annex C [10] § C.7.2.6
<b>TSS reference:</b>	ISDN-H.323 [3]/Supplementary_services/COLR	
<b>Selection criteria:</b>	The called (served) user is provided with COLR permanent mode subscription, the calling user with COLP	
<b>Test purpose:</b>	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	
<b>Parameter values:</b>	BC=PIXIT	
<b>Comments:</b>		

IH__xxSSCOLR02	<b>ISDN ref. to:</b> ETS 300 098-1 [18], § 9.3.1, § 9.4.1 ETS 300 097-1/Amendment 1 [22] Figure 4	<b>PBN ref. to:</b> H.246 annex C [10] § C.7.2.6
<b>TSS reference:</b>	ISDN-H.323 [3]/Supplementary_services /COLR	
<b>Selection criteria:</b>	The called (served) user is provided with COLR permanent mode subscription, the calling user with COLP	
<b>Test purpose:</b>	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.	
<b>Parameter values:</b>	BC=PIXIT	
<b>Comments:</b>		

IH__xxSS COLR03	<b>ISDN ref. to:</b> ETS 300 098-1 [18], § 9.3.1, § 9.4.1 ETS 300 097-1/Amendment 1 [22] Figure 4	<b>PBN ref. to:</b> H.246 annex C [10] § C.7.2.6
<b>TSS reference:</b>	ISDN-H.323 [3]/Supplementary_services /COLR	
<b>Selection criteria:</b>	The called (served) user is provided with COLR permanent mode subscription, the calling user with COLP	
<b>Test purpose:</b>	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 user.	
<b>Parameter values:</b>	BC=PIXIT	
<b>Comments:</b>		

## 6.7 Test purposes for H.323-ISDN, Basic call, Successful speech

HI__SP__01	<b>ISDN ref. to:</b> Q.931 [5], § 5.2.1 Q.699 [23], § 3.1.1	<b>PBN ref. to:</b> H.246 annex C [10] § C.6.1 H.225.0 [4], § B.6 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.1, § B.1.3.2, § 5.1.5.1
<b>TSS reference:</b>	H.323 [3]-ISDN/Basic_call/Successful/Speech	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that call establishment using <u>en-bloc</u> sending is performed correctly when the H.323 [3] Terminal includes the <u>Sending complete information</u> element in the SETUP message with the fastStart sequence. Ensure that in the active call state (N10) the voice transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters). The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.	
<b>ISDN Parameter values:</b>	BC=speech, no HLC	
<b>H.323 [3] Parameter values:</b>	BC=speech, no HLC	
<b>Comments:</b>	Support of in-band information coming from the Terminating Network At the reception of a CALL PROCEEDING message with a Progress indicator element included the H.323 [3] Terminal shall stop any running call supervision timer and start timer T301. At the reception of a PROGRESS message (before an ALERTING message is received) with a Progress indicator information element included (but no Cause information element is included) the H.323 [3] Terminal shall stop any running call supervision timer and start timer T301.	



HI__SP__02	<b>ISDN ref. to:</b> Q.931 [5], § 5.2.1 Q.699 [23], § 3.1.1	<b>PBN ref. to:</b> H.246 annex C [10] § C.6.1 H.225.0 [4], § B.6 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.1, § B.1.3.2, § 5.1.5.1
<b>TSS reference:</b>	H.323 [3]-ISDN/Basic_call/Successful/Speech	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that call establishment using <u>en-bloc sending</u> is performed correctly when the H.323 [3] Terminal includes the canOverlapSend parameter with the value FALSE and the fastStart sequence in the SETUP message. Ensure that in the active call state (N10) the voice transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters). The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.	
<b>ISDN Parameter values:</b>	BC=speech, no HLC	
<b>H.323 [3] Parameter values:</b>	BC=speech, no HLC Setup-UUIE ::= SEQUENCE fastStart SEQUENCE OF OCTET STRING, canOverlapSend FALSE	
<b>Comments:</b>	Support of in-band information coming from the Terminating Network At the reception of a CALL PROCEEDING message with a Progress indicator element included the H.323 [3] Terminal shall stop any running call supervision timer and start timer T301. At the reception of a PROGRESS message (before an ALERTING message is received) with a Progress indicator information element included (but no Cause information element is included) the H.323 [3] Terminal shall stop any running call supervision timer and start timer T301.	

HI__SP__03	<b>ISDN ref. to:</b> Q.931 [5], § 5.2 Q.699 [23], § 3.1.1	<b>PBN ref. to:</b> H.246 annex C [10] § C.6.1 H.225.0 [4], § B.6 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.1, § B.1.3.2, § 5.1.5.1
<b>TSS reference:</b>	H.323 [3]-ISDN/Basic_call/Successful/Speech	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that call establishment using <u>en-bloc sending</u> is performed correctly when the H.323 [3] Terminal includes a "#" character as the last digit in the Called Party number information element and the fastStart sequence in the SETUP message. Ensure that in the active call state (N10) the voice transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters). The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.	
<b>ISDN Parameter values:</b>	BC=speech, no HLC	
<b>H.323 [3] Parameter values:</b>	BC=speech, no HLC Setup-UUIE ::= SEQUENCE fastStart SEQUENCE OF OCTET STRING	
<b>Comments:</b>	Support of in-band information coming from the Terminating Network At the reception of a CALL PROCEEDING message with a Progress indicator element included the H.323 [3] Terminal shall stop any running call supervision timer and start timer T301. At the reception of a PROGRESS message (before an ALERTING message is received) with a Progress indicator information element included (but no Cause information element is included) the H.323 [3] Terminal shall stop any running call supervision timer and start timer T301.	

HI__SP__04	<b>ISDN ref. to:</b> Q.931 [5], § 5.2 Q.699 [23], § 3.1.1	<b>PBN ref. to:</b> H.246 annex C [10] § C.6.1 H.225.0 [4], § B.6 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.1, § B.1.3.2, § 5.1.5.1
<b>TSS reference:</b>	H.323 [3]-ISDN/Basic_call/Successful/Speech	
<b>Selection criteria:</b>	ISDN, point to multipoint	
<b>Test purpose:</b>	Ensure that the calling interface <u>using en-bloc sending</u> in the Call Initiated call state U1, on receipt of a CALL PROCEEDING message, enters the Outgoing Call Proceeding state U3, on receipt of a ALERTING message, from the called endpoint, the calling interface sends the ALERTING message and enters the Call Delivered call state U4. On receipt of a CONNECT message from the called endpoint, the calling interface sends an CONNECT message and enters the Active call state U10. Ensure that in the active call state (N10) the voice transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters). The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.	
<b>ISDN Parameter values:</b>	BC=speech, no HLC	
<b>H.323 [3] Parameter values:</b>	BC=speech, no HLC Setup-UUIE ::= SEQUENCE fastStart SEQUENCE OF OCTET STRING, canOverlapSend False	
<b>Comments:</b>		

HI__SP__05	<b>ISDN ref. to:</b> Q.931 [5], § 5.2 Q.699 [23], § 3.1.1	<b>PBN ref. to:</b> H.246 annex C [10] § C.6.1 H.225.0 [4], § B.6 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.1, § B.1.3.2, § 5.1.5.1
<b>TSS reference:</b>	H.323 [3]-ISDN/Basic_call/Successful/Speech	
<b>Selection criteria:</b>	ISDN, point to multipoint	
<b>Test purpose:</b>	Ensure that the calling interface <u>using en-bloc sending</u> on receipt of a CALL PROCEEDING message, enters the Outgoing Call Proceeding state U3 and on receipt of a CONNECT message from the called endpoint, the calling interface sends a CONNECT message and enters the Active call state U10. Ensure that in the active call state (N10) the voice transfer on the media and B-channels are performed correctly. The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.	
<b>ISDN Parameter values:</b>	BC=speech, no HLC	
<b>H.323 [3] Parameter values:</b>	BC=speech, no HLC Setup-UUIE ::= SEQUENCE fastStart SEQUENCE OF OCTET STRING, canOverlapSend False	
<b>Comments:</b>		

HI__SP__06	<b>ISDN ref. to:</b> Q.931 [5], § 5.2 Q.699 [23], § 3.1.1	<b>PBN ref. to:</b> H.246 annex C [10] § C.6.1 H.225.0 [4], § B.6 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.1, § B.1.3.2, § 5.1.5.1
<b>TSS reference:</b>	H.323 [3]-ISDN/Basic_call/Successful/Speech	
<b>Selection criteria:</b>	ISDN point-point configuration, overlap sending	
<b>Test purpose:</b>	<p>Ensure that call establishment using overlap sending is performed correctly.</p> <p>Ensure that in the Overlap Sending State U2, on receipt of a ALERTING message, from the called endpoint, the calling interface sends the ALERTING message and enters the Call Delivered call state U4. On receipt of a CONNECT message from the called endpoint, the calling interface sends a CONNECT message and enters the Active call state U10.</p> <p>Ensure that in the active call state (N10) the voice transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters).</p> <p>The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.</p>	
<b>ISDN Parameter values:</b>	BC=speech, no HLC	
<b>H.323 [3] Parameter values:</b>	BC=speech, no HLC Setup-UUIE ::= SEQUENCE fastStart           SEQUENCE OF OCTET STRING, canOverlapSend    TRUE	
<b>Comments:</b>	<p>The H.323 [3] Terminal shall include the parameter canOverlapSend set to TRUE, the H.323 [3] Terminal shall include the Called Party number including with at least one digit in the SETUP message, the H.323 [3] Terminal shall send the SETUP message to the Originating Network and the H.323 [3] Terminal shall start timer T.302 (the value of timer T302 is specified in the EN 300 403-1 [11]).</p> <p>If the Originating Network determines that additional information is required to establish a call a SETUP ACKNOWLEDGE message is returned as the response to the SETUP message.</p>	

HI__SP__07	<b>ISDN ref. to:</b> Q.931 [5], § 5.2 Q.699 [23], § 3.1.1	<b>PBN ref. to:</b> H.246 annex C [10] § C.6.1 H.225.0 [4], § B.6 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.1, § B.1.3.2, § 5.1.5.1
<b>TSS reference:</b>	H.323 [3]-ISDN/Basic_call/Successful/Speech	
<b>Selection criteria:</b>	ISDN point-point configuration, overlap sending	
<b>Test purpose:</b>	<p>Ensure that call establishment using overlap sending is performed correctly.</p> <p>Ensure that in the Overlap Sending State U2, on receipt of a CONNECT message, from the called endpoint, the calling interface sends the CONNECT message and enters the Active call state U10.</p> <p>Ensure that in the active call state (N10) the voice transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters).</p> <p>The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.</p>	
<b>ISDN Parameter values:</b>	BC=speech, no HLC	
<b>H.323 [3] Parameter values:</b>	BC=speech, no HLC Setup-UUIE ::= SEQUENCE fastStart           SEQUENCE OF OCTET STRING, canOverlapSend    TRUE	
<b>Comments:</b>	<p>The H.323 [3] Terminal shall include the parameter canOverlapSend set to TRUE, the H.323 [3] Terminal shall include the Called Party number including with at least one digit in the SETUP message, the H.323 [3] Terminal shall send the SETUP message to the Originating Network and the H.323 [3] Terminal shall start timer T.302 (the value of timer T302 is specified in the EN 300 403-1 [11]).</p> <p>If the Originating Network determines that additional information is required to establish a call a SETUP ACKNOWLEDGE message is returned as the response to the SETUP message.</p>	

HI__SP__08	<b>ISDN ref. to:</b> Q.931 [5], § 5.2 Q.699 [23], § 3.1.1	<b>PBN ref. to:</b> H.246 annex C [10] § C.6.1 H.225.0 [4], § B.6 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.1, § B.1.3.2, § 5.1.5.1
<b>TSS reference:</b>	H.323 [3]-ISDN/Basic_call/Successful/Speech	
<b>Selection criteria:</b>	ISDN point-point configuration, overlap sending	
<b>Test purpose:</b>	<p>Ensure that the call establishment using <u>overlap sending</u> is performed correctly</p> <p>Ensure that in the Overlap Sending State U2, on receipt of a CALL PROCEEDING message, from the called endpoint, the calling interface sends the CALL PROCEEDING message and enters the Outgoing Call Proceeding call state U3.</p> <p>On receipt of a ALERTING message, from the called endpoint, the calling interface sends an ALERTING message and enters the call delivered state (U4). On receipt of a CONNECT message from the called endpoint, the calling interface sends a CONNECT message and enters the Active call state U10.</p> <p>Ensure that in the active call state (U10) the voice transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters).</p> <p>The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.</p>	
<b>ISDN Parameter values:</b>	BC=speech, no HLC	
<b>H.323 [3] Parameter values:</b>	BC=speech, no HLC fastStart           SEQUENCE OF OCTET STRING, canOverlapSend    TRUE	
<b>Comments:</b>	<p>The H.323 [3] Terminal shall include the parameter canOverlapSend set to TRUE, the H.323 [3] Terminal shall include the Called Party number including with at least one digit in the SETUP message, the H.323 [3] Terminal shall send the SETUP message to the Originating Network and the H.323 [3] Terminal shall start timer T.302 (the value of timer T302 is specified in the EN 300 403-1 [11]).</p> <p>If the Originating Network determines that additional information is required to establish a call a SETUP ACKNOWLEDGE message is returned as the response to the SETUP message.</p>	

