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**Integrated Services Digital Network (ISDN);
Telephony 7 kHz and videotelephony teleservices;
Digital Subscriber Signalling System No. one (DSS1) protocol;
Part 3: Test Suite Structure and Test Purposes (TSS&TP)
specification for the user**

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Foreword

This European Telecommunication Standard (ETS) has been produced by the Signalling Protocols and Switching (SPS) Technical Committee of the European Telecommunications Standards Institute (ETSI).

This ETS is part 3 of a multi-part standard covering the Digital Subscriber Signalling System No. one (DSS1) protocol specification for the Integrated Services Digital Network (ISDN) telephony 7 kHz and videotelephony 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: "TSS&TP specification for the network";

Part 6: "ATS and partial PIXIT proforma specification for the network".

Transposition dates	
Date of adoption:	23 May 1997
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Introduction

This ETS is divided into seven 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 list of combined test purposes, i.e. test purposes which can be tested together in one test case. Clause 7 contains the requirements for a generic or abstract test suite to comply with this ETS.

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 ETS 300 102-1. This is specified as a requirement in ETS 300 267-2, clause 5. ETS 300 267-1, subclause 5.1, states that the additional generic requirements of clause 5 are defined to be compatible with the existing requirements of ETS 300 102-1.

The following approach is adopted with regard to specifying test purposes:

- resultant states of the IUT are not checked following receipt of messages which comply with ETS 300 102-1. Resultant states of the IUT are checked following receipt of messages which do not comply with ETS 300 102-1, e.g. a CONNECT message which contains a Bearer capability information element;
- for ETS 300 267-1, clause 5, the use of the word "assumes", in the case of an IUT at the originating interface, is interpreted as meaning that the IUT checks in-band: such test purposes are applicable, therefore, only to IUTs which contain in-band entities.

In cases where ETS 300 267-1 specifies that requirements in ETS 300 102-1 shall apply, it is assumed that, because the IUT already complies with ETS 300 102-1, it also complies with these requirements. However, when specifying the abstract test cases, including test case selection, the requirements in ETS 300 102-1 need to be taken into account.

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1 Scope

This third part of ETS 300 267 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 [11] by means of the Digital Subscriber Signalling System No. one (DSS1) protocol. ETS 300 267-1 [5] provides the protocol specification and ETS 300 267-2 [6] the Protocol Implementation Conformance Statement (PICS) proforma specification. Stage three identifies the protocol procedures and switching functions needed to support a telecommunications service (see CCITT Recommendation I.130 [10]).

This ETS provides the Test Suite Structure and Test Purposes (TSS&TP) for the user side. It covers the protocol requirements as defined in ETS 300 267-1 [5] and provides test purposes for the additional generic requirements for basic telecommunication services not defined in ETS 300 102-1 [2] (ETS 300 267-1 [5], clause 5), for the telephony 7 kHz teleservice (ETS 300 267-1 [5], clause 6) and for the videotelephony teleservice (ETS 300 267-1 [5], clause 7).

Two types of implementations are covered:

- an implementation which supports user requirements at the coincident S and T reference point;
- an implementation which supports user requirements for interworking with private ISDNs at the T reference point.

2 Normative references

This ETS incorporates by dated or undated references, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this ETS only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

- [1] ETS 300 082 (1992): "Integrated Services Digital Network (ISDN); 3,1 kHz telephony teleservice; End-to-end compatibility requirements for telephony terminals".
- [2] ETS 300 102-1: "Integrated Services Digital Network (ISDN); User-network interface layer 3; Specifications for basic call control".
- [3] 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" (equivalent to ITU-T Recommendation H.221).
- [4] ETS 300 145: "Integrated Services Digital Network (ISDN); Audiovisual services; Videotelephone systems and terminal equipment operating on one or two 64 kbit/s channels".
- [5] ETS 300 267-1 (1994) including A1 (1996): "Integrated Services Digital Network (ISDN); Telephony 7 kHz and videotelephony teleservices; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [6] ETS 300 267-2 (1996): "Integrated Services Digital Network (ISDN); Telephony 7 kHz and videotelephony teleservices; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification".
- [7] I-ETS 300 281: "Integrated Services Digital Network (ISDN); Telephony 7 kHz teleservice; Terminal requirements necessary for end-to-end compatibility".

- [8] I-ETS 300 314: "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1); Protocol Implementation Conformance Statement (PICS) proforma specification for signalling network layer protocol for circuit-mode basic call control (basic access, user)".
- [9] CCITT Recommendation G.711 (1988): "Pulse code modulation (PCM) of voice frequencies".
- [10] CCITT Recommendation I.130 (1988): "Method for the characterization of telecommunication services supported by an ISDN and network capabilities of an ISDN".
- [11] ITU-T Recommendation I.411 (1993): "ISDN user-network interfaces - Reference configurations".
- [12] ISO/IEC 9646-2: "Information technology - Open systems interconnection - Conformance testing methodology and framework - Part 2: Abstract test suite specification".
- [13] ISO/IEC 9646-3: "Information technology - Open systems interconnection - Conformance testing methodology and framework - Part 3: The Tree and Tabular Combined Notation".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of this ETS, the definitions in ETS 300 267-1 [5] apply in addition to the following definitions:

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

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

BC=speech: A Bearer capability information element with its information transfer capability field set to "speech" and its user information layer one protocol field set to "G.711 A-law".

BC=UDI/TA: A Bearer capability information element with its information transfer capability field set to "UDI/TA" and its user information layer one protocol field set to "Recommendations H.221 and H.242".

BC=UDI: A Bearer capability information element with its information transfer capability field set to "UDI" and its user information layer one protocol field set to "Recommendations H.221 and H.242".

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

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

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

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

HLC=videotelephony_ic: A High layer compatibility information element with its high layer characteristics identification field set to "110 0000 - videotelephony (Recommendation F.721)" and its extended audiovisual characteristics identification field set to "000 0001 - capability set of initial channel of Recommendation H.221".

HLC=videotelephony_nex: A High layer compatibility information element with its high layer characteristics identification field set to "110 0000 - videotelephony (Recommendation F.721)" but not containing an extended audiovisual characteristics identification field.

HLC=videotelephony_sc: A High layer compatibility information element with its high layer characteristics identification field set to "110 0000 - videotelephony (Recommendation F.721)" and its extended audiovisual characteristics identification field set to "000 0010 - capability set of subsequent channel of Recommendation H.221".

Implementation Under Test (IUT): The component of the system under test (user terminal or private ISDN) providing the protocol specified in ETS 300 267-1 [5] 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 [3].

mode 0F: Transmission mode in which the initial channel contains framing, and 7-bit G.711 audio signal is being transmitted.

mode 0U: Transmission mode in which the initial channel does not contain framing, and 8-bit G.711 audio signal is being transmitted.

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

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

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

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

PI=#5: A 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: A 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: 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.

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

videotelephony fallback allowed SETUP message: 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.

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

videotelephony SETUP message for CR2 : A SETUP message containing a single BC=UDI and a single HLC=videotelephony_sc. The SETUP message is used to establish the second connection in a videotelephony call requiring two connections.

3.2 Abbreviations

For the purposes of this ETS, the following abbreviations apply:

ATS	Abstract Test Suite
BC	Bearer Capability information element
CR1	Call Reference for the first call
CR2	Call Reference for the second call
CR3	Call Reference for the third call
HLC	High Layer Compatibility information element
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

For TSS specific abbreviations, see clause 4.

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:

UT7V User side telephony 7 kHz, videotelephony teleservices and generic protocol.

4.2 Second test group level

The second test group level indicates whether the IUT is the calling or the called terminal:

ORIG Calling User Interface;
DEST Called User Interface.

4.3 Third test group level

The third test group level indicates whether the test purpose covers a requirement applicable to valid behaviour, to invalid behaviour or to inopportune behaviour:

BV Valid behaviour test purpose;
BI Invalid Behaviour test purpose;
BO inOpportune Behaviour test purpose.

