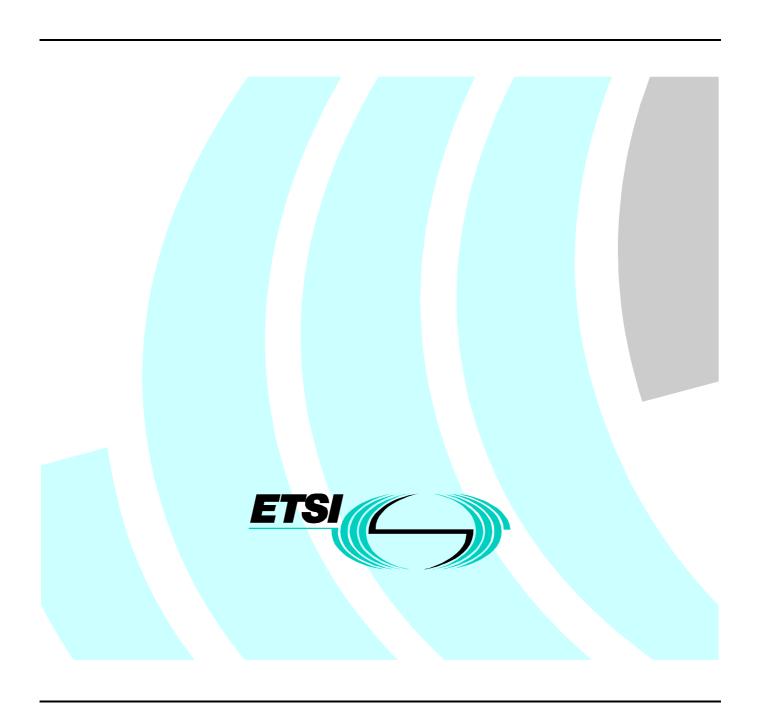Final draft **EN 300 267-5** V1.2.5 (1999-06)

European Standard (Telecommunications series)

Integrated Services Digital Network (ISDN); Telephony 7 kHz, videotelephony, audiographic conference and videoconference teleservices; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 5: Test Suite Structure and Test Purposes (TSS&TP) specification for the network

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Foreword

This European Standard (Telecommunications series) has been produced by ETSI Technical Committee Signalling Protocols and Switching (SPS), and is now submitted for the Voting phase of the ETSI standards Two-step Approval Procedure.

The present document is part 5 of a multi-part EN covering the Digital Subscriber Signalling System No. one (DSS1) protocol specification for the Integrated Services Digital Network (ISDN) telephony 7 kHz, videotelephony, audiographic conference and videoconference teleservices, as described below:

Part 1: "Protocol specification";

Part 2: "Protocol Implementation Conformance Statement (PICS) proforma specification";

Part 3: "Test Suite Structure and Test Purposes (TSS&TP) specification for the user";

Part 4: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification for the user ";

Part 5: "Test Suite Structure and Test Purposes (TSS&TP) specification for the network";

Part 6: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification for the network".

Proposed national transposition dates	
Date of latest announcement of this EN (doa):	3 months after ETSI publication
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	6 months after doa
Date of withdrawal of any conflicting National Standard (dow):	6 months after doa

Introduction

The present document is divided into six clauses. Clauses 1 to 3 form the scope, references and abbreviations. Clause 4 contains the test suite structure. Clause 5 contains the complete list of test purposes. Clause 6 contains the requirements for a generic or abstract test suite to comply with the present document.

It is been assumed that the Implementation Under Test (IUT) already complies with the conformance requirements associated with the ISDN basic call as defined in EN 300 403-1 [1]. This is specified as a requirement in EN 300 267-2 [4], clause 5. EN 300 267-1 [3], subclause 5.1, states that the additional generic requirements of clause 5 are defined to be compatible with the existing requirements of EN 300 403-1 [1].

In cases where EN 300 267-1 [3] specifies that requirements in EN 300 403-1 [1] shall apply, it is assumed that, because the IUT already complies with EN 300 403-1 [1], it also complies with these requirements. However, when specifying the abstract test cases, including test case selection, the requirements of EN 300 403-1 [1] need to be taken into account.

1 Scope

The present document is applicable to the stage three of the telephony 7 kHz and videotelephony teleservices for the pan-European Integrated Services Digital Network (ISDN) as provided by European public telecommunications operators at the T reference point or coincident S and T reference point (as specified in ITU-T Recommendation I.411 [8] by means of the Digital Subscriber Signalling System No. one (DSS1) protocol. EN 300 267-1 [3] provides the protocol specification and EN 300 267-2 [4] the Protocol Implementation Conformance Statement (PICS) proforma specification. Stage three identifies the protocol procedures and switching functions needed to support a telecommunications service (see ITU-T Recommendation I.130 [7]).

The present document specifies the Test Suite Structure and Test Purposes (TSS&TP) for the network side. It covers the protocol requirements as defined in EN 300 267-1 [3] and provides test purposes for the additional generic requirements for basic telecommunication services not defined in EN 300 403-1 [1] (EN 300 267-1 [3], clause 5), for the telephony 7 kHz teleservice (EN 300 267-1 [3], clause 6), for the videotelephony teleservice (EN 300 267-1 [3], clause 7), for the audiographic conference teleservice (EN 300 267-1 [3], clause 8) and for the videoconference teleservice (EN 300 267-1 [3], clause 9).

Two types of implementation are covered:

- an implementation which supports network requirements at the coincident S and T reference point;

- an implementation which supports network requirements for interworking with private ISDNs at the T reference point.

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, edition number, version number, etc.) or non-specific.

- For a specific reference, subsequent revisions do not apply.

- For a non-specific reference, the latest version applies.

- A non-specific reference to an ETS shall also be taken to refer to later versions published as an EN with the same number.

[1]   EN 300 403-1 (V1.2): "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]".

[2]   ETS 300 144: "Integrated Services Digital Network (ISDN); Audiovisual services Frame structure for a 64 kbit/s to 1 920 kbit/s channel and associated syntax for inband signalling".

[3]   Void.

[4]   EN 300 267-2 (V1.2): "Integrated Services Digital Network (ISDN); Telephony 7 kHz, videotelephony, audiographic conference and videoconference teleservices; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification".

[5]   EN 300 403-3 (V1.2): "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; Signalling network layer for circuit-mode basic call control; Part 3: Protocol Implementation Conformance Statement (PICS) proforma specification".

[6]   ITU-T Recommendation G.711 (1988): "Pulse code modulation (PCM) of voice frequencies".

[7]   ITU-T Recommendation I.130 (1988): "Method for the characterization of telecommunication services supported by an ISDN and network capabilities of an ISDN".

[8]   ITU-T Recommendation I.411 (1993): "ISDN user-network interfaces; Reference configurations".

[9]   ISO/IEC 9646-2: "Information technology; Open systems interconnection; Conformance testing methodology and framework; Part 2: Abstract test suite specification".

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

[11]   ITU-T Recommendation H.221: "Frame structure for a 64 to 1920 kbit/s channel in audiovisual teleservices".

[12]   ITU-T Recommendation H.242: "System for establishing communication between audiovisual terminals using digital channels up to 2 Mbit/s".

[13]   ITU-T Recommendation F.720: "Videotelephony services; General".

[14]   ITU-T Recommendation F.721: "Videotelephony teleservice for ISDN".

3   Definitions and abbreviations

3.1   Definitions

For the purposes of the present document, the definitions in EN 300 267-1 [3] apply in addition to the following definitions:

BC1: first (lower priority) Bearer Capability information element included in a SETUP message allowing bearer capability selection.

BC2: second (higher priority) Bearer Capability information element included in a SETUP message allowing bearer capability selection.

BC = speech: Bearer Capability information element with its information transfer capability field set to "speech" and its user information layer one protocol field set to "ITU-T Recommendation G.711 [6] A-law".

BC = UDI/TA: Bearer Capability information element with its information transfer capability field set to "UDI/TA" and its user information layer one protocol field set to "ITU-T Recommendations H.221 [11] and H.242 [12]".

BC = UDI: Bearer Capability information element with its information transfer capability field set to "UDI" and its user information layer one protocol field set to "ITU-T Recommendations H.221 [11] and H.242 [12]".

bit-rate allocation signal: bit position within the frame structure to transmit commands, control and indication signals, capabilities.

HLC1: first (lower priority) High Layer Compatibility information element in a SETUP message allowing high layer compatibility selection.

HLC2: second (higher priority) High Layer Compatibility information element in a SETUP message allowing high layer compatibility selection.

HLC = telephony: High Layer Compatibility information element with its high layer characteristics identification field set to "telephony".

HLC = videotelephony_ic: High Layer Compatibility information element with its high layer characteristics identification field set to "110 0000 - videotelephony (ITU-T Recommendation F.720 [13] and F.721 [14])" and its extended audiovisual characteristics identification field set to "000 0001 - capability set of initial channel of ITUT-T Recommendation H.221 [11]".

HLC = videotelephony_nex: High Layer Compatibility information element with its high layer characteristics identification field set to "110 0000 - videotelephony (ITU-T Recommendation F.720 [13] and F.721 [14])" but not containing an extended audiovisual characteristics identification field.

HLC = videotelephony_sc: High Layer Compatibility information element with its high layer characteristics identification field set to "110 0000 - videotelephony (ITU-T Recommendation F.720 [13] and F.721 [14])" and its extended audiovisual characteristics identification field set to "000 0010 - capability set of subsequent channel of ITUT-T Recommendation H.221 [11]".

HLC = audiographic_ic: High Layer Compatibility information element with its high layer characteristics identification field set to "110 0010 – audiographic conferencing (ITU-T Recommendation F.720 [13] and F.721 [14])" and its extended audiovisual characteristics identification field set to "000 0001 - capability set of initial channel of ITUT-T Recommendation H.221 [11]".

HLC = audiographic_nex: High Layer Compatibility information element with its high layer characteristics identification field set to "110 0010 - audiographic conferencing (ITU-T Recommendation F.720 [13] and F.721 [14])" but not containing an extended audiovisual characteristics identification field.

HLC = audiographic_sc: High Layer Compatibility information element with its high layer characteristics identification field set to "110 0010 - audiographic conferencing (ITU-T Recommendation F.720 [13] and F.721 [14])" and its extended audiovisual characteristics identification field set to "000 0010 - capability set of subsequent channel of ITUT-T Recommendation H.221 [11]".

HLC = videoconference_ic: High Layer Compatibility information element with its high layer characteristics identification field set to "110 0010 – videoconferencing (ITU-T Recommendation F.720 [13] and F.721 [14])" and its extended audiovisual characteristics identification field set to "000 0001 - capability set of initial channel of ITUT-T Recommendation H.221 [11]".

HLC = videoconference_nex: High Layer Compatibility information element with its high layer characteristics identification field set to "110 0010 - videoconferencing (ITU-T Recommendation F.720 [13] and F.721 [14])" but not containing an extended audiovisual characteristics identification field.

HLC = videoconference_sc: High Layer Compatibility information element with its high layer characteristics identification field set to "110 0010 - videoconferencing (Recommendation F.710 and F.711)" and its extended audiovisual characteristics identification field set to "000 0010 - capability set of subsequent channel of ITUT-T Recommendation H.221 [11]".

Implementation Under Test (IUT): component of the system under test (user terminal or private ISDN) providing the protocol specified in EN 300 267-1 [3] at the S/T or T reference point.

in-band signalling: signalling via the bit-rate allocation signal of the frame structure, as defined in ETS 300 144 [2].

mode 0F: transmission mode in which the initial channel contains framing, and 7-bit ITU-T Recommendation G.711 [6] audio signal is being transmitted.

mode 0U: transmission mode in which the initial channel does not contain framing, and 8-bit ITU-T Recommendation G.711 [6] audio signal is being transmitted.

PI = #1: Progress Indicator information element, with its progress description field set to #1 "Call is not end-to-end ISDN".

PI = #2: Progress Indicator information element, with its progress description field set to #2 "Destination address is non-ISDN".

PI = #3: Progress Indicator information element, with its progress description field set to #3 "Origination address is non-ISDN".

PI = #4: Progress Indicator information element, with its progress description field set to #4 "Call has returned to the ISDN".

PI = #5: Progress Indicator information element, with its progress description field set to #5 "interworking has occurred and has resulted in a telecommunications service change".

PI = #8: Progress Indicator information element, with its progress description field set to #8 "In-band information or appropriate pattern now available".

telephony 7 kHz fallback allowed SETUP message: SETUP message containing two BCs, with the first BC = speech and the second BC = UDI/TA, a HLC = telephony, and not containing a LLC.

telephony 7 kHz fallback not allowed SETUP message: SETUP message containing a single BC = UDI/TA and a single HLC = telephony, and not containing a LLC.

videotelephony fallback allowed SETUP message: SETUP message containing two BCs, with the first BC = speech and the second BC = UDI/TA, and two HLCs, with the first HLC = telephony and the second HLC = videotelephony_ic, and not containing a LLC.

videotelephony fallback not allowed SETUP message: SETUP message containing a single BC = UDI/TA and a single HLC = videotelephony_ic, and not containing a LLC.

audiographic conference fallback allowed SETUP message: SETUP message containing two BCs, with the first BC = speech and the second BC = UDI/TA, and two HLCs, with the first HLC = telephony and the second HLC = audiographic_ic, and not containing a LLC.

audiographic conference fallback not allowed SETUP message: SETUP message containing a single BC = UDI/TA and a single HLC = audiographic_ic, and not containing a LLC.

videoconference fallback allowed SETUP message: SETUP message containing two BCs, with the first BC = speech and the second BC = UDI/TA, and two HLCs, with the first HLC = telephony and the second HLC = videoconference_ic, and not containing a LLC.

videoconference fallback not allowed SETUP message: SETUP message containing a single BC = UDI/TA and a single HLC = videoconference_ic, and not containing a LLC.

3.2   Abbreviations

For the purposes of the present document, the abbreviations in EN 300 267-1 [3] and EN 300 267-2 [4] apply in addition to the following abbreviations:

ATS	Abstract Test Suite
BC	Bearer Capability information element
CR1	Call Reference for the first call
CR2	Call Reference for the second call
DSS1	Digital Subscriber Signalling System No. one
HLC	High Layer Compatibility information element
ISDN	Integrated Services Digital Network
IUT	Implementation Under Test
LLC	Low Layer Compatibility information element
PI	Progress Indicator information element
TP	Test Purpose
TSS	Test Suite Structure
UDI	Unrestricted Digital Information
UDI/TA	Unrestricted Digital Information with Tones/Announcements

4   Test Suite Structure (TSS)

The test suite is structured as a tree. Six test group levels are defined. The TSS is depicted in figure 1.

4.1   First test group level

The first test group level contains the name of the test suite:

- NT7VAC   Network side telephony 7 kHz, videotelephony teleservices and generic protocol.

4.2 Second test group level

The second test group level indicates whether the test purpose covers a requirement applicable to the generic protocol, the telephony 7 kHz protocol, the videotelephony teleservice protocol, the audiographic conference teleservice protocol or the videoconference teleservice protocol:

- GEN   Generic requirements. The test purpose covers a requirement applicable for the generic part of EN 300 267-1 [3] (clause 5);

- TL7   Telephony 7 kHz teleservice. The test purpose covers a requirement applicable for the telephony 7 kHz part of EN 300 267-1 [3] (clause 6);

- VTL   Videotelephony teleservice. The test purpose covers a requirement applicable for the videotelephony part of EN 300 267-1 [3] (clause 7);

- AGC   Audiographic conference teleservice. The test purpose covers a requirement applicable for the audiographic conference part of EN 300 267-1 [3] (clause 8);

- VCF   Videoconference teleservice. The test purpose covers a requirement applicable for the videoconference part of EN 300 267-1 [3] (clause 9).

4.3 Third test group level

The third test group level indicates whether the test purpose covers the originating interface or the destination interface:

- ORIG   Originating Interface;

- DEST   Destination Interface.

4.4 Fourth test group level

The fourth test group level indicates which kind of functionality is tested and, more precisely, whether the test purposes covers requirements applicable to fallback allowed, fallback not allowed or connection management. Three groups are defined:

- FBA   FallBack Allowed: this group covers all tests where a fallback allowed SETUP message is sent to the IUT;

- FBN   FallBack Not allowed: this group covers all tests where a fallback not allowed SETUP message is sent to the IUT;

- CMN   Connection MaNagement: this group includes all other cases which do not test the response to or the sending of a fallback allowed or a fallback not allowed SETUP message. As a consequence, the clearing of a call and the establishment of a second connection for videotelephony is tested here.

4.5 Fifth test group level

The fifth test group level indicates the type of implementation to which the test purpose applies:

- ST   An implementation which supports network requirements at the coincident S and T reference point;

- PT   An implementation which supports network requirements for interworking with private ISDNs at the T reference point;

  ST_T   An implementation which supports network requirements at the coincident S and T reference point or network requirements for interworking with private ISDNs at the T reference point.