HI__SP__09	<b>ISDN ref. to:</b> Q.931 [5], § 5.2 Q.699 [23], § 3.1.1	<b>PBN ref. to:</b> H.246 annex C [10] § C.6.1 H.225.0 [4], § B.6 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.1, § B.1.3.2, § 5.1.5.1
<b>TSS reference:</b>	H.323 [3]-ISDN/Basic_call/Successful/Speech	
<b>Selection criteria:</b>	ISDN point-point configuration, overlap sending	
<b>Test purpose:</b>	<p>Ensure that call establishment using <u>overlap sending</u> is performed correctly</p> <p>Ensure that in the Overlap Sending State U2, on receipt of a CALL PROCEEDING message, from the called endpoint, the calling interface sends the CALL PROCEEDING message and enters the Outgoing Call Proceeding call state U3. On receipt of a CONNECT message from the called endpoint, the calling interface sends a CONNECT message and enters the Active call state U10.</p> <p>Ensure that in the active call state (N10) the voice transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters).</p> <p>The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.</p>	
<b>ISDN Parameter values:</b>	BC=speech, no HLC	
<b>H.323 [3] Parameter values:</b>	BC=speech, no HLC Setup-UUIE ::= SEQUENCE fastStart           SEQUENCE OF OCTET STRING, canOverlapSend    TRUE	
<b>Comments:</b>	<p>The H.323 [3] Terminal shall include the parameter canOverlapSend set to TRUE, the H.323 [3] Terminal shall include the Called Party number including with at least one digit in the SETUP message, the H.323 [3] Terminal shall send the SETUP message to the Originating Network and the H.323 [3] Terminal shall start timer T.302 (the value of timer T302 is specified in the EN 300 403-1 [11]).</p> <p>If the Originating Network determines that additional information is required to establish a call a SETUP ACKNOWLEDGE message is returned as the response to the SETUP message.</p>	

HI__SP__10	<b>ISDN ref. to:</b> Q.931 [5], § 5.3.3 Q.699 [23], § 3.1.1	<b>PBN ref. to:</b> H.246 annex C [10] § C.6.1 H.225.0 [4], § B.6 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.1, § B.1.3.2, § 5.1.5.1
<b>TSS reference:</b>	H.323 [3]-ISDN/Basic_call/Successful/Speech	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	<p>Ensure that the call establishment and the call clearing procedure is performed correctly when the <u>calling user</u> clears after answering with a RELEASE COMPLETE message indicating the cause value # 16 "normal call clearing".</p> <p>The called user shall receive a DISCONNECT message indicating the cause value # 16 "normal call clearing" with the progress indicator #8 or a Progress message with the progress indicator #8.</p> <p>Ensure that in the Call Delivered call state U4 the transfer of tone or announcement on the media channel is performed correctly.</p> <p>The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.</p>	
<b>ISDN Parameter values:</b>	BC=speech, no HLC	
<b>H.323 [3] Parameter values:</b>	BC=speech, no HLC Setup-UUIE ::= SEQUENCE fastStart           SEQUENCE OF OCTET STRING, canOverlapSend       TRUE	
<b>Comments:</b>		

HI__SP__11	<b>ISDN ref. to:</b> Q.931 [5], § 5.3.3 Q.699 [23], § 3.1.1	<b>PBN ref. to:</b> H.246 annex C [10] § C.6.1 H.225.0 [4], § B.6 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.1, § B.1.3.2, § 5.1.5.1
<b>TSS reference:</b>	H.323 [3]-ISDN/Basic_call/Successful/Speech	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	<p>Ensure that the call establishment and the call clearing procedure is performed correctly when the <u>calling user</u> clears after answering with a RELEASE COMPLETE message indicating ReleaseCompleteReason facilityCallDeflection.</p> <p>The called user shall receive a DISCONNECT message indicating the cause value # 16 "normal call clearing" with the progress indicator #8 or a Progress message with the progress indicator #8.</p> <p>Ensure that in the Call Delivered call state U4 the transfer of tone or announcement on the media channel is performed correctly.</p> <p>The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.</p>	
<b>ISDN Parameter values:</b>	BC=speech, no HLC	
<b>H.323 [3] Parameter values:</b>	BC=speech, no HLC Setup-UUIE ::= SEQUENCE fastStart           SEQUENCE OF OCTET STRING, canOverlapSend       TRUE	
<b>Comments:</b>		

HI__SP__12	<b>ISDN ref. to:</b> Q.931 [5], § 5.3.3 Q.699 [23], § 3.1.1	<b>PBN ref. to:</b> H.246 annex C [10] § C.6.1 H.225.0 [4], § B.6 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.1, § B.1.3.2, § 5.1.5.1
<b>TSS reference:</b>	H.323 [3]-ISDN/Basic_call/Successful/Speech	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that the call clearing procedure is performed correctly when the <b>called user</b> clears after answering with a DISCONNECT message indicating the cause value # 16 "normal call clearing". The calling user shall receive a RELEASE COMPLETE with the cause value # 16 "normal call clearing" or ReleaseCompleteReason facilityCallDeflection. The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.	
<b>ISDN Parameter values:</b>	BC=speech, no HLC	
<b>H.323 [3] Parameter values:</b>	BC=speech, no HLC Setup-UUIE ::= SEQUENCE fastStart SEQUENCE OF OCTET STRING, canOverlapSend TRUE	
<b>Comments:</b>		

Values for test purposes IH__SP__01 and IH__SP__12	
VA_01	g711Alaw64k
VA_02	g711Alaw56k
VA_03	g711Ulaw64k
VA_04	g711Ulaw56k
VA_05	g722-64k
VA_06	g722-56k
VA_07	g722-48k
VA_08	g7231
VA_09	g728
VA_10	g729
VA_11	g729annexA
VA_12	is11172AudioCapability
VA_13	is13818AudioCapability
VA_14	g729wannexB
VA_15	g7231annexCCapability
VA_16	gsmFullRate GSMAudioCapability
VA_17	gsmHalfRate GSMAudioCapability
VA_18	gsmEnhancedFullRate GSMAudioCapability
VA_19	genericAudioCapability GenericCapability

## 6.8 Test purposes for H.323-ISDN, Basic call, Successful 3,1 kHz

HI__AU__01	<b>ISDN ref. to:</b> Q.931 [5], § 5.2	<b>PBN ref. to:</b> H.246 annex C [10] § C.6.1 H.225.0 [4], § B.6 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.1, § B.1.3.2, § 5.1.5.1
<b>TSS reference:</b>	H.323 [3]-ISDN/Basic_call/Successful/3,1 kHz audio	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	<p>Ensure that call establishment using <u>en-bloc</u> sending is performed correctly when the H.323 [3] Terminal includes the <u>Sending complete information element</u> in the SETUP message with the fastStart sequence.</p> <p>Ensure that in the active call state (N10) the data transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters).</p> <p>The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.</p>	
<b>ISDN Parameter values:</b>	BC=3,1 kHz audio, no HLC	
<b>H.323 [3] Parameter values:</b>	BC=3,1 kHz audio, no HLC Setup-UUIE ::= SEQUENCE fastStart SEQUENCE OF OCTET STRING	
<b>Comments:</b>	<p>Support of in-band information coming from the Terminating Network</p> <p>At the reception of a CALL PROCEEDING message with a Progress indicator element included the H.323 [3] Terminal shall stop any running call supervision timer and start timer T301.</p> <p>At the reception of a PROGRESS message (before an ALERTING message is received) with a Progress indicator information element included (but no Cause information element is included) the H.323 [3] Terminal shall stop any running call supervision timer and start timer T301.</p>	

HI__AU__02	<b>ISDN ref. to:</b> Q.931 [5], § 5.2 Q.699 [23], § 3.1.1	<b>PBN ref. to:</b> H.246 annex C [10] § C.6.1 H.225.0 [4], § B.6 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.1, § B.1.3.2, § 5.1.5.1
<b>TSS reference:</b>	H.323 [3]-ISDN/Basic_call/Successful/3,1 kHz audio	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	<p>Ensure that call establishment using <u>en-bloc</u> sending is performed correctly when the H.323 [3] Terminal includes the <u>OverlapSend</u> parameter with the value FALSE and the fastStart sequence in the SETUP message.</p> <p>Ensure that in the active call state (N10) the data transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters).</p> <p>The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.</p>	
<b>ISDN Parameter values:</b>	BC=3,1 kHz audio, no HLC	
<b>H.323 [3] Parameter values:</b>	BC=3,1 kHz audio, no HLC Setup-UUIE ::= SEQUENCE fastStart SEQUENCE OF OCTET STRING, canOverlapSend FALSE	
<b>Comments:</b>	<p>Support of in-band information coming from the Terminating Network</p> <p>At the reception of a CALL PROCEEDING message with a Progress indicator element included the H.323 [3] Terminal shall stop any running call supervision timer and start timer T301.</p> <p>At the reception of a PROGRESS message (before an ALERTING message is received) with a Progress indicator information element included (but no Cause information element is included) the H.323 [3] Terminal shall stop any running call supervision timer and start timer T301.</p>	

HI__AU__03	<b>ISDN ref. to:</b> Q.931 [5], § 5.2 Q.699 [23], § 3.1.1	<b>PBN ref. to:</b> H.246 annex C [10] § C.6.1 H.225.0 [4], § B.6 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.1, § B.1.3.2, § 5.1.5.1
<b>TSS reference:</b>	H.323 [3]-ISDN/Basic_call/Successful/3,1 kHz audio	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that call establishment using en-bloc sending is performed correctly when the H.323 [3] Terminal includes a "#" character as the last digit in the Called Party number information element and the fastStart sequence in the SETUP message. Ensure that in the active call state (N10) the data transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters). The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.	
<b>ISDN Parameter values:</b>	BC=3,1 kHz audio, no HLC	
<b>H.323 [3] Parameter values:</b>	BC=3,1 kHz audio, no HLC Setup-UUIE ::= SEQUENCE fastStart SEQUENCE OF OCTET STRING	
<b>Comments:</b>	Support of in-band information coming from the Terminating Network At the reception of a CALL PROCEEDING message with a Progress indicator element included the H.323 [3] Terminal shall stop any running call supervision timer and start timer T301. At the reception of a PROGRESS message (before an ALERTING message is received) with a Progress indicator information element included (but no Cause information element is included) the H.323 [3] Terminal shall stop any running call supervision timer and start timer T301.	