4.4 Fourth test group level

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

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

TL7 Telephony 7 kHz teleservice. The test purpose covers a requirement applicable for the telephony 7 kHz part of ETS 300 267-1 [5] (clause 6);

VTL Videotelephony teleservice. The test purpose covers a requirement applicable for the videotelephony part of ETS 300 267-1 [5] (clause 7).

The group for generic requirements does not appear in the TSS of the combined test purposes. None of the generic test purposes can be considered as testable.

4.5 Fifth test group level

The fifth test group level indicates which kind of functionality is tested and, more precisely, whether the test purposes cover 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.

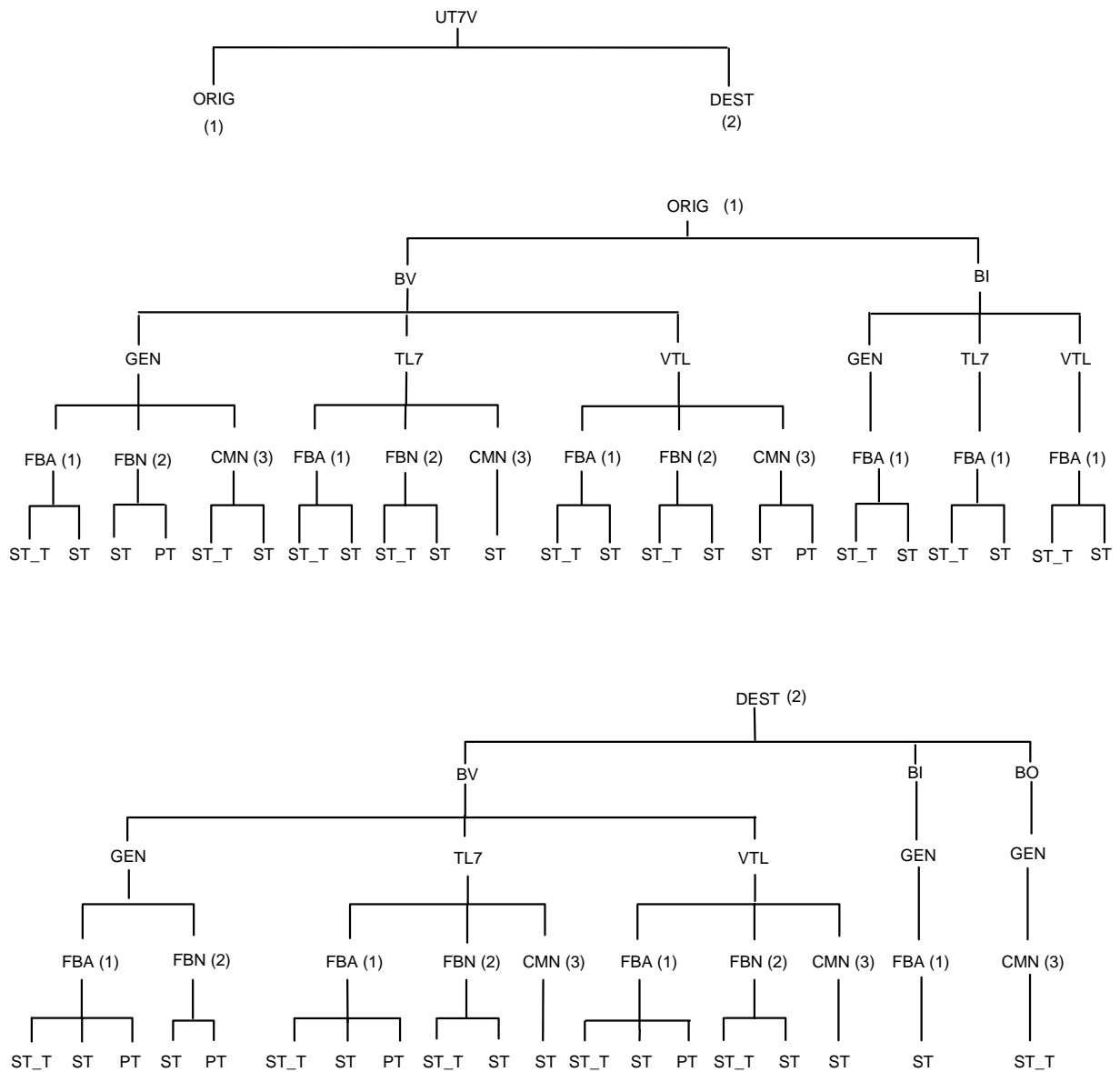


Figure 1: Test suite structure

4.6 Sixth test group level

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

- ST An implementation which supports user requirements at the coincident S and T reference point;
- PT An implementation which supports user requirements for interworking with private ISDNs at the T reference point;
- ST_T An implementation which supports user requirements at the coincident S and T reference point or user requirements for interworking with private ISDNs at the T reference point.

The TSS for combined test purposes, described in clause 6, neither contains groups that include only untestable test purposes nor the sixth test group level due to the fact that combined test purposes contain combinations of both ST, ST_T and PT test purposes.

5 Test purposes for generic requirements, telephony 7 kHz and video-telephony teleservices

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><nnn>_<nn>		
<requirement>	GTP TTP VTP	generic protocol requirement telephony 7 kHz requirement videotelephony requirement
<nnn>	1st digit 2nd digit 3rd digit	1 Originating Interface; 2 Destination Interface 1 Valid; 2 Invalid; 3 Inopportune 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 ETS 300 267-1 [5]:	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 ETS 300 267-2 [6].	
Test purpose	Description of the test purpose.	
Cross reference	GTP/TTP/VTP 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 ETS 300 267-2 [6] (in which case items are not prefixed by a reference number) and from I-ETS 300 314 [8].

Some of the telephony 7 kHz or videotelephony 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 or videotelephony test purpose.

Untestable test purposes are listed using *italic* font. Test purposes for generic protocol requirements which correspond to no particular IUT have been considered as untestable. Test purposes which test an unframed mode in the B-channel or an internal behaviour of the IUT have also been considered as untestable.

5.2 Calling user interface

5.2.1 Valid behaviour

5.2.1.1 Generic requirements

5.2.1.1.1 Fallback allowed

5.2.1.1.1.1 User requirements at the coincident S and T reference point or for interworking with private ISDNs

GTP111_01	Reference to ETS 300 267-1 [5]: 5.6.1, 5.5.1.1, 5.3 a)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/GEN /FBA/ST_T	
Selection criteria	MC 1.1 OR MC 2.1	
Test purpose	Verify that the IUT, in the Null call state U0, when initiating a call, sends a SETUP message containing two BCs, BC1 and BC2 in ascending order of priority, and not containing LLC.	
Cross reference		
Comments	Sending of SETUP, fallback from BC2 to BC1 allowed: the two BCs are included in the SETUP message in ascending order of priority, i.e. BC2 appears subsequent to BC1. The reference to 5.3 a), is included because of the omission from 5.5.1.1 of the requirement that, where the BC is repeated in the SETUP message, the inclusion of the LLC shall not occur.	