This level group does not appear when only ST_T is included as a subgroup.

```
NT7VAC ─┬─ GEN ─┬─ ORIG (1) ────────────┬─ FBA (1)
        │       │                        ├─ FBN (2)
        │       │                        └─ CMN (3)
        │       │
        │       └─ DEST (2) ─────────────┬─ FBA (1)
        │                                ├─ FBN (2)
        │                                └─ CMN (3)
        │
        ├─ TL7 ─┬─ ORIG (1) ────────────┬─ FBA (1)
        │       │                        ├─ FBN (2)
        │       │                        └─ CMN (3)
        │       │
        │       └─ DEST (2) ─────────────┬─ FBA (1) ─┬─ ST_T
        │                                │           └─ PT
        │                                ├─ FBN (2)
        │                                └─ CMN (3)
        │
        ├─ VTL ─┬─ ORIG (1) ────────────┬─ FBA (1)
        │       │                        ├─ FBN (2)
        │       │                        └─ CMN (3)
        │       │
        │       └─ DEST (2) ─────────────┬─ FBA (1) ─┬─ ST_T
        │                                │           ├─ ST
        │                                │           └─ PT
        │                                ├─ FBN (2)
        │                                └─ CMN (3)
        │
        ├─ AGC ─┬─ ORIG (1) ────────────┬─ FBA (1)
        │       │                        ├─ FBN (2)
        │       │                        └─ CMN (3)
        │       │
        │       └─ DEST (2) ─────────────┬─ FBA (1) ─┬─ ST_T
        │                                │           ├─ ST
        │                                │           └─ PT
        │                                ├─ FBN (2)
        │                                └─ CMN (3)
        │
        └─ VCF ─┬─ ORIG (1) ────────────┬─ FBA (1)
                │                        ├─ FBN (2)
                │                        └─ CMN (3)
                │
                └─ DEST (2) ─────────────┬─ FBA (1) ─┬─ ST_T
                                         │           ├─ ST
                                         │           └─ PT
                                         ├─ FBN (2)
                                         └─ CMN (3)
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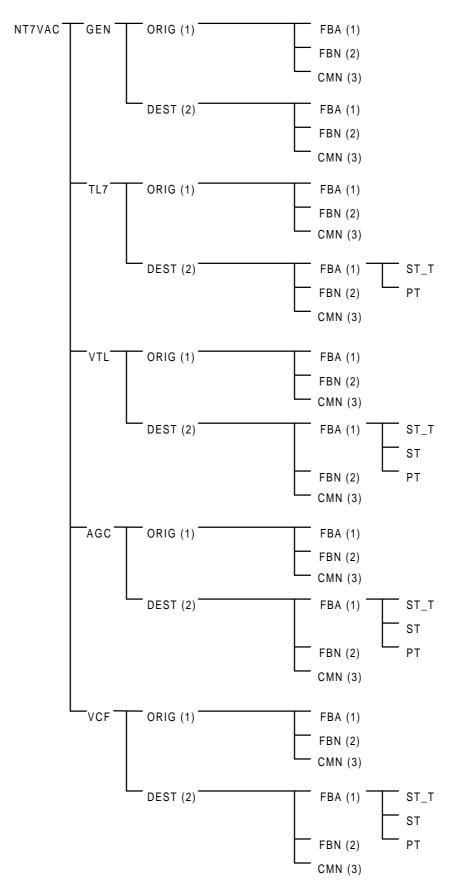
Figure 1: Test suite structure

5 Test Purposes (TP)

5.1 Test purpose format

The structure of a test purpose identifier is defined in table 1.

Table 1: TP identifier naming convention scheme

<requirement><nn>_<nn>		
<requirement>	GTP	generic protocol requirement
	TTP	telephony 7 kHz requirement
	VTP	videotelephony requirement
	ATP	audiographic conference requirement
	CTP	videoconference requirement
<nnn>	1st digit	1 Originating Interface; 2 Destination Interface
	2nd digit	1 Fallback Allowed; 2 Fallback Not Allowed; 3 Connection Management
<nn>	2 digits	sequential test case number

The test purposes are formatted as tables to increase readability. The table format is shown in table 2. Text in **bold** shows the text which is always present, normal text provides an explanation for each field.

Table 2: Structure of a single TP

Test purpose identifier	**Reference to EN 300 267-1 [3]:**	**Other relevant reference:**
TSS reference	The full test suite structure reference.	
Selection criteria	The criteria necessary in order to select the test. Unless otherwise specified, references are to EN 300 267-2 [4].	
Test purpose	Description of the test purpose.	
Cross reference	GTP/TTP/VTP/ATP/CTP cross reference data.	
Comments	Any relevant comments.	

The "Other relevant reference" field, where applicable, contains a reference to a specification document containing the whole, or part, of the requirement to be tested by the test purpose.

The "Selection criteria" field consists of a Boolean expression incorporating items from EN 300 267-2 [4] (in which case items are not prefixed by a reference number) and from EN 300 403-3 [5].

Some of the telephony 7 kHz, videotelephony, audiographic conference or videoconference test purposes are directly related, but not identical, to generic ones. Where such a relationship exists, the reference to the related generic test purpose is specified in the "Cross reference" field of the telephony 7 kHz, videotelephony, audiographic conference or videoconference test purpose.

Generic test purposes test generic protocol requirements which define procedures that are additional to basic call requirements and also requirements which correspond to no particular IUT, but when parameterized with real values for bearer capability etc. give a test for a specific service.

5.2   Generic requirements

5.2.1   Calling network interface

5.2.1.1   Fallback allowed

GTP11_01	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2	Other relevant reference: EN 300 403-1 [1] 5.3.4.1
TSS reference	NT7VAC/GEN/ORIG//FBA	
Selection criteria	SC 5.1 AND MCn 21.1	
Test purpose	Verify that the IUT, in Overlap Sending call state N2, having received a SETUP message, containing two BCs, BC1 and BC2, with one of them set to UDI/TA, and no LLC, is capable of sending a DISCONNECT message containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law.	
Cross reference		
Comments		

GTP11_02	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2	Other relevant reference: EN 300 403-1 [1] 5.3.4.1
TSS reference	NT7VAC/GEN/ORIG/FBA	
Selection criteria	SC 5.1 AND MCn 21.1	
Test purpose	Verify that the IUT, in Outgoing Call Proceeding call state N3, having received a SETUP message, containing two BCs, BC1 and BC2, with one of them set to UDI/TA, and no LLC, is capable of sending a DISCONNECT message containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law.	
Cross reference		
Comments		

GTP11_03	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2	Other relevant reference: EN 300 403-1 [1] 5.1.3
TSS reference	NT7VAC/GEN/ORIG/FBA	
Selection criteria	SC 5.1 AND MCn 21.1	
Test purpose	Verify that the IUT, in Idle call state N0, on receipt of a SETUP message containing two BCs, BC1 and BC2, with one of them set to UDI/TA, and no LLC, but not containing any called number information, sends a SETUP ACKNOWLEDGE message, containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law.	
Cross reference		
Comments		

GTP11_04	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2	Other relevant reference: EN 300 403-1 [1] 5.4
TSS reference	NT7VAC/GEN/ORIG/FBA	
Selection criteria	SC 5.1 AND MCn 21.1	
Test purpose	Verify that the IUT, in Idle call state N0, having received a SETUP message, containing two BCs, BC1 and BC2, with one of them set to UDI/TA, no LLC with a sending complete indication, is capable of sending a PROGRESS or an ALERTING or a CALL PROCEEDING message, containing a PI = #8, and of simultaneously providing in-band tones announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law.	
Cross reference		
Comments		

GTP11_05	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2	Other relevant reference: EN 300 403-1 [1] 5.3.4.1
TSS reference	NT7VAC/GEN/ORIG/FBA	
Selection criteria	SC 5.1 AND MCn 21.1 AND MCn 22.1	
Test purpose	Verify that the IUT, in Overlap Sending call state N2, having received a SETUP message, containing two BCs, BC1 and BC2, with one of them set to UDI/TA, no LLC, and two HLCs, HLC1 and HLC2, is capable of sending a DISCONNECT message containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law.	
Cross reference		
Comments		

GTP11_06	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2	Other relevant reference: EN 300 403-1 [1] 5.3.4.1
TSS reference	NT7VAC/GEN/ORIG/FBA	
Selection criteria	SC 5.1 AND MCn 21.1 AND MCn 22.1	
Test purpose	Verify that the IUT, in Outgoing Call Proceeding call state N3, having received a SETUP message, containing two BCs, BC1 and BC2, with one of them set to UDI/TA, no LLC, and two HLCs, HLC1 and HLC2, is capable of sending a DISCONNECT message containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law.	
Cross reference		
Comments		

GTP11_07	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2	Other relevant reference: EN 300 403-1 [1] 5.1.3
TSS reference	NT7VAC/GEN/ORIG/FBA	
Selection criteria	SC 5.1 AND MCn 21.1 AND MCn 22.1	
Test purpose	Verify that the IUT, in Idle call state N0, on receipt of a SETUP message containing two BCs, BC1 and BC2, with one of them set to UDI/TA, no LLC, two HLCs, HLC1 and HLC2, but not containing any called number information, sends a SETUP ACKNOWLEDGE message, containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law.	
Cross reference		
Comments		

GTP11_08	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2	Other relevant reference: EN 300 403-1 [1] 5.4
TSS reference	NT7VAC/GEN/ORIG/FBA	
Selection criteria	SC 5.1 AND MCn 21.1 AND MCn 22.1	
Test purpose	Verify that the IUT, in Idle call state N0, having received a SETUP message, containing two BCs, BC1 and BC2, with one of them set to UDI/TA, no LLC, two HLCs, HLC1 and HLC2, with a sending complete indication, is capable of sending a PROGRESS or an ALERTING or a CALL PROCEEDING message, containing a PI = #8, and of simultaneously providing in-band tones announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law.	
Cross reference		
Comments		

5.2.1.2   Fallback not allowed

GTP12_01	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2	Other relevant reference: EN 300 403-1 [1] 5.3.4.1
TSS reference	NT7VAC/GEN/ORIG/FBN	
Selection criteria	SC 5.1	
Test purpose	Verify that the IUT, in Overlap Sending call state N2, having received a SETUP message, containing a single BC = UDI/TA, is capable of sending a DISCONNECT message containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law.	
Cross reference		
Comments		

GTP12_02	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2	Other relevant reference: EN 300 403-1 [1] 5.3.4.1
TSS reference	NT7VAC/GEN/ORIG/FBN	
Selection criteria	SC 5.1	
Test purpose	Verify that the IUT, in Outgoing Call Proceeding call state N3, having received a SETUP message, containing a single BC = UDI/TA, is capable of sending a DISCONNECT message containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law.	
Cross reference		
Comments		

GTP12_03	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2	Other relevant reference: EN 300 403-1 [1] 5.1.3
TSS reference	NT7VAC/GEN/ORIG/FBN	
Selection criteria	SC 5.1	
Test purpose	Verify that the IUT, in Idle call state N0, on receipt of a SETUP message containing a BC = UDI/TA, but not containing any called number information, sends a SETUP ACKNOWLEDGE message, containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law.	
Cross reference		
Comments		

GTP12_04	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2	Other relevant reference: EN 300 403-1 [1] 5.4
TSS reference	NT7VAC/GEN/ORIG/FBN	
Selection criteria	SC 5.1	
Test purpose	Verify that the IUT, in Idle call state N0, having received a SETUP message, containing a BC = UDI/TA with a sending complete indication, is capable of sending a PROGRESS or an ALERTING or a CALL PROCEEDING message, containing a PI = #8, and of simultaneously providing in-band tones announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law.	
Cross reference		
Comments		

GTP12_05	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2	Other relevant reference: EN 300 403-1 [1] 5.3.4.1
TSS reference	NT7VAC/GEN/ORIG/FBN	
Selection criteria	SC 5.1	
Test purpose	Verify that the IUT, in Overlap Sending call state N2, having received a SETUP message, a single BC = UDI/TA and a single HLC, is capable of sending a DISCONNECT message containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law.	
Cross reference		
Comments		

GTP12_06	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2	Other relevant reference: EN 300 403-1 [1] 5.3.4.1
TSS reference	NT7VAC/GEN/ORIG/FBN	
Selection criteria	SC 5.1	
Test purpose	Verify that the IUT, in Outgoing Call Proceeding call state N3, having received a SETUP message, containing a single BC = UDI/TA and a single HLC, is capable of sending a DISCONNECT message containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law.	
Cross reference		
Comments		

GTP12_07	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2	Other relevant reference: EN 300 403-1 [1] 5.1.3
TSS reference	NT7VAC/GEN/ORIG/FBN	
Selection criteria	SC 5.1	
Test purpose	Verify that the IUT, in Idle call state N0, on receipt of a SETUP message containing a BC = UDI/TA and a single HLC, but not containing any called number information, sends a SETUP ACKNOWLEDGE message, containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law.	
Cross reference		
Comments		

GTP12_08	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2	Other relevant reference: EN 300 403-1 [1] 5.4
TSS reference	NT7VAC/GEN/ORIG/FBN	
Selection criteria	SC 5.1	
Test purpose	Verify that the IUT, in Idle call state N0, having received a SETUP message, containing a BC = UDI/TA, a single HLC with a sending complete indication, is capable of sending a PROGRESS or an ALERTING or a CALL PROCEEDING message, containing a PI = #8, and of simultaneously providing in-band tones announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law.	
Cross reference		
Comments		

ETSI

5.2.1.3   Connection management

GTP13_01	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2	Other relevant reference: EN 300 403-1 [1] 5.3.4.1
TSS reference	NT7VAC/GEN/ORIG/CMN	
Selection criteria	SC 5.1	
Test purpose	Verify that the IUT, at the originating interface, in Active call state N10, having received a SETUP message, containing a single BC = UDI/TA, is capable of sending a DISCONNECT message containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law.	
Cross reference		
Comments		

GTP13_02	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2	Other relevant reference:
TSS reference	NT7VAC/GEN/ORIG/CMN	
Selection criteria	SC 5.1	
Test purpose	Verify that the IUT, at the originating interface, with CR1 and CR2 in Active call state N10, having received a SETUP message, containing a BC = UDI/TA, is capable of sending a DISCONNECT message, on CR1, containing a PI = #8 and of providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law.	
Cross reference		
Comments		

5.2.2   Destination interface

5.2.2.1   Fallback allowed

GTP21_01	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2	Other relevant reference: EN 300 403-1 [1] 5.3.4.1, 5.3.2 e)
TSS reference	NT7VAC/GEN/DEST/FBA/ST_T	
Selection criteria	SC 5.1 AND MCn 21.2 AND MCn 2.2 [5] AND MCn 2.4 [5]	
Test purpose	Verify that the IUT, in Overlap Receiving call state N25, having sent a SETUP message, delivered on a point to point data link, containing two BCs, BC1 and BC2, with one of them set to UDI/TA, and no LLC, is capable of sending a DISCONNECT message containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law.	
Cross reference		
Comments	According to basic call requirements, when the SETUP message has been sent via the broadcast data link, to indicate a network disconnect indication, IUT shall send a RELEASE message.	

GTP21_02	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2	Other relevant reference: EN 300 403-1 [1] 5.3.4.1, 5.3.2 e)
TSS reference	NT7VAC/GEN/DEST/FBA/ST_T	
Selection criteria	SC 5.1 AND MCn 21.2 AND MCn 2.4 [5]	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having received a SETUP message, delivered on a point to point data link, containing two BCs, BC1 and BC2, with one of them set to UDI/TA, and no LLC, is capable of sending a DISCONNECT message containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law.	
Cross reference		
Comments	According to basic call requirements, when the SETUP message has been sent via the broadcast data link, to indicate a network disconnect indication, IUT shall send a RELEASE message.	

GTP21_03	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2	Other relevant reference: EN 300 403-1 [1] 5.3.4.1
TSS reference	NT7VAC/GEN/DEST/FBA/ST_T	
Selection criteria	SC 5.1 AND MCn 21.2 AND MCn 22.2 AND MCn 2.2 [5] AND MCn 2.4 [5]	
Test purpose	Verify that the IUT, in Overlap Receiving call state N25, having sent a SETUP message, delivered on a point to point data link, containing two BCs, BC1 and BC2, with one of them set to UDI/TA, no LLC, and two HLCs, HLC1 and HLC2, is capable of sending a DISCONNECT message containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law.	
Cross reference		
Comments	According to basic call requirements, when the SETUP message has been sent via the broadcast data link, to indicate a network disconnect indication, IUT shall send a RELEASE message.	

GTP21_04	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2	Other relevant reference: EN 300 403-1 [1] 5.3.4.1
TSS reference	NT7VAC/GEN/DEST/FBA/ST_T	
Selection criteria	SC 5.1 AND MCn 21.2 AND MCn 22.2 AND MCn 2.4 [5]	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a SETUP message, delivered on a point to point data link, containing two BCs, BC1 and BC2, with one of them set to UDI/TA, no LLC, and two HLCs, HLC1 and HLC2, is capable of sending a DISCONNECT message containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law.	
Cross reference		
Comments	According to basic call requirements, when the SETUP message has been sent via the broadcast data link, to indicate a network disconnect indication, IUT shall send a RELEASE message.	

5.2.2.2 Fallback not allowed

GTP22_01	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2	Other relevant reference: EN 300 403-1 [1] Annex A
TSS reference	NT7VAC/GEN/DEST/FBN	
Selection criteria	MCn 12 [5]	
Test purpose	Verify that the IUT, in Call Present call state N6, having sent a SETUP message, containing a BC = UDI/TA, on receipt of a CALL PROCEEDING message, containing an acceptable B-channel indication, connects, as a minimum, the backward side of the transmission path.	
Cross reference		
Comments		

GTP22_02	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2	Other relevant reference: EN 300 403-1 [1] Annex A
TSS reference	NT7VAC/GEN/DEST/FBN	
Selection criteria	MCn 12 [5]	
Test purpose	Verify that the IUT, in Call Present call state N6, having sent a SETUP message, containing a BC = UDI/TA, on receipt of an ALERTING message, containing a PI = #8, connects, as a minimum, the backward side of the transmission path.	
Cross reference		
Comments		

GTP22_03	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2	Other relevant reference: EN 300 403-1 [1] 5.2.6
TSS reference	NT7VAC/GEN/DEST/FBN	
Selection criteria		
Test purpose	Verify that the IUT, in Idle call state N0, is capable of sending a SETUP message containing a BC = UDI/TA and a PI = #1 or a PI = #3.	
Cross reference		
Comments		

GTP22_04	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2	Other relevant reference: EN 300 403-1 [1] 5.3.4.1
TSS reference	NT7VAC/GEN/DEST/FBN	
Selection criteria	SC 5.1 AND MCn 2.2 [5] AND MCn 2.4 [5]	
Test purpose	Verify that the IUT, in Overlap Receiving call state N25, having sent a SETUP message, delivered on a point to point data link, containing a single BC = UDI/TA, and no LLC, is capable of sending a DISCONNECT message containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law.	
Cross reference		
Comments	According to basic call requirements, when the SETUP message has been sent via the broadcast data link, to indicate a network disconnect indication, IUT shall send a RELEASE message.	

GTP22_05	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2	Other relevant reference: EN 300 403-1 [1] 5.3.4.1
TSS reference	NT7VAC/GEN/DEST/FBN	
Selection criteria	SC 5.1 AND MCn 2.4 [5]	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a SETUP message, delivered on a point to point data link, containing a single BC = UDI/TA, and no LLC, is capable of sending a DISCONNECT message containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law.	
Cross reference		
Comments	According to basic call requirements, when the SETUP message has been sent via the broadcast data link, to indicate a network disconnect indication, IUT shall send a RELEASE message.	

GTP22_06	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2	Other relevant reference: EN 300 403-1 [1] 5.3.4.1
TSS reference	NT7VAC/GEN/DEST/FBN	
Selection criteria	SC 5.1 AND MCn 2.2 [5] AND MCn 2.4 [5]	
Test purpose	Verify that the IUT, in Overlap Receiving call state N25, having sent a SETUP message, delivered on a point to point data link, containing a single BC = UDI/TA, no LLC, and a single HLC, is capable of sending a DISCONNECT message containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law.	
Cross reference		
Comments	According to basic call requirements, when the SETUP message has been sent via the broadcast data link, to indicate a network disconnect indication, IUT shall send a RELEASE message.	

GTP22_07	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2	Other relevant reference: EN 300 403-1 [1] 5.3.4.1
TSS reference	NT7VAC/GEN/DEST/FBN	
Selection criteria	SC 5.1 AND MCn 2.4 [5]	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a SETUP message, delivered on a point to point data link, containing a single BC = UDI/TA, no LLC, and a single HLC, is capable of sending a DISCONNECT message containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law.	
Cross reference		
Comments	According to basic call requirements, when the SETUP message has been sent via the broadcast data link, to indicate a network disconnect indication, IUT shall send a RELEASE message.	

5.2.2.3   Connection management

GTP23_01	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2	Other relevant reference: EN 300 403-1 [1] 5.3.4.1
TSS reference	NT7VAC/GEN/DEST/CMN	
Selection criteria	SC 5.1	
Test purpose	Verify that the IUT, at the destination interface, in Active call state N10, having received a SETUP message, containing a single BC = UDI/TA, is capable of sending a DISCONNECT message containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law.	
Cross reference		
Comments		

GTP23_02	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2	Other relevant reference:
TSS reference	NT7VAC/GEN/DEST/CMN	
Selection criteria	SC 5.1	
Test purpose	Verify that the IUT, at the destination interface, with CR1 and CR2 in Active call state N10, having received a SETUP message, containing a BC = UDI/TA, is capable of sending a DISCONNECT message, on CR1, containing a PI = #8 and of providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law.	
Cross reference		
Comments		

5.3   Telephony 7 kHz teleservice

5.3.1   Calling network interface

5.3.1.1   Fallback allowed

TTP11_01	Reference to EN 300 267-1 [3]: 6.5.1 b), 6.6	Other relevant reference: EN 300 403-1 [1] 5.1.5.1
TSS reference	NT7VAC/TL7/ORIG/FBA	
Selection criteria	R 1.1 AND MCn 21.1	
Test purpose	Verify that the IUT, in Outgoing Call Proceeding call state N3, having received a SETUP message containing two BCs, with the first BC = speech and the second BC = UDI/TA, a HLC = telephony, and not containing a LLC, and on completion of a successful subscription check for the prime service, is capable of sending a CONNECT message and enters the Active call state N10.	
Cross reference		
Comments	Receipt of telephony 7 kHz fallback allowed SETUP: optional subscription check for the prime service succeeded.	

TTP11_02	Reference to EN 300 267-1 [3]: 6.5.1 b), 6.6	Other relevant reference: EN 300 403-1 [1] 5.1.5.1, 5.3.2
TSS reference	NT7VAC/TL7/ORIG/FBA	
Selection criteria	R 1.1 AND MCn 21.1 AND SCn 161.1 [5]	
Test purpose	Verify that the IUT, in Idle call state N0, on receipt of a telephony 7 kHz fallback allowed SETUP message, and on failure of the subscription check for the prime service, releases the call by sending a RELEASE COMPLETE with cause #57 "bearer capability not authorized" and enters the Null call state N0.	
Cross reference		
Comments	Receipt of telephony 7 kHz fallback allowed SETUP: optional subscription check for the prime service failed.	

TTP11_03	Reference to EN 300 267-1 [3]: 6.5.1 c), 6.6	Other relevant reference:
TSS reference	NT7VAC/TL7/ORIG/FBA	
Selection criteria	R 1.1 AND MCn 21.1	
Test purpose	Verify that the IUT, in Outgoing Call Proceeding call state N3, having received a telephony 7 kHz fallback allowed SETUP message, is capable of sending a CONNECT message containing a BC = UDI/TA and enters the Active call state N10.	
Cross reference		
Comments	Sending of CONNECT (BC = UDI/TA): fallback did not occur either within the IUT or at the destination user.	

TTP11_04	Reference to EN 300 267-1 [3]: 6.5.1 c), 6.6	Other relevant reference:
TSS reference	NT7VAC/TL7/ORIG/FBA	
Selection criteria	R 1.1 AND MCn 21.1	
Test purpose	Verify that the IUT, in Call Delivered call state N4, having received a telephony 7 kHz fallback allowed SETUP message, is capable of sending a CONNECT message containing a BC = UDI/TA and enters the Active call state N10.	
Cross reference		