HI__AU__04	<b>ISDN ref. to:</b> Q.931 [5], § 5.2 Q.699 [23], § 3.1.1	<b>PBN ref. to:</b> H.246 [10] annex C §C.6.1 H.225.0 [4], § B.6 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.1, § B.1.3.2, § 5.1.5.1
<b>TSS reference:</b>	H.323 [3]-ISDN/Basic_call/Successful/3,1 kHz audio	
<b>Selection criteria:</b>	ISDN, point to multipoint	
<b>Test purpose:</b>	Ensure that the calling interface using en-bloc sending in the Call Initiated call state U1, on receipt of a CALL PROCEEDING message, enters the Outgoing Call Proceeding state U3, on receipt of a ALERTING message, from the called endpoint, the calling interface sends the ALERTING message and enters the Call Delivered call state U4. On receipt of a CONNECT message from the called endpoint, the calling interface sends a CONNECT message and enters the Active call state U10. Ensure that in the active call state (N10) the data transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters). The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.	
<b>ISDN Parameter values:</b>	BC=3,1 kHz audio, no HLC	
<b>H.323 [3] Parameter values:</b>	BC=3,1 kHz audio, no HLC Setup-UUIE ::= SEQUENCE fastStart SEQUENCE OF OCTET STRING, canOverlapSend False	
<b>Comments:</b>		



HI__AU__05	<b>ISDN ref. to:</b> Q.931 [5], § 5.2 Q.699 [23], § 3.1.1	<b>PBN ref. to:</b> H.246 annex C [10] § C.6.1 H.225.0 [4], § B.6 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.1, § B.1.3.2, § 5.1.5.1
<b>TSS reference:</b>	H.323 [3]-ISDN/Basic_call/Successful/3,1 kHz audio	
<b>Selection criteria:</b>	ISDN, point to multipoint	
<b>Test purpose:</b>	Ensure that the calling interface <u>using en-bloc sending</u> on receipt of a CALL PROCEEDING message, enters the Outgoing Call Proceeding state U3 and on receipt of a CONNECT message from the called endpoint, the calling interface sends a CONNECT message and enters the Active call state U10. Ensure that in the active call state (N10) the data transfer on the media and B-channels are performed correctly. The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.	
<b>Parameter values:</b>	BC=3,1 kHz audio, no HLC	
<b>Comments:</b>		

HI__SP__06	<b>ISDN ref. to:</b> Q.931 [5], § 5.2 Q.699 [23], § 3.1.1	<b>PBN ref. to:</b> H.246 annex C [10] § C.6.1 H.225.0 [4], § B.6 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.1, § B.1.3.2, § 5.1.5.1
<b>TSS reference:</b>	H.323 [3]-ISDN/Basic_call/Successful/3,1 kHz audio	
<b>Selection criteria:</b>	ISDN point-point configuration, overlap sending	
<b>Test purpose:</b>	Ensure that call establishment <u>using overlap sending</u> is performed correctly. Ensure that in the Overlap Sending State U2, on receipt of a ALERTING message, from the called endpoint, the calling interface sends the ALERTING message and enters the Call Delivered call state U4. On receipt of a CONNECT message from the called endpoint, the calling interface sends a CONNECT message and enters the Active call state U10. Ensure that in the active call state (N10) the data transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters). The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.	
<b>ISDN Parameter values:</b>	BC=3,1 kHz audio, no HLC	
<b>H.323 [3] Parameter values:</b>	BC=3,1 kHz audio, no HLC Setup-UUIE ::= SEQUENCE fastStart SEQUENCE OF OCTET STRING, canOverlapSend TRUE	
<b>Comments:</b>	The H.323 [3] Terminal shall include the parameter canOverlapSend set to TRUE, the H.323 [3] Terminal shall include the Called Party number including with at least one digit in the SETUP message, the H.323 [3] Terminal shall send the SETUP message to the Originating Network and the H.323 [3] Terminal shall start timer T.302 (the value of timer T302 is specified in the EN 300 403-1 [11]). If the Originating Network determines that additional information is required to establish a call a SETUP ACKNOWLEDGE message is returned as the response to the SETUP message.	

HI__AU__07	<b>ISDN ref. to:</b> Q.931 [5], § 5.2 Q.699 [23], § 3.1.1	<b>PBN ref. to:</b> H.246 annex C [10] § C.6.1 H.225.0 [4], § B.6 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.1, § B.1.3.2, § 5.1.5.1
<b>TSS reference:</b>	H.323 [3]-ISDN/Basic_call/Successful/3,1 kHz audio	
<b>Selection criteria:</b>	ISDN point-point configuration, overlap sending	
<b>Test purpose:</b>	<p>Ensure that call establishment using <u>overlap sending</u> is performed correctly.</p> <p>Ensure that in the Overlap Sending State U2, on receipt of a CONNECT message from the called endpoint, the calling interface sends the CONNECT message and enters the Active call state U10.</p> <p>Ensure that in the active call state (N10) the data transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters).</p> <p>The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.</p>	
<b>ISDN Parameter values:</b>	BC=3,1 kHz audio, no HLC	
<b>H.323 [3] Parameter values:</b>	BC=3,1 kHz audio, no HLC Setup-UUIE ::= SEQUENCE fastStart SEQUENCE OF OCTET STRING, canOverlapSend TRUE	
<b>Comments:</b>	<p>The H.323 [3] Terminal shall include the parameter canOverlapSend set to TRUE, the H.323 [3] Terminal shall include the Called Party number including with at least one digit in the SETUP message, the H.323 [3] Terminal shall send the SETUP message to the Originating Network and the H.323 [3] Terminal shall start timer T.302 (the value of timer T302 is specified in the EN 300 403-1 [11]).</p> <p>If the Originating Network determines that additional information is required to establish a call a SETUP ACKNOWLEDGE message is returned as the response to the SETUP message.</p>	

HI__AU__08	<b>ISDN ref. to:</b> Q.931 [5], § 5.2 Q.699 [23], § 3.1.1	<b>PBN ref. to:</b> H.246 annex C [10] § C.6.1 H.225.0 [4], annex B § B.6 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.1, § B.1.3.2, § 5.1.5.1
<b>TSS reference:</b>	H.323 [3]-ISDN/Basic_call/Successful/3,1 kHz audio	
<b>Selection criteria:</b>	ISDN point-point configuration, overlap sending	
<b>Test purpose:</b>	<p>Ensure that the call establishment using <u>overlap sending</u> is performed correctly</p> <p>Ensure that in the Overlap Sending State U2, on receipt of a CALL PROCEEDING message, from the called endpoint, the calling interface sends the CALL PROCEEDING message and enters the Outgoing Call Proceeding call state U3.</p> <p>On receipt of a ALERTING message, from the called endpoint, the calling interface sends an ALERTING message and enters the call delivered state (U4). On receipt of a CONNECT message from the called endpoint, the calling interface sends a CONNECT message and enters the Active call state U10.</p> <p>Ensure that in the active call state (U10) the data transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters).</p> <p>The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.</p>	
<b>ISDN Parameter values:</b>	BC=3,1 kHz audio, no HLC	
<b>H.323 [3] Parameter values:</b>	BC=3,1 kHz audio, no HLC fastStart SEQUENCE OF OCTET STRING, canOverlapSend TRUE	
<b>Comments:</b>	<p>The H.323 [3] Terminal shall include the parameter canOverlapSend set to TRUE, the H.323 [3] Terminal shall include the Called Party number including with at least one digit in the SETUP message, the H.323 [3] Terminal shall send the SETUP message to the Originating Network and the H.323 [3] Terminal shall start timer T.302 (the value of timer T302 is specified in the EN 300 403-1 [11]).</p> <p>If the Originating Network determines that additional information is required to establish a call a SETUP ACKNOWLEDGE message is returned as the response to the SETUP message.</p>	

HI__AU__09	<b>ISDN ref. to:</b> Q.931 [5], § 5.2 Q.699 [23], § 3.1.1	<b>PBN ref. to:</b> H.246 annex C [10] § C.6.1 H.225.0 [4], § B.6 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.1, § B.1.3.2, § 5.1.5.1
<b>TSS reference:</b>	H.323 [3]-ISDN/Basic_call/Successful/3,1 kHz audio	
<b>Selection criteria:</b>	ISDN point-point configuration, overlap sending	
<b>Test purpose:</b>	<p>Ensure that call establishment using <u>overlap sending</u> is performed correctly</p> <p>Ensure that in the Overlap Sending State U2, on receipt of a CALL PROCEEDING message from the called endpoint, the calling interface sends the CALL PROCEEDING message and enters the Outgoing Call Proceeding call state U3. On receipt of a CONNECT message from the called endpoint, the calling interface sends a CONNECT message and enters the Active call state U10.</p> <p>Ensure that in the active call state (N10) the data transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters).</p> <p>The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.</p>	
<b>ISDN Parameter values:</b>	BC=3,1 kHz audio, no HLC	
<b>H.323 [3] Parameter values:</b>	BC=3,1 kHz audio, no HLC Setup-UUIE ::= SEQUENCE fastStart SEQUENCE OF OCTET STRING, canOverlapSend TRUE	
<b>Comments:</b>	<p>The H.323 [3] Terminal shall include the parameter canOverlapSend set to TRUE, the H.323 [3] Terminal shall include the Called Party number including with at least one digit in the SETUP message, the H.323 [3] Terminal shall send the SETUP message to the Originating Network and the H.323 [3] Terminal shall start timer T.302 (the value of timer T302 is specified in the EN 300 403-1 [11]).</p> <p>If the Originating Network determines that additional information is required to establish a call a SETUP ACKNOWLEDGE message is returned as the response to the SETUP message.</p>	

HI__AU__10	<b>ISDN ref. to:</b> Q.931 [5], § 5.3.3 Q.699 [23], § 3.1.1	<b>PBN ref. to:</b> H.246 annex C [10] § C.6.1 H.225.0 [4], annex B § B.6 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.1, § B.1.3.2, § 5.1.5.1
<b>TSS reference:</b>	H.323 [3]-ISDN/Basic_call/Successful/3,1 kHz audio	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	<p>Ensure that the call establishment and the call clearing procedure is performed correctly when the <u>calling user</u> clears after answering with a RELEASE COMPLETE message indicating the cause value # 16 "normal call clearing".</p> <p>The called user shall receive a DISCONNECT message indicating the cause value # 16 "normal call clearing" with the progress indicator #8 or a Progress message with the progress indicator #8.</p> <p>Ensure that in the Call Delivered call state U4 the transfer of tone or announcement on the media channel is performed correctly.</p> <p>The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.</p>	
<b>Parameter values:</b>	BC=3,1 kHz audio, no HLC	
<b>Comments:</b>		

HI__AU__11	<b>ISDN ref. to:</b> Q.931 [5], § 5.3.3 Q.699 [23], § 3.1.1	<b>PBN ref. to:</b> H.246 annex C [10] § C.6.1 H.225.0 [4], § B.6 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.1, § B.1.3.2, § 5.1.5.1
<b>TSS reference:</b>	H.323 [3]-ISDN/Basic_call/Successful/3,1 kHz audio	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	<p>Ensure that the call establishment and the call clearing procedure is performed correctly when the <u>calling user</u> clears after answering with a RELEASE COMPLETE message indicating the ReleaseCompleteReason facilityCallDeflection.</p> <p>The called user shall receive a DISCONNECT message indicating the cause value # 16 "normal call clearing" with the progress indicator #8 or a Progress message with the progress indicator #8.</p> <p>Ensure that in the Call Delivered call state U4 the transfer of tone or announcement on the media channel is performed correctly.</p> <p>The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.</p>	
<b>Parameter values:</b>	BC=3,1 kHz audio, no HLC	
<b>Comments:</b>		

HI__AU__12	<b>ISDN ref. to:</b> Q.931 [5], § 5.3.3 Q.699 [23], § 3.1.1	<b>PBN ref. to:</b> H.246 annex C [10] § C.6.1 H.225.0 [4], § B.6 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.1, § B.1.3.2, § 5.1.5.1
<b>TSS reference:</b>	H.323 [3]-ISDN/Basic_call/Successful/3,1 kHz audio	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	<p>Ensure that the call clearing procedure is performed correctly when the <u>called user</u> clears after answering with a DISCONNECT message indicating the cause value # 16 "normal call clearing".</p> <p>The calling user shall receive a RELEASE COMPLETE with the cause value # 16 "normal call clearing" or ReleaseCompleteReason facilityCallDeflection.</p> <p>The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.</p>	
<b>ISDN Parameter values:</b>	BC=3,1 kHz audio, no HLC	
<b>H.323 [3] Parameter values:</b>	BC=3,1 kHz audio, no HLC Setup-UUIE ::= SEQUENCE fastStart SEQUENCE OF OCTET STRING, canOverlapSend TRUE	
<b>Comments:</b>	Call release In-band Information At the reception of a PROGRESS message with both the Progress indicator information element and the Cause information element included the H.323 [3] Terminal shall start timer a supervision timer. NOTE: The value of the supervision timer is an implementation issue but it should be long enough to listen to recorded announcements etc. If the supervision timer the call shall be cleared with a RELEASE COMPLETE message towards the Originating Network. The releaseCompleteReason shall indicate normal call clearing.	