GTP111_02	Reference to ETS 300 267-1 [5]: 5.6.1, 5.5.1.1	Other relevant reference: ETS 300 102-1 [2] 5.1.6
TSS reference	UT7V/ORIG/BV/GEN/FBA /ST_T	
Selection criteria	(MC 1.1 OR MC 2.1) AND NOT MC 1.1 [6] AND TM 4 [6]	
Test purpose	Verify that the IUT, in the Overlap Sending call state U2, having sent a SETUP message containing two BCs, BC1 and BC2, and no LLC, on receipt of a PROGRESS message, containing PI=#5, does not stop optional timer T304.	
Cross reference		
Comments	Receipt of PROGRESS: fallback allowed and occurred in the network. The IUT has to wait T304 (30 s) for DISCONNECT as defined in ETS 300 102-1 [2]	

GTP111_03	Reference to ETS 300 267-1 [5]: 5.6.1, 5.5.1.1	Other relevant reference: ETS 300 102-1 [2] 5.1.6
TSS reference	UT7V/ORIG/BV/GEN/FBA /ST_T	
Selection criteria	(MC 1.1 OR MC 2.1) AND TM 10 [6]	
Test purpose	Verify that the IUT, in the Outgoing Call Proceeding call state U3, having sent a SETUP message containing two BCs, BC1 and BC2, and no LLC, on receipt of a PROGRESS message, containing PI=#5, does not stop optional timer T310.	
Cross reference		
Comments	Receipt of PROGRESS: fallback allowed and occurred in the network. The IUT has to wait T310 (more than 40 sec) for DISCONNECT as defined in ETS 300 102-1 [2]	

GTP111_04	Reference to ETS 300 267-1 [5]: 5.6.3, 5.5.3.1	Other relevant reference:
TSS reference	UT7V/ORIG/BV/GEN/FBA/ST_T	
Selection criteria	MC 1.3 OR MC 2.3	
Test purpose	Verify that the IUT, in the Null call state U0, when initiating a call, sends a SETUP message containing two HLCs, HLC1 and HLC2 in ascending order of priority.	
Cross reference		
Comments	Sending of SETUP, fallback from HLC2 to HLC1 allowed: the two HLCs are included in the SETUP message in ascending order of priority, i.e. HLC2 appears subsequent to HLC1.	

GTP111_05	Reference to ETS 300 267-1 [5]: 5.6.3, 5.5.3.1	Other relevant reference: ETS 300 102-1 [2] 5.1.6
TSS reference	UT7V/ORIG/BV/GEN/FBA/ST_T	
Selection criteria	(MC 1.3 OR MC 2.3) AND NOT MC 1.1 [6] AND TM 4 [6]	
Test purpose	Verify that the IUT, in the Overlap Sending call state U2, having sent a SETUP message containing two HLCs, HLC1 and HLC2, on receipt of a PROGRESS message, containing PI=#5, does not stop optional timer T304.	
Cross reference		
Comments	Receipt of PROGRESS: fallback allowed and occurred in the network. The IUT has to wait T304 before DISCONNECT as defined in ETS 300 102-1 [2]	

GTP111_06	Reference to ETS 300 267-1 [5]: 5.6.3, 5.5.3.1	Other relevant reference: ETS 300 102-1 [2] 5.1.6
TSS reference	UT7V/ORIG/BV/GEN/FBA/ST_T	
Selection criteria	(MC 1.3 OR MC 2.3) AND TM 10 [6]	
Test purpose	Verify that the IUT, in the Outgoing Call Proceeding call state U3, having sent a SETUP message containing two HLCs, HLC1 and HLC2, on receipt of a PROGRESS message, containing PI=#5, does not stop optional timer T310.	
Cross reference		
Comments	Receipt of PROGRESS: fallback allowed and occurred in the network. The IUT has to wait T310 before DISCONNECT as defined in ETS 300 102-1 [2]	

5.2.1.1.1.2 User requirements at the coincident S and T reference point

GTP111_07	Reference to ETS 300 267-1 [5]: 5.5.1.2 b)	Other relevant reference: ETS 300 102-1 [2] 5.1.6
TSS reference	UT7V/ORIG/BV/GEN/FBA/ST	
Selection criteria	R 3.1 AND MC 1.1	
Test purpose	Verify that the IUT, in the Call Initiated call state U1, having sent a SETUP message containing two BCs, BC1 and BC2, and no LLC, on receipt of PI=#1 in PROGRESS message, subsequent to receiving PI=#5 in a CALL PROCEEDING message, assumes fallback to a bearer service category of circuit mode 64 kbit/s 8 kHz structured usable for 3,1 kHz audio information transfer in the B-channel.	
Cross reference		
Comments	Fallback allowed and occurred, to the bearer service category, circuit-mode 64 kbit/s 8 kHz structured usable for 3,1 kHz audio information transfer, in the network.	

GTP111_08	Reference to ETS 300 267-1 [5]: 5.5.1.2 b)	Other relevant reference: ETS 300 102-1 [2] 5.1.6
TSS reference	UT7V/ORIG/BV/GEN/FBA/ST	
Selection criteria	R 3.1 AND MC 1.1	
Test purpose	Verify that the IUT, in the Call Initiated call state U1, having sent a SETUP message containing two BCs, BC1 and BC2, and no LLC, on receipt of PI=#2 in PROGRESS message, subsequent to receiving PI=#5 in a CALL PROCEEDING message, assumes fallback to a bearer service category of circuit mode 64 kbit/s 8 kHz structured usable for 3,1 kHz audio information transfer in the B-channel.	
Cross reference		
Comments	Fallback allowed and occurred, to the bearer service category, circuit-mode 64 kbit/s 8 kHz structured usable for 3,1 kHz audio information transfer, in the network.	

GTP111_09	Reference to ETS 300 267-1 [5]: 5.6.3, 5.5.3.2 b)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/GEN/FBA/ST	
Selection criteria	R 3.1 AND MC 1.3	
Test purpose	Verify that the IUT, in the Call Initiated call state U1, having sent a SETUP message containing two HLCs, HLC1 and HLC2, on receipt of PI=#1 in a PROGRESS message, subsequent to receiving PI=#5 in a CALL PROCEEDING message, assumes fallback to a bearer service category of circuit mode 64 kbit/s 8 kHz structured usable for 3,1 kHz audio information transfer in the B-channel.	
Cross reference		
Comments	Fallback allowed and occurred, to the bearer service category, circuit-mode 64 kbit/s 8 kHz structured usable for 3,1 kHz audio information transfer, in the network.	

GTP111_10	Reference to ETS 300 267-1 [5]: 5.6.3, 5.5.3.2 b)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/GEN/FBA/ST	
Selection criteria	R 3.1 AND MC 1.3	
Test purpose	Verify that the IUT, in the Call Initiated call state U1, having sent a SETUP message containing two HLCs, HLC1 and HLC2, on receipt of PI=#2 in a PROGRESS message, subsequent to receiving PI=#5 in a CALL PROCEEDING message, assumes fallback to a bearer service category of circuit mode 64 kbit/s 8 kHz structured usable for 3,1 kHz audio information transfer in the B-channel.	
Cross reference		
Comments	Fallback allowed and occurred, to the bearer service category, circuit-mode 64 kbit/s 8 kHz structured usable for 3,1 kHz audio information transfer, in the network.	

GTP111_11	Reference to ETS 300 267-1 [5]: 5.5.7	Other relevant reference:
TSS reference	UT7V/ORIG/BV/GEN/FBA/ST	
Selection criteria	R 3.1 AND MC 1.1	
Test purpose	Verify that the IUT, in the Outgoing Call Proceeding call state U3, having sent a SETUP message, containing two BCs, with the second (higher priority) BC=UDI/TA, on receipt of tones and announcements from the network, presents the tones and announcements to the user.	
Cross reference		
Comments	Tones and announcements received from the network are as specified in CCITT Recommendation G.711 [9]. Tones and announcements sent to the user are as specified in ETS 300 082 [1], clause 6.	