Comments	Sending of CONNECT (BC = UDI/TA): fallback did not occur either within the IUT or at the destination user.	

TTP11_05	Reference to EN 300 267-1 [3]: 6.5.1 c), 6.6	Other relevant reference:
TSS reference	NT7VAC/TL7/ORIG/FBA	
Selection criteria	R 1.1 AND MCn 21.1	
Test purpose	Verify that the IUT, in Outgoing Call Proceeding call state N3, having received a telephony 7 kHz fallback allowed SETUP message, is capable of sending a CONNECT message containing a BC = speech and enters the Active call state N10.	
Cross reference		
Comments	Sending of CONNECT (BC = speech): fallback, to the telephony 3,1 kHz teleservice occurred beyond the destination interface of the network component under test.	

TTP11_06	Reference to EN 300 267-1 [3]: 6.5.1 c), 6.6	Other relevant reference:
TSS reference	NT7VAC/TL7/ORIG/FBA	
Selection criteria	R 1.1 AND MCn 21.1	
Test purpose	Verify that the IUT, in Call Delivered call state N4, having received a telephony 7 kHz fallback allowed SETUP message, is capable of sending a CONNECT message containing a BC = speech and enters the Active call state N10.	
Cross reference		
Comments	Sending of CONNECT (BC = speech): fallback, to the telephony 3,1 kHz teleservice occurred beyond the destination interface of the network component under test.	

TTP11_07	Reference to EN 300 267-1 [3]: 6.5.1 d), 6.6	Other relevant reference:
TSS reference	NT7VAC/TL7/ORIG/FBA	
Selection criteria	R 1.1 AND MCn 21.1	
Test purpose	Verify that the IUT, in Idle call state N0, on receipt of a telephony 7 kHz fallback allowed SETUP message, is capable of sending a CALL PROCEEDING, PROGRESS or ALERTING message containing a PI = #5 and a BC = speech and enters the relevant basic call state.	
Cross reference		
Comments	Sending of CALL PROCEEDING, PROGRESS or ALERTING: fallback occurred, to the telephony 3,1 kHz teleservice, within the network component under test.	

TTP11_08	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2, 6.5.3, 6.6	Other relevant reference: EN 300 403-1 [1] 5.3.4.1, 5.1.4, 5.1.5.2
TSS reference	NT7VAC/TL7/ORIG/FBA	
Selection criteria	R 1.1 AND MCn 21.1	
Test purpose	Verify that the IUT, in Overlap Sending call state N2, on receipt of a telephony 7 kHz fallback allowed SETUP message, is capable of sending a DISCONNECT message containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP11_01.	
Comments	According to basic call requirements, when a complete called party information is not received before the mandatory timer T302 expires, the IUT shall send a DISCONNECT message with the appropriate cause value.	

TTP11_09	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2, 6.5.3, 6.6	Other relevant reference: EN 300 403-1 [1] 5.2.5.4, 5.3.4.1
TSS reference	NT7VAC/TL7/ORIG/FBA	
Selection criteria	R 1.1 AND MCn 21.1	
Test purpose	Verify that the IUT, in Outgoing Call Proceeding call state N3, having received a telephony 7 kHz fallback allowed SETUP message, is capable of sending a DISCONNECT message containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP11_02.	
Comments	According to basic call requirements, in Outgoing Call Proceeding call state N3, when the SETUP message has been delivered on point to point data link, if the IUT does not receive an ALERTING, CONNECT or DISCONNECT message prior to the expiration of timer T310, then the network shall send a DISCONNECT.	

TTP11_10	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2, 6.5.4, 6.6	Other relevant reference: EN 300 403-1 [1] 5.1.3
TSS reference	NT7VAC/TL7/ORIG/FBA	
Selection criteria	R 1.1 AND MCn 21.1	
Test purpose	Verify that the IUT, in Idle call state N0, on receipt of a telephony 7 kHz fallback allowed SETUP message, not containing any called number information, sends a SETUP ACKNOWLEDGE message, containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law and enters the Overlap sending call state N2.	
Cross reference	Related GTP: GTP11_03.	
Comments		

TTP11_11	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2, 6.5.4, 6.6	Other relevant reference: EN 300 403-1 [1] 5.4
TSS reference	NT7VAC/TL7/ORIG/FBA	
Selection criteria	R 1.1 AND MCn 21.1	
Test purpose	Verify that the IUT, in Idle call state N0, on receipt of a telephony 7 kHz fallback allowed SETUP message with a sending complete indication, is capable of sending a PROGRESS or an ALERTING or a CALL PROCEEDING message, containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law and enters the relevant basic call state.	
Cross reference	Related GTP: GTP11_04.	
Comments		

TTP11_12	Reference to EN 300 267-1 [3]: 6.7	Other relevant reference: EN 300 403-1 [1] 5.1.6
TSS reference	NT7VAC/TL7/ORIG/FBA	
Selection criteria	R 1.1 AND MCn 21.1	
Test purpose	Verify that the IUT, in Idle call state N0, on receipt of a telephony 7 kHz fallback allowed SETUP message without a sending complete indication, is capable of sending a SETUP ACKNOWLEDGE, a CALL PROCEEDING, an ALERTING, a PROGRESS or a CONNECT message containing a Progress indicator information element with a progress description #1 "call is not end-to-end ISDN, further call progress information may be available in-band" and enters the relevant basic call state.	
Cross reference		
Comments	This test purpose covers interworking with the PSTN where fallback is allowed by the calling user.	

TTP11_13	Reference to EN 300 267-1 [3]: 6.7	Other relevant reference: EN 300 403-1 [1] 5.1.6
TSS reference	NT7VAC/TL7/ORIG/FBA	
Selection criteria	R 1.1 AND MCn 21.1	
Test purpose	Verify that the IUT, in Idle call state N0, on receipt of a telephony 7 kHz fallback allowed SETUP message with a sending complete indication, is capable of sending a CALL PROCEEDING, an ALERTING, a PROGRESS or a CONNECT message containing a Progress indicator information element with a progress description #1 "call is not end-to-end ISDN, further call progress information may be available in-band" and enters the relevant basic call state.	
Cross reference		
Comments	This test purpose covers interworking with the PSTN where fallback is allowed by the calling user.	

5.3.1.2   Fallback not allowed

TTP12_01	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2, 6.5.3, 6.6	Other relevant reference: EN 300 403-1 [1] 5.3.4.1, 5.1.4, 5.1.5.2
TSS reference	NT7VAC/TL7/ORIG/FBN	
Selection criteria	R 1.1	
Test purpose	Verify that the IUT, in Overlap Sending call state N2, having received a SETUP message containing a single BC = UDI/TA and a HLC = telephony, and not containing a LLC, is capable of sending a DISCONNECT message containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP12_01.	
Comments	According to basic call requirements, when a complete called party information is not received before the mandatory timer T302 expires, the IUT shall send a DISCONNECT message with the appropriate cause value.	

TTP12_02	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2, 6.5.3, 6.6	Other relevant reference: EN 300 403-1 [1] 5.2.5.4, 5.3.4.1
TSS reference	NT7VAC/TL7/ORIG/FBN	
Selection criteria	R 1.1	
Test purpose	Verify that the IUT, in Outgoing Call Proceeding call state N3, having received a telephony 7 kHz fallback not allowed SETUP message, is capable of sending a DISCONNECT message containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP12_02.	
Comments	According to basic call requirements, in Outgoing Call Proceeding call state N3, when the SETUP message has been delivered on point to point data link, if the IUT does not receive an ALERTING, CONNECT or DISCONNECT message prior to the expiration of timer T310, then the network shall send a DISCONNECT.	

TTP12_03	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2, 6.5.4, 6.6	Other relevant reference: EN 300 403-1 [1] 5.1.3
TSS reference	NT7VAC/TL7/ORIG/FBN	
Selection criteria	R 1.1	
Test purpose	Verify that the IUT, in Idle call state N0, on receipt a telephony 7 kHz fallback not allowed SETUP message, not containing any called number information, sends a SETUP ACKNOWLEDGE message, containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law and enters the Overlap sending call state N2.	
Cross reference	Related GTP: GTP12_03.	
Comments		

TTP12_04	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2, 6.5.4, 6.6	Other relevant reference: EN 300 403-1 [1] 5.4
TSS reference	NT7VAC/TL7/ORIG/FBN	
Selection criteria	R 1.1	
Test purpose	Verify that the IUT, in Idle call state N0, on receipt a telephony 7 kHz fallback not allowed SETUP message, containing a sending complete indication, is capable of sending a PROGRESS or an ALERTING or a CALL PROCEEDING message, containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law and enters the relevant basic call state.	
Cross reference	Related GTP: GTP12_04.	
Comments		

TTP12_05	Reference to EN 300 267-1 [3]: 6.7	Other relevant reference: EN 300 403-1 [1] 5.1.1, 5.1.5.1
TSS reference	NT7VAC/TL7/ORIG/FBN	
Selection criteria	R 1.1	
Test purpose	Verify that the IUT, in Idle call state N0, on receipt of a telephony 7 kHz fallback not allowed SETUP message with a sending complete indication, is capable of initiating call clearing by sending a RELEASE COMPLETE message containing a Cause information element, with its cause value set to #65 "bearer capability not implemented" and enters the Null call state N0.	
Cross reference		
Comments	This test purpose covers attempted interworking with the PSTN, where fallback is not allowed by the calling user.	

TTP12_06	Reference to EN 300 267-1 [3]: 6.7	Other relevant reference: EN 300 403-1 [1] 5.1.5.2, 5.3.3
TSS reference	NT7VAC/TL7/ORIG/FBN	
Selection criteria	R 1.1	
Test purpose	Verify that the IUT, in Overlap Sending call state N2, having received a telephony 7 kHz fallback not allowed SETUP message, is capable of initiating call clearing by sending a DISCONNECT message containing a Cause information element, with its cause value set to #65 "bearer capability not implemented" and enters the Disconnect indication call state N12.	
Cross reference		
Comments	This test purpose covers attempted interworking with the PSTN, where fallback is not allowed by the calling user.	

5.3.1.3   Connection management

TTP13_01	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2, 6.5.3, 6.6	Other relevant reference: EN 300 403-1 [1] 5.3.4
TSS reference	NT7VAC/TL7/ORIG/CMN	
Selection criteria	R 1.1	
Test purpose	Verify that the IUT, at the originating interface, in Active call state N10, with a call of the telephony 7 kHz teleservice in progress in a 7 kHz mode, is capable of sending a DISCONNECT message, containing a PI = #8, and of presenting a tone or announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP13_01.	
Comments	According to basic call requirements, in Active call state N10, on receipt of a DISCONNECT message from the called user, the IUT shall send a DISCONNECT message to the calling user.	

5.3.2   Destination interface

5.3.2.1   Fallback allowed

5.3.2.1.1   Requirements at the coincident S and T reference point or for interworking with private ISDNs

TTP21_01	Reference to EN 300 267-1 [3]: 6.5.2 a), 6.6 a)	Other relevant reference:
TSS reference	NT7VAC/TL7/DEST/FBA/ST_T	
Selection criteria	R 1.1 AND MCn 21.2	
Test purpose	Verify that the IUT, in Idle call state N0, is capable of sending a SETUP message containing two BCs, with the first BC = speech and the second BC = UDI/TA, a HLC = telephony, and not containing an LLC and enters the Call present call state N6.	
Cross reference		
Comments		

TTP21_02	Reference to EN 300 267-1 [3]: 6.5.2 c), 6.6 c)	Other relevant reference:
TSS reference	NT7VAC/TL7/DEST/FBA/ST_T	
Selection criteria	R 1.1 AND MCn 21.2	
Test purpose	Verify that the IUT, in Call Present call state N6, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a CONNECT message, not containing a BC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference	Related GTP: GTP221_01.	
Comments		

TTP21_03	Reference to EN 300 267-1 [3]: 6.5.2 c), 6.6 c)	Other relevant reference:
TSS reference	NT7VAC/TL7/DEST/FBA/ST_T	
Selection criteria	R 1.1 AND MCn 21.2	
Test purpose	Verify that the IUT, in Call Received call state N7, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a CONNECT message, not containing a BC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference	Related GTP: GTP221_02.	
Comments		

TTP21_04	Reference to EN 300 267-1 [3]: 6.5.2 c), 6.6 c)	Other relevant reference:
TSS reference	NT7VAC/TL7/DEST/FBA/ST_T	
Selection criteria	R 1.1 AND MCn 21.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a CONNECT message, not containing a BC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference	Related GTP: GTP221_03.	
Comments		

TTP21_05	**Reference to EN 300 267-1 [3]:** 6.5.2 c), 6.6 c)	**Other relevant reference:**
TSS reference	NT7VAC/TL7/DEST/FBA/ST_T	
Selection criteria	R 1.1 AND MCn 21.2	
Test purpose	Verify that the IUT, in Call Present call state N6, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC = speech, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments		

TTP21_06	**Reference to EN 300 267-1 [3]:** 6.5.2 c), 7.6 c)	**Other relevant reference:**
TSS reference	NT7VAC/TL7/DEST/FBA/ST_T	
Selection criteria	R 1.1 AND MCn 21.2	
Test purpose	Verify that the IUT, in Call Received call state N7, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC = speech, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments		

TTP21_07	**Reference to EN 300 267-1 [3]:** 6.5.2 c), 6.6 c)	**Other relevant reference:**
TSS reference	NT7VAC/TL7/DEST/FBA/ST_T	
Selection criteria	R 1.1 AND MCn 21.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC = speech, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments		

TTP21_08	**Reference to EN 300 267-1 [3]:** 6.5.2 c), 6.6 c)	**Other relevant reference:**
TSS reference	NT7VAC/TL7/DEST/FBA ST_T	
Selection criteria	R 1.1 AND MCn 21.2	
Test purpose	Verify that the IUT, in Call Present call state N6, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC = UDI/TA, assumes that fallback has not occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments		

TTP21_09	**Reference to EN 300 267-1 [3]:** 6.5.2 c), 7.6 c)	**Other relevant reference:**
TSS reference	NT7VAC/TL7/DEST/FBA ST_T	
Selection criteria	R 1.1 AND MCn 21.2	
Test purpose	Verify that the IUT, in Call Received call state N7, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC = UDI/TA, assumes that fallback has not occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments		

TTP21_10	Reference to EN 300 267-1 [3]: 6.5.2 c), 6.6 c)	Other relevant reference:
TSS reference	NT7VAC/TL7/DEST/FBA/ST_T	
Selection criteria	R 1.1 AND MCn 21.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC = UDI/TA, assumes that fallback has not occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments		

TTP21_11	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2, 6.5.3, 6.6	Other relevant reference: EN 300 403-1 [1] 5.3.4.1, 5.3.2 e)
TSS reference	NT7VAC/TL7/DEST/FBA/ST_T	
Selection criteria	R 1.1 AND MCn 21.2 AND MCn 2.2 [5] AND MCn 2.4 [5]	
Test purpose	Verify that the IUT, in Overlap Receiving call state N25, having sent a telephony 7 kHz fallback allowed SETUP message, delivered on a point to point data link, is capable of sending a DISCONNECT message containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP21_01.	
Comments	According to basic call requirements, when the SETUP message has been sent via the broadcast data link, to indicate a network disconnect indication, IUT shall send a RELEASE message.	

TTP21_12	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2, 6.5.3, 6.6	Other relevant reference: EN 300 403-1 [1] 5.3.4.1, 5.3.2 e)
TSS reference	NT7VAC/TL7/DEST/FBA/ST_T	
Selection criteria	R 1.1 AND MCn 21.2 AND MCn 2.4 [5]	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a telephony 7 kHz fallback allowed SETUP message, delivered on a point to point data link, is capable of sending a DISCONNECT message containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP21_02.	
Comments	According to basic call requirements, when the SETUP message has been sent via the broadcast data link, to indicate a network disconnect indication, IUT shall send a RELEASE message.	

5.3.2.1.2   Requirements for interworking with private ISDNs

TTP21_13	Reference to EN 300 267-1 [3]: 6.6 d)	Other relevant reference:
TSS reference	NT7VAC/TL7/DEST/FBA/PT	
Selection criteria	R 1.1 AND R 3.2 AND MCn 21.2	
Test purpose	Verify that the IUT, in the Call Present call state N6, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a CALL PROCEEDING message, containing a PI = #5 "interworking has occurred and has resulted in a telecommunications service change", no BC and no HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred enters the Call Proceeding call state N9.	
Cross reference		
Comments	Fallback occurs within the private ISDN.	

TTP21_14	Reference to EN 300 267-1 [3]: 6.6 d)	Other relevant reference:
TSS reference	NT7VAC/TL7/DEST/FBA/PT	
Selection criteria	R 1.1 AND R 3.2 AND MCn 21.2	
Test purpose	Verify that the IUT, in Call Present call state N6, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of an ALERTING message, containing a PI = #5 "interworking has occurred and has resulted in a telecommunications service change", but not containing a BC or HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Call received call state N7.	
Cross reference		
Comments	Fallback was allowed and occurred in the private ISDN.	

TTP21_15	Reference to EN 300 267-1 [3]: 6.6 d)	Other relevant reference:
TSS reference	NT7VAC/TL7/DEST/FBA/PT	
Selection criteria	R 1.1 AND R 3.2 AND MCn 21.2	
Test purpose	Verify that the IUT, in Call Received call state N7, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a PROGRESS message, containing a PI = #5 "interworking has occurred and has resulted in a telecommunications service change", but not containing a BC or HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and remains in the same state.	
Cross reference		
Comments	Fallback was allowed and occurred in the private ISDN.	

TTP21_16	Reference to EN 300 267-1 [3]: 6.6 d)	Other relevant reference:
TSS reference	NT7VAC/TL7/DEST/FBA/PT	
Selection criteria	R 1.1 AND R 3.2 AND MCn 21.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of an ALERTING message, containing a PI = #5 "interworking has occurred and has resulted in a telecommunications service change", no BC and no HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Call Received call state N7.	
Cross reference		
Comments	Fallback occurs within the private ISDN.	

TTP21_17	Reference to EN 300 267-1 [3]: 6.6 d)	Other relevant reference:
TSS reference	NT7VAC/TL7/DEST/FBA/PT	
Selection criteria	R 1.1 AND R 3.2 AND MCn 21.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a PROGRESS message, containing a PI = #5 "interworking has occurred and has resulted in a telecommunications service change", no BC and no HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and remains in the same call state.	
Cross reference		
Comments	Fallback occurs within the private ISDN.	

TTP21_18	Reference to EN 300 267-1 [3]: 6.6 d)	Other relevant reference:
TSS reference	NT7VAC/TL7/DEST/FBA/PT	
Selection criteria	R 1.1 AND R 3.2 AND MCn 21.2	
Test purpose	Verify that the IUT, in the Call Present call state N6, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a CALL PROCEEDING message, containing a PI = #5 "interworking has occurred and has resulted in a telecommunications service change", a BC = speech and no HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Call Proceeding call state N9.	
Cross reference		
Comments	Fallback occurs within the private ISDN.	

TTP21_19	Reference to EN 300 267-1 [3]: 6.6 d), 5.6.2.2 g)	Other relevant reference:
TSS reference	NT7VAC/TL7/DEST/FBA/PT	
Selection criteria	R 1.1 AND R 3.2 AND MCn 21.2	
Test purpose	Verify that the IUT, in Call Present call state N6, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of an ALERTING message, containing a PI = #5 "interworking has occurred and has resulted in a telecommunications service change", a BC = speech and no HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Call received call state N7.	
Cross reference	Related GTP: GTP221_21.	
Comments	Fallback was allowed and occurred in the private ISDN.	

TTP21_20	Reference to EN 300 267-1 [3]: 6.6 d), 5.6.2.2 g)	Other relevant reference:
TSS reference	NT7VAC/TL7/DEST/FBA/PT	
Selection criteria	R 1.1 AND R 3.2 AND MCn 21.2	
Test purpose	Verify that the IUT, in Call Received call state N7, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a PROGRESS message, containing a PI = #5 "interworking has occurred and has resulted in a telecommunications service change", BC = speech and no HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and remains in the same state.	
Cross reference	Related GTP: GTP221_22.	
Comments	Fallback was allowed and occurred in the private ISDN.	

TTP21_21	Reference to EN 300 267-1 [3]: 6.6 d)	Other relevant reference:
TSS reference	NT7VAC/TL7/DEST/FBA/PT	
Selection criteria	R 1.1 AND R 3.2 AND MCn 21.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of an ALERTING message, containing a PI = #5 "interworking has occurred and has resulted in a telecommunications service change", BC = speech and no HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Call Received call state N7.	
Cross reference		
Comments	Fallback occurs within the private ISDN	

TTP21_22	Reference to EN 300 267-1 [3]: 6.6 d)	Other relevant reference:
TSS reference	NT7VAC/TL7/DEST/FBA/PT	
Selection criteria	R 1.1 AND R 3.2 AND MCn 21.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a PROGRESS message, containing a PI = #5 "interworking has occurred and has resulted in a telecommunications service change", a BC = speech and no HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and remains in the same call state.	
Cross reference		
Comments	Fallback occurs within the private ISDN.	

5.3.2.2 Fallback not allowed

TTP22_01	Reference to EN 300 267-1 [3]: 6.5.2 1), 6.6 first bullet item	Other relevant reference:
TSS reference	NT7VAC/TL7/DEST/FBN	
Selection criteria	R 1.1	
Test purpose	Verify that the IUT, in Idle call state N0, is capable of sending a SETUP message containing a single BC = UDI/TA and a HLC = telephony, and not containing a LLC and enters the Call present call state N6.	
Cross reference		
Comments		

TTP22_02	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2, 6.5.3, 6.6	Other relevant reference: EN 300 403-1 [1] 5.3.4.1
TSS reference	NT7VAC/TL7/DEST/FBN	
Selection criteria	R 1.1 AND MCn 2.2 [5] AND MCn 2.4 [5]	
Test purpose	Verify that the IUT, in Overlap Receiving call state N25, having sent a SETUP message, delivered on a point to point data link, containing a single BC = UDI/TA and a HLC = telephony, and not containing a LLC, is capable of sending a DISCONNECT message containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP22_04.	
Comments	According to basic call requirements, when the SETUP message has been sent via the broadcast data link, to indicate a network disconnect indication, IUT shall send a RELEASE message.	

TTP22_03	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2, 6.5.3, 6.6	Other relevant reference: EN 300 403-1 [1] 5.3.4.1
TSS reference	NT7VAC/TL7/DEST/FBN	
Selection criteria	R 1.1 AND MCn 2.4 [5]	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a telephony 7 kHz fallback not allowed SETUP message, delivered on a point to point data link, is capable of sending a DISCONNECT message containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP22_05.	
Comments	According to basic call requirements, when the SETUP message has been sent via the broadcast data link, to indicate a network disconnect indication, IUT shall send a RELEASE message.	

5.3.2.3 Connection management

TTP23_01	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2, 6.5.3, 6.6	Other relevant reference: EN 300 403-1 [1] 5.3.4
TSS reference	NT7VAC/TL7/DEST/CMN	
Selection criteria	R 1.1	
Test purpose	Verify that the IUT, at the destination interface, in Active call state N10, with a call of the telephony 7 kHz teleservice in progress in a 7 kHz mode, is capable of sending a DISCONNECT message, containing a PI = #8, and of presenting a tone or announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP23_01.	
Comments	According to basic call requirements, in Active call state N10, on receipt of a DISCONNECT message from the calling user, the IUT shall send a DISCONNECT message to the called user.	

5.4   Videotelephony teleservice

5.4.1   Calling network interface

5.4.1.1   Fallback allowed

VTP11_01	Reference to EN 300 267-1 [3]: 7.6, 7.5.1 b)	Other relevant reference: EN 300 403-1 [1] 5.1.5.1
TSS reference	NT7VAC/VTL/ORIG/FBA	
Selection criteria	R 1.2 AND MCn 21.1 AND MCn 22.1	