Values for test purposes IH__AU__01 and IH__AU__12	
VA_01	g711Alaw64k
VA_02	g711Alaw56k
VA_03	g711Ulaw64k
VA_04	g711Ulaw56k

## 6.9 Test purposes for H.323-ISDN, Basic call, UDI

HI__UD__01	<b>ISDN ref. to:</b> Q.931 [5], § 5.2 Q.699 [23], § 3.1.1	<b>PBN ref. to:</b> H.246 annex C [10] § C.6.1 H.225.0 [4], § B.6 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.1, § B.1.3.2, § 5.1.5.1
<b>TSS reference:</b>	H.323 [3]-ISDN/Basic_call/Successful/UDI	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that call establishment using <u>en-bloc</u> sending is performed correctly when the H.323 [3] Terminal includes the Sending complete information element in the SETUP message with the fastStart sequence. Ensure that in the active call state (N10) the data transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters).	
<b>ISDN Parameter values:</b>	BC=UDI, no HLC	
<b>H.323 [3] Parameter values:</b>	BC=UDI, no HLC  Setup-UUIE ::= SEQUENCE fastStart SEQUENCE OF OCTET STRING	
<b>Comments:</b>		

HI__UD__02	<b>ISDN ref. to:</b> Q.931 [5], § 5.2 Q.699 [23], § 3.1.1	<b>PBN ref. to:</b> H.246 annex C [10] § C.6.1 H.225.0 [4], § B.6 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.1, § B.1.3.2, § 5.1.5.1
<b>TSS reference:</b>	H.323 [3]-ISDN/Basic_call/Successful/UDI	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that call establishment using <u>en-bloc</u> sending is performed correctly when the H.323 [3] terminal includes the canOverlapSend parameter with the value FALSE and the fastStart sequence in the SETUP message. Ensure that in the active call state (N10) the data transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters).	
<b>ISDN Parameter values:</b>	BC=UDI, no HLC	
<b>H.323 [3] Parameter values:</b>	BC=UDI, no HLC Setup-UUIE ::= SEQUENCE fastStart SEQUENCE OF OCTET STRING, canOverlapSend FALSE	
<b>Comments:</b>		

HI__UD__03	<b>ISDN ref. to:</b> Q.931 [5], § 5.2 Q.699 [23], § 3.1.1	<b>PBN ref. to:</b> H.246 annex C [10] § C.6.1 H.225.0 [4], § B.6 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.1, § B.1.3.2, § 5.1.5.1
<b>TSS reference:</b>	H.323 [3]-ISDN/Basic_call/Successful/UDI	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that call establishment using <u>en-bloc</u> sending is performed correctly when the H.323 [3] Terminal includes a "#" character as the last digit in the Called Party number information element and the fastStart sequence in the SETUP message. Ensure that in the active call state (N10) the data transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters).	
<b>ISDN Parameter values:</b>	BC=UDI, no HLC	
<b>H.323 [3] Parameter values:</b>	BC=UDI, no HLC	
<b>Comments:</b>		

HI__UD__04	<b>ISDN ref. to:</b> Q.931 [5], § 5.2 Q.699 [23], § 3.1.1	<b>PBN ref. to:</b> H.246 annex C [10] § C.6.1 H.225.0 [4], § B.6 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.1, § B.1.3.2, § 5.1.5.1
<b>TSS reference:</b>	H.323 [3]-ISDN/Basic_call/Successful/UDI	
<b>Selection criteria:</b>	ISDN, point to multipoint	
<b>Test purpose:</b>	Ensure that the calling interface using <u>en-bloc sending</u> in the Call Initiated call state U1, on receipt of a CALL PROCEEDING message, enters the Outgoing Call Proceeding state U3, on receipt of a ALERTING message, from the called endpoint, the calling interface sends the ALERTING message and enters the Call Delivered call state U4. On receipt of a CONNECT message from the called endpoint, the calling interface sends an CONNECT message and enters the Active call state U10. Ensure that in the active call state (N10) the data transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters).	
<b>ISDN Parameter values:</b>	BC=UDI, no HLC	
<b>H.323 [3] Parameter values:</b>	BC=UDI, no HLC Setup-UUIE ::= SEQUENCE fastStart SEQUENCE OF OCTET STRING, canOverlapSend False	
<b>Comments:</b>		

HI__UD__05	<b>ISDN ref. to:</b> Q.931 [5], § 5.2 Q.699 [23], § 3.1.1	<b>PBN ref. to:</b> H.246 annex C [10] § C.6.1 H.225.0 [4], § B.6 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.1, § B.1.3.2, § 5.1.5.1
<b>TSS reference:</b>	H.323 [3]-ISDN/Basic_call/Successful/UDI	
<b>Selection criteria:</b>	ISDN, point to multipoint	
<b>Test purpose:</b>	Ensure that the calling interface using <u>en-bloc sending</u> on receipt of a CALL PROCEEDING message, enters the Outgoing Call Proceeding state U3 and on receipt of a CONNECT message from the called endpoint, the calling interface sends a CONNECT message and enters the Active call state U10. Ensure that in the active call state (N10) the data transfer on the media and B-channels are performed correctly.	
<b>ISDN Parameter values:</b>	BC=UDI, no HLC	
<b>H.323 [3] Parameter values:</b>	BC=UDI, no HLC Setup-UUIE ::= SEQUENCE fastStart SEQUENCE OF OCTET STRING, canOverlapSend False	
<b>Comments:</b>		

HI__UD__06	<b>ISDN ref. to:</b> Q.931 [5], § 5.2 Q.699 [23], § 3.1.1	<b>PBN ref. to:</b> H.246 annex C [10] § C.6.1 H.225.0 [4], § B.6 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.1, § B.1.3.2, § 5.1.5.1
<b>TSS reference:</b>	H.323 [3]-ISDN/Basic_call/Successful/UDI	
<b>Selection criteria:</b>	ISDN point-point configuration, overlap sending	
<b>Test purpose:</b>	Ensure that call establishment <u>using overlap sending</u> is performed correctly. Ensure that in the Overlap Sending State U2, on receipt of a ALERTING message, from the called endpoint, the calling interface sends the ALERTING message and enters the Call Delivered call state U4. On receipt of a CONNECT message from the called endpoint, the calling interface sends a CONNECT message and enters the Active call state U10. Ensure that in the active call state (N10) the data transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters).	
<b>ISDN Parameter values:</b>	BC=UDI, no HLC	
<b>H.323 [3] Parameter values:</b>	BC=UDI, no HLC Setup-UUIE ::= SEQUENCE fastStart SEQUENCE OF OCTET STRING, canOverlapSend TRUE	
<b>Comments:</b>		

HI__UD__07	<b>ISDN ref. to:</b> Q.931 [5], § 5.2 Q.699 [23], § 3.1.1	<b>PBN ref. to:</b> H.246 annex C [10] § C.6.1 H.225.0 [4], § B.6 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.1, § B.1.3.2, § 5.1.5.1
<b>TSS reference:</b>	H.323 [3]-ISDN/Basic_call/Successful/UDI	
<b>Selection criteria:</b>	ISDN point-point configuration, overlap sending	
<b>Test purpose:</b>	Ensure that call establishment <u>using overlap sending</u> is performed correctly. Ensure that in the Overlap Sending State U2, on receipt of a CONNECT message, from the called endpoint, the calling interface sends the CONNECT message and enters the Active call state U10. Ensure that in the active call state (N10) the data transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters).	
<b>ISDN Parameter values:</b>	BC=UDI, no HLC	
<b>H.323 [3] Parameter values:</b>	BC=UDI, no HLC Setup-UUIE ::= SEQUENCE fastStart SEQUENCE OF OCTET STRING, canOverlapSend TRUE	
<b>Comments:</b>		

HI__UD__08	<b>ISDN ref. to:</b> Q.931 [5], § 5.2 Q.699 [23], § 3.1.1	<b>PBN ref. to:</b> H.246 annex C [10] § C.6.1 H.225.0 [4], § B.6 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.1, § B.1.3.2, § 5.1.5.1
<b>TSS reference:</b>	H.323 [3]-ISDN/Basic_call/Successful/UDI	
<b>Selection criteria:</b>	ISDN point-point configuration, overlap sending	
<b>Test purpose:</b>	<p>Ensure that the call establishment using <u>overlap sending</u> is performed correctly</p> <p>Ensure that in the Overlap Sending State U2, on receipt of a CALL PROCEEDING message, from the called endpoint, the calling interface sends the CALL PROCEEDING message and enters the Outgoing Call Proceeding call state U3.</p> <p>On receipt of a ALERTING message, from the called endpoint, the calling interface sends an ALERTING message and enters the call delivered state (U4). On receipt of a CONNECT message from the called endpoint, the calling interface sends a CONNECT message and enters the Active call state U10.</p> <p>Ensure that in the active call state (U10) the data transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters).</p>	
<b>ISDN Parameter values:</b>	BC=UDI, no HLC	
<b>H.323 [3] Parameter values:</b>	BC=UDI, no HLC fastStart SEQUENCE OF OCTET STRING, canOverlapSend TRUE	
<b>Comments:</b>	<p>The H.323 [3] Terminal shall include the parameter canOverlapSend set to TRUE, the H.323 [3] Terminal shall include the Called Party number including with at least one digit in the SETUP message, the H.323 [3] Terminal shall send the SETUP message to the Originating Network and the H.323 [3] Terminal shall start timer T.302 (the value of timer T302 is specified in the EN 300 403-1 [11]).</p> <p>If the Originating Network determines that additional information is required to establish a call a SETUP ACKNOWLEDGE message is returned as the response to the SETUP message.</p>	

HI__UD__09	<b>ISDN ref. to:</b> Q.931 [5], § 5.2 Q.699 [23], § 3.1.1	<b>PBN ref. to:</b> H.246 annex C [10] § C.6.1 H.225.0 [4], § B.6 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.1, § B.1.3.2, § 5.1.5.1
<b>TSS reference:</b>	H.323 [3]-ISDN/Basic_call/Successful/UDI	
<b>Selection criteria:</b>	ISDN point-point configuration, overlap sending	
<b>Test purpose:</b>	<p>Ensure that call establishment using <u>overlap sending</u> is performed correctly</p> <p>Ensure that in the Overlap Sending State U2, on receipt of a CALL PROCEEDING message, from the called endpoint, the calling interface sends the CALL PROCEEDING message and enters the Outgoing Call Proceeding call state U3. On receipt of a CONNECT message from the called endpoint, the calling interface sends a CONNECT message and enters the Active call state U10.</p> <p>Ensure that in the active call state (N10) the data transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters).</p>	
<b>ISDN Parameter values:</b>	BC=UDI, no HLC	
<b>H.323 [3] Parameter values:</b>	BC=UDI, no HLC Setup-UUIE ::= SEQUENCE fastStart SEQUENCE OF OCTET STRING, canOverlapSend TRUE	
<b>Comments:</b>	<p>The H.323 [3] Terminal shall include the parameter canOverlapSend set to TRUE, the H.323 [3] Terminal shall include the Called Party number including with at least one digit in the SETUP message, the H.323 [3] Terminal shall send the SETUP message to the Originating Network and the H.323 [3] Terminal shall start timer T.302 (the value of timer T302 is specified in the EN 300 403-1 [11]).</p> <p>If the Originating Network determines that additional information is required to establish a call a SETUP ACKNOWLEDGE message is returned as the response to the SETUP message.</p>	



HI__UD__10	<b>ISDN ref. to:</b> Q.931 [5], § 5.3.3 Q.699 [23], § 3.1.1	<b>PBN ref. to:</b> H.246 annex C [10] § C.6.1 H.225.0 [4], § B.6 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.1, § B.1.3.2, § 5.1.5.1
<b>TSS reference:</b>	H.323 [3]-ISDN/Basic_call/Successful/UDI	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that the call establishment and the call clearing procedure is performed correctly when the <u>calling user</u> clears after answering with a RELEASE COMPLETE message indicating the cause value # 16 "normal call clearing". The called user shall receive a DISCONNECT message indicating the cause value # 16 "normal call clearing"	
<b>ISDN Parameter values:</b>	BC=UDI, no HLC	
<b>H.323 [3] Parameter values:</b>	BC=UDI, no HLC Setup-UUIE ::= SEQUENCE fastStart SEQUENCE OF OCTET STRING, canOverlapSend False	
<b>Comments:</b>		

HI__UD__11	<b>ISDN ref. to:</b> Q.931 [5], § 5.3.3 Q.699 [23], § 3.1.1	<b>PBN ref. to:</b> H.246 annex C [10] § C.6.1 H.225.0 [4], § B.6 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.1, § B.1.3.2, § 5.1.5.1
<b>TSS reference:</b>	H.323 [3]-ISDN/Basic_call/Successful/UDI	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that the call establishment and the call clearing procedure is performed correctly when the <u>calling user</u> clears after answering with a RELEASE COMPLETE message indicating ReleaseCompleteReason facilityCallDeflection. The called user shall receive a DISCONNECT message indicating the cause value # 16 "normal call clearing"	
<b>ISDN Parameter values:</b>	BC=UDI, no HLC	
<b>H.323 [3] Parameter values:</b>	BC=UDI, no HLC Setup-UUIE ::= SEQUENCE fastStart SEQUENCE OF OCTET STRING, canOverlapSend False	
<b>Comments:</b>		

HI__UD__12	<b>ISDN ref. to:</b> Q.931 [5], § 5.3.3 Q.699 [23], § 3.1.1	<b>PBN ref. to:</b> H.246 annex C [10] § C.6.1 H.225.0 [4], § B.6 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.1, § B.1.3.2, § 5.1.5.1
<b>TSS reference:</b>	H.323 [3]-ISDN/Basic_call/Successful/UDI	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that the call clearing procedure is performed correctly when the <b>called user</b> clears after answering with a DISCONNECT message indicating the cause value # 16 "normal call clearing". The calling user shall receive a RELEASE COMPLETE with the cause value # 16 "normal call clearing" or ReleaseCompleteReason facilityCallDeflection.	
<b>ISDN Parameter values:</b>	BC=UDI, no HLC	
<b>H.323 [3] Parameter values:</b>	BC=UDI, no HLC Setup-UUIE ::= SEQUENCE fastStart SEQUENCE OF OCTET STRING, canOverlapSend False	
<b>Comments:</b>	Call release In-band Information At the reception of a PROGRESS message with both the Progress indicator information element and the Cause information element included the H.323 [3] Terminal shall start timer a supervision timer. NOTE: The value of the supervision timer is an implementation issue but it should be long enough to listen to recorded announcements etc. If the supervision timer the call shall be cleared with a RELEASE COMPLETE message towards the Originating Network. The releaseCompleteReason shall indicate normal call clearing.	