5.2.1.1.2 Fallback not allowed

5.2.1.1.2.1 User requirements at the coincident S and T reference point

GTP112_01	Reference to ETS 300 267-1 [5]: 5.5.7	Other relevant reference: ETS 300 102-1 [2] 5.1.3
TSS reference	UT7V/ORIG/BV/GEN/FBN/ST	
Selection criteria	R 3.1 AND MC 1.2 [6]	
Test purpose	Verify that the IUT, in the Call Initiated call state U1, having sent a SETUP message containing BC=UDI/TA and an incomplete sending indication, on receipt of a SETUP ACKNOWLEDGE message, which includes PI=#8, attaches to the B-channel.	
Cross reference		
Comments		

GTP112_02	Reference to ETS 300 267-1 [5]: 5.5.7	Other relevant reference: ETS 300 102-1 [2] 5.1.7
TSS reference	UT7V/ORIG/BV/GEN/FBN/ST	
Selection criteria	R 3.1 AND MT 5 AND (NOT MC 1.7 [6])	
Test purpose	Verify that an IUT, in the Call Initiated call state U1, having sent a SETUP message containing BC=UDI/TA, and not having attached to the B-channel, on receipt of an ALERTING message, attaches to the B-channel and initiates an internally generated alerting indication.	
Cross reference		
Comments		

GTP112_03	Reference to ETS 300 267-1 [5]: 5.5.7	Other relevant reference: ETS 300 102-1 [2] 5.1.7
TSS reference	UT7V/ORIG/BV/GEN/FBN/ST	
Selection criteria	R 3.1 AND MT 5 AND (NOT MC 1.7 [6])	
Test purpose	Verify that an IUT, in the Outgoing Call Proceeding call state U3, having sent a SETUP message containing BC=UDI/TA, and not having attached to the B-channel, on receipt of an ALERTING message, attaches to the B-channel and initiates an internally generated alerting indication.	
Cross reference		
Comments		

GTP112_04	Reference to ETS 300 267-1 [5]: 5.5.7	Other relevant reference: ETS 300 102-1 [2] 5.1.6
TSS reference	UT7V/ORIG/BV/GEN/FBN/ST	
Selection criteria	R 3.1 AND MC 1.2 [6]	
Test purpose	Verify that the IUT, in the Call Initiated call state U1, having sent a SETUP message containing BC=UDI/TA and an incomplete sending indication, and not having attached to the B-channel, on receipt of a SETUP ACKNOWLEDGE message containing PI=#1, attaches to, and monitors, the B-channel for further in-band information.	
Cross reference		
Comments		

GTP112_05	Reference to ETS 300 267-1 [5]: 5.5.7	Other relevant reference: ETS 300 102-1 [2] 5.1.6
TSS reference	UT7V/ORIG/BV/GEN/FBN/ST	
Selection criteria	R 3.1 AND MT 5	
Test purpose	Verify that the IUT, in the Call Initiated call state U1, having sent a SETUP message containing BC=UDI/TA, and not having attached to the B-channel, on receipt of a CALL PROCEEDING message containing PI=#1, attaches to, and monitors, the B-channel for further in-band information.	
Cross reference		
Comments		

GTP112_06	Reference to ETS 300 267-1 [5]: 5.5.7	Other relevant reference: ETS 300 102-1 [2] 5.1.6
TSS reference	UT7V/ORIG/BV/GEN/FBN/ST	
Selection criteria	R 3.1 AND MT 5	
Test purpose	Verify that the IUT, in the Outgoing Call Proceeding call state U3, having sent a SETUP message containing BC=UDI/TA, and not having attached to the B-channel, on receipt of an ALERTING message containing PI=#1, attaches to, and monitors, the B-channel for further in-band information.	
Cross reference		
Comments		

GTP112_07	Reference to ETS 300 267-1 [5]: 5.5.7	Other relevant reference: ETS 300 102-1 [2] 5.1.6
TSS reference	UT7V/ORIG/BV/GEN/FBN/ST	
Selection criteria	R 3.1 AND MT 5	
Test purpose	Verify that the IUT, in the Call Delivered call state U4, having sent a SETUP message containing BC=UDI/TA, and not having attached to the B-channel, on receipt of an PROGRESS message containing PI=#1, attaches to, and monitors, the B-channel for further in-band information.	
Cross reference		
Comments		

GTP112_08	Reference to ETS 300 267-1 [5]: 5.5.7	Other relevant reference:
TSS reference	UT7V/ORIG/BV/GEN/FBN/ST	
Selection criteria	R 3.1 AND MT 5	
Test purpose	Verify that the IUT, in the Outgoing Call Proceeding call state U3, having sent a SETUP message, containing a single BC=UDI/TA, on receipt of tones and announcements from the network, presents the tones and announcements to the user in the B-channel.	
Cross reference		
Comments	Tones and announcements received from the network are as specified in CCITT Recommendation G.711 [9]. Tones and announcements sent to the user are as specified in ETS 300 082 [1], clause 6.	

5.2.1.1.2.2 User requirements for interworking with private ISDNs

GTP112_09	Reference to ETS 300 267-1 [5]: 5.6.7, 5.5.7	Other relevant reference: ETS 300 102-1 [2] 5.1.6
TSS reference	UT7V/ORIG/BV/GEN/FBN/PT	
Selection criteria	R 3.2 AND MT 5	
Test purpose	Verify that the IUT, in the Null call state U0, is capable of sending a SETUP message containing a single BC=UDI/TA and PI=#1 or PI=#3.	
Cross reference		
Comments	Sending of SETUP: interworking occurred within the IUT.	

5.2.1.1.3 Connection management

5.2.1.1.3.1 User requirements at the coincident S and T reference point or for interworking with private ISDNs

GTP113_01	Reference to ETS 300 267-1 [5]: 5.6.6, 5.5.6.1 a)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/GEN/CMN/ST_T	
Selection criteria	((R 3.1 AND MC 1.6) OR R 3.2) AND MT 5	
Test purpose	Verify that the IUT, in the Null call state U0, when initiating a call which requires a second or subsequent connection, sends a SETUP message containing BC with a specification of an appropriate in-band signalling protocol.	
Cross reference		
Comments		

GTP113_02	Reference to ETS 300 267-1 [5]: 5.6.6, 5.5.6.1 c)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/GEN/CMN/ST_T	
Selection criteria	((R 3.1 AND MC 1.6) OR R 3.2) AND MT 5	
Test purpose	Verify that the IUT, in the Active call state U10 for CR1 and in the Null call state U0 for CR2, sends a SETUP message for CR2, containing BC with the same in-band signalling protocol specification as specified for the first connection CR1.	
Cross reference		
Comments		

GTP113_03	Reference to ETS 300 267-1 [5]: 5.6.6, 5.5.6.1 c)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/GEN/CMN/ST_T	
Selection criteria	((R 3.1 AND MC 1.6) OR R 3.2) AND MT 5	
Test purpose	Verify that the IUT, with CR1 and CR2 in the Active call state U10 and CR3 in the Null call state U0, includes in the SETUP message for CR3, BC with the same in-band signalling protocol specification as specified for CR1 and CR2.	
Cross reference		
Comments		

5.2.1.1.3.2 User requirements at the coincident S and T reference point

GTP113_04	Reference to ETS 300 267-1 [5]: 5.5.6.1 b)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/GEN/CMN/ST	
Selection criteria	R 3.1 AND MC 1.6 AND MT 5	
Test purpose	Verify that the IUT in the Active call state U10 for CR1 and in the Null call state U0 for CR2 and the compatibility checking and the in-band signalling procedures have identified a common mode which requires a second connection, sends a SETUP message for CR2.	
Cross reference		
Comments	Establishment of second connection following receipt of CONNECT.	

GTP113_05	Reference to ETS 300 267-1 [5]: 5.5.6.1 b)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/GEN/CMN/ST	
Selection criteria	R 3.1 AND MC 1.6 AND MT 5	
Test purpose	Verify that the IUT, with CR1 and CR2 in the Active call state U10 and CR3 in the Null call state U0, and the compatibility checking and the in-band signalling procedures have identified a common mode which requires a subsequent connection, sends a SETUP message for CR3.	
Cross reference		
Comments	Establishment of subsequent connection following receipt of CONNECT.	

GTP113_06	Reference to ETS 300 267-1 [5]: 5.5.7	Other relevant reference:
TSS reference	UT7V/ORIG/BV/GEN/CMN/ST	
Selection criteria	R 3.1 AND MT 5	
Test purpose	Verify that the IUT, in the Active call state U10, having sent a SETUP message, containing BC=UDI/TA, on receipt of tones and announcements from the network, presents the tones and announcements to the user in the B-channel.	
Cross reference		
Comments	Tones and announcements received from the network are as specified in CCITT Recommendation G.711 [9]. Tones and announcements sent to the user are as specified in ETS 300 082 [1], clause 6.	