Test purpose	Verify that the IUT, in Outgoing Call Proceeding call state N3, having received a SETUP message containing two BCs, with the first BC = speech and the second BC = UDI/TA, and two HLCs, with the first HLC = telephony and the second HLC = videotelephony_ic, and not containing a LLC, and on completion of a successful subscription check for the prime service, is capable of sending a CONNECT message and enters the Active call state N10.	
Cross reference		
Comments	Receipt of videotelephony fallback allowed SETUP: optional subscription check for prime service succeeded.	

VTP11_02	Reference to EN 300 267-1 [3]: 7.5.1 b), 7.6	Other relevant reference: EN 300 403-1 [1] 5.1.5.1, 5.3.2
TSS reference	NT7VAC/VTL/ORIG/FBA	
Selection criteria	R 1.2 AND MCn 21.1 AND MCn 22.1 AND SCn 161.1 [5]	
Test purpose	Verify that the IUT, in Idle call state N0, on receipt of a videotelephony fallback allowed SETUP message, and on failure of the subscription check for the prime service, releases the call by sending a RELEASE COMPLETE with cause #57 "bearer capability not authorized" and enters the Null call state N0.	
Cross reference		
Comments	Receipt of videotelephony fallback allowed SETUP: optional subscription check for prime service failed.	

VTP11_03	Reference to EN 300 267-1 [3]: 7.5.1 c), 7.6	Other relevant reference:
TSS reference	NT7VAC/VTL/ORIG/FBA	
Selection criteria	R 1.2 AND MCn 21.1 AND MCn 22.1	
Test purpose	Verify that the IUT, in Outgoing Call Proceeding call state N3, having received a videotelephony fallback allowed SETUP message, is capable of sending a CONNECT message containing a BC = UDI/TA and a HLC = videotelephony_ic and enters the Active call state N10.	
Cross reference		
Comments	Sending of CONNECT (BC = UDI/TA, HLC = videotelephony_ic): fallback did not occur either within the IUT or at the destination user.	

VTP11_04	Reference to EN 300 267-1 [3]: 7.5.1 c), 7.6	Other relevant reference:
TSS reference	NT7VAC/VTL/ORIG/FBA	
Selection criteria	R 1.2 AND MCn 21.1 AND MCn 22.1	
Test purpose	Verify that the IUT, in Call Delivered call state N4, having received a videotelephony fallback allowed SETUP message, is capable of sending a CONNECT message containing a BC = UDI/TA and a HLC = videotelephony_ic and enters the Active call state N10.	
Cross reference		
Comments	Sending of CONNECT (BC = UDI/TA, HLC = videotelephony_ic): fallback did not occur either within the IUT or at the destination user.	

VTP11_05	Reference to EN 300 267-1 [3]: 6.5.2 c), 7.5.1 c), 7.6	Other relevant reference:
TSS reference	NT7VAC/VTL/ORIG/FBA	
Selection criteria	R 1.2 AND MCn 21.1 AND MCn 22.1	
Test purpose	Verify that the IUT, in Outgoing Call Proceeding call state N3, having received a videotelephony fallback allowed SETUP message, is capable of sending a CONNECT message containing a BC = UDI/TA and a HLC = telephony and enters the Active call state N10.	
Cross reference		
Comments	Sending of CONNECT (BC = UDI/TA, HLC = telephony): fallback, to the telephony 7 kHz teleservice occurred beyond the destination interface of the network component under test.	

VTP11_06	Reference to EN 300 267-1 [3]: 6.5.2 c), 7.5.1 c), 7.6	Other relevant reference:
TSS reference	NT7VAC/VTL/ORIG/FBA	
Selection criteria	R 1.2 AND MCn 21.1 AND MCn 22.1	
Test purpose	Verify that the IUT, in Call Delivered call state N4, having received a videotelephony fallback allowed SETUP message, is capable of sending a CONNECT message containing a BC = UDI/TA and a HLC = telephony and enters the Active call state N10.	
Cross reference		
Comments	Sending of CONNECT (BC = UDI/TA, HLC = telephony): fallback, to the telephony 7 kHz teleservice occurred beyond the destination interface of the network component under test.	

VTP11_07	Reference to EN 300 267-1 [3]: 7.5.1 c), 7.6	Other relevant reference:
TSS reference	NT7VAC/VTL/ORIG/FBA	
Selection criteria	R 1.2 AND MCn 21.1 AND MCn 22.1	
Test purpose	Verify that the IUT, in Outgoing Call Proceeding call state N3, having received a videotelephony fallback allowed SETUP message, is capable of sending a CONNECT message containing a BC = speech and a HLC = telephony and enters the Active call state N10.	
Cross reference		
Comments	Sending of CONNECT (BC = speech, HLC = telephony): fallback, to the telephony 3,1 kHz teleservice occurred beyond the destination interface of the network component under test.	

VTP11_08	Reference to EN 300 267-1 [3]: 7.5.1 c), 7.6	Other relevant reference:
TSS reference	NT7VAC/VTL/ORIG/FBA	
Selection criteria	R 1.2 AND MCn 21.1 AND MCn 22.1	
Test purpose	Verify that the IUT, in Call Delivered call state N4, having received a videotelephony fallback allowed SETUP message, is capable of sending a CONNECT message containing a BC = speech and a HLC = telephony and enters the Active call state N10.	
Cross reference		
Comments	Sending of CONNECT (BC = speech, HLC = telephony): fallback, to the telephony 3,1 kHz teleservice occurred beyond the destination interface of the network component under test.	

VTP11_09	Reference to EN 300 267-1 [3]:	Other relevant reference:
	7.5.1 c), 7.6	
TSS reference	NT7VAC/VTL/ORIG/FBA	
Selection criteria	R 1.2 AND MCn 21.1 AND MCn 22.1	
Test purpose	Verify that the IUT, in Call Delivered call state N4, having received a videotelephony fallback allowed SETUP message, is capable of sending a CONNECT message containing a BC = speech and no HLC and enters the Active call state N10.	
Cross reference		
Comments	Sending of CONNECT (BC = speech, no HLC): fallback, to the telephony 3,1 kHz teleservice occurred beyond the destination interface of the network component under test.	

VTP11_10	Reference to EN 300 267-1 [3]:	Other relevant reference:
	7.5.1 d), 7.6	
TSS reference	NT7VAC/VTL/ORIG/FBA	
Selection criteria	R 1.2 AND MCn 21.1 AND MCn 22.1	
Test purpose	Verify that the IUT, in Idle call state N0, on receipt of a videotelephony fallback allowed SETUP message, is capable of sending a CALL PROCEEDING, PROGRESS or ALERTING message containing a PI = #5, and a BC = speech, and a HLC = telephony or no and enters the relevant basic call state.	
Cross reference		
Comments	Sending of CALL PROCEEDING, PROGRESS or ALERTING: fallback occurred, to the telephony 3,1 kHz teleservice, within the network component under test.	

VTP11_11	Reference to EN 300 267-1 [3]:	Other relevant reference:
	5.5.2, 5.6.2, 7.5.3, 7.6	EN 300 403-1 [1] 5.3.4.1, 5.1.4, 5.1.5.2
TSS reference	NT7VAC/VTL/ORIG/FBA	
Selection criteria	R 1.2 AND MCn 21.1 AND MCn 22.1	
Test purpose	Verify that the IUT, in Overlap Sending call state N2, on receipt of a videotelephony fallback allowed SETUP message, is capable of sending a DISCONNECT message containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP11_05.	
Comments	According to basic call requirements, when a complete called party information is not received before the mandatory timer T302 expires, the IUT shall send a DISCONNECT message with the appropriate cause value.	

VTP11_12	Reference to EN 300 267-1 [3]:	Other relevant reference:
	5.5.2, 5.6.2, 7.5.3, 7.6	EN 300 403-1 [1] 5.2.5.4, 5.3.4.1
TSS reference	NT7VAC/VTL/ORIG/FBA	
Selection criteria	R 1.2 AND MCn 21.1 AND MCn 22.1	
Test purpose	Verify that the IUT, in Outgoing Call Proceeding call state N3, having received a videotelephony fallback allowed SETUP message, is capable of sending a DISCONNECT message containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP11_06.	
Comments	According to basic call requirements, in Outgoing Call Proceeding call state N3, when the SETUP message has been delivered on point to point data link, if the IUT does not receive an ALERTING, CONNECT or DISCONNECT message prior to the expiration of timer T310, then the network shall send a DISCONNECT.	

VTP11_13	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2, 7.5.4, 7.6	Other relevant reference: EN 300 403-1 [1] 5.1.3
TSS reference	NT7VAC/VTL/ORIG/FBA	
Selection criteria	R 1.2 AND MCn 21.1 AND MCn 22.1	
Test purpose	Verify that the IUT, in Idle call state N0, on receipt of a videotelephony fallback allowed SETUP message not containing any called number information, sends a SETUP ACKNOWLEDGE message, containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law and enters the Overlap sending call state N2.	
Cross reference	Related GTP: GTP11_07.	
Comments		

VTP11_14	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2, 7.5.4, 7.6	Other relevant reference: EN 300 403-1 [1] 5.4
TSS reference	NT7VAC/VTL/ORIG/FBA	
Selection criteria	R 1.2 AND MCn 21.1 AND MCn 22.1	
Test purpose	Verify that the IUT, in Idle call state N0, on receipt of a SETUP message, of a videotelephony fallback allowed SETUP message with a sending complete indication, is capable of sending a PROGRESS or an ALERTING or a CALL PROCEEDING message, containing a PI = #8, and of simultaneously providing in-band tones announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law and enters the relevant basic call state.	
Cross reference	Related GTP: GTP11_08.	
Comments		

VTP11_15	Reference to EN 300 267-1 [3]: 7.7	Other relevant reference: EN 300 403-1 [1] 5.1.6
TSS reference	NT7VAC/VTL/ORIG/FBA	
Selection criteria	R 1.2 AND MCn 21.1 AND MCn 22.1	
Test purpose	Verify that the IUT, in Idle call state N0, on receipt of a videotelephony fallback allowed SETUP message without a sending complete indication, is capable of sending a SETUP ACKNOWLEDGE, a CALL PROCEEDING, an ALERTING, a PROGRESS or a CONNECT message containing a Progress indicator information element with a progress description #1 "call is not end-to-end ISDN, further call progress information may be available in-band" and enters the relevant basic call state.	
Cross reference		
Comments	This test purpose covers interworking with the PSTN where fallback is allowed by the calling user.	

VTP11_16	Reference to EN 300 267-1 [3]: 7.7	Other relevant reference: EN 300 403-1 [1] 5.1.6
TSS reference	NT7VAC/VTL/ORIG/FBA	
Selection criteria	R 1.2 AND MCn 21.1 AND MCn 22.1	
Test purpose	Verify that the IUT, in Idle call state N0, on receipt of a videotelephony fallback allowed SETUP message with a sending complete indication, is capable of sending a CALL PROCEEDING, an ALERTING, a PROGRESS or a CONNECT message containing a Progress indicator information element with a progress description #1 "call is not end-to-end ISDN, further call progress information may be available in-band" and enters the relevant basic call state.	
Cross reference		
Comments	This test purpose covers interworking with the PSTN where fallback is allowed by the calling user.	

5.4.1.2   Fallback not allowed

VTP12_01	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2, 7.5.3, 7.6	Other relevant reference: EN 300 403-1 [1] 5.3.4.1, 5.1.4, 5.1.5.2
TSS reference	NT7VAC/VTL/ORIG/FBN	
Selection criteria	R 1.2	
Test purpose	Verify that the IUT, in Overlap Sending call state N2, having received a SETUP message containing a single BC = UDI/TA and a single HLC = videotelephony_ic, and not containing a LLC, is capable of sending a DISCONNECT message containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP12_05.	
Comments	According to basic call requirements, when a complete called party information is not received before the mandatory timer T302 expires, the IUT shall send a DISCONNECT message with the appropriate cause value.	

VTP12_02	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2, 7.5.3, 7.6	Other relevant reference: EN 300 403-1 [1] 5.2.5.4, 5.3.4.1
TSS reference	NT7VAC/VTL/ORIG/FBN	
Selection criteria	R 1.2	
Test purpose	Verify that the IUT, in Outgoing Call Proceeding call state N3, having received a videotelephony fallback not allowed SETUP message, is capable of sending a DISCONNECT message containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP12_06.	
Comments	According to basic call requirements, in Outgoing Call Proceeding call state N3, when the SETUP message has been delivered on point to point data link, if the IUT does not receive an ALERTING, CONNECT or DISCONNECT message prior to the expiration of timer T310, then the network shall send a DISCONNECT.	

VTP12_03	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2, 7.5.4, 7.6	Other relevant reference: EN 300 403-1 [1] 5.1.3
TSS reference	NT7VAC/VTL/ORIG/FBN	
Selection criteria	R 1.2	
Test purpose	Verify that the IUT, in Idle call state N0, on receipt a videotelephony fallback not allowed SETUP message not containing any called number information, sends a SETUP ACKNOWLEDGE message, containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law and enters the Overlap sending call state N2.	
Cross reference	Related GTP: GTP12_07.	
Comments		

VTP12_04	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2, 7.5.4, 7.6	Other relevant reference: EN 300 403-1 [1] 5.4
TSS reference	NT7VAC/VTL/ORIG/FBN	
Selection criteria	R 1.2	
Test purpose	Verify that the IUT, in Idle call state N0, having received a videotelephony fallback not allowed SETUP message with a sending complete indication, is capable of sending a PROGRESS or an ALERTING or a CALL PROCEEDING message, containing a PI = #8, and of simultaneously providing in-band tones announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law and enters the relevant basic call state.	
Cross reference	Related GTP: GTP12_08.	
Comments		

VTP12_05	Reference to EN 300 267-1 [3]: 7.7	Other relevant reference: EN 300 403-1 [1] 5.1.1, 5.1.5.1
TSS reference	NT7VAC/VTL/ORIG/FBN	
Selection criteria	R 1.2	
Test purpose	Verify that the IUT, in Idle call state N0, on receipt of a videotelephony fallback not allowed SETUP message with a sending complete indication, is capable of initiating call clearing by sending a RELEASE COMPLETE message containing a Cause information element, with its cause value set to #65 "bearer capability not implemented" and enters the Null call state N0.	
Cross reference		
Comments	This test purpose covers attempted interworking with the PSTN, where fallback is not allowed by the calling user.	

VTP12_06	Reference to EN 300 267-1 [3]: 7.7	Other relevant reference: EN 300 403-1 [1] 5.1.5.2, 5.3.3
TSS reference	NT7VAC/VTL/ORIG/FBN	
Selection criteria	R 1.2	
Test purpose	Verify that the IUT, in Overlap Sending call state N2, having received a videotelephony fallback not allowed SETUP message, is capable of initiating call clearing by sending a DISCONNECT message containing a Cause information element, with its cause value set to #65 "bearer capability not implemented" and enters the Disconnect indication call state N12.	
Cross reference		
Comments	This test purpose covers attempted interworking with the PSTN, where fallback is not allowed by the calling user.	

5.4.1.3   Connection management

VTP13_01	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2, 7.5.3, 7.6	Other relevant reference: EN 300 403-1 [1] 5.3.4
TSS reference	NT7VAC/VTL/ORIG/CMN	
Selection criteria	R 1.2	
Test purpose	Verify that the IUT, at the originating interface, in Active call state N10, with a call of the videotelephony teleservice in progress in a 1B-channel mode, is capable of sending a DISCONNECT message containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP13_01.	
Comments	According to basic call requirements, in Active call state N10, on receipt of a DISCONNECT message from the called user, the IUT shall send a DISCONNECT message to the calling user.	

VTP13_02	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2, 7.5.3, 7.6	Other relevant reference: EN 300 403-1 [1] 5.3.4
TSS reference	NT7VAC/VTL/ORIG/CMN	
Selection criteria	R 1.2	
Test purpose	Verify that the IUT, at the originating interface, with CR1 and CR2 in Active call state N10, with a call of the videotelephony teleservice in progress in a 2B-channel mode, is capable of sending a DISCONNECT message, on CR1, containing a PI = #8, and of presenting a tone or announcement in a 3,1 kHz mode on CR1, encoded according to ITU-T Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP13_02.	
Comments	According to basic call requirements, in Active call state N10, on receipt of a DISCONNECT message from the called user, the IUT shall send a DISCONNECT message to the calling user.	

5.4.2 Destination interface

5.4.2.1 Fallback allowed

5.4.2.1.1 Requirements at the coincident S and T reference point or for interworking with private ISDNs

VTP21_01	Reference to EN 300 267-1 [3]: 7.5.2.1 a), 7.6 a)	Other relevant reference:
TSS reference	NT7VAC/VTL/DEST/FBA/ST_T	
Selection criteria	R 1.2 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in Idle call state N0, is capable of sending a SETUP message containing two BCs, with the first BC = speech and the second BC = UDI/TA, and two HLCs, with the first HLC = telephony and the second HLC = videotelephony_ic, and not containing a LLC and enters the Call present call state N6.	
Cross reference		
Comments		

VTP21_02	Reference to EN 300 267-1 [3]: 7.5.2.1 c), 7.6 c)	Other relevant reference:
TSS reference	NT7VAC/VTL/DEST/FBA/ST_T	
Selection criteria	R 1.2 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in Call Present call state N6, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing neither a BC nor a HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments		

VTP21_03	Reference to EN 300 267-1 [3]: 7.5.2.1 c), 7.6 c)	Other relevant reference:
TSS reference	NT7VAC/VTL/DEST/FBA/ST_T	
Selection criteria	R 1.2 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in Call Received call state N7, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing neither BC nor a HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference	Related GTP: GTP221_02.	
Comments		

VTP21_04	Reference to EN 300 267-1 [3]: 7.5.2.1 c), 7.6 c)	Other relevant reference:
TSS reference	NT7VAC/VTL/DEST/FBA/ST_T	
Selection criteria	R 1.2 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing neither BC nor a HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference	Related GTP: GTP221_03.	
Comments		

VTP21_05	Reference to EN 300 267-1 [3]: 7.5.2.1 c), 7.6 c)	Other relevant reference:
TSS reference	NT7VAC/VTL/DEST/FBA/ST_T	
Selection criteria	R 1.2 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in Call Present call state N6, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC = speech, but not containing a HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments		

VTP21_06	Reference to EN 300 267-1 [3]: 7.5.2.1 c), 7.6 c)	Other relevant reference:
TSS reference	NT7VAC/VTL/DEST/FBA/ST_T	
Selection criteria	R 1.2 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in Call Received call state N7, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC = speech, but not containing a HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments		

VTP21_07	Reference to EN 300 267-1 [3]: 7.5.2.1 c), 7.6 c)	Other relevant reference:
TSS reference	NT7VAC/VTL/DEST/FBA/ST_T	
Selection criteria	R 1.2 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC = speech, but not containing a HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments		

VTP21_08	Reference to EN 300 267-1 [3]: 7.5.2.1 c), 7.6 c)	Other relevant reference:
TSS reference	NT7VAC/VTL/DEST/FBA/ST_T	
Selection criteria	R 1.2 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in Call present call state N6, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC = UDI/TA and a HLC = videotelephony_ic, assumes that fallback has not occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments		

VTP21_09	Reference to EN 300 267-1 [3]: 7.5.2.1 c), 7.6 c)	Other relevant reference:
TSS reference	NT7VAC/VTL/DEST/FBA/ST_T	
Selection criteria	R 1.2 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in Call Received call state N7, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC = UDI/TA and a HLC = videotelephony_ic, assumes that fallback has not occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments		

VTP21_10	Reference to EN 300 267-1 [3]: 7.5.2.1 c), 7.6 c)	Other relevant reference:
TSS reference	NT7VAC/VTL/DEST/FBA/ST_T	
Selection criteria	R 1.2 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC = UDI/TA and a HLC = videotelephony_ic, assumes that fallback has not occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments		

VTP21_11	Reference to EN 300 267-1 [3]: 7.5.2.1 c), 7.6 c)	Other relevant reference:
TSS reference	NT7VAC/VTL/DEST/FBA/ST_T	
Selection criteria	R 1.2 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in Call Received call state N7, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC = UDI/TA and a HLC = telephony, assumes that fallback to telephony 7 kHz has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments		

VTP21_12	Reference to EN 300 267-1 [3]: 7.5.2.1 c), 7.6 c)	Other relevant reference:
TSS reference	NT7VAC/VTL/DEST/FBA/ST_T	
Selection criteria	R 1.2 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC = UDI/TA and a HLC = telephony, assumes that fallback to telephony 7 kHz has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments		

VTP21_13	Reference to EN 300 267-1 [3]: 7.5.2.1 c), 7.6 c)	Other relevant reference:
TSS reference	NT7VAC/VTL/DEST/FBA/ST_T	
Selection criteria	R 1.2 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in Call Received call state N7, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC = speech and a HLC = telephony, assumes that fallback to telephony 3,1 kHz has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments		

VTP21_14	Reference to EN 300 267-1 [3]: 7.5.2.1 c), 7.6 c)	Other relevant reference:
TSS reference	NT7VAC/VTL/DEST/FBA/ST_T	
Selection criteria	R 1.2 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC = speech and a HLC = telephony, assumes that fallback to telephony 3,1 kHz has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments		

VTP21_15	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2, 7.5.3, 7.6	Other relevant reference: EN 300 403-1 [1] 5.3.4.1
TSS reference	NT7VAC/VTL/DEST/FBA/ST_T	
Selection criteria	R 1.2 AND MCn 21.2 AND MCn 22.2AND MCn 2.2 [5] AND MCn 2.4 [5]	
Test purpose	Verify that the IUT, in Overlap Receiving call state N25, having sent a videotelephony fallback allowed SETUP message, delivered on a point to point data link, is capable of sending a DISCONNECT message containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP21_03.	
Comments	According to basic call requirements, when the SETUP message has been sent via the broadcast data link, to indicate a network disconnect indication, IUT shall send a RELEASE message.	

VTP21_16	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2, 7.5.3, 7.6	Other relevant reference: EN 300 403-1 [1] 5.3.4.1
TSS reference	NT7VAC/VTL/DEST/FBA/ST_T	
Selection criteria	R 1.2 AND MCn 21.2 AND MCn 22.2 AND MCn 2.4 [5]	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videotelephony fallback allowed SETUP message, delivered on a point to point data link, is capable of sending a DISCONNECT message containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP21_04.	
Comments	According to basic call requirements, when the SETUP message has been sent via the broadcast data link, to indicate a network disconnect indication, IUT shall send a RELEASE message.	

5.4.2.1.2 Requirements at the coincident S and T reference point

VTP21_17	Reference to EN 300 267-1 [3]: 7.5.2.1 c)	Other relevant reference:
TSS reference	NT7VAC/VTL/DEST/FBA/ST	
Selection criteria	R 1.2 AND R 3.1 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in Call Received call state N7, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, not containing a BC, but containing a HLC = videotelephony_ic, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments		

VTP21_18	Reference to EN 300 267-1 [3]: 7.5.2.1 c)	Other relevant reference:
TSS reference	NT7VAC/VTL/DEST/FBA/ST	
Selection criteria	R 1.2 AND R 3.1 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, not containing a BC, but containing a HLC = videotelephony_nex, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments		

VTP21_19	Reference to EN 300 267-1 [3]: 7.5.2.1 c)	Other relevant reference:
TSS reference	NT7VAC/VTL/DEST/FBA/ST	
Selection criteria	R 1.2 AND R 3.1 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in Call Present call state N6, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC = UDI/TA, but not containing a HLC, assumes that fallback to the telephony 7 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments		

VTP21_20	Reference to EN 300 267-1 [3]: 7.5.2.1 c)	Other relevant reference:
TSS reference	NT7VAC/VTL/DEST/FBA/ST	
Selection criteria	R 1.2 AND R 3.1 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in Call Received call state N7, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC = UDI/TA, but not containing a HLC, assumes that fallback to the telephony 7 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments		

VTP21_21	Reference to EN 300 267-1 [3]: 7.5.2.1 c),	Other relevant reference:
TSS reference	NT7VAC/VTL/DEST/FBA/ST	
Selection criteria	R 1.2 AND R 3.1 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC = UDI/TA, but not containing a HLC, assumes that fallback to the telephony 7 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments		