## 6.10 Test purposes for H.323-ISDN, Basic call, Unsuccessful

<b>Unsuccessful</b>	

HI__xx_U01	<b>ISDN ref. to:</b> Q.931 [5], § 5.1.4	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.8 H.246 annex C [10] § C.6.1
<b>TSS reference:</b>	H.323 [3]-ISDN/Basic_call/Unsuccessful	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that, when calling to unallocated number, the network initiate call clearing to the calling user with a RELEASE COMPLETE message indicating cause value # 1 "unassigned number" or the ReleaseCompleteReason code badFormatAddress.	
<b>Parameter values:</b>	BC=PIXIT	
<b>Comments:</b>		

HI__xx_U02	<b>ISDN ref. to:</b> Q.931 [5], § 5.1.4	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.8 H.246 annex C [10] § C.6.1
<b>TSS reference:</b>	H.323 [3]-ISDN/Basic_call/Unsuccessful	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that the call will be released when there is no route to destination. The network initiates call clearing to the calling user with a RELEASE COMPLETE message indicating cause value # 3 "no route to destination" or the ReleaseCompleteReason code unreachableDestination.	
<b>Parameter values:</b>	BC=PIXIT	
<b>Comments:</b>	In some networks tones or announcement can be generated in the destination exchange (or intermediate exchange) during call establishment. In-band Information At the reception of a PROGRESS message with both the Progress indicator information element and the Cause information element included the H.323 [3] Terminal shall start timer a supervision timer. NOTE: The value of the supervision timer is an implementation issue but it should be long enough to listen to recorded announcements etc. If the supervision timer the call shall be cleared with a RELEASE COMPLETE message towards the Originating Network. The releaseCompleteReason shall indicate normal call clearing.	

HI__xx_U03	<b>ISDN ref. to:</b> Q.931 [5], § 5.2.5.1	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.8 H.246 annex C [10] § C.6.1
<b>TSS reference:</b>	H.323 [3]-ISDN/Basic_call/Unsuccessful	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that, when the called user is busy the network initiate call clearing to the calling user with a RELEASE COMPLETE message indicating cause value # 17 "user busy".	
<b>Parameter values:</b>	BC=PIXIT	
<b>Comments:</b>		

HI__xx_U04	<b>ISDN ref. to:</b> Q.931 [5], § 5.2.5.4	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.8
<b>TSS reference:</b>	H.323 [3]-ISDN/Basic_call/Unsuccessful	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that when there is no answer from the called user (but user alerted), the network initiate call clearing to the calling user with a RELEASE COMPLETE message indicating cause value # 19 "no answer from user (user alerted)" and send a DISCONNECT message indicating cause value # 102 "recovery on timer expiry" to the called user .	
<b>Parameter values:</b>	BC=PIXIT	
<b>Comments:</b>		

HI__xx_U05	<b>ISDN ref. to:</b> Q.931 [5], § 5.1.9, 5.3.2	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.8 H.246 annex C [10] § C.6.1
<b>TSS reference:</b>	H.323 [3]-ISDN/Basic_call/Unsuccessful	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that when the called user rejects the call and responds with a RELEASE COMPLETE message indicating cause value # 21 "call rejected", the call will be released. The network initiates call clearing to the calling user with a RELEASE COMPLETE message indicating cause value # 21 "call rejected".	
<b>Parameter values:</b>	BC=PIXIT	
<b>Comments:</b>		

HI__xx_U06	<b>ISDN ref. to:</b> Q.931 [5], § 5.1.9, 5.3.2	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.8 H.246 annex C [10] § C.6.1
<b>TSS reference:</b>	H.323 [3]-ISDN/Basic_call/Unsuccessful	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that the call will be released when the called number is incomplete. The network initiates call clearing to the calling user with a RELEASE COMPLETE message with a cause such as one of the following: # 1 "Unassigned (unallocated) number", # 3 "No route to destination", # 22 "Number changed" or # 28 - "Invalid number format (incomplete number)" or the appropriate ReleaseCompleteReason codes unreachableDestination, badFormatAddress.	
<b>Parameter values:</b>	BC=PIXIT	
<b>Comments:</b>	In some networks tones or announcement can be generated in the destination exchange (or intermediate exchange) during call establishment. 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	

HI__xx_U08	<b>ISDN ref. to:</b> Q.931 [5], § 5.2.2	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.8 H.246 annex C [10] § C.6.1
<b>TSS reference:</b>	H.323 [3]-ISDN/Basic_call/Unsuccessful	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that when the called user is not compatible and responds with a RELEASE COMPLETE message indicating cause value # 88 "incompatible destination", the call will be released. The network initiates call clearing to the calling user with a RELEASE COMPLETE message indicating cause value # 88 "incompatible destination"	
<b>Parameter values:</b>	BC=PIXIT	
<b>Comments:</b>		

HI__xx_U09	<b>ISDN ref. to:</b> Q.931 [5]	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.8 H.246 annex C [10] § C.6.1
<b>TSS reference:</b>	H.323 [3]-ISDN/Basic_call/Unsuccessful	
<b>Selection criteria:</b>	Multipoint configuration for the called side	
<b>Test purpose:</b>	Ensure that when the calling user clears with cause value # 16 "normal call clearing" before answer from called user, the network transport the cause value to the called user	
<b>Parameter values:</b>	BC=PIXIT	
<b>Comments:</b>		

## 6.11 Test purposes for H.323- ISDN Supplementary services

HI__xxSSCLIP01	<b>ISDN ref. to:</b> ETS 300 092-1 [15], § 9.3; Q.931 [5], § 4.5.10, § 4.5.11	<b>PBN ref. to:</b> H.246 annex C [10] § C.6.2.1
<b>TSS reference:</b>	H.323 [3] -ISDN/Supplementary_services/CLIP	
<b>Selection criteria:</b>	The called user is provided with CLIP	
<b>Test purpose:</b>	Ensure that when Calling party number is provided by the calling user and when the Type of number is defined as: TYPE OF NUMBER, the Calling party number information elements is correctly delivered to the called (served) user.	
<b>Parameter values:</b>	BC= PIXIT	
<b>Comments:</b>		

HI__xxSSCLIP02	<b>ISDN ref. to:</b> ETS 300 092-1 [15], § 9.3 Q.931 [5], § 4.5.10, § 4.5.11	<b>PBN ref. to:</b> H.246 annex C [10] § C.6.2.1
<b>TSS reference:</b>	H.323 [3] -ISDN /Supplementary_services/CLIP	
<b>Selection criteria:</b>	The called user is provided with CLIP	
<b>Test purpose:</b>	Ensure that when Calling party number is provided by the calling user and when the Type of number is defined as: TYPE OF NUMBER, with Calling party subaddress, the Calling party number and Calling party subaddress information elements are correctly delivered to the called (served) user.	
<b>Parameter values:</b>	BC=PIXIT	
<b>Comments:</b>		

Values for the test purpose HI__xxSSCLIP01, HI__xxSSCLIP02	
	TON
VA_01	subscriber number
VA_02	national number
VA_03	international number

HI__xxSSCLIP03	<b>ISDN ref. to:</b> ETS 300 092-1 [15], § 9.3	<b>PBN ref. to:</b> H.246 annex C [10] § C.6.2.1
<b>TSS reference:</b>	H.323 [3]-ISDN /Supplementary_services/CLIP	
<b>Selection criteria:</b>	The called user is provided with CLIP	
<b>Test purpose:</b>	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 network provided and correctly delivered to the called (served) user.	
<b>Parameter values:</b>	BC=PIXIT	
<b>Comments:</b>		

HI__xxSSCLIP04	<b>ISDN ref. to:</b> ETS 300 092-1 [15]	<b>PBN ref. to:</b> H.246 annex C [10] § C.7.2.3
<b>TSS reference:</b>	H.323 [3]-ISDN/Supplementary_services/CLIP	
<b>Selection criteria:</b>	The called user is provided with CLIP Special arrangement applies	
<b>Test purpose:</b>	Ensure that when a <b>special arrangement applies</b> and a Calling party number information element and a valid calling number is provided by the calling user or sourceAddress, 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 as Calling party number	
<b>Parameter values:</b>	BC=PIXIT	
<b>Comments:</b>		

IH__xxSSCLIP05	<b>ISDN ref. to:</b> ETS 300 092-1 [15]	<b>PBN ref. to:</b> H.246 annex C [10] § C.7.2.3
<b>TSS reference:</b>	ISDN-H.323 [3]/Supplementary_services/CLIP	
<b>Selection criteria:</b>	The called user is provided with CLIP Special arrangement applies	
<b>Test purpose:</b>	Ensure that when a <b>special arrangement applies</b> and no Calling party number information element is provided by the calling user or sourceAddress, 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" is delivered to the called (served) user as Calling party number	
<b>Parameter values:</b>	BC= PIXIT	
<b>Comments:</b>		

HI__xxSSCLIR01	<b>ISDN ref. to:</b> ETS 300 093-1 [16], § 9.4.1 ETS 300 092-1/Amendment 2 [21] Figure 2	<b>PBN ref. to:</b> H.246 annex C [10] § C.6.2.1
<b>TSS reference:</b>	ISDN-H.323 [3]/Supplementary_services/CLIR	
<b>Selection criteria:</b>	The calling user is provided with CLIR permanent mode subscription, the called user with CLIP	
<b>Test purpose:</b>	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.	
<b>Parameter values:</b>	BC=PIXIT	
<b>Comments:</b>		

HI__xxSSCLIR02	<b>ISDN ref. to:</b> ETS 300 093-1 [16], § 9.4.1 ETS 300 092-1/Amendment 2 [21] Figure 2	<b>PBN ref. to:</b> H.246 annex C [10] § C.6.2.1
<b>TSS reference:</b>	ISDN-H.323 [3]/Supplementary_services/CLIR	
<b>Selection criteria:</b>	The calling user is provided with CLIR permanent mode subscription, the called user with CLIP	
<b>Test purpose:</b>	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 and delivered to the called user without any digit information.	
<b>Parameter values:</b>	BC=PIXIT	
<b>Comments:</b>		

## COLP

HI__xxSSCOLP01	<b>ISDN ref. to:</b> ETS 300 097-1 [17], § 9.5.1	<b>PBN ref. to:</b> H.246 annex C [10] § C.6.2.3
<b>TSS reference:</b>	ISDN-H.323 [3]/Supplementary_services/COLP	
<b>Selection criteria:</b>	The calling user is provided with COLP	
<b>Test purpose:</b>	Ensure that when the Connected number is provided by the called user and the Type of number is defined as "TYPE OF NUMBER", the Connected number information elements is correctly delivered to the calling (served) user.	
<b>Parameter values:</b>	BC=PIXIT	
<b>Comments:</b>		

HI__xxSSCOLP02	<b>ISDN ref. to:</b> ETS 300 097-1 [17], § 9.5.1	<b>PBN ref. to:</b> H.246 annex C [10] § C.6.2.3
<b>TSS reference:</b>	ISDN-H.323 [3]/Supplementary_services/COLP/210302	
<b>Selection criteria:</b>	The calling user is provided with COLP	
<b>Test purpose:</b>	Ensure that when the Connected number is provided by the called user and the Type of number is defined as "TYPE OF NUMBER", with Connected subaddress, the Connected number and Connected subaddress information elements are correctly delivered to the calling (served) user.	
<b>Parameter values:</b>	BC=PIXIT,	
<b>Comments:</b>		

Values for the test purpose HI__xxSSCOLP01, HI__xxSSCOLP02	
	TON
VA_01	subscriber number
VA_02	national number
VA_03	international number

HI__xxSSCOLP03	<b>ISDN ref. to:</b> ETS 300 097-1 [17], § 9.5.1	<b>PBN ref. to:</b> H.246 annex C [10] § C.6.2.3
<b>TSS reference:</b>	ISDN-H.323 [3]/Supplementary_services/COLP/210305	
<b>Selection criteria:</b>	Calling user is provided with COLP	
<b>Test purpose:</b>	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.	
<b>Parameter values:</b>	BC=PIXIT	
<b>Comments:</b>		