5.2.1.2 Telephony 7 kHz teleservice

5.2.1.2.1 Fallback allowed

5.2.1.2.1.1 User requirements at the coincident S and T reference point or for interworking with private ISDNs

TTP111_01	Reference to ETS 300 267-1 [5]: 6.6, 6.5.1 a), 5.6.1, 5.5.1.1	Other relevant reference:
TSS reference	UT7V/ORIG/BV/TL7/FBA/ST_T	
Selection criteria	R 1.1 AND (MC 1.1 OR MC 2.1)	
Test purpose	Verify that the IUT, in the Null call state U0, when initiating a call and it allows fallback, sends a SETUP message containing two BCs, with the first BC=speech and the second BC=UDI/TA, HLC=telephony, and not containing LLC and enters the Call Initiated call state U1.	
Cross reference	Related GTP: GTP111_01.	
Comments		

TTP111_02	Reference to ETS 300 267-1 [5]: 6.6, 6.5.1 c), 6.5.1 e)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/TL7/FBA/ST_T	
Selection criteria	R 1.1 AND (MC 1.1 OR MC 2.1)	
Test purpose	Verify that the IUT, in the Outgoing Call Proceeding call state U3, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a CONNECT message, containing BC=UDI/TA, enters the Active call state U10.	
Cross reference		
Comments	Receipt of CONNECT (BC=UDI/TA): fallback allowed but did not occur. The IUT may send a connect acknowledge.	

TTP111_03	Reference to ETS 300 267-1 [5]: 6.6, 6.5.1 c), 6.5.1 e)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/TL7/FBA/ST_T	
Selection criteria	R 1.1 AND (MC 1.1 OR MC 2.1)	
Test purpose	Verify that the IUT, in the Call Delivered call state U4, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a CONNECT message, containing BC=UDI/TA, enters the Active call state U10.	
Cross reference		
Comments	Receipt of CONNECT (BC=UDI/TA): fallback allowed but did not occur. The IUT may send a connect acknowledge.	

TTP111_04	Reference to ETS 300 267-1 [5]: 6.6, 6.5.1 c), 6.5.1 f)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/TL7/FBA/ST_T	
Selection criteria	R 1.1 AND (MC 1.1 OR MC 2.1)	
Test purpose	Verify that the IUT, in the Outgoing Call Proceeding call state U3, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a CONNECT message, containing BC=speech, enters the Active call state U10.	
Cross reference		
Comments	Receipt of CONNECT (BC=speech): fallback allowed and occurred, to the telephony 3,1 kHz teleservice, at the destination user.	

TTP111_05	Reference to ETS 300 267-1 [5]: 6.6, 6.5.1 c), 6.5.1 f)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/TL7/FBA/ST_T	
Selection criteria	R 1.1 AND (MC 1.1 OR MC 2.1)	
Test purpose	Verify that the IUT, in the Call Delivered call state U4, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a CONNECT message, containing BC=speech, enters the Active call state U10.	
Cross reference		
Comments	Receipt of CONNECT (BC=speech): fallback allowed and occurred, to the telephony 3,1 kHz teleservice, at the destination user.	

TTP111_06	Reference to ETS 300 267-1 [5]: 6.6, 6.5.1 d), 6.5.1 f)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/TL7/FBA/ST_T	
Selection criteria	R 1.1 AND (MC 1.1 OR MC 2.1)	
Test purpose	Verify that the IUT, in the Call Initiated call state U1, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a CALL PROCEEDING message, containing PI=#5 and BC=speech, then on receipt of a CONNECT message, not containing BC, enters the Active call state U10.	
Cross reference		
Comments	Receipt of CONNECT (no BC): fallback allowed and occurred, to the telephony 3,1 kHz teleservice, in the network.	

TTP111_07	Reference to ETS 300 267-1 [5]: 6.6, 6.5.1 d), 6.5.1 f)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/TL7/FBA/ST_T	
Selection criteria	R 1.1 AND (MC 1.1 OR MC 2.1)	
Test purpose	Verify that the IUT, in the Outgoing Call Proceeding call state U3, having sent a telephony 7 kHz fallback allowed SETUP message, and having received a PROGRESS message, containing PI=#5 and BC=speech, on receipt of a CONNECT message, not containing BC, enters the Active call state U10.	
Cross reference		
Comments	Receipt of CONNECT (no BC): fallback allowed and occurred, to the telephony 3,1 kHz teleservice, in the network.	

TTP111_08	Reference to ETS 300 267-1 [5]: 6.6, 6.5.1 d), 6.5.1 f)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/TL7/FBA/ST_T	
Selection criteria	R 1.1 AND (MC 1.1 OR MC 2.1)	
Test purpose	Verify that the IUT, in the Call Delivered call state U4, having sent a telephony 7 kHz fallback allowed SETUP message, and having received an ALERTING message, containing PI=#5 and BC=speech, on receipt of a CONNECT message, not containing BC, enters the Active call state U10.	
Cross reference		
Comments	Receipt of CONNECT (no BC): fallback allowed and occurred, to the telephony 3,1 kHz teleservice, in the network.	

5.2.1.2.1.2 User requirements at the coincident S and T reference point

TTP111_09	Reference to ETS 300 267-1 [5]: 6.5.1 c), 6.5.1 e)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/TL7/FBA/ST	
Selection criteria	R 3.1 AND R 1.1 AND MC 1.1	
Test purpose	Verify that the IUT, in the Outgoing Call Proceeding call state U3, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a CONNECT message, containing BC=UDI/TA, sends multiframe structures and starts initialisation procedure in the B-channel.	
Cross reference		
Comments	Receipt of CONNECT (BC=UDI/TA): fallback allowed but did not occur.	

TTP111_10	Reference to ETS 300 267-1 [5]: 6.5.1 c), 6.5.1 e)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/TL7/FBA/ST	
Selection criteria	R 3.1 AND R 1.1 AND MC 1.1	
Test purpose	Verify that the IUT, in the Call Delivered call state U4, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a CONNECT message, containing BC=UDI/TA, sends multiframe structures and starts initialisation procedure in the B-channel.	
Cross reference		
Comments	Receipt of CONNECT (BC=UDI/TA): fallback allowed but did not occur.	

TTP111_11	Reference to ETS 300 267-1 [5]: 6.5.1 c), 6.5.1 f)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/TL7/FBA/ST	
Selection criteria	R 3.1 AND R 1.1 AND MC 1.1	
Test purpose	Verify that the IUT, in the Outgoing Call Proceeding call state U3, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a CONNECT message, containing BC=speech, initiates in-band procedures in the B-channel.	
Cross reference		
Comments	Receipt of CONNECT (BC=speech): fallback allowed and occurred, to the telephony 3,1 kHz teleservice, at the destination user. Nothing is specified in ETS 300 082 [1], clause 6 about in-band procedures	

TTP111_12	Reference to ETS 300 267-1 [5]: 6.5.1 c), 6.5.1 f)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/TL7/FBA/ST	
Selection criteria	R 3.1 AND R 1.1 AND MC 1.1	
Test purpose	Verify that the IUT, in the Call Delivered call state U4, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a CONNECT message, containing BC=speech, initiates in-band procedures in the B-channel.	
Cross reference		
Comments	Receipt of CONNECT (BC=speech): fallback allowed and occurred, to the telephony 3,1 kHz teleservice, at the destination user. Nothing is specified in ETS 300 082 [1], clause 6 about in-band procedures	

TTP111_13	Reference to ETS 300 267-1 [5]: 6.5.1 d), 6.5.1 f)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/TL7/FBA/ST	
Selection criteria	R 3.1 AND R 1.1 AND MC 1.1	
Test purpose	Verify that the IUT, in the Call Initiated call state U1, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a CALL PROCEEDING message, containing PI=#5 and BC=speech, then on receipt of a CONNECT message, not containing BC, initiates the in-band procedures in the B-channel.	
Cross reference		
Comments	Receipt of CONNECT (no BC): fallback allowed and occurred, to the telephony 3,1 kHz teleservice, in the network. Nothing is specified in ETS 300 082 [1], clause 6 about in-band procedures	