VTP21_22	Reference to EN 300 267-1 [3]: 7.5.2.1 c)	Other relevant reference:
TSS reference	NT7VAC/VTL/DEST/FBA/ST	
Selection criteria	R 1.2 AND R 3.1 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in Call present call state N6, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing a HLC = telephony, but not containing a BC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments		

VTP21_23	Reference to EN 300 267-1 [3]: 7.5.2.1 c)	Other relevant reference:
TSS reference	NT7VAC/VTL/DEST/FBA/ST	
Selection criteria	R 1.2 AND R 3.1 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in Call Received call state N7, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing a HLC = telephony, but not containing a BC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments		

VTP21_24	Reference to EN 300 267-1 [3]: 7.5.2.1 c)	Other relevant reference:
TSS reference	NT7VAC/VTL/DEST/FBA/ST	
Selection criteria	R 1.2 AND R 3.1 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing a HLC = telephony, but not containing a BC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments		

5.4.2.1.3   Requirements for interworking with private ISDNs

VTP21_25	Reference to EN 300 267-1 [3]: 7.6 d)	Other relevant reference:
TSS reference	NT7VAC/VTL/DEST/FBA/PT	
Selection criteria	R 1.2 AND R 3.2 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in the Call Present call state N6, having sent a videotelephony fallback allowed SETUP message, on receipt of a CALL PROCEEDING message, containing a PI = #5 "interworking has occurred and has resulted in a telecommunications service change" and no BC or HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Incoming Call Proceeding call state N9.	
Cross reference		
Comments	Fallback occurs within the private ISDN.	

VTP21_26	Reference to EN 300 267-1 [3]: 7.6 d)	Other relevant reference:
TSS reference	NT7VAC/VTL/DEST/FBA/PT	
Selection criteria	R 1.2 AND R 3.2 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in Call Present call state N6, having sent a videotelephony fallback allowed SETUP message, on receipt of an ALERTING message, containing a PI = #5 but not containing either a BC or a HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Call received call state N7.	
Cross reference		
Comments	Fallback was allowed and occurred in the private ISDN.	

VTP21_27	Reference to EN 300 267-1 [3]: 7.6 d)	Other relevant reference:
TSS reference	NT7VAC/VTL/DEST/FBA/PT	
Selection criteria	R 1.2 AND R 3.2 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in Call Received call state N7, having sent a videotelephony fallback allowed SETUP message, on receipt of a PROGRESS message, containing a PI = #5 but not containing either a BC or a HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and remains in the same call state.	
Cross reference	Related GTP: GTP221_22.	
Comments	Fallback was allowed and occurred in the private ISDN.	

VTP21_28	Reference to EN 300 267-1 [3]: 7.6 d)	Other relevant reference:
TSS reference	NT7VAC/VTL/DEST/FBA/PT	
Selection criteria	R 1.2 AND R 3.2 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videotelephony fallback allowed SETUP message, on receipt of an ALERTING message, containing a PI = #5 "interworking has occurred and has resulted in a telecommunications service change" and no BC or HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Call Received call state N7.	
Cross reference		
Comments	Fallback occurs within the private ISDN.	

VTP21_29	Reference to EN 300 267-1 [3]: 7.6 d),	Other relevant reference:
TSS reference	NT7VAC/VTL/DEST/FBA/PT	
Selection criteria	R 1.2 AND R 3.2 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videotelephony fallback allowed SETUP message, on receipt of a PROGRESS message, containing a PI = #5 but not containing either a BC or a HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and remains in the same call state.	
Cross reference		
Comments	Fallback was allowed and occurred in the private ISDN.	

VTP21_30	Reference to EN 300 267-1 [3]: 7.6 d)	Other relevant reference:
TSS reference	NT7VAC/VTL/DEST/FBA/PT	
Selection criteria	R 1.2 AND R 3.2 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in Call Present call state N6, having sent a videotelephony fallback allowed SETUP message, on receipt of a CALL PROCEEDING message, containing a PI = #5, a BC = speech and no HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Incoming call proceeding call state N9.	
Cross reference		
Comments	Fallback was allowed and occurred in the private ISDN.	

VTP21_31	Reference to EN 300 267-1 [3]: 7.6 d)	Other relevant reference:
TSS reference	NT7VAC/VTL/DEST/FBA/PT	
Selection criteria	R 1.2 AND R 3.2 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in Call Present call state N6, having sent a videotelephony fallback allowed SETUP message, on receipt of an ALERTING message, containing a PI = #5, a BC = speech and no HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Call received call state N7.	
Cross reference		
Comments	Fallback was allowed and occurred in the private ISDN.	

VTP21_32	Reference to EN 300 267-1 [3]: 7.6 d)	Other relevant reference:
TSS reference	NT7VAC/VTL/DEST/FBA/PT	
Selection criteria	R 1.2 AND R 3.2 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in Call Received call state N7, having sent a videotelephony fallback allowed SETUP message, on receipt of a PROGRESS message, containing a PI = #5, a BC = speech and no HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and remains in the same call state.	
Cross reference		
Comments	Fallback was allowed and occurred in the private ISDN.	

VTP21_33	Reference to EN 300 267-1 [3]: 7.6 d)	Other relevant reference:
TSS reference	NT7VAC/VTL/DEST/FBA/PT	
Selection criteria	R 1.2 AND R 3.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videotelephony fallback allowed SETUP message, on receipt of an ALERTING message, containing a PI = #5, a BC = speech and no HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Call received call state N7.	
Cross reference		
Comments	Fallback was allowed and occurred in the private ISDN.	

VTP21_34	Reference to EN 300 267-1 [3]: 7.6 d)	Other relevant reference:
TSS reference	NT7VAC/VTL/DEST/FBA/PT	
Selection criteria	R 1.2 AND R 3.2 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videotelephony fallback allowed SETUP message, on receipt of a PROGRESS message, containing a PI = #5, a BC = speech and no HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and remains in the same call state.	
Cross reference		
Comments	Fallback was allowed and occurred in the private ISDN.	

VTP21_35	Reference to EN 300 267-1 [3]: 7.6 d)	Other relevant reference:
TSS reference	NT7VAC/VTL/DEST/FBA/PT	
Selection criteria	R 1.2 AND R 3.2 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in the Call Present call state N6, having sent a videotelephony fallback allowed SETUP message, on receipt of a CALL PROCEEDING message, containing a PI = #5 "interworking has occurred and has resulted in a telecommunications service change" and a BC = speech and HLC = telephony, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Incoming Call Proceeding call state N9.	
Cross reference		
Comments	Fallback occurs within the private ISDN.	

VTP21_36	Reference to EN 300 267-1 [3]: 7.6 d)	Other relevant reference:
TSS reference	NT7VAC/VTL/DEST/FBA/PT	
Selection criteria	R 1.2 AND R 3.2 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in Call Present call state N6, having sent a videotelephony fallback allowed SETUP message, on receipt of an ALERTING message, containing a PI = #5, a BC = speech and HLC = telephony, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Call received call state N7.	
Cross reference		
Comments	Fallback was allowed and occurred in the private ISDN.	

VTP21_37	Reference to EN 300 267-1 [3]: 7.6 d)	Other relevant reference:
TSS reference	NT7VAC/VTL/DEST/FBA/PT	
Selection criteria	R 1.2 AND R 3.2 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in Call Received call state N7, having sent a videotelephony fallback allowed SETUP message, on receipt of a PROGRESS message, containing a PI = #5, a BC = speech and HLC = telephony, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and remains in the same call state.	
Cross reference		
Comments	Fallback was allowed and occurred in the private ISDN.	

VTP21_38	Reference to EN 300 267-1 [3]: 7.6 d)	Other relevant reference:
TSS reference	NT7VAC/VTL/DEST/FBA/PT	
Selection criteria	R 1.2 AND R 3.2 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videotelephony fallback allowed SETUP message, on receipt of an ALERTING message, containing a PI = #5, a BC = speech and HLC = telephony, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Call received call state N7.	
Cross reference		
Comments	Fallback was allowed and occurred in the private ISDN.	

VTP21_39	Reference to EN 300 267-1 [3]: 7.6 d), 5.6.2.2 g)	Other relevant reference:
TSS reference	NT7VAC/VTL/DEST/FBA/PT	
Selection criteria	R 1.2 AND R 3.2 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videotelephony fallback allowed SETUP message, on receipt of a PROGRESS message, containing a PI = #5, a BC = speech and HLC = telephony, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and remains in the same call state.	
Cross reference		
Comments	Fallback was allowed and occurred in the private ISDN.	

VTP21_40	Reference to EN 300 267-1 [3]: 7.6 d)	Other relevant reference:
TSS reference	NT7VAC/VTL/DEST/FBA/PT	
Selection criteria	R 1.2 AND R 3.2 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing a PI = #5, a BC = speech and HLC = telephony, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments	Fallback was allowed and occurred in the private ISDN.	

5.4.2.2   Fallback not allowed

VTP22_01	Reference to EN 300 267-1 [3]: 7.5.2.1 1), 7.6 first bullet item	Other relevant reference:
TSS reference	NT7VAC/VTL/DEST/FBN	
Selection criteria	R 1.2	
Test purpose	Verify that the IUT, in Idle call state N0, is capable of sending a SETUP message containing a single BC = UDI/TA and a single HLC = videotelephony_ic, and not containing a LLC and enters the Call present call state N6.	
Cross reference		
Comments		

VTP22_02	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2, 7.5.3, 7.6	Other relevant reference: EN 300 403-1 [1] 5.3.4.1
TSS reference	NT7VAC/VTL/DEST/FBN	
Selection criteria	R 1.2 AND MCn 2.2 [5] AND MCn 2.4 [5]	
Test purpose	Verify that the IUT, in Overlap Receiving call state N25, having sent a videotelephony fallback not allowed SETUP message, delivered on a point to point data link, is capable of sending a DISCONNECT message containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP22_06.	
Comments	According to basic call requirements, when the SETUP message has been sent via the broadcast data link, to indicate a network disconnect indication, IUT shall send a RELEASE message.	

VTP22_03	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2, 7.5.3, 7.6	Other relevant reference: EN 300 403-1 [1] 5.3.4.1
TSS reference	NT7VAC/VTL/DEST/FBN	
Selection criteria	R 1.2 AND MCn 2.4 [5]	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videotelephony fallback not allowed SETUP message, delivered on a point to point data link, is capable of sending a DISCONNECT message containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP22_07.	
Comments	According to basic call requirements, when the SETUP message has been sent via the broadcast data link, to indicate a network disconnect indication, IUT shall send a RELEASE message.	

5.4.2.3 Connection management

VTP23_01	Reference to EN 300 267-1 [3]: 7.5.2.2, 7.6 (last paragraph)	Other relevant reference:
TSS reference	NT7VAC/VTL/DEST/CMN	
Selection criteria	R 1.2	
Test purpose	Verify that the IUT, at the destination interface, in Active call state N10 for CR1 and in the Null call state N0 for CR2, in order to establish CR2 in a videotelephony call requiring two connections, is capable of sending a SETUP message containing a single BC = UDI and a single HLC = videotelephony_sc and enters the Call present call state N6.	
Cross reference		
Comments		

VTP23_02	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2, 7.5.3, 7.6	Other relevant reference: EN 300 403-1 [1] 5.3.4
TSS reference	NT7VAC/VTL/DEST/CMN	
Selection criteria	R 1.2	
Test purpose	Verify that the IUT, at the destination interface, in Active call state N10, with a call of the videotelephony teleservice in progress in a 1B-channel mode, is capable of sending a DISCONNECT message containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP23_01.	
Comments	According to basic call requirements, in Active call state N10, on receipt of a DISCONNECT message from the calling user, the IUT shall send a DISCONNECT message to the called user.	

VTP23_03	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2, 7.5.3, 7.6	Other relevant reference: EN 300 403-1 [1] 5.3.4
TSS reference	NT7VAC/VTL/DEST/CMN	
Selection criteria	R 1.2	
Test purpose	Verify that the IUT, at the destination interface, with CR1 and CR2 in Active call state N10, with a call of the videotelephony teleservice in progress in a 2B-channel mode, is capable of sending a DISCONNECT message, on CR1, containing a PI = #8, and of presenting a tone or announcement in a 3,1 kHz mode on CR1, encoded according to ITU-T Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP23_02.	
Comments	According to basic call requirements, in Active call state N10, on receipt of a DISCONNECT message from the calling user, the IUT shall send a DISCONNECT message to the called user.	

5.5   Audiographic conference teleservice

5.5.1   Calling network interface

5.5.1.1   Fallback allowed

ATP11_01	Reference to EN 300 267-1 [3]: 8.6, 8.5.1.1 b)	Other relevant reference: EN 300 403-1 [1] 5.1.5.1
TSS reference	NT7VAC/AGC/ORIG/FBA	
Selection criteria	R 1.3 AND MCn 21.1 AND MCn 22.1	
Test purpose	Verify that the IUT, in Outgoing Call Proceeding call state N3, having received a SETUP message containing two BCs, with the first BC = speech and the second BC = UDI/TA, and two HLCs, with the first HLC = telephony and the second HLC = audiographic_ic, and not containing an LLC, and on completion of a successful subscription check for the prime service, is capable of sending a CONNECT message and enters the Active call state N10.	
Cross reference		
Comments	Receipt of audiographic conference fallback allowed SETUP: optional subscription check for prime service succeeded.	

ATP11_02	Reference to EN 300 267-1 [3]: 8.5.1.1 b), 8.6	Other relevant reference: EN 300 403-1 [1] 5.1.5.1, 5.3.2
TSS reference	NT7VAC/AGC/ORIG/FBA	
Selection criteria	R 1.3 AND MCn 21.1 AND MCn 22.1 AND SCn 161.1 [5]	
Test purpose	Verify that the IUT, in Idle call state N0, on receipt of an audiographic conference fallback allowed SETUP message, and on failure of the subscription check for the prime service, releases the call by sending a RELEASE COMPLETE with cause #57 "bearer capability not authorized" and enters the Null call state N0.	
Cross reference		
Comments	Receipt of audiographic conference fallback allowed SETUP: optional subscription check for prime service failed.	

ATP11_03	Reference to EN 300 267-1 [3]: 8.5.1.1 c), 8.6	Other relevant reference:
TSS reference	NT7VAC/AGC/ORIG/FBA	
Selection criteria	R 1.3 AND MCn 21.1 AND MCn 22.1	
Test purpose	Verify that the IUT, in Outgoing Call Proceeding call state N3, having received an audiographic conference fallback allowed SETUP message, is capable of sending a CONNECT message containing a BC = UDI/TA and a HLC = audiographic_ic and enters the Active call state N10.	
Cross reference		
Comments	Sending of CONNECT (BC = UDI/TA, HLC = audiographic_ic): fallback did not occur either within the IUT or at the destination user.	

ATP11_04	Reference to EN 300 267-1 [3]: 8.5.1.1 c), 8.6	Other relevant reference:
TSS reference	NT7VAC/AGC/ORIG/FBA	
Selection criteria	R 1.3 AND MCn 21.1 AND MCn 22.1	
Test purpose	Verify that the IUT, in Call Delivered call state N4, having received an audiographic conference fallback allowed SETUP message, is capable of sending a CONNECT message containing a BC = UDI/TA and a HLC = audiographic_ic and enters the Active call state N10.	
Cross reference		
Comments	Sending of CONNECT (BC = UDI/TA, HLC = audiographic_ic): fallback did not occur either within the IUT or at the destination user.	

ATP11_05	Reference to EN 300 267-1 [3]: 8.5.1.1 c), 8.6	Other relevant reference:
TSS reference	NT7VAC/AGC/ORIG/FBA	
Selection criteria	R 1.3 AND MCn 21.1 AND MCn 22.1	
Test purpose	Verify that the IUT, in Outgoing Call Proceeding call state N3, having received an audiographic conference fallback allowed SETUP message, is capable of sending a CONNECT message containing a BC = UDI/TA and a HLC = telephony and enters the Active call state N10.	
Cross reference		
Comments	Sending of CONNECT (BC = UDI/TA, HLC = telephony): fallback, to the telephony 7 kHz teleservice occurred beyond the destination interface of the network component under test.	

ATP11_06	Reference to EN 300 267-1 [3]: 8.5.1.1 c), 8.6	Other relevant reference:
TSS reference	NT7VAC/AGC/ORIG/FBA	
Selection criteria	R 1.3 AND MCn 21.1 AND MCn 22.1	
Test purpose	Verify that the IUT, in Call Delivered call state N4, having received an audiographic conference fallback allowed SETUP message, is capable of sending a CONNECT message containing a BC = UDI/TA and a HLC = telephony and enters the Active call state N10.	
Cross reference		
Comments	Sending of CONNECT (BC = UDI/TA, HLC = telephony): fallback, to the telephony 7 kHz teleservice occurred beyond the destination interface of the network component under test.	

ATP11_07	Reference to EN 300 267-1 [3]: 8.5.1.1 c), 8.6	Other relevant reference:
TSS reference	NT7VAC/AGC/ORIG/FBA	
Selection criteria	R 1.3 AND MCn 21.1 AND MCn 22.1	
Test purpose	Verify that the IUT, in Outgoing Call Proceeding call state N3, having received an audiographic conference fallback allowed SETUP message, is capable of sending a CONNECT message containing a BC = speech and a HLC = telephony and enters the Active call state N10.	
Cross reference		
Comments	Sending of CONNECT (BC = speech, HLC = telephony): fallback, to the telephony 3,1 kHz teleservice occurred beyond the destination interface of the network component under test.	

ATP11_08	Reference to EN 300 267-1 [3]: 8.5.1.1 c), 8.6	Other relevant reference:
TSS reference	NT7VAC/AGC/ORIG/FBA	
Selection criteria	R 1.3 AND MCn 21.1 AND MCn 22.1	
Test purpose	Verify that the IUT, in Call Delivered call state N4, having received an audiographic conference fallback allowed SETUP message, is capable of sending a CONNECT message containing a BC = speech and a HLC = telephony and enters the Active call state N10.	
Cross reference		
Comments	Sending of CONNECT (BC = speech, HLC = telephony): fallback, to the telephony 3,1 kHz teleservice occurred beyond the destination interface of the network component under test.	

ATP11_09	Reference to EN 300 267-1 [3]: 8.5.1.1 d), 8.6	Other relevant reference:
TSS reference	NT7VAC/AGC/ORIG/FBA	
Selection criteria	R 1.3 AND MCn 21.1 AND MCn 22.1	
Test purpose	Verify that the IUT, in Idle call state N0, on receipt of an audiographic conference fallback allowed SETUP message, is capable of sending a CALL PROCEEDING, PROGRESS or ALERTING message containing a PI = #5, and a BC = speech, and a HLC = telephony or no HLC and enters the relevant basic call state.	
Cross reference		
Comments	Sending of CALL PROCEEDING, PROGRESS or ALERTING: fallback occurred, to the telephony 3,1 kHz teleservice, within the network component under test.	

ATP11_10	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2, 8.5.3, 8.6	Other relevant reference: EN 300 403-1 [1] 5.3.4.1, 5.1.4, 5.1.5.2
TSS reference	NT7VAC/AGC/ORIG/FBA	
Selection criteria	R 1.3 AND MCn 21.1 AND MCn 22.1	
Test purpose	Verify that the IUT, in Overlap Sending call state N2, on receipt of an audiographic conference fallback allowed SETUP message, is capable of sending a DISCONNECT message containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP11_05.	
Comments	According to basic call requirements, when a complete called party information is not received before the mandatory timer T302 expires, the IUT shall send a DISCONNECT message with the appropriate cause value	

ATP11_11	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2, 8.5.3, 8.6	Other relevant reference: EN 300 403-1 [1] 5.2.5.4, 5.3.4.1
TSS reference	NT7VAC/AGC/ORIG/FBA	
Selection criteria	R 1.3 AND MCn 21.1 AND MCn 22.1	
Test purpose	Verify that the IUT, in Outgoing Call Proceeding call state N3, having received an audiographic conference fallback allowed SETUP message, is capable of sending a DISCONNECT message containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP11_06.	
Comments	According to basic call requirements, in Outgoing Call Proceeding call state N3, when the SETUP message has been delivered on point to point data link, if the IUT does not receive an ALERTING, CONNECT or DISCONNECT message prior to the expiration of timer T310, then the network shall send a DISCONNECT.	

ATP11_12	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2, 8.5.4, 8.6	Other relevant reference: EN 300 403-1 [1] 5.1.3
TSS reference	NT7VAC/AGC/ORIG/FBA	
Selection criteria	R 1.3 AND MCn 21.1 AND MCn 22.1	
Test purpose	Verify that the IUT, in Idle call state N0, on receipt of an audiographic conference fallback allowed SETUP message not containing any called number information, sends a SETUP ACKNOWLEDGE message, containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law and enters the Overlap sending call state N2.	
Cross reference	Related GTP: GTP11_07.	
Comments		

ATP11_13	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2, 8.5.4, 8.6	Other relevant reference: EN 300 403-1 [1] 5.4
TSS reference	NT7VAC/AGC/ORIG/FBA	
Selection criteria	R 1.3 AND MCn 21.1 AND MCn 22.1	
Test purpose	Verify that the IUT, in Idle call state N0, on receipt of a SETUP message, of an audiographic conference fallback allowed SETUP message with a sending complete indication, is capable of sending a PROGRESS or an ALERTING or a CALL PROCEEDING message, containing a PI = #8, and of simultaneously providing in-band tones announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law and enters the relevant basic call state.	
Cross reference	Related GTP: GTP11_08.	
Comments		

ATP11_14	Reference to EN 300 267-1 [3]: 8.7	Other relevant reference: EN 300 403-1 [1] 5.1.6
TSS reference	NT7VAC/AGC/ORIG/FBA	
Selection criteria	R 1.3 AND MCn 21.1 AND MCn 22.1	
Test purpose	Verify that the IUT, in Idle call state N0, on receipt of an audiographic conference fallback allowed SETUP message without a sending complete indication, is capable of sending a SETUP ACKNOWLEDGE, a CALL PROCEEDING, an ALERTING, a PROGRESS or a CONNECT message containing a Progress indicator information element with a progress description #1 "call is not end-to-end ISDN, further call progress information may be available in-band" and enters the relevant basic call state.	
Cross reference		
Comments	This test purpose covers interworking with the PSTN where fallback is allowed by the calling user.	

ATP11_15	Reference to EN 300 267-1 [3]: 8.7	Other relevant reference: EN 300 403-1 [1] 5.1.6
TSS reference	NT7VAC/AGC/ORIG/FBA	
Selection criteria	R 1.3 AND MCn 21.1 AND MCn 22.1	
Test purpose	Verify that the IUT, in Idle call state N0, on receipt of an audiographic conference fallback allowed SETUP message with a sending complete indication, is capable of sending a CALL PROCEEDING, an ALERTING, a PROGRESS or a CONNECT message containing a Progress indicator information element with a progress description #1 "call is not end-to-end ISDN, further call progress information may be available in-band" and enters the relevant basic call state.	
Cross reference		
Comments	This test purpose covers interworking with the PSTN where fallback is allowed by the calling user.	

5.5.1.2   Fallback not allowed

ATP12_01	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2, 8.5.3, 8.6	Other relevant reference: EN 300 403-1 [1] 5.3.4.1, 5.1.4, 5.1.5.2
TSS reference	NT7VAC/AGC/ORIG/FBN	
Selection criteria	R 1.3	
Test purpose	Verify that the IUT, in Overlap Sending call state N2, having received a SETUP message containing a single BC = UDI/TA and a single HLC = audiographic_ic, and not containing an LLC, is capable of sending a DISCONNECT message containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP12_06.	
Comments	According to basic call requirements, when a complete called party information is not received before the mandatory timer T302 expires, the IUT shall send a DISCONNECT message with the appropriate cause value.	

ATP12_02	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2, 8.5.3, 8.6	Other relevant reference: EN 300 403-1 [1] 5.2.5.4, 5.3.4.1