HI__xxSSCOLP04	<b>ISDN ref. to:</b> ETS 300 097-1 [17], § 9.5.1	<b>PBN ref. to:</b> H.246 annex C [10] § C.6.2.3
<b>TSS reference:</b>	ISDN-H.323 [3]/Supplementary_services/COLP/210306	
<b>Selection criteria:</b>	Calling user is provided with COLP	
<b>Test purpose:</b>	Ensure that when an <b>incorrect</b> 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.	
<b>Parameter values:</b>	BC=PIXIT	
<b>Comments:</b>		

## COLR

HI__xxSSCOLR01	<b>ISDN ref. to:</b> ETS 300 098-1 [18], § 9.3.1, § 9.4.1 ETS 300 097-1/Amendment 1 [21] Figure 4	<b>PBN ref. to:</b> H.246 annex C [10] § C.6.2.4
<b>TSS reference:</b>	ISDN-H.323 [3]/Supplementary_services/COLR	
<b>Selection criteria:</b>	The called (served) user is provided with COLR permanent mode subscription, the calling user with COLP	
<b>Test purpose:</b>	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	
<b>Parameter values:</b>	BC=PIXIT	
<b>Comments:</b>		

HI__xxSSCOLR02	<b>ISDN ref. to:</b> ETS 300 098-1 [18], § 9.3.1, § 9.4.1 ETS 300 097-1/Amendment 1 [22] Figure 4	<b>PBN ref. to:</b> H.246 annex C [10] § C.6.2.4
<b>TSS reference:</b>	ISDN-H.323 [3]/Supplementary_services /COLR	
<b>Selection criteria:</b>	The called (served) user is provided with COLR permanent mode subscription, the calling user with COLP	
<b>Test purpose:</b>	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.	
<b>Parameter values:</b>	BC=PIXIT	
<b>Comments:</b>		

HI__xxSSCOLR03	<b>ISDN ref. to:</b> ETS 300 098-1 [18], § 9.3.1, § 9.4.1 ETS 300 097-1/Amendment 1 [22] Figure 4	<b>PBN ref. to:</b> H.246 annex C [10] § C.6.2.4
<b>TSS reference:</b>	ISDN-H.323 [3]/Supplementary_services /COLR	
<b>Selection criteria:</b>	The called (served) user is provided with COLR permanent mode subscription, the calling user with COLP	
<b>Test purpose:</b>	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 user.	
<b>Parameter values:</b>	BC=PIXIT	
<b>Comments:</b>		

## 6.12 Test purposes for H.323-PSTN, Basic call, Successful - Speech

<h1>Successful Speech</h1>
--------------------------------

HP__SP__01		<b>PBN ref. to:</b> H.246 annex C [10] § C.6.1 H.225.0 [4], § B.6 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.1, § B.1.3.2, § 5.1.5.1
<b>TSS reference:</b>	H.323 [3]-PSTN/Basic_call/Successful/Speech	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	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", #2 "destination address is non-ISDN" or #8 "In-band information or appropriate pattern now available". The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.	
<b>Parameter values:</b>	BC=speech, no HLC	
<b>Comments:</b>		

HP__SP__02		<b>PBN ref. to:</b> H.246 annex C [10] § C.6.1 H.225.0 [4], § B.6 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.1, § B.1.3.2, § 5.1.5.1
<b>TSS reference:</b>	H.323 [3]-PSTN/Basic_call/Successful/Speech	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that the call establishment using overlap sending is performed correctly (e.g. testing QoS parameters). 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", #2 "destination address is non-ISDN" or #8 "In-band information or appropriate pattern now available". The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.	
<b>Parameter values:</b>	BC=speech, no HLC	
<b>Comments:</b>		



HP__SP__03		<b>PBN ref. to:</b> H.246 annex C [10] § C.6.1 H.225.0 [4], § B.6 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.1, § B.1.3.2, § 5.1.5.1
<b>TSS reference:</b>	H.323 [3]-PSTN/Basic_call/Successful/Speech	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that the clearing procedure is performed correctly when the calling user clears after answer. The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.	
<b>Parameter values:</b>	BC=speech, no HLC	
<b>Comments:</b>		

HP__SP__04		<b>PBN ref. to:</b> H.246 annex C [10] § C.6.1 H.225.0 [4], § B.6 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.1, § B.1.3.2, § 5.1.5.1
<b>TSS reference:</b>	H.323 [3]-PSTN/Basic_call/Successful/Speech	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that the clearing procedure is performed correctly when the called user clears after answer. The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.	
<b>Parameter values:</b>	BC=speech, no HLC	
<b>Comments:</b>		

HP__SP__05		<b>PBN ref. to:</b> H.246 annex C [10] § C.6.1 H.225.0 [4], § B.6 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.1, § B.1.3.2, § 5.1.5.1
<b>TSS reference:</b>	H.323 [3]-PSTN/Basic_call/Successful/Speech	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that the reanswer procedure is performed correctly when the called user clears and reanswers. The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.	
<b>Parameter values:</b>	BC=speech, no HLC	
<b>Comments:</b>		

Values for test purposes HP__SP__01 and HP__SP__05	
VA_01	g711Alaw64k
VA_02	g711Alaw56k
VA_03	g711Ulaw64k
VA_04	g711Ulaw56k
VA_05	g722-64k
VA_06	g722-56k
VA_07	g722-48k
VA_08	g7231
VA_09	g728
VA_10	g729
VA_11	g729annexA
VA_12	is11172AudioCapability
VA_13	is13818AudioCapability
VA_14	g729wannexB
VA_15	g7231annexCCapability
VA_16	gsmFullRate GSMAudioCapability
VA_17	gsmHalfRate GSMAudioCapability
VA_18	gsmEnhancedFullRate GSMAudioCapability
VA_19	genericAudioCapability GenericCapability

## 6.13 Test purposes for H.323-PSTN, Basic call, Successful - 3,1 kHz audio

# Successful

## 3,1 kHz audio

HP__AU__01		<b>PBN ref. to:</b> H.246 annex C [10] § C.6.1 H.225.0 [4], § B.6 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.1, § B.1.3.2, § 5.1.5.1
<b>TSS reference:</b>	H.323 [3]-PSTN/Basic_call/Successful	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	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", #2 "destination address is non-ISDN" or #8 "In-band information or appropriate pattern now available". The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.	
<b>Parameter values:</b>	BC=3,1 kHz audio	
<b>Comments:</b>		

HP__AU__02		<b>PBN ref. to:</b> H.246 annex C [10] § C.6.1 H.225.0 [4], § B.6 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.1, § B.1.3.2, § 5.1.5.1
<b>TSS reference:</b>	H.323 [3]-PSTN/Basic_call/Successful	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	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", #2 "destination address is non-ISDN" or #8 "In-band information or appropriate pattern now available". The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.	
<b>Parameter values:</b>	BC=3,1 kHz audio	
<b>Comments:</b>		

HP__AU__03		<b>PBN ref. to:</b> H.246 annex C [10] § C.6.1 H.225.0 [4], § B.6 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.1, § B.1.3.2, § 5.1.5.1
<b>TSS reference:</b>	H.323 [3]-PSTN/Basic_call/Successful/	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that the clearing procedure is performed correctly when the calling user clears after answer. The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.	
<b>Parameter values:</b>	BC=3,1 kHz audio	
<b>Comments:</b>		

HP__SP__04		<b>PBN ref. to:</b> H.246 annex C [10] § C.6.1 H.225.0 [4], § B.6 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.1, § B.1.3.2, § 5.1.5.1
<b>TSS reference:</b>	H.323 [3]-PSTN/Basic_call/Successful	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that the clearing procedure is performed correctly when the called user clears after answer The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.	
<b>Parameter values:</b>	BC=3,1 kHz audio	
<b>Comments:</b>		

Values for test purposes HP__AU__01 and HP__AU__04	
VA_01	g711Alaw64k
VA_02	g711Alaw56k
VA_03	g711Ulaw64k
VA_04	g711Ulaw56k
VA_05	g722-64k
VA_06	g722-56k
VA_07	g722-48k
VA_08	g7231
VA_09	g728
VA_10	g729
VA_11	g729annexA
VA_12	is11172AudioCapability
VA_13	is13818AudioCapability
VA_14	g729wannexB
VA_15	g7231annexCCapability
VA_16	gsmFullRate GSMAudioCapability
VA_17	gsmHalfRate GSMAudioCapability
VA_18	gsmEnhancedFullRate GSMAudioCapability
VA_19	genericAudioCapability GenericCapability

## 6.14 Test purposes for H.323-PSTN, Basic call, Unsuccessful

<b>Unsuccessful</b>	

HP__xx_U01		<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.8 H.246 annex C [10] § C.6.1
<b>TSS reference:</b>	H.323 [3]-PSTN/Basic_call/Unsuccessful	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that when the called PSTN user is busy the network transport the cause value # 17 "user busy" to the calling user.	
<b>Parameter values:</b>	BC=PIXIT	
<b>Comments:</b>		

HP__xx_U02		<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.8 H.246 annex C [10] § C.6.1
<b>TSS reference:</b>	H.323 [3]-PSTN/Basic_call/Unsuccessful	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that when calling to a unallocated PSTN number, the network initiate call clearing to the calling user with cause value # 1 "unassigned number"	
<b>Parameter values:</b>	BC=PIXIT	
<b>Comments:</b>		

HP__xx_U03		<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.8 H.246 annex C [10] § C.6.1
<b>TSS reference:</b>	H.323 [3]-PSTN/Basic_call/Unsuccessful	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	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	
<b>Parameter values:</b>	BC=PIXIT	
<b>Comments:</b>		

HP__xx_U04		<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.8 H.246 annex C [10] § C.6.1
<b>TSS reference:</b>	H.323 [3]-PSTN/Basic_call/Unsuccessful	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that when the calling user clears with the ReleaseCompleteReason destinationRejection before answer from the called PSTN user, the call is cleared	
<b>Parameter values:</b>	BC=PIXIT	
<b>Comments:</b>		

HP__xx_U05		<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.8 H.246 annex C [10] § C.6.1
<b>TSS reference:</b>	H.323 [3]-PSTN/Basic_call/Unsuccessful	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	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)"	
<b>Parameter values:</b>	BC=PIXIT	
<b>Comments:</b>		

## 6.15 Test purposes for PSTN-H.323, Basic call

Successful
PSTN

PH__AU__01		<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.1; § 7.3.10 § 7.3.2 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.7 H.246 annex C [10] § C.7.1
<b>TSS reference:</b>	PSTN-H.323 [3]/Basic_call/Successful	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that call is delivered to the called H.323 [3] user with the Bearer capability information element indicating "3,1 kHz audio". 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" or #3 "origination address is non-ISDN" The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.	
<b>Parameter values:</b>		
<b>Comments:</b>		

PH__AU__02		<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.1; § 7.3.10 § 7.3.2 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.7 H.246 annex C [10] § C.7.1
<b>TSS reference:</b>	PSTN-H.323 [3]/Basic_call/Successful	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that the clearing procedure is performed correctly when the calling user clears the call after answering. The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.	
<b>Parameter values:</b>		
<b>Comments:</b>		

PH__AU__03		<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.1; § 7.3.10 § 7.3.2 TS 101 883 [1] § 5.1, § B.1.3.8, § B.1.3.7 H.246 annex C [10] § C.7.1
<b>TSS reference:</b>	PSTN-H.323 [3]/Basic_call/Successful	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that the clearing procedure is performed correctly when the called ISDN user clears the call after answering. The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.	
<b>Parameter values:</b>		
<b>Comments:</b>		

Values for test purposes PH__AU__01 and PH__AU__03	
VA_01	g711Alaw64k
VA_02	g711Alaw56k
VA_03	g711Ulaw64k
VA_04	g711Ulaw56k
VA_05	g722-64k
VA_06	g722-56k
VA_07	g722-48k
VA_08	g7231
VA_09	g728
VA_10	g729
VA_11	g729annexA
VA_12	is11172AudioCapability
VA_13	is13818AudioCapability
VA_14	g729wannexB
VA_15	g7231annexCCapability
VA_16	gsmFullRate GSMAudioCapability
VA_17	gsmHalfRate GSMAudioCapability
VA_18	gsmEnhancedFullRate GSMAudioCapability
VA_19	genericAudioCapability GenericCapability

## 6.16 Test purposes for PSTN-H.323, Unsuccessful

<p style="font-size: 2em; margin: 0;">Unsuccessful</p> <hr/> <p style="font-size: 2em; margin: 0;">PSTN</p>
---