TTP111_14	Reference to ETS 300 267-1 [5]: 6.5.1 d), 6.5.1 f)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/TL7/FBA/ST	
Selection criteria	R 3.1 AND R 1.1 AND MC 1.1	
Test purpose	Verify that the IUT, in the Outgoing Call Proceeding call state U3, having sent a telephony 7 kHz fallback allowed SETUP message, and having received a PROGRESS message, containing PI=#5 and BC=speech, on receipt of a CONNECT message, not containing BC, initiates the in-band procedures in the B-channel.	
Cross reference		
Comments	Receipt of CONNECT (no BC): fallback allowed and occurred, to the telephony 3,1 kHz teleservice, in the network. Nothing is specified in ETS 300 082 [1], clause 6 about in-band procedures	

TTP111_15	Reference to ETS 300 267-1 [5]: 6.5.1 d), 6.5.1 f)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/TL7/FBA/ST	
Selection criteria	R 3.1 AND R 1.1 AND MC 1.1	
Test purpose	Verify that the IUT, in the Call Delivered call state U4, having sent a telephony 7 kHz fallback allowed SETUP message, and having received an ALERTING message, containing PI=#5 and BC=speech, on receipt of a CONNECT message, not containing BC, initiates the in-band procedures in the B-channel.	
Cross reference		
Comments	Receipt of CONNECT (no BC): fallback allowed and occurred, to the telephony 3,1 kHz teleservice, in the network. Nothing is specified in ETS 300 082 [1], clause 6 about in-band procedures	

TTP111_16	Reference to ETS 300 267-1 [5]: 6.5.1 g), 5.5.7	Other relevant reference:
TSS reference	UT7V/ORIG/BV/TL7/FBA/ST	
Selection criteria	R 3.1 AND R 1.1 AND MC 1.1	
Test purpose	Verify that the IUT, in the Outgoing Call Proceeding call state U3, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of tones and announcements from the network, initiates the in-band procedures in the B-channel in order to receive the tones and announcements.	
Cross reference	Related GTP: GTP111_11.	
Comments	Tones and announcements received from the network are as specified in CCITT Recommendation G.711 [9]. Tones and announcements sent to the user are as specified in ETS 300 082 [1], clause 6.	

TTP111_17	Reference to ETS 300 267-1 [5]: 6.7	Other relevant reference:
TSS reference	UT7V/ORIG/BV/TL7/FBA/ST	
Selection criteria	R 3.1 AND R 1.1 AND MC 1.1	
Test purpose	Verify that the IUT, in the Outgoing Call Proceeding call state U3, having sent a telephony 7 kHz fallback allowed SETUP message, and having received PI=#1, on receipt of a CONNECT message, not containing BC, initiates the in-band procedures in the B-channel.	
Cross reference		
Comments	Fallback occurred due to interworking with the PSTN. Nothing is specified in ETS 300 082 [1], clause 6 about in-band procedures	

TTP111_18	Reference to ETS 300 267-1 [5]: 6.7	Other relevant reference:
TSS reference	UT7V/ORIG/BV/TL7/FBA/ST	
Selection criteria	R 3.1 AND R 1.1 AND MC 1.1	
Test purpose	Verify that the IUT, in the Call Delivered call state U4, having sent a telephony 7 kHz fallback allowed SETUP message, and having received PI=#1, on receipt of a CONNECT message, not containing BC, initiates the in-band procedures.	
Cross reference		
Comments	Fallback occurred due to interworking with the PSTN. Nothing is specified in ETS 300 082 [1], clause 6 about in-band procedures	

5.2.1.2.2 Fallback not allowed

5.2.1.2.2.1 User requirements at the coincident S and T reference point or for interworking with private ISDNs

TTP112_01	Reference to ETS 300 267-1 [5]: 6.6, 6.5.1 1)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/TL7/FBN/ST_T	
Selection criteria	R 1.1 AND MT 5	
Test purpose	Verify that the IUT, in the Null call state U0, to set up a telephony 7 kHz teleservice call for which fallback to 3,1 kHz is not allowed, sends a SETUP message containing a single BC=UDI/TA and HLC=telephony and enters the Call Initiated call state U1.	
Cross reference		
Comments		

TTP112_02	Reference to ETS 300 267-1 [5]: 6.5.1 3)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/TL7/FBN/ST_T	
Selection criteria	R 1.1 AND MT 5	
Test purpose	Verify that the IUT, in the Outgoing Call Proceeding call state U3, having sent a SETUP message containing a single BC=UDI/TA and HLC=telephony, on receipt of a CONNECT message, not containing BC, enters the Active call state U10.	
Cross reference		
Comments	Receipt of CONNECT (no BC), fallback not allowed.	

TTP112_03	Reference to ETS 300 267-1 [5]: 6.5.1 3)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/TL7/FBN/ST_T	
Selection criteria	R 1.1 AND MT 5	
Test purpose	Verify that the IUT, in the Call Delivered call state U4, having sent a SETUP message containing a single BC=UDI/TA and HLC=telephony, on receipt of a CONNECT message not containing BC, enters the Active call state U10	
Cross reference		
Comments	Receipt of CONNECT (no BC), fallback not allowed.	

5.2.1.2.2.2 User requirements at the coincident S and T reference point

TTP112_04	Reference to ETS 300 267-1 [5]: 6.5.1 2), 5.5.7	Other relevant reference:
TSS reference	UT7V/ORIG/BV/TL7/FBN/ST	
Selection criteria	R 3.1 AND R 1.1 AND MT 5	
Test purpose	Verify that the IUT, in the Outgoing Call Proceeding call state U3, having sent a SETUP message containing a single BC=UDI/TA and HLC=telephony, on receipt of tones and announcements from the network, initiates the in-band procedures in the B-channel in order to receive the tones and announcements.	
Cross reference	Related GTP: GTP112_08.	
Comments	Tones and announcements from the network are encoded as specified in CCITT Recommendation G.711 [9]. Nothing is specified in ETS 300 082 [1], clause 6 about in-band procedures	

TTP112_05	Reference to ETS 300 267-1 [5]: 6.5.1 3)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/TL7/FBN/ST	
Selection criteria	R 3.1 AND R 1.1 AND MT 5	
Test purpose	Verify that the IUT, in the Outgoing Call Proceeding call state U3, having sent a SETUP message containing a single BC=UDI/TA and HLC=telephony, on receipt of a CONNECT message, not containing BC, sends multiframe structures and starts initialisation procedure in the B-channel.	
Cross reference		
Comments	Receipt of CONNECT (no BC), fallback not allowed.	

TTP112_06	Reference to ETS 300 267-1 [5]: 6.5.1 3)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/TL7/FBN/ST	
Selection criteria	R 3.1 AND R 1.1 AND MT 5	
Test purpose	Verify that the IUT, in the Call Delivered call state U4, having sent a SETUP message containing a single BC=UDI/TA and HLC=telephony, on receipt of a CONNECT message, not containing BC, sends multiframe structures and starts initialisation procedure in the B-channel.	
Cross reference		
Comments	Receipt of CONNECT (no BC), fallback not allowed.	