TSS reference	NT7VAC/AGC/ORIG/FBN	
Selection criteria	R 1.3	
Test purpose	Verify that the IUT, in Outgoing Call Proceeding call state N3, having received an audiographic conference fallback not allowed SETUP message, is capable of sending a DISCONNECT message containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP12_07.	
Comments	According to basic call requirements, in Outgoing Call Proceeding call state N3, when the SETUP message has been delivered on point to point data link, if the IUT does not receive an ALERTING, CONNECT or DISCONNECT message prior to the expiration of timer T310, then the network shall send a DISCONNECT.	

ATP12_03	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2, 8.5.4, 8.6	Other relevant reference: EN 300 403-1 [1] 5.1.3
TSS reference	NT7VAC/AGC/ORIG//FBN	
Selection criteria	R 1.3	
Test purpose	Verify that the IUT, in Idle call state N0, on receipt an audiographic conference fallback not allowed SETUP message not containing any called number information, sends a SETUP ACKNOWLEDGE message, containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law and enters the Overlap sending call state N2.	
Cross reference	Related GTP: GTP12_08.	
Comments		

ATP12_04	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2, 8.5.4, 8.6	Other relevant reference: EN 300 403-1 [1] 5.4
TSS reference	NT7VAC/AGC/ORIG/FBN	
Selection criteria	R 1.3	
Test purpose	Verify that the IUT, in Idle call state N0, having an audiographic conference fallback not allowed SETUP message with a sending complete indication, is capable of sending a PROGRESS or an ALERTING or a CALL PROCEEDING message, containing a PI = #8, and of simultaneously providing in-band tones announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law and enters the relevant basic call state.	
Cross reference	Related GTP: GTP12_09.	
Comments		

ATP12_05	Reference to EN 300 267-1 [3]: 8.7	Other relevant reference: EN 300 403-1 [1] 5.1.1, 5.1.5.1
TSS reference	NT7VAC/AGC/ORIG/FBN	
Selection criteria	R 1.3	
Test purpose	Verify that the IUT, in Idle call state N0, on receipt of an audiographic conference fallback not allowed SETUP message with a sending complete indication, is capable of initiating call clearing by sending a RELEASE COMPLETE message containing a Cause information element, with its cause value set to #65 "bearer capability not implemented" and enters the Null call state N0.	
Cross reference		
Comments	This test purpose covers attempted interworking with the PSTN, where fallback is not allowed by the calling user.	

ATP12_06	Reference to EN 300 267-1 [3]: 8.7	Other relevant reference: EN 300 403-1 [1] 5.1.5.2, 5.3.3
TSS reference	NT7VAC/AGC/ORIG/FBN	
Selection criteria	R 1.3	
Test purpose	Verify that the IUT, in Overlap Sending call state N2, having received an audiographic conference fallback not allowed SETUP message, is capable of initiating call clearing by sending a DISCONNECT message containing a Cause information element, with its cause value set to #65 "bearer capability not implemented" and enters the Disconnect indication call state N12.	
Cross reference		
Comments	This test purpose covers attempted interworking with the PSTN, where fallback is not allowed by the calling user.	

5.5.1.3   Connection management

ATP13_01	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2, 8.5.3, 8.6	Other relevant reference: EN 300 403-1 [1] 5.3.4
TSS reference	NT7VAC/AGC/ORIG/CMN	
Selection criteria	R 1.3	
Test purpose	Verify that the IUT, at the originating interface, in Active call state N10, with a call of the audiographic conference teleservice in progress in a 1B-channel mode, is capable of sending a DISCONNECT message containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP13_01.	
Comments	According to basic call requirements, in Active call state N10, on receipt of a DISCONNECT message from the called user, the IUT shall send a DISCONNECT message to the calling user.	

ATP13_02	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2, 8.5.3, 8.6	Other relevant reference: EN 300 403-1 [1] 5.3.4
TSS reference	NT7VAC/AGC/ORIG/CMN	
Selection criteria	R 1.3	
Test purpose	Verify that the IUT, at the originating interface, with CR1 and CR2 in Active call state N10, with a call of the audiographic conference teleservice in progress in a 2B-channel mode, is capable of sending a DISCONNECT message, on CR1, containing a PI = #8, and of presenting a tone or announcement in a 3,1 kHz mode on CR1, encoded according to ITU-T Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP13_02.	
Comments	According to basic call requirements, in Active call state N10, on receipt of a DISCONNECT message from the called user, the IUT shall send a DISCONNECT message to the calling user.	

5.5.2 Destination interface

5.5.2.1 Fallback allowed

5.5.2.1.1 Requirements at the coincident S and T reference point or for interworking with private ISDNs

ATP21_01	Reference to EN 300 267-1 [3]: 8.5.2.1 a), 8.6.1 a)	Other relevant reference:
TSS reference	NT7VAC/AGC/DEST/FBA/ST_T	
Selection criteria	R 1.3 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in Idle call state N0, is capable of sending a SETUP message containing two BCs, with the first BC = speech and the second BC = UDI/TA, and two HLCs, with the first HLC = telephony and the second HLC = audiographic_ic, and not containing an LLC and enters the Call present call state N6.	
Cross reference		
Comments		

ATP21_02	Reference to EN 300 267-1 [3]: 8.5.2.1 c), 8.6.1 c)	Other relevant reference:
TSS reference	NT7VAC/AGC/DEST/FBA/ST_T	
Selection criteria	R 1.3 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in Call Present call state N6, having sent an audiographic conference fallback allowed SETUP message, on receipt of a CONNECT message, containing neither a BC nor a HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference	Related GTP: GTP221_01.	
Comments		

ATP21_03	Reference to EN 300 267-1 [3]: 8.5.2.1 c), 8.6.1 c)	Other relevant reference:
TSS reference	NT7VAC/AGC/DEST/FBA/ST_T	
Selection criteria	R 1.3 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in Call Received call state N7, having sent an audiographic conference fallback allowed SETUP message, on receipt of a CONNECT message, containing neither BC nor a HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference	Related GTP: GTP221_02.	
Comments		

ATP21_04	Reference to EN 300 267-1 [3]: 8.5.2.1 c), 8.6.1 c)	Other relevant reference:
TSS reference	NT7VAC/AGC/DEST/FBA/ST_T	
Selection criteria	R 1.3 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent an audiographic conference fallback allowed SETUP message, on receipt of a CONNECT message, containing neither BC nor a HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference	Related GTP: GTP221_03.	
Comments		

ATP21_05	Reference to EN 300 267-1 [3]: 8.5.2.1 c), 8.6.1 c)	Other relevant reference:
TSS reference	NT7VAC/AGC/DEST/FBA/ST_T	
Selection criteria	R 1.3 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in Call Present call state N6, having sent an audiographic conference fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC = speech, but not containing a HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments		

ATP21_06	Reference to EN 300 267-1 [3]: 8.5.2.1 c), 8.6.1 c)	Other relevant reference:
TSS reference	NT7VAC/AGC/DEST/FBA/ST_T	
Selection criteria	R 1.3 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in Call Received call state N7, having sent an audiographic conference fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC = speech, but not containing a HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments		

ATP21_07	Reference to EN 300 267-1 [3]: 8.5.2.1 c), 8.6.1 c)	Other relevant reference:
TSS reference	NT7VAC/AGC/DEST/FBA/ST_T	
Selection criteria	R 1.3 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent an audiographic conference fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC = speech, but not containing a HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments		

ATP21_08	Reference to EN 300 267-1 [3]: 8.5.2.1 c), 8.6.1 c)	Other relevant reference:
TSS reference	NT7VAC/AGC/DEST/FBA/ST_T	
Selection criteria	R 1.3 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in Call present call state N6, having sent an audiographic conference fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC = UDI/TA and a HLC = audiographic_ic, assumes that fallback has not occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments		

ATP21_09	**Reference to EN 300 267-1 [3]:** 8.5.2.1 c), 8.6.1 c)	**Other relevant reference:**
TSS reference	NT7VAC/AGC/DEST/FBA/ST_T	
Selection criteria	R 1.3 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in Call Received call state N7, having sent an audiographic conference fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC = UDI/TA and a HLC = audiographic_ic, assumes that fallback has not occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments		

ATP21_10	**Reference to EN 300 267-1 [3]:** 8.5.2.1 c), 8.6.1 c)	**Other relevant reference:**
TSS reference	NT7VAC/AGC/DEST/FBA/ST_T	
Selection criteria	R 1.3 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent an audiographic conference fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC = UDI/TA and a HLC = audiographic_ic, assumes that fallback has not occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments		

ATP21_11	**Reference to EN 300 267-1 [3]:** 8.5.2.1 c), 8.6.1 c)	**Other relevant reference:**
TSS reference	NT7VAC/AGC/DEST/FBA/ST_T	
Selection criteria	R 1.3 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in Call Received call state N7, having sent an audiographic conference fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC = UDI/TA and a HLC = telephony, assumes that fallback to telephony 7 kHz has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments		

ATP21_12	**Reference to EN 300 267-1 [3]:** 8.5.2.1 c), 8.6.1 c)	**Other relevant reference:**
TSS reference	NT7VAC/AGC/DEST/FBA/ST_T	
Selection criteria	R 1.3 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent an audiographic conference fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC = UDI/TA and a HLC = telephony, assumes that fallback to telephony 7 kHz has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments		

ATP21_13	**Reference to EN 300 267-1 [3]:** 8.5.2.1 c), 8.6.1 c)	**Other relevant reference:**
TSS reference	NT7VAC/AGC/DEST/FBA/ST_T	
Selection criteria	R 1.3 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in Call Received call state N7, having sent an audiographic conference fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC = speech and a HLC = telephony, assumes that fallback to telephony 3,1 kHz has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments		

ATP21_14	Reference to EN 300 267-1 [3]: 8.5.2.1 c), 8.6.1 c)	Other relevant reference:
TSS reference	NT7VAC/AGC/DEST/FBA/ST_T	
Selection criteria	R 1.3 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent an audiographic conference fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC = speech and a HLC = telephony, assumes that fallback to telephony 3,1 kHz has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments		

ATP21_15	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2, 8.5.3, 8.6.1	Other relevant reference: EN 300 403-1 [1] 5.3.4.1
TSS reference	NT7VAC/AGC/DEST/FBA/ST_T	
Selection criteria	R 1.3 AND MCn 2.2 [5] AND MCn 2.4 [5] AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in Overlap Receiving call state N25, having sent an audiographic conference fallback allowed SETUP message, delivered on a point to point data link, is capable of sending a DISCONNECT message containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP21_03.	
Comments	According to basic call requirements, when the SETUP message has been sent via the broadcast data link, to indicate a network disconnect indication, IUT shall send a RELEASE message.	

ATP21_16	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2, 8.5.3, 8.6.1	Other relevant reference: EN 300 403-1 [1] 5.3.4.1
TSS reference	NT7VAC/AGC/DEST/FBA/ST_T	
Selection criteria	R 1.3 AND MCn 2.4 [5] AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent an audiographic conference fallback allowed SETUP message, delivered on a point to point data link, is capable of sending a DISCONNECT message containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP21_04.	
Comments	According to basic call requirements, when the SETUP message has been sent via the broadcast data link, to indicate a network disconnect indication, IUT shall send a RELEASE message.	

5.5.2.1.2   Requirements at the coincident S and T reference point

ATP21_17	Reference to EN 300 267-1 [3]: 8.5.2.1 c)	Other relevant reference:
TSS reference	NT7VAC/AGC/DEST/FBA/ST	
Selection criteria	R 1.3 AND R 3.1 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in Call Received call state N7, having sent an audiographic conference fallback allowed SETUP message, on receipt of a CONNECT message, not containing a BC, but containing a HLC = audiographic_ic, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments		

ATP21_18	Reference to EN 300 267-1 [3]: 8.5.2.1 c)	Other relevant reference:
TSS reference	NT7VAC/AGC/DEST/FBA/ST	
Selection criteria	R 1.3 AND R 3.1 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent an audiographic conference fallback allowed SETUP message, on receipt of a CONNECT message, not containing a BC, but containing a HLC = audiographic conference_nex, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments		

ATP21_19	Reference to EN 300 267-1 [3]: 8.5.2.1 c)	Other relevant reference:
TSS reference	NT7VAC/AGC/DEST/FBA/ST	
Selection criteria	R 1.3 AND R 3.1 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in Call Present call state N6, having sent an audiographic conference fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC = UDI/TA, but not containing a HLC, assumes that fallback to the telephony 7 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments		

ATP21_20	Reference to EN 300 267-1 [3]: 8.5.2.1 c)	Other relevant reference:
TSS reference	NT7VAC/AGC/DEST/FBA/ST	
Selection criteria	R 1.3 AND R 3.1 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in Call Received call state N7, having sent an audiographic conference fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC = UDI/TA, but not containing a HLC, assumes that fallback to the telephony 7 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments		

ATP21_21	Reference to EN 300 267-1 [3]: 8.5.2.1 c),	Other relevant reference:
TSS reference	NT7VAC/AGC/DEST/FBA/ST	
Selection criteria	R 1.3 AND R 3.1 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent an audiographic conference fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC = UDI/TA, but not containing a HLC, assumes that fallback to the telephony 7 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments		

ATP21_22	Reference to EN 300 267-1 [3]: 8.5.2.1 c)	Other relevant reference:
TSS reference	NT7VAC/AGC/DEST/FBA/ST	
Selection criteria	R 1.3 AND R 3.1 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in Call present call state N6, having sent an audiographic conference fallback allowed SETUP message, on receipt of a CONNECT message, containing a HLC = telephony, but not containing a BC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments		

ATP21_23	Reference to EN 300 267-1 [3]: 8.5.2.1 c)	Other relevant reference:
TSS reference	NT7VAC/AGC/DEST/FBA/ST	
Selection criteria	R 1.3 AND R 3.1 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in Call Received call state N7, having sent an audiographic conference fallback allowed SETUP message, on receipt of a CONNECT message, containing a HLC = telephony, but not containing a BC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments		

ATP21_24	Reference to EN 300 267-1 [3]: 8.5.2.1 c)	Other relevant reference:
TSS reference	NT7VAC/AGC/DEST/FBA/ST	
Selection criteria	R 1.3 AND R 3.1 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent an audiographic conference fallback allowed SETUP message, on receipt of a CONNECT message, containing a HLC = telephony, but not containing a BC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments		

5.5.2.1.3   Requirements for interworking with private ISDNs

ATP21_25	Reference to EN 300 267-1 [3]: 8.6.1 d)	Other relevant reference:
TSS reference	NT7VAC/AGC/DEST/FBA/PT	
Selection criteria	R 1.3 AND R 3.2 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in the Call Present call state N6, having sent an audiographic conference fallback allowed SETUP message, on receipt of a CALL PROCEEDING message, containing a PI = #5 "interworking has occurred and has resulted in a telecommunications service change" and no BC or HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Incoming Call Proceeding call state N9.	
Cross reference		
Comments	Fallback occurs within the private ISDN.	

ATP21_26	Reference to EN 300 267-1 [3]: 8.6.1 d)	Other relevant reference:
TSS reference	NT7VAC/AGC/DEST/FBA/PT	
Selection criteria	R 1.3 AND R 3.2 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in Call Present call state N6, having sent an audiographic conference fallback allowed SETUP message, on receipt of an ALERTING message, containing a PI = #5 but not containing either a BC or a HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Call received call state N7.	
Cross reference		
Comments	Fallback was allowed and occurred in the private ISDN.	

ATP21_27	Reference to EN 300 267-1 [3]: 8.6.1 d)	Other relevant reference:
TSS reference	NT7VAC/AGC/DEST/FBA/PT	
Selection criteria	R 1.3 AND R 3.2 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in Call Received call state N7, having sent an audiographic conference fallback allowed SETUP message, on receipt of a PROGRESS message, containing a PI = #5 but not containing either a BC or a HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and remains in the same call state.	
Cross reference		
Comments	Fallback was allowed and occurred in the private ISDN.	

ATP21_28	Reference to EN 300 267-1 [3]: 8.6.1 d)	Other relevant reference:
TSS reference	NT7VAC/AGC/DEST/FBA/PT	
Selection criteria	R 1.3 AND R 3.2 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent an audiographic conference fallback allowed SETUP message, on receipt of an ALERTING message, containing a PI = #5 "interworking has occurred and has resulted in a telecommunications service change" and no BC or HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Call Received call state N7.	
Cross reference		
Comments	Fallback occurs within the private ISDN.	

ATP21_29	Reference to EN 300 267-1 [3]: 8.6.1 d),	Other relevant reference:
TSS reference	NT7VAC/AGC/DEST/FBA/PT	
Selection criteria	R 1.3 AND R 3.2 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent an audiographic conference fallback allowed SETUP message, on receipt of a PROGRESS message, containing a PI = #5 but not containing either a BC or a HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and remains in the same call state.	
Cross reference		
Comments	Fallback was allowed and occurred in the private ISDN.	

ATP21_30	Reference to EN 300 267-1 [3]: 8.6.1 d)	Other relevant reference:
TSS reference	NT7VAC/AGC/DEST/FBA/PT	
Selection criteria	R 1.3 AND R 3.2 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in Call Present call state N6, having sent an audiographic conference fallback allowed SETUP message, on receipt of a CALL PROCEEDING message, containing a PI = #5, a BC = speech and no HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Incoming call proceeding call state N9.	
Cross reference		
Comments	Fallback was allowed and occurred in the private ISDN.	

ATP21_31	Reference to EN 300 267-1 [3]: 8.6.1 d)	Other relevant reference:
TSS reference	NT7VAC/AGC/DEST/FBA/PT	
Selection criteria	R 1.3 AND R 3.2 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in Call Present call state N6, having sent an audiographic conference fallback allowed SETUP message, on receipt of an ALERTING message, containing a PI = #5, a BC = speech and no HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Call received call state N7.	
Cross reference		
Comments	Fallback was allowed and occurred in the private ISDN.	

ATP21_32	Reference to EN 300 267-1 [3]: 8.6.1 d)	Other relevant reference:
TSS reference	NT7VAC/AGC/DEST/FBA/PT	
Selection criteria	R 1.3 AND R 3.2 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in Call Received call state N7, having sent an audiographic conference fallback allowed SETUP message, on receipt of a PROGRESS message, containing a PI = #5, a BC = speech and no HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and remains in the same call state.	
Cross reference		
Comments	Fallback was allowed and occurred in the private ISDN.	

ATP21_33	Reference to EN 300 267-1 [3]: 8.6.1 d)	Other relevant reference:
TSS reference	NT7VAC/AGC/DEST/FBA/PT	
Selection criteria	R 1.3 AND R 3.2 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent an audiographic conference fallback allowed SETUP message, on receipt of an ALERTING message, containing a PI = #5, a BC = speech and no HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Call received call state N7.	
Cross reference		
Comments	Fallback was allowed and occurred in the private ISDN.	

ATP21_34	Reference to EN 300 267-1 [3]: 8.6.1 d)	Other relevant reference:
TSS reference	NT7VAC/AGC/DEST/FBA/PT	
Selection criteria	R 1.3 AND R 3.2 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent an audiographic conference fallback allowed SETUP message, on receipt of a PROGRESS message, containing a PI = #5, a BC = speech and no HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and remains in the same call state.	
Cross reference		
Comments	Fallback was allowed and occurred in the private ISDN.	

ATP21_35	Reference to EN 300 267-1 [3]: 8.6.1 d)	Other relevant reference:
TSS reference	NT7VAC/AGC/DEST/FBA/PT	
Selection criteria	R 1.3 AND R 3.2 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in the Call Present call state N6, having sent an audiographic conference fallback allowed SETUP message, on receipt of a CALL PROCEEDING message, containing a PI = #5 "interworking has occurred and has resulted in a telecommunications service change" and a BC = speech and HLC = telephony, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Incoming Call Proceeding call state N9.	
Cross reference		
Comments	Fallback occurs within the private ISDN	

ATP21_36	Reference to EN 300 267-1 [3]: 8.6.1 d)	Other relevant reference:
TSS reference	NT7VAC/AGC/DEST/FBA/PT	
Selection criteria	R 1.3 AND R 3.2 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in Call Present call state N6, having sent an audiographic conference fallback allowed SETUP message, on receipt of an ALERTING message, containing a PI = #5, a BC = speech and HLC = telephony, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Call received call state N7.	
Cross reference		
Comments	Fallback was allowed and occurred in the private ISDN.	

ATP21_37	Reference to EN 300 267-1 [3]: 8.6.1 d)	Other relevant reference:
TSS reference	NT7VAC/AGC/DEST/FBA/PT	
Selection criteria	R 1.3 AND R 3.2 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in Call Received call state N7, having sent an audiographic conference fallback allowed SETUP message, on receipt of a PROGRESS message, containing a PI = #5, a BC = speech and HLC = telephony, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and remains in the same call state.	
Cross reference		
Comments	Fallback was allowed and occurred in the private ISDN.	

ATP21_38	Reference to EN 300 267-1 [3]: 8.6.1 d)	Other relevant reference:
TSS reference	NT7VAC/AGC/DEST/FBA/PT	
Selection criteria	R 1.3 AND R 3.2 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent an audiographic conference fallback allowed SETUP message, on receipt of an ALERTING message, containing a PI = #5, a BC = speech and HLC = telephony, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Call received call state N7.	
Cross reference		
Comments	Fallback was allowed and occurred in the private ISDN.	

ATP21_39	Reference to EN 300 267-1 [3]: 8.6.1 d)	Other relevant reference:
TSS reference	NT7VAC/AGC/DEST/FBA/PT	
Selection criteria	R 1.3 AND R 3.2 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent an audiographic conference fallback allowed SETUP message, on receipt of a PROGRESS message, containing a PI = #5, a BC = speech and HLC = telephony, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and remains in the same call state.	
Cross reference		
Comments	Fallback was allowed and occurred in the private ISDN.	

ATP21_40	Reference to EN 300 267-1 [3]: 8.6.1 d)	Other relevant reference:
TSS reference	NT7VAC/AGC/DEST/FBA/PT	