PH__AU__U01		<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.8 H.246 annex C [10] § C.6.1
<b>TSS reference:</b>	PSTN-H.323 [3]/Basic_call/Unsuccessful	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that when the called H32N user is busy, the calling user receives in-band information that the called user is busy.	
<b>Parameter values:</b>		
<b>Comments:</b>		

PH__AU__U02		<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.8 H.246 annex C [10] § C.6.1
<b>TSS reference:</b>	PSTN-H.323 [3]/Basic_call/Unsuccessful	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that when the calling user clears before answer from the called H.323 [3] user the call is cleared	
<b>Parameter values:</b>		
<b>Comments:</b>		

PH__AU__U03		<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.8 H.246 annex C [10] § C.6.1
<b>TSS reference:</b>	PSTN-H.323 [3]/Basic_call/Unsuccessful/	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that when the called ISDN user is alerted by not answering before timer Q118 expires, the network initiate call clearing.	
<b>Parameter values:</b>		
<b>Comments:</b>		

## 6.17 Test purposes for H.323-H.323 Basic call, Successful

HH__XX__01		<b>PBN ref. to:</b> H.246 annex C [10] § C.6.1 H.225.0 [4], § B.6 TS 101 883 [1] § B.1.3.8, § B.1.3.1, § B.1.3.2
<b>TSS reference:</b>	H.323 [3]-H.323 [3]/Basic_call/Successful	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that call establishment using <u>en-bloc</u> sending is performed correctly when the H.323 [3] Terminal includes the Sending complete information element in the SETUP message including the fastStart field and on receipt of a ALERTING message including the fastStart field, call establishment continues. Ensure that in the active call state (N10) the voice/data transfer on the media performed correctly (e.g. testing QoS parameters). The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.	
<b>H.323 [3] Parameter values:</b>	BC=PIXIT Setup-UUIE ::= SEQUENCE fastStart SEQUENCE OF OCTET STRING	
<b>Comments:</b>		

HH__XX__02		<b>PBN ref. to:</b> H.246 annex C [10] § C.6.1 H.225.0 [4], § B.6 TS 101 883 [1] § B.1.3.8, § B.1.3.1, § B.1.3.2
<b>TSS reference:</b>	H.323 [3]-H.323 [3]/Basic_call/Successful	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that call establishment using <u>en-bloc</u> sending is performed correctly when the H.323 [3] Terminal includes the Sending complete information element in the SETUP message including the fastStart field and on receipt of a CONNECT message including the fastStart field, call establishment continues. Ensure that in the active call state (N10) the voice/data transfer on the media performed correctly (e.g. testing QoS parameters). The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.	
<b>H.323 [3] Parameter values:</b>	BC=PIXIT Setup-UUIE ::= SEQUENCE fastStart SEQUENCE OF OCTET STRING	
<b>Comments:</b>		

HH__XX__03		<b>PBN ref. to:</b> H.246 annex C [10] § C.6.1 H.225.0 [4], § B.6 TS 101 883 [1] § B.1.3.8, § B.1.3.1, § B.1.3.2
<b>TSS reference:</b>	H.323 [3]-H.323 [3]/Basic_call/Successful/	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that call establishment using <u>en-bloc sending</u> is performed correctly when the H.323 [3] Terminal includes the canOverlapSend parameter with the value FALSE in the SETUP message. Ensure that in the active call state (N10) the voice/data transfer on the media channels is performed correctly (e.g. testing QoS parameters). The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.	
<b>H.323 [3] Parameter values:</b>	BC=PIXIT Setup-UUIE ::= SEQUENCE fastStart SEQUENCE OF OCTET STRING, canOverlapSend FALSE	
<b>Comments:</b>		

HH__XX__04		<b>PBN ref. to:</b> H.246 annex C [10] § C.6.1 H.225.0 [4], § B.6 TS 101 883 [1] § B.1.3.8, § B.1.3.1, § B.1.3.2
<b>TSS reference:</b>	H.323 [3]-H.323 [3]/Basic_call/Successful	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that call establishment using en-bloc sending is performed correctly when the H.323 [3] Terminal includes a "#" character as the last digit in the Called Party number information element in the SETUP message. Ensure that in the active call state (N10) the voice/data transfer on the media channels is performed correctly (e.g. testing QoS parameters). The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.	
<b>H.323 [3] Parameter values:</b>	BC=PIXIT Setup-UUIE ::= SEQUENCE fastStart SEQUENCE OF OCTET STRING	
<b>Comments:</b>		

HH__XX__05		<b>PBN ref. to:</b> H.246 annex C [10] § C.6.1 H.225.0 [4], § B.6 TS 101 883 [1] § B.1.3.8, § B.1.3.1, § B.1.3.2
<b>TSS reference:</b>	H.323 [3]-H.323 [3]/Basic_call/Successful	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that the calling interface using en-bloc sending in the Call Initiated call state U1, on receipt of a CALL PROCEEDING message, enters the Outgoing Call Proceeding state, U3, on receipt of a ALERTING message, enters the Call Delivered call state U4 and on receipt of a CONNECT message, enters the Active call state U10. Ensure that in the active call state (N10) the voice/data transfer on the media channels is performed correctly (e.g. testing QoS parameters). The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.	
<b>H.323 [3] Parameter values:</b>	BC=PIXIT Setup-UUIE ::= SEQUENCE fastStart SEQUENCE OF OCTET STRING, canOverlapSend False	
<b>Comments:</b>		

HH__XX__06		<b>PBN ref. to:</b> H.246 annex C [10] § C.6.1 H.225.0 [4], § B.6 TS 101 883 [1] § B.1.3.8, § B.1.3.1, § B.1.3.2
<b>TSS reference:</b>	H.323 [3]-H.323 [3]/Basic_call/Successful	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that the calling interface using en-bloc sending on receipt of a CALL PROCEEDING message, enters the Outgoing Call Proceeding state U3 and on receipt of a CONNECT message, enters the Active call state U10. Ensure that in the active call state (N10) the voice/data transfer on the media channels are performed correctly. The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.	
<b>Parameter values:</b>	BC=PIXIT	
<b>Comments:</b>		



HH__SP__07		<b>PBN ref. to:</b> H.246 annex C [10] § C.6.1 H.225.0 [4], § B.6 TS 101 883 [1] § B.1.3.8, § B.1.3.1, § B.1.3.2
<b>TSS reference:</b>	H.323 [3]-H.323 [3]/Basic_call/Successful/	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	<p>Ensure that call establishment using <u>en-bloc sending</u> is performed correctly when the SETUP message is sent including the fastStart field and on receipt of a CONNECT message including the Fast Connect Refused field, call establishment continues. The H.245 [9] master slave determination should be started.</p> <p>Ensure that in the active call state (N10) the voice/data transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters). The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.</p>	
<b>Parameter values:</b>	BC=PIXIT	
<b>Comments:</b>	This test is not necessary in a TIPHON compliant SUT.	

HH__XX__08		<b>PBN ref. to:</b> H.246 annex C [10] § C.6.1 H.225.0 [4], § B.6 TS 101 883 [1] § B.1.3.8, § B.1.3.1, § B.1.3.2
<b>TSS reference:</b>	H.323 [3]-H.323 [3]/Basic_call/Successful	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	<p>Ensure that call establishment using <u>overlap sending</u> is performed correctly.</p> <p>Ensure that in the Overlap Sending State U2, on receipt of a ALERTING message, from the called endpoint, the calling interface sends the ALERTING message and enters the Call Delivered call state U4.</p> <p>Ensure that in the active call state (N10) the voice/data transfer on the media channels is performed correctly (e.g. testing QoS parameters). The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.</p>	
<b>H.323 [3] Parameter values:</b>	BC=PIXIT Setup-UUIE ::= SEQUENCE fastStart SEQUENCE OF OCTET STRING, canOverlapSend TRUE	
<b>Comments:</b>		

HH__XX__09		<b>PBN ref. to:</b> H.246 annex C [10] § C.6.1 H.225.0 [4], § B.6 TS 101 883 [1] § B.1.3.8, § B.1.3.1, § B.1.3.2
<b>TSS reference:</b>	H.323 [3]-H.323 [3]/Basic_call/Successful	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	<p>Ensure that call establishment using <u>overlap sending</u> is performed correctly.</p> <p>Ensure that in the Overlap Sending State U2, on receipt of a CONNECT message, from the called endpoint, the calling interface sends the CONNECT message and enters the Active call state U10. The transfer of tone/data on the media channel is performed correctly (e.g. testing QoS parameters).</p> <p>Ensure that in the active call state (N10) the voice/data transfer on the media channels is performed correctly (e.g. testing QoS parameters). The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.</p>	
<b>H.323 [3] Parameter values:</b>	BC=PIXIT Setup-UUIE ::= SEQUENCE fastStart SEQUENCE OF OCTET STRING, canOverlapSend TRUE	
<b>Comments:</b>		

HH__XX__10		<b>PBN ref. to:</b> H.246 annex C [10] § C.6.1 H.225.0 [4], § B.6 TS 101 883 [1] § B.1.3.8, § B.1.3.1, § B.1.3.2
<b>TSS reference:</b>	H.323 [3]-H.323 [3]/Basic_call/Successful	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that call establishment using <u>overlap sending</u> is performed correctly Ensure that the SETUP message is sent including the fastStart field and on receipt of a CONNECT message including the Fast Connect Refused field, call establishment continues. The H.245 [9] master slave determination should be started. Ensure that in the active call state (N10) the voice/data transfer on the media and B-channels is performed correctly (e.g. testing QoS parameters). The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.	
<b>H.323 [3] Parameter values:</b>	BC=PIXIT Setup-UUIE ::= SEQUENCE fastStart SEQUENCE OF OCTET STRING, canOverlapSend TRUE	
<b>Comments:</b>	This test is not necessary in a TIPHON compliant SUT.	

HH__XX__11		<b>PBN ref. to:</b> H.246 annex C [10] § C.6.1 H.225.0 [4], § B.6 TS 101 883 [1] § B.1.3.8, § B.1.3.1, § B.1.3.2
<b>TSS reference:</b>	H.323 [3]-H.323 [3]/Basic_call/Successful	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that the call establishment and the call clearing procedure is performed correctly when the <u>calling user</u> clears after answering with a RELEASE COMPLETE message indicating the cause value # 16 "normal call clearing" The called user shall receive a RELEASE COMPLETE message indicating the cause value # 16 "normal call clearing" The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.	
<b>Parameter values:</b>	BC=PIXIT	
<b>Comments:</b>		

HH__XX__12		<b>PBN ref. to:</b> H.246 annex C [10] § C.6.1 H.225.0 [4], § B.6 TS 101 883 [1] § B.1.3.8, § B.1.3.1, § B.1.3.2
<b>TSS reference:</b>	H.323 [3]-H.323 [3]/Basic_call/Successful	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that the call establishment and the call clearing procedure is performed correctly when the <u>calling user</u> clears after answering with a RELEASE COMPLETE message indicating the ReleaseCompleteReason facilityCallDeflection. The called user shall receive a RELEASE COMPLETE message indicating the indicating the ReleaseCompleteReason facilityCallDeflection The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.	
<b>Parameter values:</b>	BC=PIXIT	
<b>Comments:</b>		

HH__XX__13		<b>PBN ref. to:</b> H.246 [10] annex C §C.6.1 H.225.0 [4], § B.6 TS 101 883 [1] § B.1.3.8, § B.1.3.1, § B.1.3.2
<b>TSS reference:</b>	H.323 [3]-H.323 [3]/Basic_call/Successful	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that the call clearing procedure is performed correctly when the <u>called user</u> clears after answering with a RELEASE COMPLETE message indicating the cause value # 16 "normal call clearing". The calling user shall receive a RELEASE COMPLETE with the cause value # 16 "normal call clearing". The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.	
<b>Parameter values:</b>	BC=PIXIT	
<b>Comments:</b>		

HH__XX__14		<b>PBN ref. to:</b> H.246 annex C [10] § C.6.1 H.225.0 [4], § B.6 TS 101 883 [1] § B.1.3.8, § B.1.3.1, § B.1.3.2
<b>TSS reference:</b>	H.323 [3]-H.323 [3]/Basic_call/Successful	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that the call clearing procedure is performed correctly when the <u>called user</u> clears after answering with a RELEASE COMPLETE message indicating the ReleaseCompleteReason facilityCallDeflection. The calling user shall receive a RELEASE COMPLETE with the ReleaseCompleteReason facilityCallDeflection. The fastStart element indicates the CODEC value in a H.245 [9] OpenLogicalChannel structure.	
<b>Parameter values:</b>	BC=PIXIT	
<b>Comments:</b>		