5.2.1.2.3 Connection management

5.2.1.2.3.1 User requirements at the coincident S and T reference point

TTP113_01	Reference to ETS 300 267-1 [5]: 6.5.6	Other relevant reference: ETS 300 102-1 [2] 5.6.1
TSS reference	UT7V/ORIG/BV/TL7/CMN/ST	
Selection criteria	R 3.1 AND R 1.1 AND MC 6 [6]	
Test purpose	Verify that the IUT, in the Active call state U10, on request for call rearrangement by the user in a basic access configuration, before sending a SUSPEND message, switches to mode 0U (unframed), A-law in the B-channel.	
Cross reference		
Comments	Switching to mode 0U (unframed), A-law in the B-channel is specified in I-ETS 300 281 [7], clause 7	

TTP113_02	Reference to ETS 300 267-1 [5]: 6.5.6	Other relevant reference: ETS 300 102-1 [2] 5.6.4
TSS reference	UT7V/ORIG/BV/TL7/CMN/ST	
Selection criteria	R 3.1 AND R 1.1 AND MC 6 [6]	
Test purpose	Verify that the IUT, in the Resume request call state U17, on receipt of a RESUME ACKNOWLEDGE message, sends multiframe structures and starts initialisation procedure in the B-channel.	
Cross reference		
Comments		

5.2.1.3 Videotelephony teleservice

5.2.1.3.1 Fallback allowed

5.2.1.3.1.1 User requirements at the coincident S and T reference point or for interworking with private ISDNs

VTP111_01	Reference to ETS 300 267-1 [5]: 7.6, 7.5.1 a), 5.6.1, 5.5.1.1, 5.6.3, 5.5.3.1	Other relevant reference:
TSS reference	UT7V/ORIG/BV/VTL/FBA/ST_T	
Selection criteria	R 1.2 AND ((MC 1.1 AND MC 1.3) OR (MC 2.1 AND MC 2.3))	
Test purpose	Verify that the IUT, in the Null call state U0, when initiating a call and it allows fallback, sends 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 LLC and enters the Call Initiated call state U1.	
Cross reference	Related GTP: GTP111_01, GTP 553_01.	
Comments		

VTP111_02	Reference to ETS 300 267-1 [5]: 7.6, 7.5.1 c), 7.5.1 e)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/VTL/FBA/ST_T	
Selection criteria	R 1.2 AND ((MC 1.1 AND MC 1.3) OR (MC 2.1 AND MC 2.3))	
Test purpose	Verify that the IUT, in the Outgoing Call Proceeding call state U3, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing BC=UDI/TA and HLC=videotelephony_ic, enters the Active call state U10.	
Cross reference		
Comments	Receipt of CONNECT (BC=UDI/TA, HLC=videotelephony_ic): fallback allowed but did not occur at the destination user.	

VTP111_03	Reference to ETS 300 267-1 [5]: 7.6, 7.5.1 c), 7.5.1 e)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/VTL/FBA/ST_T	
Selection criteria	R 1.2 AND ((MC 1.1 AND MC 1.3) OR (MC 2.1 AND MC 2.3))	
Test purpose	Verify that the IUT, in the Call Delivered call state U4, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing BC=UDI/TA and HLC=videotelephony_ic, enters the Active call state U10.	
Cross reference		
Comments	Receipt of CONNECT (BC=UDI/TA, HLC=videotelephony_ic): fallback allowed but did not occur at the destination user.	

VTP111_04	Reference to ETS 300 267-1 [5]: 7.6, 7.5.1 c), 7.5.1 f)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/VTL/FBA/ST_T	
Selection criteria	R 1.2 AND ((MC 1.1 AND MC 1.3) OR (MC 2.1 AND MC 2.3))	
Test purpose	Verify that the IUT, in the Outgoing Call Proceeding call state U3, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing a single BC=speech and a single HLC=telephony, enters the Active call state U10.	
Cross reference		
Comments	Receipt of CONNECT (BC=speech, HLC=telephony): fallback allowed and occurred, to the telephony 3,1 kHz teleservice, at the destination user.	

VTP111_05	Reference to ETS 300 267-1 [5]: 7.6, 7.5.1 c), 7.5.1 f)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/VTL/FBA/ST_T	
Selection criteria	R 1.2 AND ((MC 1.1 AND MC 1.3) OR (MC 2.1 AND MC 2.3))	
Test purpose	Verify that the IUT, in the Call Delivered call state U4, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing a single BC=speech and a single HLC=telephony, enters the Active call state U10.	
Cross reference		
Comments	Receipt of CONNECT (BC=speech, HLC=telephony): fallback allowed and occurred, to the telephony 3,1 kHz teleservice, at the destination user.	

VTP111_06	Reference to ETS 300 267-1 [5]: 7.6, 7.5.1 c), 7.5.1 g), 6.5.1 e)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/VTL/FBA/ST_T	
Selection criteria	R 1.2 AND ((MC 1.1 AND MC 1.3) OR MC 2.1 AND MC 2.3))	
Test purpose	Verify that the IUT, in the Outgoing Call Proceeding call state U3, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing BC=UDI/TA and HLC=telephony, enters the Active call state U10.	
Cross reference		
Comments	Receipt of CONNECT (BC=UDI/TA, HLC=telephony): fallback allowed and occurred, to the telephony 7 kHz teleservice, at the destination user.	

VTP111_07	Reference to ETS 300 267-1 [5]: 7.6, 7.5.1 c), 7.5.1 g)6.5.1 e)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/VTL/FBA/ST_T	
Selection criteria	R 1.2 AND ((MC 1.1 AND MC 1.3) OR (MC 2.1 AND MC 2.3))	
Test purpose	Verify that the IUT, in the Call Delivered call state U4, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing BC=UDI/TA and HLC=telephony, enters the Active call state U10.	
Cross reference		
Comments	Receipt of CONNECT (BC=UDI/TA, HLC=telephony): fallback allowed and occurred, to the telephony 7 kHz teleservice, at the destination user.	

VTP111_08	Reference to ETS 300 267-1 [5]: 7.6, 7.5.1 d), 7.5.1 f)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/VTL/FBA/ST_T	
Selection criteria	R 1.2 AND ((MC 1.1 AND MC 1.3) OR (MC 2.1 AND MC 2.3))	
Test purpose	Verify that the IUT, in the Call Initiated call state U1, having sent a videotelephony fallback allowed SETUP message, on receipt of a CALL PROCEEDING message, containing PI=#5, BC=speech, and HLC=telephony, then on receipt of a CONNECT message containing neither BC nor HLC, enters the Active call state U10.	
Cross reference		
Comments	Receipt of CONNECT (no BC, no HLC): fallback allowed and occurred, to the telephony 3,1 kHz teleservice, in the network.	

VTP111_09	Reference to ETS 300 267-1 [5]: 7.6, 7.5.1 d), 7.5.1 f)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/VTL/FBA/ST_T	
Selection criteria	R 1.2 AND ((MC 1.1 AND MC 1.3) OR (MC 2.1 AND MC 2.3))	
Test purpose	Verify that the IUT, in the Outgoing Call Proceeding call state U3, having sent a videotelephony fallback allowed SETUP message, and having received a PROGRESS message, containing PI=#5, BC=speech, and HLC=telephony, on receipt of a CONNECT message containing neither BC nor HLC, enters the Active call state U10.	
Cross reference		
Comments	Receipt of CONNECT (no BC, no HLC): fallback allowed and occurred, to the telephony 3,1 kHz teleservice, in the network.	

VTP111_10	Reference to ETS 300 267-1 [5]: 7.6, 7.5.1 d), 7.5.1 f)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/VTL/FBA/ST_T	
Selection criteria	R 1.2 AND ((MC 1.1 AND MC 1.3) OR (MC 2.1 AND MC 2.3))	
Test purpose	Verify that the IUT, in the Call Delivered call state U4, having sent a videotelephony fallback allowed SETUP message, and having received an ALERTING message, containing PI=#5, BC=speech, and no HLC, on receipt of a CONNECT message containing neither BC nor HLC, enters the Active call state U10.	
Cross reference		
Comments	Receipt of CONNECT (no BC, no HLC): fallback allowed and occurred, to the telephony 3,1 kHz teleservice, in the network.	

VTP111_11	Reference to ETS 300 267-1 [5]: 7.6, 7.5.1 d), 7.5.1 f)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/VTL/FBA/ST_T	
Selection criteria	R 1.2 AND ((MC 1.1 AND MC 1.3) OR (MC 2.1 AND MC 2.3))	
Test purpose	Verify that the IUT, in the Call Delivered call state U4, having sent a videotelephony fallback allowed SETUP message, and having received an ALERTING message, containing PI=#5, BC=speech, and HLC=videotelephony_nex, on receipt of a CONNECT message containing neither BC nor HLC, enters the Active call state U10.	
Cross reference		
Comments	Receipt of CONNECT (no BC, no HLC): fallback allowed and occurred, to the telephony 3,1 kHz teleservice, in the network.	