Selection criteria	R 1.3 AND R 3.2 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent an audiographic conference fallback allowed SETUP message, on receipt of a CONNECT message, containing a PI = #5, a BC = speech and HLC = telephony, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments	Fallback was allowed and occurred in the private ISDN.	

5.5.2.2   Fallback not allowed

ATP22_01	Reference to EN 300 267-1 [3]: 8.5.2 1), 8.6.1	Other relevant reference:
TSS reference	NT7VAC/AGC/DEST/FBN	
Selection criteria	R 1.3	
Test purpose	Verify that the IUT, in Idle call state N0, is capable of sending a SETUP message containing a single BC = UDI/TA and a single HLC = audiographic_ic, and not containing an LLC and enters the Call present call state N6.	
Cross reference		
Comments		

ATP22_02	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2, 8.5.3, 8.6	Other relevant reference: EN 300 403-1 [1] 5.3.4.1
TSS reference	NT7VAC/AGC/DEST/FBN	
Selection criteria	R 1.3 AND MCn 2.2 [5] AND MCn 2.4 [5]	
Test purpose	Verify that the IUT, in Overlap Receiving call state N25, having sent an audiographic conference fallback not allowed SETUP message, delivered on a point to point data link, is capable of sending a DISCONNECT message containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP22_06.	
Comments	According to basic call requirements, when the SETUP message has been sent via the broadcast data link, to indicate a network disconnect indication, IUT shall send a RELEASE message	

ATP22_03	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2, 8.5.3, 8.6	Other relevant reference: EN 300 403-1 [1] 5.3.4.1
TSS reference	NT7VAC/AGC/DEST/FBN	
Selection criteria	R 1.3 AND MCn 2.4 [5]	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent an audiographic conference fallback not allowed SETUP message, delivered on a point to point data link, is capable of sending a DISCONNECT message containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP22_07.	
Comments	According to basic call requirements, when the SETUP message has been sent via the broadcast data link, to indicate a network disconnect indication, IUT shall send a RELEASE message	

5.5.2.3   Connection management

ATP23_01	Reference to EN 300 267-1 [3]: 8.5.2.2, 8.6.2	Other relevant reference:
TSS reference	NT7VAC/AGC/DEST/CMN	
Selection criteria	R 1.3	
Test purpose	Verify that the IUT, at the destination interface, in Active call state N10 for CR1 and in the Null call state N0 for CR2, in order to establish CR2 in an audiographic conference call requiring two connections, is capable of sending a SETUP message containing a single BC = UDI and a single HLC = audiographic_sc and enters the Call present call state N6.	
Cross reference		
Comments		

ATP23_02	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2, 8.5.3, 8.6	Other relevant reference: EN 300 403-1 [1] 5.3.4
TSS reference	NT7VAC/AGC/DEST/CMN	
Selection criteria	R 1.3	
Test purpose	Verify that the IUT, at the destination interface, in Active call state N10, with a call of the Audiographic conference teleservice in progress in a 1B-channel mode, is capable of sending a DISCONNECT message containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP23_01.	
Comments	According to basic call requirements, in Active call state N10, on receipt of a DISCONNECT message from the calling user, the IUT shall send a DISCONNECT message to the called user.	

ATP23_03	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2, 8.5.3, 8.6	Other relevant reference: EN 300 403-1 [1] 5.3.4
TSS reference	NT7VAC/AGC/DEST/CMN	
Selection criteria	R 1.3	
Test purpose	Verify that the IUT, at the destination interface, with CR1 and CR2 in Active call state N10, with a call of the audiographic conference teleservice in progress in a 2B-channel mode, is capable of sending a DISCONNECT message, on CR1, containing a PI = #8, and of presenting a tone or announcement in a 3,1 kHz mode on CR1, encoded according to ITU-T Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP23_02.	
Comments	According to basic call requirements, in Active call state N10, on receipt of a DISCONNECT message from the calling user, the IUT shall send a DISCONNECT message to the called user.	

5.6   Videoconference teleservice

5.6.1   Calling network interface

5.6.1.1   Fallback allowed

CTP11_01	Reference to EN 300 267-1 [3]: 9.6, 9.5.1.1 b)	Other relevant reference: EN 300 403-1 [1] 5.1.5.1
TSS reference	NT7VAC/VCF/ORIG/FBA	
Selection criteria	R 1.4 AND MCn 21.1 AND MCn 22.1	
Test purpose	Verify that the IUT, in Outgoing Call Proceeding call state N3, having received a SETUP message containing two BCs, with the first BC = speech and the second BC = UDI/TA, and two HLCs, with the first HLC = telephony and the second HLC = videoconference_ic, and not containing a LLC, and on completion of a successful subscription check for the prime service, is capable of sending a CONNECT message and enters the Active call state N10.	
Cross reference		
Comments	Receipt of videoconference fallback allowed SETUP: optional subscription check for prime service succeeded.	

CTP11_02	Reference to EN 300 267-1 [3]: 9.5.1.1 b), 9.6	Other relevant reference: EN 300 403-1 [1] 5.1.5.1, 5.3.2
TSS reference	NT7VAC/VCF/ORIG/FBA	
Selection criteria	R 1.4 AND MCn 21.1 AND MCn 22.1 AND SCn 161.1 [5]	
Test purpose	Verify that the IUT, in Idle call state N0, on receipt of a videoconference fallback allowed SETUP message, and on failure of the subscription check for the prime service, releases the call by sending a RELEASE COMPLETE with cause #57 "bearer capability not authorized" and enters the Null call state N0.	
Cross reference		
Comments	Receipt of videoconference fallback allowed SETUP: optional subscription check for prime service failed.	

CTP11_03	Reference to EN 300 267-1 [3]: 9.5.1.1 c), 9.6	Other relevant reference:
TSS reference	NT7VAC/VCF/ORIG/FBA	
Selection criteria	R 1.4 AND MCn 21.1 AND MCn 22.1	
Test purpose	Verify that the IUT, in Outgoing Call Proceeding call state N3, having received a videoconference fallback allowed SETUP message, is capable of sending a CONNECT message containing a BC = UDI/TA and a HLC = videoconference_ic and enters the Active call state N10.	
Cross reference		
Comments	Sending of CONNECT (BC = UDI/TA, HLC = videoconference_ic): fallback did not occur either within the IUT or at the destination user.	

CTP11_04	Reference to EN 300 267-1 [3]: 59.5.1.1 c), 9.6	Other relevant reference:
TSS reference	NT7VAC/VCF/ORIG/FBA	
Selection criteria	R 1.4 AND MCn 21.1 AND MCn 22.1	
Test purpose	Verify that the IUT, in Call Delivered call state N4, having received a videoconference fallback allowed SETUP message, is capable of sending a CONNECT message containing a BC = UDI/TA and a HLC = videoconference_ic and enters the Active call state N10.	
Cross reference		
Comments	Sending of CONNECT (BC = UDI/TA, HLC = videoconference_ic): fallback did not occur either within the IUT or at the destination user.	

CTP11_05	Reference to EN 300 267-1 [3]: 6.5.2.1 c), 9.5.1.1 c), 9.6	Other relevant reference:
TSS reference	NT7VAC/VCF/ORIG/FBA	
Selection criteria	R 1.4 AND MCn 21.1 AND MCn 22.1	
Test purpose	Verify that the IUT, in Outgoing Call Proceeding call state N3, having received a videoconference fallback allowed SETUP message, is capable of sending a CONNECT message containing a BC = UDI/TA and a HLC = telephony and enters the Active call state N10.	
Cross reference		
Comments	Sending of CONNECT (BC = UDI/TA, HLC = telephony): fallback, to the telephony 7 kHz teleservice occurred beyond the destination interface of the network component under test.	

CTP11_06	Reference to EN 300 267-1 [3]: 6.5.2.1 c), 9.5.1.1 c), 9.6	Other relevant reference:
TSS reference	NT7VAC/VCF/ORIG/FBA	
Selection criteria	R 1.4 AND MCn 21.1 AND MCn 22.1	
Test purpose	Verify that the IUT, in Call Delivered call state N4, having received a videoconference fallback allowed SETUP message, is capable of sending a CONNECT message containing a BC = UDI/TA and a HLC = telephony and enters the Active call state N10.	
Cross reference		
Comments	Sending of CONNECT (BC = UDI/TA, HLC = telephony): fallback, to the telephony 7 kHz teleservice occurred beyond the destination interface of the network component under test.	

CTP11_07	Reference to EN 300 267-1 [3]: 9.5.1.1 c), 9.6	Other relevant reference:
TSS reference	NT7VAC/VCF/ORIG/FBA	
Selection criteria	R 1.4 AND MCn 21.1 AND MCn 22.1	
Test purpose	Verify that the IUT, in Outgoing Call Proceeding call state N3, having received a videoconference fallback allowed SETUP message, is capable of sending a CONNECT message containing a BC = speech and a HLC = telephony and enters the Active call state N10.	
Cross reference		
Comments	Sending of CONNECT (BC = speech, HLC = telephony): fallback, to the telephony 3,1 kHz teleservice occurred beyond the destination interface of the network component under test.	

CTP11_08	Reference to EN 300 267-1 [3]: 9.5.1.1 c), 9.6	Other relevant reference:
TSS reference	NT7VAC/VCF/ORIG/FBA	
Selection criteria	R 1.4 AND MCn 21.1 AND MCn 22.1	
Test purpose	Verify that the IUT, in Call Delivered call state N4, having received a videoconference fallback allowed SETUP message, is capable of sending a CONNECT message containing a BC = speech and a HLC = telephony and enters the Active call state N10.	
Cross reference		
Comments	Sending of CONNECT (BC = speech, HLC = telephony): fallback, to the telephony 3,1 kHz teleservice occurred beyond the destination interface of the network component under test.	

CTP11_09	Reference to EN 300 267-1 [3]: 9.5.1.1 d), 9.6	Other relevant reference:
TSS reference	NT7VAC/VCF/ORIG/FBA	
Selection criteria	R 1.4 AND MCn 21.1 AND MCn 22.1	
Test purpose	Verify that the IUT, in Idle call state N0, on receipt of a videoconference fallback allowed SETUP message, is capable of sending a CALL PROCEEDING, PROGRESS or ALERTING message containing a PI = #5, and a BC = speech, and a HLC = telephony or no HLC and enters the relevant basic call state.	
Cross reference		
Comments	Sending of CALL PROCEEDING, PROGRESS or ALERTING: fallback occurred, to the telephony 3,1 kHz teleservice, within the network component under test.	

CTP11_10	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2, 9.5.3, 9.6	Other relevant reference: EN 300 403-1 [1] 5.3.4.1, 5.1.4, 5.1.5.2
TSS reference	NT7VAC/VCF/ORIG/FBA	
Selection criteria	R 1.4 AND MCn 21.1 AND MCn 22.1	
Test purpose	Verify that the IUT, in Overlap Sending call state N2, on receipt of a videoconference fallback allowed SETUP message, is capable of sending a DISCONNECT message containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP11_05.	
Comments	According to basic call requirements, when a complete called party information is not received before the mandatory timer T302 expires, the IUT shall send a DISCONNECT message with the appropriate cause value.	

CTP11_11	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2, 9.5.3, 9.6	Other relevant reference: EN 300 403-1 [1] 5.2.5.4, 5.3.4.1
TSS reference	NT7VAC/VCF/ORIG/FBA	
Selection criteria	R 1.4 AND MCn 21.1 AND MCn 22.1	
Test purpose	Verify that the IUT, in Outgoing Call Proceeding call state N3, having received a videoconference fallback allowed SETUP message, is capable of sending a DISCONNECT message containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP11_06.	
Comments	According to basic call requirements, in Outgoing Call Proceeding call state N3, when the SETUP message has been delivered on point to point data link, if the IUT does not receive an ALERTING, CONNECT or DISCONNECT message prior to the expiration of timer T310, then the network shall send a DISCONNECT.	

CTP11_12	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2, 9.5.4, 9.6	Other relevant reference: EN 300 403-1 [1] 5.1.3
TSS reference	NT7VAC/VCF/ORIG/FBA	
Selection criteria	R 1.4 AND MCn 21.1 AND MCn 22.1	
Test purpose	Verify that the IUT, in Idle call state N0, on receipt of a videoconference fallback allowed SETUP message not containing any called number information, sends a SETUP ACKNOWLEDGE message, containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law and enters the Overlap sending call state N2.	
Cross reference	Related GTP: GTP11_07.	
Comments		

CTP11_13	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2, 9.5.4, 9.6	Other relevant reference: EN 300 403-1 [1] 5.4
TSS reference	NT7VAC/VCF/ORIG/FBA	
Selection criteria	R 1.4 AND MCn 21.1 AND MCn 22.1	
Test purpose	Verify that the IUT, in Idle call state N0, on receipt of a SETUP message, of a videoconference fallback allowed SETUP message with a sending complete indication, is capable of sending a PROGRESS or an ALERTING or a CALL PROCEEDING message, containing a PI = #8, and of simultaneously providing in-band tones announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law and enters the relevant basic call state.	
Cross reference	Related GTP: GTP11_08.	
Comments		

CTP11_14	Reference to EN 300 267-1 [3]: 9.7	Other relevant reference: EN 300 403-1 [1] 5.1.6
TSS reference	NT7VAC/VCF/ORIG/FBA	
Selection criteria	R 1.4 AND MCn 21.1 AND MCn 22.1	
Test purpose	Verify that the IUT, in Idle call state N0, on receipt of a videoconference fallback allowed SETUP message without a sending complete indication, is capable of sending a SETUP ACKNOWLEDGE, a CALL PROCEEDING, an ALERTING, a PROGRESS or a CONNECT message containing a Progress indicator information element with a progress description #1 "call is not end-to-end ISDN, further call progress information may be available in-band" and enters the relevant basic call state.	
Cross reference		
Comments	This test purpose covers interworking with the PSTN where fallback is allowed by the calling user.	

CTP11_15	Reference to EN 300 267-1 [3]: 9.7	Other relevant reference: EN 300 403-1 [1] 5.1.6
TSS reference	NT7VAC/VCF/ORIG/FBA	
Selection criteria	R 1.4 AND MCn 21.1 AND MCn 22.1	
Test purpose	Verify that the IUT, in Idle call state N0, on receipt of a videoconference fallback allowed SETUP message with a sending complete indication, is capable of sending a CALL PROCEEDING, an ALERTING, a PROGRESS or a CONNECT message containing a Progress indicator information element with a progress description #1 "call is not end-to-end ISDN, further call progress information may be available in-band" and enters the relevant basic call state.	
Cross reference		
Comments	This test purpose covers interworking with the PSTN where fallback is allowed by the calling user.	

5.6.1.2   Fallback not allowed

CTP12_01	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2, 9.5.3, 9.6	Other relevant reference: EN 300 403-1 [1] 5.3.4.1, 5.1.4, 5.1.5.2
TSS reference	NT7VAC/VCF/ORIG/FBN	
Selection criteria	R 1.4	
Test purpose	Verify that the IUT, in Overlap Sending call state N2, having received a SETUP message containing a single BC = UDI/TA and a single HLC = videoconference_ic, and not containing a LLC, is capable of sending a DISCONNECT message containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP12_06.	
Comments	According to basic call requirements, when a complete called party information is not received before the mandatory timer T302 expires, the IUT shall send a DISCONNECT message with the appropriate cause value.	

CTP12_02	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2, 9.5.3, 9.6	Other relevant reference: EN 300 403-1 [1] 5.2.5.4, 5.3.4.1
TSS reference	NT7VAC/VCF/ORIG/FBN	
Selection criteria	R 1.4	
Test purpose	Verify that the IUT, in Outgoing Call Proceeding call state N3, having received a videoconference fallback not allowed SETUP message, is capable of sending a DISCONNECT message containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP12_07.	
Comments	According to basic call requirements, in Outgoing Call Proceeding call state N3, when the SETUP message has been delivered on point to point data link, if the IUT does not receive an ALERTING, CONNECT or DISCONNECT message prior to the expiration of timer T310, then the network shall send a DISCONNECT.	

CTP12_03	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2, 9.5.4, 9.6	Other relevant reference: EN 300 403-1 [1] 5.1.3
TSS reference	NT7VAC/VCF/ORIG//FBN	
Selection criteria	R 1.4	
Test purpose	Verify that the IUT, in Idle call state N0, on receipt a videoconference fallback not allowed SETUP message not containing any called number information, sends a SETUP ACKNOWLEDGE message, containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law and enters the Overlap sending call state N2.	
Cross reference	Related GTP: GTP12_08.	
Comments		

CTP12_04	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2, 9.5.4, 9.6	Other relevant reference: EN 300 403-1 [1] 5.4
TSS reference	NT7VAC/VCF/ORIG/FBN	
Selection criteria	R 1.4	
Test purpose	Verify that the IUT, in Idle call state N0, having a videoconference fallback not allowed SETUP message with a sending complete indication, is capable of sending a PROGRESS or an ALERTING or a CALL PROCEEDING message, containing a PI = #8, and of simultaneously providing in-band tones announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law and enters the relevant basic call state.	
Cross reference	Related GTP: GTP12_09.	
Comments		

CTP12_05	Reference to EN 300 267-1 [3]: 9.7	Other relevant reference: EN 300 403-1 [1] 5.1.1, 5.1.5.1
TSS reference	NT7VAC/VCF/ORIG/FBN	
Selection criteria	R 1.4	
Test purpose	Verify that the IUT, in Idle call state N0, on receipt of a videoconference fallback not allowed SETUP message with a sending complete indication, is capable of initiating call clearing by sending a RELEASE COMPLETE message containing a Cause information element, with its cause value set to #65 "bearer capability not implemented" and enters the Null call state N0.	
Cross reference		
Comments	This test purpose covers attempted interworking with the PSTN, where fallback is not allowed by the calling user.	

CTP12_06	Reference to EN 300 267-1 [3]: 9.7	Other relevant reference: EN 300 403-1 [1] 5.1.5.2, 5.3.3
TSS reference	NT7VAC/VCF/ORIG/FBN	
Selection criteria	R 1.4	
Test purpose	Verify that the IUT, in Overlap Sending call state N2, having received a videoconference fallback not allowed SETUP message, is capable of initiating call clearing by sending a DISCONNECT message containing a Cause information element, with its cause value set to #65 "bearer capability not implemented" and enters the Disconnect indication call state N12.	
Cross reference		
Comments	This test purpose covers attempted interworking with the PSTN, where fallback is not allowed by the calling user.	

5.6.1.3   Connection management

CTP13_01	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2, 9.5.3, 9.6	Other relevant reference: EN 300 403-1 [1] 5.3.4
TSS reference	NT7VAC/VCF/ORIG/CMN	
Selection criteria	R 1.4	
Test purpose	Verify that the IUT, at the originating interface, in Active call state N10, with a call of the videoconference teleservice in progress in a 1B-channel mode, is capable of sending a DISCONNECT message containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP13_01.	
Comments	According to basic call requirements, in Active call state N10, on receipt of a DISCONNECT message from the called user, the IUT shall send a DISCONNECT message to the calling user.	

CTP13_02	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2, 9.5.3, 9.6	Other relevant reference: EN 300 403-1 [1] 5.3.4
TSS reference	NT7VAC/VCF/ORIG/CMN	
Selection criteria	R 1.4	
Test purpose	Verify that the IUT, at the originating interface, with CR1 and CR2 in Active call state N10, with a call of the videoconference teleservice in progress in a 2B-channel mode, is capable of sending a DISCONNECT message, on CR1, containing a PI = #8, and of presenting a tone or announcement in a 3,1 kHz mode on CR1, encoded according to ITU-T Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP13_02.	
Comments	According to basic call requirements, in Active call state N10, on receipt of a DISCONNECT message from the called user, the IUT shall send a DISCONNECT message to the calling user.	

5.6.2   Destination interface

5.6.2.1   Fallback allowed

5.6.2.1.1   Requirements at the coincident S and T reference point or for interworking with private ISDNs

CTP21_01	Reference to EN 300 267-1 [3]: 9.5.2.1 a), 9.6.1 a)	Other relevant reference:
TSS reference	NT7VAC/VCF/DEST/FBA/ST_T	
Selection criteria	R 1.4 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in Idle call state N0, is capable of sending a SETUP message containing two BCs, with the first BC = speech and the second BC = UDI/TA, and two HLCs, with the first HLC = telephony and the second HLC = videoconference_ic, and not containing a LLC and enters the Call present call state N6.	
Cross reference		
Comments		

CTP21_02	Reference to EN 300 267-1 [3]: 9.5.2.1 c), 9.6.1 c)	Other relevant reference:
TSS reference	NT7VAC/VCF/DEST/FBA/ST_T	
Selection criteria	R 1.4 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in Call Present call state N6, having sent a videoconference fallback allowed SETUP message, on receipt of a CONNECT message, containing neither a BC nor a HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference	Related GTP: GTP221_01.	
Comments		

CTP21_03	Reference to EN 300 267-1 [3]: 9.5.2.1 c), 9.6.1 c)	Other relevant reference:
TSS reference	NT7VAC/VCF/DEST/FBA/ST_T	
Selection criteria	R 1.4 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in Call Received call state N7, having sent a videoconference fallback allowed SETUP message, on receipt of a CONNECT message, containing neither BC nor a HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference	Related GTP: GTP221_02.	
Comments		

CTP21_04	Reference to EN 300 267-1 [3]: 9.5.2.1 c), 9.6.1 c)	Other relevant reference:
TSS reference	NT7VAC/VCF/DEST/FBA/ST_T	
Selection criteria	R 1.4 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videoconference fallback allowed SETUP message, on receipt of a CONNECT message, containing neither BC nor a HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference	Related GTP: GTP221_03.	
Comments		

CTP21_05	Reference to EN 300 267-1 [3]: 9.5.2.1 c), 9.6.1 c)	Other relevant reference:
TSS reference	NT7VAC/VCF/DEST/FBA/ST_T	
Selection criteria	R 1.4 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in Call Present call state N6, having sent a videoconference fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC = speech, but not containing a HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments		

CTP21_06	Reference to EN 300 267-1 [3]: 9.5.2.1 c), 9.6.1 c)	Other relevant reference:
TSS reference	NT7VAC/VCF/DEST/FBA/ST_T	
Selection criteria	R 1.4 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in Call Received call state N7, having sent a videoconference fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC = speech, but not containing a HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference	Related GTP: GTP21_19, GTP21_34	
Comments		

CTP21_07	Reference to EN 300 267-1 [3]: 9.5.2.1 c), 9.6.1 c)	Other relevant reference:
TSS reference	NT7VAC/VCF/DEST/FBA/ST_T	
Selection criteria	R 1.4 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videoconference fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC = speech, but not containing a HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments		

CTP21_08	Reference to EN 300 267-1 [3]: 9.5.2.1 c), 9.6.1 c)	Other relevant reference:
TSS reference	NT7VAC/VCF/DEST/FBA/ST_T	
Selection criteria	R 1.4 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in Call present call state N6, having sent a videoconference fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC = UDI/TA and a HLC = videoconference_ic, assumes that fallback has not occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments		

CTP21_09	Reference to EN 300 267-1 [3]: 9.5.2.1 c), 9.6.1 c)	Other relevant reference:
TSS reference	NT7VAC/VCF/DEST/FBA/ST_T	
Selection criteria	R 1.4 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in Call Received call state N7, having sent a videoconference fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC = UDI/TA and a HLC = videoconference_ic, assumes that fallback has not occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments		

CTP21_10	Reference to EN 300 267-1 [3]: 9.5.2.1 c), 9.6.1 c)	Other relevant reference:
TSS reference	NT7VAC/VCF/DEST/FBA/ST_T	
Selection criteria	R 1.4 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videoconference fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC = UDI/TA and a HLC = videoconference_ic, assumes that fallback has not occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments		

CTP21_11	Reference to EN 300 267-1 [3]: 9.5.2.1 c), 9.6.1 c)	Other relevant reference:
TSS reference	NT7VAC/VCF/DEST/FBA/ST_T	