Values for test purposes HH __XX__01 and HH __xx__14	
VA_01	g711Alaw64k
VA_02	g711Alaw56k
VA_03	g711Ulaw64k
VA_04	g711Ulaw56k
VA_05	g722-64k
VA_06	g722-56k
VA_07	g722-48k
VA_08	g7231
VA_09	g728
VA_10	g729
VA_11	g729annexA
VA_12	is11172AudioCapability
VA_13	is13818AudioCapability
VA_14	g729wannexB
VA_15	g7231annexCCapability
VA_16	gsmFullRate GSMAudioCapability
VA_17	gsmHalfRate GSMAudioCapability
VA_18	gsmEnhancedFullRate GSMAudioCapability
VA_19	genericAudioCapability GenericCapability

## 6.18 Test purposes for H.323-H.323 Basic call, Unsuccessful

<b>Unsuccessful</b>	

HH__xx_U01	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.8
<b>TSS reference:</b>	H.323 [3]-H.323 [3]/Basic_call/Unsuccessful
<b>Selection criteria:</b>	
<b>Test purpose:</b>	Ensure that the call will be released when the destination unreachable. The RELEASE COMPLETE message contains either a Cause information element indicating the cause value 3 "no route to destination" or an User-to-user information element including the ReleaseCompleteReason code unreachableDestination.
<b>Parameter values:</b>	BC=PIXIT
<b>Comments:</b>	

HH__xx_U02	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.8
<b>TSS reference:</b>	H.323 [3]-H.323 [3]/Basic_call/Unsuccessful
<b>Selection criteria:</b>	
<b>Test purpose:</b>	Ensure that, when the called user is busy the calling user receives a RELEASE COMPLETE message containing either a Cause information element indicating the cause value # 17 "user busy" or the ReleaseCompleteReason codeinConf.
<b>Parameter values:</b>	BC=PIXIT
<b>Comments:</b>	

HH__xx_U03	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.8
<b>TSS reference:</b>	H.323 [3]-H.323 [3]/Basic_call/Unsuccessful/
<b>Selection criteria:</b>	
<b>Test purpose:</b>	Ensure that when the called user rejects the call a RELEASE COMPLETE message containing either a Cause information element indicating the cause value # 21 "call rejected" or the ReleaseCompleteReason destinationRejection.
<b>Parameter values:</b>	BC=PIXIT
<b>Comments:</b>	

HH__xx_U04	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.8
<b>TSS reference:</b>	H.323 [3]-H.323 [3]/Basic_call/Unsuccessful
<b>Selection criteria:</b>	
<b>Test purpose:</b>	Ensure that the call will be released when the called number is incomplete. The GK is initiating call clearing with a RELEASE COMPLETE message containing either a Cause information element indicating the cause value # 28 "Invalid number format (incomplete number)" or an User-to-user information element including the reason field indicating "badFormatAddress".
<b>Parameter values:</b>	BC=PIXIT
<b>Comments:</b>	

HH__xx_U05		<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.8
<b>TSS reference:</b>	H.323 [3]-H.323 [3]/Basic_call/Unsuccessful	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that when the called party is not registered, the network initiates call clearing with a RELEASE COMPLETE message containing either a Cause information element indicating the cause value # 20 "subscriber absent" or an User-to-user information element including the reason field indicating "calledPartyNotRegistered".	
<b>Parameter values:</b>	BC=PIXIT	
<b>Comments:</b>		

HH__xx_U06		<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.8
<b>TSS reference:</b>	H.323 [3]-H.323 [3]/Basic_call/Unsuccessful	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that when the called user is not compatible and responds with a RELEASE COMPLETE message indicating cause value # 88 "incompatible destination" or an User-to-user information element including the reason field indicating "invalidRevision" the calling user will be released with a RELEASE COMPLETE message indicating cause value # 88 "incompatible destination" or an User-to-user information element including the reason field indicating "invalidRevision"	
<b>Parameter values:</b>	BC=PIXIT	
<b>Comments:</b>		

HH__xx_U07		<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.8
<b>TSS reference:</b>	H.323 [3]-H.323 [3]/Basic_call/Unsuccessful	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that when the calling user clears the call before answer from called user, the called user is released with a RELEASE COMPLETE message indicating the cause value # 16 "normal call clearing" or the ReleaseCompleteReason destinationRejection.	
<b>Parameter values:</b>	BC=PIXIT	
<b>Comments:</b>		

HH__xx_U08		<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.8
<b>TSS reference:</b>	H.323 [3]-H.323 [3]/Basic_call/Unsuccessful	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that when the called packet based network has no gateway resources the GK is initiating call clearing with a RELEASE COMPLETE message containing either a Cause information element indicating the cause value # 42 "switching equipment congestion" or an User-to-user information element including the reason field indicating "gatewayResources".	
<b>Parameter values:</b>	BC=PIXIT	
<b>Comments:</b>		

HH__xx_U09		<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.8
<b>TSS reference:</b>	H.323 [3]-H.323 [3]/Basic_call/Unsuccessful	
<b>Selection criteria:</b>		
<b>Test purpose:</b>	Ensure that when the called packet based network has no gatekeeper resources, the GK is initiating call clearing with a RELEASE COMPLETE message containing either a Cause information element indicating the cause value # 47 "Resource Unavailable" or an User-to-user information element including the reason field indicating "gatekeeperResources"	
<b>Parameter values:</b>	BC=PIXIT	
<b>Comments:</b>		

HH__xx_U10	<b>PBN ref. to:</b> H.225.0 [4] § 7.2.2.8
<b>TSS reference:</b>	H.323 [3]-H.323 [3]/Basic_call/Unsuccessful
<b>Selection criteria:</b>	
<b>Test purpose:</b>	Ensure that when the called packet based network has no Bandwidth available, the GK is initiating call clearing with a RELEASE COMPLETE message containing either a Cause information element indicating the cause value # 34 "No circuit/channel available" or an User-to-user information element including the reason field indicating "noBandwidth"
<b>Parameter values:</b>	BC=PIXIT
<b>Comments:</b>	

## Annex A (normative):

### Bearer capability default encoding for ISDN calling terminal equipment and H.323 called terminal equipment (H.225 § 7.2.2.1.1)

#### A.1 Request and recognition of a circuit-mode bearer service

##### A.1.1 Circuit-mode 64 kbit/s 8 kHz structured bearer service category usable for speech information transfer

###### A.1.1.1 Request by a ISDN calling terminal equipment

###### a) BC Information Element Coding

Octet	Information element field	Field value
3	Coding standard	CCITT standardized coding
	Information transfer capability	Speech
4	Transfer mode	Circuit mode
	Information transfer rate	64 kbit/s
5	User information layer 1 protocol	ITU-T Recommendation G.711, A-law or $\mu$ -law (see note)
6	User information layer 2 protocol	-
7	User information layer 3 protocol	-

NOTE: Either one or the other layer 1 protocol is supported by the network.

###### b) HLC Information Element Coding

This information element is not included.

###### c) LLC Information Element Coding

This information element is not required. If present, its content shall be identical to the BC information element.

###### A.1.1.2 Compatibility at the called H.323 terminal equipment

###### a) BC Information Element Coding

Octet	Information element field	Field value
3	Coding standard	CCITT standardized coding
	Information transfer capability	Speech
4	Transfer mode	Circuit mode
	Information transfer rate	64 kbit/s
5	User information layer 1 protocol	ITU-T Recommendation G.711, A-law or $\mu$ -law (see note)
6	User information layer 2 protocol	-
7	User information layer 3 protocol	-

NOTE: Either one or the other layer 1 protocol is supported by the network.

## A.1.2 Circuit-mode 64 kbit/s unrestricted 8 kHz structured bearer service category

### A.1.2.1 Request by a ISDN calling terminal equipment

#### a) BC Information Element Coding

Octet	Information element field	Field value
3	Coding standard	CCITT standardized coding
	Information transfer capability	Unrestricted digital information
4	Transfer mode	Circuit mode
	Information transfer rate	64 kbit/s
5	User information layer 1 protocol	-
6	User information layer 2 protocol	-
7	User information layer 3 protocol	-

#### b) HLC Information Element Coding

This information element is optional. If present, it shall be encoded in accordance with clause 4.5/ITU-T Recommendation Q.931 [5].

#### c) LLC Information Element Coding

This information element is optional. If present, it shall be encoded in accordance with clause 4.5/ITU-T Recommendation Q.931 [5].

### A.1.2.2 Compatibility at the called H.323 terminal equipment

#### a) BC Information Element Coding

Octet	Information element field	Field value
3	Coding standard	CCITT standardized coding
	Information transfer capability	Unrestricted digital information
4	Transfer mode	Circuit mode
	Information transfer rate	64 kbit/s
5	User information layer 1 protocol	-
6	User information layer 2 protocol	-
7	User information layer 3 protocol	-

### A.1.2.3 ISDN connections involving restricted 64 kbit/s transfer capability

#### A.1.2.3.1 Request by a calling ISDN terminal connected to a network supporting 64 kbit/s unrestricted digital information transfer

The coding shown in this clause assumes that the calling user is aware of the interworking situation.

#### a) BC Information Element Coding

Octet	Information element field	Field value
3	Coding standard	CCITT standardized coding
	Information transfer capability	Unrestricted digital information
4	Transfer mode	Circuit mode
	Information transfer rate	64 kbit/s
5	User information layer 1 protocol	Rate adaption V.110 and X.30
	Synchronous/asynchronous	Synchronous/asynchronous
5a	Negotiation	Not possible
	User rate	user rate -
6	User information layer 2 protocol	-
7	User information layer 3 protocol	-



## b) HLC Information Element Coding

This information element is optional. If present, it shall be encoded in accordance with clause 4.5/ ITU-T Recommendation Q.931 [5].

## c) LLC Information Element Coding

This information element is optional. If present, it shall be encoded in accordance with clause 4.5/ ITU-T Recommendation Q.931 [5].

### A.1.2.3.2 Compatibility at the called H.323 terminal equipment connected to a network supporting 64 kbit/s unrestricted digital information transfer

## a) BC Information Element Coding

Octet	Information element field	Field value
3	Coding standard	CCITT standardized coding
	Information transfer capability	Unrestricted digital information
4	Transfer mode	Circuit mode
	Information transfer rate	64 kbit/s
5	User information layer 1 protocol	-
	Synchronous/asynchronous	-
5a	Negotiation	-
	User rate	-
6	User information layer 2 protocol	-
7	User information layer 3 protocol	-

### A.1.2.3.3 Request by a calling ISDN terminal connected to a network supporting 64 kbit/s restricted digital information transfer

## a) BC Information Element Coding

Octet	Information element field	Field value
3	Coding standard	CCITT standardized coding
	Information transfer capability	Restricted digital information
4	Transfer mode	Circuit mode
	Information transfer rate	64 kbit/s
5	User information layer 1 protocol	-
6	User information layer 2 protocol	-
7	User information layer 3 protocol	-

### A.1.2.3.4 Compatibility at the called H.323 terminal equipment connected to a network using restricted digital information transfer

## a) BC Information Element Coding

Octet	Information element field	Field value
3	Coding standard	CCITT standardized coding
	Information transfer capability	Restricted digital information
4	Transfer mode	Circuit mode
	Information transfer rate	64 kbit/s
5	User information layer 1 protocol	-
6	User information layer 2 protocol	-
7	User information layer 3 protocol	-

## A.1.3 Circuit-mode 64 kbit/s 8 kHz structured bearer service category usable for 3,1 kHz audio information transfer

### A.1.3.1 Request by a ISDN calling terminal equipment

#### a) BC Information Element Coding

Octet	Information element field	Field value
3	Coding standard	CCITT standardized coding
	Information transfer capability	3,1 kHz audio
4	Transfer mode	Circuit mode
	Information transfer rate	64 kbit/s
5	User information layer 1 protocol	ITU-T Recommendation G.711, A-law or $\mu$ -law (see note)
6	User information layer 2 protocol	-
7	User information layer 3 protocol	-
NOTE: Either one or the other layer 1 protocol is supported by the network		

#### b) HLC Information Element Coding

This information element is optional. If present, it shall be encoded in accordance with clause 4.5/ ITU-T Recommendation Q.931 [5].

#### c) LLC Information Element Coding

This information element is optional. If present, it shall be encoded in accordance with clause 4.5/ ITU-T Recommendation Q.931 [5].

### A.1.3.2 Compatibility at the H.323 called terminal equipment

#### a) BC Information Element Coding

Octet	Information element field	Field value
3	Coding standard	CCITT standardized coding
	Information transfer capability	3,1 kHz audio
4	Transfer mode	Circuit mode
	Information transfer rate	64 kbit/s
5	User information layer 1 protocol	ITU-T Recommendation G.711, A-law or $\mu$ -law (see note)
6	User information layer 2 protocol	-
7	User information layer 3 protocol	-
NOTE: Either one or the other layer 1 protocol is supported by the network.		

---

## History

<b>Document history</b>		
V1.1.1	February 2003	Publication