Selection criteria	R 1.4 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in Call Received call state N7, having sent a videoconference fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC = UDI/TA and a HLC = telephony, assumes that fallback to telephony 7 kHz has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments		

CTP21_12	Reference to EN 300 267-1 [3]: 9.5.2.1 c), 9.6.1 c)	Other relevant reference:
TSS reference	NT7VAC/VCF/DEST/FBA/ST_T	
Selection criteria	R 1.4 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videoconference fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC = UDI/TA and a HLC = telephony, assumes that fallback to telephony 7 kHz has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments		

CTP21_13	Reference to EN 300 267-1 [3]: 9.5.2.1 c), 9.6.1 c)	Other relevant reference:
TSS reference	NT7VAC/VCF/DEST/FBA/ST_T	
Selection criteria	R 1.4 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in Call Received call state N7, having sent a videoconference fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC = speech and a HLC = telephony, assumes that fallback to telephony 3,1 kHz has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments		

CTP21_14	Reference to EN 300 267-1 [3]: 9.5.2.1 c), 9.6.1 c)	Other relevant reference:
TSS reference	NT7VAC/VCF/DEST/FBA/ST_T	
Selection criteria	R 1.4 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videoconference fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC = speech and a HLC = telephony, assumes that fallback to telephony 3,1 kHz has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments		

CTP21_15	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2, 9.5.3, 9.6	Other relevant reference: EN 300 403-1 [1] 5.3.4.1
TSS reference	NT7VAC/VCF/DEST/FBA/ST_T	
Selection criteria	R 1.4 AND MCn 21.2 AND MCn 22.2 AND MCn 2.2 [5] AND MCn 2.4 [5]	
Test purpose	Verify that the IUT, in Overlap Receiving call state N25, having sent a videoconference fallback allowed SETUP message, delivered on a point to point data link, is capable of sending a DISCONNECT message containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP21_03.	
Comments	According to basic call requirements, when the SETUP message has been sent via the broadcast data link, to indicate a network disconnect indication, IUT shall send a RELEASE message.	

CTP21_16	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2, 9.5.3, 9.6	Other relevant reference: EN 300 403-1 [1] 5.3.4.1
TSS reference	NT7VAC/VCF/DEST/FBA/ST_T	
Selection criteria	R 1.4 AND MCn 21.2 AND MCn 22.2 AND MCn 2.4 [5]	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videoconference fallback allowed SETUP message, delivered on a point to point data link, is capable of sending a DISCONNECT message containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP21_04.	
Comments	According to basic call requirements, when the SETUP message has been sent via the broadcast data link, to indicate a network disconnect indication, IUT shall send a RELEASE message.	

5.6.2.1.2 Requirements at the coincident S and T reference point

CTP21_17	Reference to EN 300 267-1 [3]: 9.5.2.1 c)	Other relevant reference:
TSS reference	NT7VAC/VCF/DEST/FBA/ST	
Selection criteria	R 1.4 AND R 3.1 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in Call Received call state N7, having sent a videoconference fallback allowed SETUP message, on receipt of a CONNECT message, not containing a BC, but containing a HLC = videoconference_ic, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments		

CTP21_18	Reference to EN 300 267-1 [3]: 9.5.2.1 c)	Other relevant reference:
TSS reference	NT7VAC/VCF/DEST/FBA/ST	
Selection criteria	R 1.4 AND R 3.1 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videoconference fallback allowed SETUP message, on receipt of a CONNECT message, not containing a BC, but containing a HLC = videoconference_nex, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments		

CTP21_19	Reference to EN 300 267-1 [3]: 9.5.2.1 c)	Other relevant reference:
TSS reference	NT7VAC/VCF/DEST/FBA/ST	
Selection criteria	R 1.4 AND R 3.1 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in Call Present call state N6, having sent a videoconference fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC = UDI/TA, but not containing a HLC, assumes that fallback to the telephony 7 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments		

CTP21_20	Reference to EN 300 267-1 [3]: 9.5.2.1 c)	Other relevant reference:
TSS reference	NT7VAC/VCF/DEST/FBA/ST	
Selection criteria	R 1.4 AND R 3.1 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in Call Received call state N7, having sent a videoconference fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC = UDI/TA, but not containing a HLC, assumes that fallback to the telephony 7 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments		

CTP21_21	Reference to EN 300 267-1 [3]: 9.5.2.1 c),	Other relevant reference:
TSS reference	NT7VAC/VCF/DEST/FBA/ST	
Selection criteria	R 1.4 AND R 3.1 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videoconference fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC = UDI/TA, but not containing a HLC, assumes that fallback to the telephony 7 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments		

CTP21_22	Reference to EN 300 267-1 [3]: 9.5.2.1 c)	Other relevant reference:
TSS reference	NT7VAC/VCF/DEST/FBA/ST	
Selection criteria	R 1.4 AND R 3.1 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in Call present call state N6, having sent a videoconference fallback allowed SETUP message, on receipt of a CONNECT message, containing a HLC = telephony, but not containing a BC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments		

CTP21_23	Reference to EN 300 267-1 [3]: 9.5.2.1 c)	Other relevant reference:
TSS reference	NT7VAC/VCF/DEST/FBA/ST	
Selection criteria	R 1.4 AND R 3.1 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in Call Received call state N7, having sent a videoconference fallback allowed SETUP message, on receipt of a CONNECT message, containing a HLC = telephony, but not containing a BC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments		

CTP21_24	Reference to EN 300 267-1 [3]: 9.5.2.1 c)	Other relevant reference:
TSS reference	NT7VAC/VCF/DEST/FBA/ST	
Selection criteria	R 1.4 AND R 3.1 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videoconference fallback allowed SETUP message, on receipt of a CONNECT message, containing a HLC = telephony, but not containing a BC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments		

5.6.2.1.3 Requirements for interworking with private ISDNs

CTP21_25	Reference to EN 300 267-1 [3]: 9.6.1 d)	Other relevant reference:
TSS reference	NT7VAC/VCF/DEST/FBA/PT	
Selection criteria	R 1.4 AND R 3.2 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in the Call Present call state N6, having sent a videoconference fallback allowed SETUP message, on receipt of a CALL PROCEEDING message, containing a PI = #5 "interworking has occurred and has resulted in a telecommunications service change" and no BC or HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Incoming Call Proceeding call state N9.	
Cross reference		
Comments	Fallback occurs within the private ISDN	

CTP21_26	Reference to EN 300 267-1 [3]: 9.6.1 d)	Other relevant reference:
TSS reference	NT7VAC/VCF/DEST/FBA	
Selection criteria	R 1.4 AND R 3.2 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in Call Present call state N6, having sent a videoconference fallback allowed SETUP message, on receipt of an ALERTING message, containing a PI = #5 but not containing either a BC or a HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Call received call state N7.	
Cross reference		
Comments	Fallback was allowed and occurred in the private ISDN.	

CTP21_27	Reference to EN 300 267-1 [3]: 9.6.1 d)	Other relevant reference:
TSS reference	NT7VAC/VCF/DEST/FBA	
Selection criteria	R 1.4 AND R 3.2 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in Call Received call state N7, having sent a videoconference fallback allowed SETUP message, on receipt of a PROGRESS message, containing a PI = #5 but not containing either a BC or a HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and remains in the same call state.	
Cross reference		
Comments	Fallback was allowed and occurred in the private ISDN.	

CTP21_28	Reference to EN 300 267-1 [3]: 9.6.1 d)	Other relevant reference:
TSS reference	NT7VAC/VCF/DEST/FBA/PT	
Selection criteria	R 1.4 AND R 3.2 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videoconference fallback allowed SETUP message, on receipt of an ALERTING message, containing a PI = #5 "interworking has occurred and has resulted in a telecommunications service change" and no BC or HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Call Received call state N7.	
Cross reference		
Comments	Fallback occurs within the private ISDN.	

CTP21_29	Reference to EN 300 267-1 [3]: 9.6.1 d),	Other relevant reference:
TSS reference	NT7VAC/VCF/DEST/FBA	
Selection criteria	R 1.4 AND R 3.2 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videoconference fallback allowed SETUP message, on receipt of a PROGRESS message, containing a PI = #5 but not containing either a BC or a HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and remains in the same call state.	
Cross reference		
Comments	Fallback was allowed and occurred in the private ISDN.	

CTP21_30	Reference to EN 300 267-1 [3]: 9.6.1 d)	Other relevant reference:
TSS reference	NT7VAC/VCF/DEST/FBA	
Selection criteria	R 1.4 AND R 3.2 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that IUT, in Call Present call state N6, having sent a videoconference fallback allowed SETUP message, on receipt of a CALL PROCEEDING message, containing a PI = #5, a BC = speech and no HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Incoming call proceeding call state N9.	
Cross reference		
Comments	Fallback was allowed and occurred in the private ISDN.	

CTP21_31	Reference to EN 300 267-1 [3]: 9.6.1 d)	Other relevant reference:
TSS reference	NT7VAC/VCF/DEST/FBA	
Selection criteria	R 1.4 AND R 3.2 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in Call Present call state N6, having sent a videoconference fallback allowed SETUP message, on receipt of an ALERTING message, containing a PI = #5, a BC = speech and no HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Call received call state N7.	
Cross reference		
Comments	Fallback was allowed and occurred in the private ISDN.	

CTP21_32	Reference to EN 300 267-1 [3]: 9.6.1 d)	Other relevant reference:
TSS reference	NT7VAC/VCF/DEST/FBA	
Selection criteria	R 1.4 AND R 3.2 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in Call Received call state N7, having sent a videoconference fallback allowed SETUP message, on receipt of a PROGRESS message, containing a PI = #5, a BC = speech and no HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and remains in the same call state.	
Cross reference		
Comments	Fallback was allowed and occurred in the private ISDN.	

CTP21_33	Reference to EN 300 267-1 [3]: 9.6.1 d)	Other relevant reference:
TSS reference	NT7VAC/VCF/DEST/FBA	
Selection criteria	R 1.4 AND R 3.2 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videoconference fallback allowed SETUP message, on receipt of an ALERTING message, containing a PI = #5, a BC = speech and no HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Call received call state N7.	
Cross reference		
Comments	Fallback was allowed and occurred in the private ISDN.	

CTP21_34	Reference to EN 300 267-1 [3]: 9.6.1 d)	Other relevant reference:
TSS reference	NT7VAC/VCF/DEST/FBA	
Selection criteria	R 1.4 AND R 3.2 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videoconference fallback allowed SETUP message, on receipt of a PROGRESS message, containing a PI = #5, a BC = speech and no HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and remains in the same call state.	
Cross reference		
Comments	Fallback was allowed and occurred in the private ISDN.	

CTP21_35	Reference to EN 300 267-1 [3]: 9.6.1 d)	Other relevant reference:
TSS reference	NT7VAC/VCF/DEST/FBA/PT	
Selection criteria	R 1.4 AND R 3.2 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in the Call Present call state N6, having sent a videoconference fallback allowed SETUP message, on receipt of a CALL PROCEEDING message, containing a PI = #5 "interworking has occurred and has resulted in a telecommunications service change" and a BC = speech and HLC = telephony, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Incoming Call Proceeding call state N9.	
Cross reference		
Comments	Fallback occurs within the private ISDN.	

CTP21_36	Reference to EN 300 267-1 [3]: 9.6.1 d)	Other relevant reference:
TSS reference	NT7VAC/VCF/DEST/FBA	
Selection criteria	R 1.4 AND R 3.2 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in Call Present call state N6, having sent a videoconference fallback allowed SETUP message, on receipt of an ALERTING message, containing a PI = #5, a BC = speech and HLC = telephony, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Call received call state N7.	
Cross reference		
Comments	Fallback was allowed and occurred in the private ISDN.	

CTP21_37	Reference to EN 300 267-1 [3]: 9.6.1 d)	Other relevant reference:
TSS reference	NT7VAC/VCF/DEST/FBA	
Selection criteria	R 1.4 AND R 3.2 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in Call Received call state N7, having sent a videoconference fallback allowed SETUP message, on receipt of a PROGRESS message, containing a PI = #5, a BC = speech and HLC = telephony, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and remains in the same call state.	
Cross reference		
Comments	Fallback was allowed and occurred in the private ISDN.	

CTP21_38	Reference to EN 300 267-1 [3]: 9.6.1 d)	Other relevant reference:
TSS reference	NT7VAC/VCF/DEST/FBA	
Selection criteria	R 1.4 AND R 3.2 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videoconference fallback allowed SETUP message, on receipt of an ALERTING message, containing a PI = #5, a BC = speech and HLC = telephony, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Call received call state N7.	
Cross reference		
Comments	Fallback was allowed and occurred in the private ISDN.	

CTP21_34	Reference to EN 300 267-1 [3]: 9.6.1 d)	Other relevant reference:
TSS reference	NT7VAC/VCF/DEST/FBA	
Selection criteria	R 1.4 AND R 3.2 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videoconference fallback allowed SETUP message, on receipt of a PROGRESS message, containing a PI = #5, a BC = speech and HLC = telephony, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and remains in the same call state.	
Cross reference		
Comments	Fallback was allowed and occurred in the private ISDN.	

CTP21_40	Reference to EN 300 267-1 [3]: 9.6.1 d)	Other relevant reference:
TSS reference	NT7VAC/VCF/DEST/FBA	
Selection criteria	R 1.4 AND R 3.2 AND MCn 21.2 AND MCn 22.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videoconference fallback allowed SETUP message, on receipt of a CONNECT message, containing a PI = #5, a BC = speech and HLC = telephony, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments	Fallback was allowed and occurred in the private ISDN.	

5.6.2.2   Fallback not allowed

CTP22_01	Reference to EN 300 267-1 [3]: 9.5.2.1 i), 9.6.1 first paragraph	Other relevant reference:
TSS reference	NT7VAC/VCF/DEST/FBN	
Selection criteria	R 1.4	
Test purpose	Verify that the IUT, in Idle call state N0, is capable of sending a SETUP message containing a single BC = UDI/TA and a single HLC = videoconference_ic, and not containing a LLC and enters the Call present call state N6.	
Cross reference		
Comments		

CTP22_02	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2, 9.5.3, 9.6	Other relevant reference: EN 300 403-1 [1] 5.3.4.1
TSS reference	NT7VAC/VCF/DEST/FBN	
Selection criteria	R 1.4 AND MCn 2.2 [5] AND MCn 2.4 [5]	
Test purpose	Verify that the IUT, in Overlap Receiving call state N25, having sent a videoconference fallback not allowed SETUP message, delivered on a point to point data link, is capable of sending a DISCONNECT message containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP22_06.	
Comments	According to basic call requirements, when the SETUP message has been sent via the broadcast data link, to indicate a network disconnect indication, IUT shall send a RELEASE message.	

CTP22_03	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2, 9.5.3, 9.6	Other relevant reference: EN 300 403-1 [1] 5.3.4.1
TSS reference	NT7VAC/VCF/DEST/FBN	
Selection criteria	R 1.4 AND MCn 2.4 [5]	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videoconference fallback not allowed SETUP message, delivered on a point to point data link, is capable of sending a DISCONNECT message containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP22_07.	
Comments	According to basic call requirements, when the SETUP message has been sent via the broadcast data link, to indicate a network disconnect indication, IUT shall send a RELEASE message.	

5.6.2.3   Connection management

CTP23_01	Reference to EN 300 267-1 [3]: 9.5.2.2, 9.6.2	Other relevant reference:
TSS reference	NT7VAC/VCF/DEST/CMN	
Selection criteria	R 1.4	
Test purpose	Verify that the IUT, at the destination interface, in Active call state N10 for CR1 and in the Null call state N0 for CR2, in order to establish CR2 in a videoconference call requiring two connections, is capable of sending a SETUP message containing a single BC = UDI and a single HLC = videotelephony_sc and enters the Call present call state N6.	
Cross reference		
Comments		

CTP23_02	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2, 9.5.3, 9.6	Other relevant reference: EN 300 403-1 [1] 5.3.4
TSS reference	NT7VAC/VCF/DEST/CMN	
Selection criteria	R 1.4	
Test purpose	Verify that the IUT, at the destination interface, in Active call state N10, with a call of the videoconference teleservice in progress in a 1B-channel mode, is capable of sending a DISCONNECT message containing a PI = #8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to ITU-T Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP23_01.	
Comments	According to basic call requirements, in Active call state N10, on receipt of a DISCONNECT message from the calling user, the IUT shall send a DISCONNECT message to the called user.	

CTP23_03	Reference to EN 300 267-1 [3]: 5.5.2, 5.6.2, 9.5.3, 9.6	Other relevant reference: EN 300 403-1 [1] 5.3.4
TSS reference	NT7VAC/VCF/DEST/CMN	
Selection criteria	R 1.4	
Test purpose	Verify that the IUT, at the destination interface, with CR1 and CR2 in Active call state N10, with a call of the videoconference teleservice in progress in a 2B-channel mode, is capable of sending a DISCONNECT message, on CR1, containing a PI = #8, and of presenting a tone or announcement in a 3,1 kHz mode on CR1, encoded according to ITU-T Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP23_02.	
Comments	According to basic call requirements, in Active call state N10, on receipt of a DISCONNECT message from the calling user, the IUT shall send a DISCONNECT message to the called user.	

6 Compliance

A generic or abstract test suite complying with this TSS&TP specification shall:

- consist of a set of test cases corresponding to the set or to a subset of the TPs specified in clause 5;

- use a TSS which is an appropriate subset of the whole of the TSS specified in clause 4;

- use the same naming conventions for the test groups and test cases;

- maintain the relationship specified in clause 5 between the TPs and the entries in the PICS proforma, specified in EN 300 267-2 [4], to be used for test case selection;

- comply with ISO/IEC 9646-2 [9] and ISO/IEC 9646-3 [10].

Annex A (informative):
Cross references: Generic, telephony 7 kHz, video telephony, audiographic conference and videoconference teleservices test purposes

A.1 Generic test purposes to telephony 7 kHz, videotelephony, audiographic conference and videoconference teleservices test purposes

Table A.1 lists all the generic test purposes. Each row shows the telephony 7 kHz, videotelephony, audiographic conference and/or videoconference teleservices test purpose(s) to which the indicated generic test purpose is related.

Table A.1

Generic TP	Telephony 7 kHz TP	Videotelephony TP	Audiographic conference TP	Videoconference TP
GTP11_01	TTP11_08			
GTP11_02	TTP11_09			
GTP11_03	TTP11_10			
GTP11_04	TTP11_11			
GTP11_05		VTP11_11	ATP11_10	CTP11_10
GTP11_06		VTP11_12	ATP11_11	CTP11_11
GTP11_07		VTP11_13	ATP11_12	CTP11_12
GTP11_08		VTP11_14	ATP11_13	CTP11_13
GTP12_01	TTP12_01			
GTP12_02	TTP12_02			
GTP12_03	TTP12_03			
GTP12_04	TTP12_04			
GTP12_05		VTP12_01	ATP12_01	CTP12_01
GTP12_06		VTP12_02	ATP12_02	CTP12_02
GTP12_07		VTP12_03	ATP12_03	CTP12_03
GTP12_08		VTP12_04	ATP12_04	CTP12_04
GTP13_01	TTP13_01	VTP13_01	CTP13_01	CTP13_01
GTP13_02		VTP13_02	CTP13_02	CTP13_02
GTP21_01	TTP21_11			
GTP21_02	TTP21_12			
GTP21_03		VTP21_15	ATP21_15	CTP21_15
GTP21_04		VTP21_16	ATP21_16	CTP21_16
GTP22_01				
GTP22_02				
GTP22_03				
GTP22_04	TTP22_02			
GTP22_05	TTP22_03			
GTP22_06		VTP22_02	ATP22_02	CTP22_02
GTP22_07		VTP22_03	ATP22_03	CTP22_03
GTP23_01	TTP23_01	VTP23_02	ATP23_02	CTP23_02
GTP23_02		VTP23_03	ATP23_03	CTP23_03

A.2   Telephony 7 kHz to videotelephony, audiographic conference and videoconference teleservices test purposes

Table A.2 lists all the telephony 7 kHz, videotelephony, audiographic conference and videoconference teleservices test purposes. Equivalent test purposes are listed on the same row: in some cases a telephony 7 kHz test purpose is equivalent to more than one videotelephony test purpose. The telephony 7 kHz group is a subset of the videotelephony group, with each telephony 7 kHz test purpose being a modified version of the equivalent videotelephony one(s) (e.g. compare TTP12_01 with VTP12_01).

Table A.2

Telephony 7 kHz	Videotelephony	Audiographic conference TP	Videoconference TP
TTP11_01	VTP11_01	ATP11_01	CTP11_01
TTP11_02	VTP11_02	ATP11_02	CTP11_02
TTP11_03	VTP11_03 & 05	ATP11_03 & 05	CTP11_03 & 05
TTP11_04	VTP11_04 & 06	ATP11_04 & 06	CTP11_04 & 06
TTP11_05	VTP11_07	ATP11_07	CTP11_07
TTP11_06	VTP11_08 & 09	ATP11_08	CTP11_08
TTP11_07	VTP11_10	ATP11_09	CTP11_09
TTP11_08	VTP11_11	ATP11_10	CTP11_10
TTP11_09	VTP11_12	ATP11_11	CTP11_11
TTP11_10	VTP11_13	ATP11_12	CTP11_12
TTP11_11	VTP11_14	ATP11_13	CTP11_13
TTP11_12	VTP11_15	ATP11_14	CTP11_14
TTP11_13	VTP11_16	ATP11_15	CTP11_15
TTP12_01	VTP12_01	ATP12_01	CTP12_01
TTP12_02	VTP12_02	ATP12_02	CTP12_02
TTP12_03	VTP12_03	ATP12_03	CTP12_03
TTP12_04	VTP12_04	ATP12_04	CTP12_04
TTP12_05	VTP12_05	ATP12_05	CTP12_05
TTP12_06	VTP12_06	ATP12_06	CTP12_06
TTP13_01	VTP13_01	ATP13_01	CTP13_01
	VTP13_02	ATP13_02	CTP13_02
TTP21_01	VTP21_01	ATP21_01	CTP21_01
TTP21_02	VTP21_02	ATP21_02	CTP21_02
TTP21_03	VTP21_03	ATP21_03	CTP21_03
TTP21_04	VTP21_04	ATP21_04	CTP21_04
TTP21_05	VTP21_05	ATP21_05	CTP21_05
TTP21_06	VTP21_06	ATP21_06	CTP21_06
TTP21_07	VTP21_07	ATP21_07	CTP21_07
TTP21_08	VTP21_08	ATP21_08	CTP21_08
TTP21_09	VTP21_09	ATP21_09	CTP21_09
TTP21_10	VTP21_10	ATP21_10	CTP21_10
	VTP21_11	ATP21_11	CTP21_11
	VTP21_12	ATP21_12	CTP21_12
	VTP21_13	ATP21_13	CTP21_13
	VTP21_14	ATP21_14	CTP21_14
TTP21_11	VTP21_15	ATP21_15	CTP21_15
TTP21_12	VTP21_16	ATP21_16	CTP21_16
	VTP21_17	ATP21_17	CTP21_17
	VTP21_18	ATP21_18	CTP21_18
	VTP21_19	ATP21_19	CTP21_19
	VTP21_20	ATP21_20	CTP21_20
	VTP21_21	ATP21_21	CTP21_21
	VTP21_22	ATP21_22	CTP21_22
	VTP21_23	ATP21_23	CTP21_23
	VTP21_24	ATP21_24	CTP21_24
TTP21_13	VTP21_25	ATP21_25	CTP21_25
TTP21_14	VTP21_26	ATP21_26	CTP21_26

Telephony 7 kHz	Videotelephony	Audiographic conference TP	Videoconference TP
TTP21_15	VTP21_27	ATP21_27	CTP21_27
TTP21_16	VTP21_28	ATP21_28	CTP21_28
TTP21_17	VTP21_29	ATP21_29	CTP21_29
TTP21_18	VTP21_30	ATP21_30	CTP21_30
TTP21_19	VTP21_31	ATP21_31	CTP21_31
TTP21_20	VTP21_32	ATP21_32	CTP21_32
TTP21_21	VTP21_33	ATP21_33	CTP21_33
TTP21_22	VTP21_34	ATP21_34	CTP21_34
	VTP21_35	ATP21_35	CTP21_35
	VTP21_36	ATP21_36	CTP21_36
	VTP21_37	ATP21_37	CTP21_37
	VTP21_38	ATP21_38	CTP21_38
	VTP21_39	ATP21_39	CTP21_39
	VTP21_40	ATP21_40	CTP21_40
TTP22_01	VTP22_01	ATP22_01	CTP22_01
TTP22_02	VTP22_02	ATP22_02	CTP22_02
TTP22_03	VTP22_03	ATP22_03	CTP22_03
	VTP23_01	ATP23_01	CTP23_01
TTP23_01	VTP23_02	ATP23_02	CTP23_02
	VTP23_03	ATP23_03	CTP2_03

Bibliography

The following material, though not specifically referenced in the body of the present document (or not publicly available), gives supporting information.

- EN 300 267-1 (V1.2): "Integrated Services Digital Network (ISDN); Telephony 7 kHz, videotelephony, audiographic conference and videoconference teleservices; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".

History

Document history				
V1.2.4	November 1998	Public Enquiry	PE 9913:	1998-11-27 to 1999-03-26
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