5.2.1.3.1.2 User requirements at the coincident S and T reference point

VTP111_12	Reference to ETS 300 267-1 [5]: 7.5.1 c), 7.5.1 e)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/VTL/FBA/ST	
Selection criteria	R 3.1 AND R 1.2 AND MC 1.1 AND MC 1.3	
Test purpose	Verify that the IUT, in the Outgoing Call Proceeding call state U3, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing BC=UDI/TA and HLC=videotelephony_ic, sends multiframe structures and starts initialisation procedure in the B-channel.	
Cross reference		
Comments	Receipt of CONNECT (BC=UDI/TA, HLC=videotelephony_ic): fallback allowed but did not occur at the destination user.	

VTP111_13	Reference to ETS 300 267-1 [5]: 7.5.1 c), 7.5.1 e)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/VTL/FBA/ST	
Selection criteria	R 3.1 AND R 1.2 AND MC 1.1 AND MC 1.3	
Test purpose	Verify that the IUT, in the Call Delivered call state U4, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing BC=UDI/TA and HLC=videotelephony_ic, sends multiframe structures and starts initialisation procedure in the B-channel.	
Cross reference		
Comments	Receipt of CONNECT (BC=UDI/TA, HLC=videotelephony_ic): fallback allowed but did not occur at the destination user.	

VTP111_14	Reference to ETS 300 267-1 [5]: 7.5.1 c), 7.5.1 f)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/VTL/FBA/ST	
Selection criteria	R 3.1 AND R 1.2 AND MC 1.1 AND MC 1.3	
Test purpose	Verify that the IUT, in the Outgoing Call Proceeding call state U3, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing a single BC=speech and a single HLC=telephony, initiates the in-band procedures in the B-channel.	
Cross reference		
Comments	Receipt of CONNECT (BC=speech, HLC=telephony): fallback allowed and occurred, to the telephony 3,1 kHz teleservice, at the destination user. Nothing is specified in ETS 300 082 [1], clause 6 about in-band procedures	

VTP111_15	Reference to ETS 300 267-1 [5]: 7.5.1 c), 7.5.1 f)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/VTL/FBA/ST	
Selection criteria	R 3.1 AND R 1.2 AND MC 1.1 AND MC 1.3	
Test purpose	Verify that the IUT, in the Call Delivered call state U4, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing a single BC=speech and a single HLC=telephony, initiates the in-band procedures in the B-channel.	
Cross reference		
Comments	Receipt of CONNECT (BC=speech, HLC=telephony): fallback allowed and occurred, to the telephony 3,1 kHz teleservice, at the destination user. Nothing is specified in ETS 300 082 [1], clause 6 about in-band procedures	

VTP111_16	Reference to ETS 300 267-1 [5]: 7.5.1 c), 7.5.1 g), 6.5.1 e)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/VTL/FBA/ST	
Selection criteria	R 3.1 AND R 1.2 AND MC 1.1 AND MC 1.3	
Test purpose	Verify that the IUT, in the Outgoing Call Proceeding call state U3, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing BC=UDI/TA and HLC=telephony, sends multiframe structures and starts initialisation procedure in the B-channel.	
Cross reference		
Comments	Receipt of CONNECT (BC=UDI/TA, HLC=telephony): fallback allowed and occurred, to the telephony 7 kHz teleservice, at the destination user. If the IUT does not support the telephony 7 kHz teleservice, fallback to the telephony 3,1 kHz teleservice will occur in-band.	

VTP111_17	Reference to ETS 300 267-1 [5]: 7.5.1 c), 7.5.1 g), 6.5.1 e)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/VTL/FBA/ST	
Selection criteria	R 3.1 AND R 1.2 AND MC 1.1 AND MC 1.3	
Test purpose	Verify that the IUT, in the Call Delivered call state U4, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing BC=UDI/TA and HLC=telephony, sends multiframe structures and starts initialisation procedure in the B-channel.	
Cross reference		
Comments	Receipt of CONNECT (BC=UDI/TA, HLC=telephony): fallback allowed and occurred, to the telephony 7 kHz teleservice, at the destination user. If the IUT does not support the telephony 7 kHz teleservice, fallback to the telephony 3,1 kHz teleservice will occur in-band.	

VTP111_18	Reference to ETS 300 267-1 [5]: 7.5.1 d), 7.5.1 f)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/VTL/FBA/ST	
Selection criteria	R 3.1 AND R 1.2 AND MC 1.1 AND MC 1.3	
Test purpose	Verify that the IUT, in the Call Initiated call state U1, having sent a videotelephony fallback allowed SETUP message, on receipt of a CALL PROCEEDING message, containing PI=#5, BC=speech, and HLC=telephony, then on receipt of a CONNECT message containing neither BC nor HLC, initiates the in-band procedures in the B-channel.	
Cross reference		
Comments	Receipt of CONNECT (no BC, no HLC): fallback allowed and occurred, to the telephony 3,1 kHz teleservice, in the network. Nothing is specified in ETS 300 082 [1], clause 6 about in-band procedures	

VTP111_19	Reference to ETS 300 267-1 [5]: 7.5.1 d), 7.5.1 f)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/VTL/FBA/ST	
Selection criteria	R 3.1 AND R 1.2 AND MC 1.1 AND MC 1.3	
Test purpose	Verify that the IUT, in the Outgoing Call Proceeding call state U3, having sent a videotelephony fallback allowed SETUP message, and having received a PROGRESS message, containing PI=#5, BC=speech, and HLC=telephony, on receipt of a CONNECT message containing neither BC nor HLC, initiates the in-band procedures in the B-channel.	
Cross reference		
Comments	Receipt of CONNECT (no BC, no HLC): fallback allowed and occurred, to the telephony 3,1 kHz teleservice, in the network. Nothing is specified in ETS 300 082 [1], clause 6 about in-band procedures	

VTP111_20	Reference to ETS 300 267-1 [5]: 7.5.1 d), 7.5.1 f)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/VTL/FBA/ST	
Selection criteria	R 3.1 AND R 1.2 AND MC 1.1 AND MC 1.3	
Test purpose	Verify that the IUT, in the Call Delivered call state U4, having sent a videotelephony fallback allowed SETUP message, and having received an ALERTING message, containing PI=#5, BC=speech, and no HLC, on receipt of a CONNECT message containing neither BC nor HLC, initiates the in-band procedures in the B-channel.	
Cross reference		
Comments	Receipt of CONNECT (no BC, no HLC): fallback allowed and occurred, to the telephony 3,1 kHz teleservice, in the network. Nothing is specified in ETS 300 082 [1], clause 6 about in-band procedures	

VTP111_21	Reference to ETS 300 267-1 [5]: 7.5.1 d), 7.5.1 f)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/VTL/FBA/ST	
Selection criteria	R 3.1 AND R 1.2 AND MC 1.1 AND MC 1.3	
Test purpose	Verify that the IUT, in the Call Delivered call state U4, having sent a videotelephony fallback allowed SETUP message, and having received an ALERTING message, containing PI=#5, BC=speech, and HLC=videotelephony_nex, on receipt of a CONNECT message containing neither BC nor HLC, initiates the in-band procedures in the B-channel.	
Cross reference		
Comments	Receipt of CONNECT (no BC, no HLC): fallback allowed and occurred, to the telephony 3,1 kHz teleservice, in the network. Nothing is specified in ETS 300 082 [1], clause 6 about in-band procedures	

VTP111_22	Reference to ETS 300 267-1 [5]: 7.5.1 h), 5.5.7	Other relevant reference:
TSS reference	UT7V/ORIG/BV/VTL/FBA/ST	
Selection criteria	R 3.1 AND R 1.2 AND MC 1.1 AND MC 1.3	
Test purpose	Verify that the IUT, in the Outgoing Call Proceeding call state U3, having sent a videotelephony fallback allowed SETUP message, on receipt of tones and announcements from the network, which are encoded as specified in CCITT Recommendation G.711 [9], initiates the in-band procedures in order to receive the tones and announcements.	
Cross reference	Related GTP: GTP111_11.	
Comments	Nothing is specified in ETS 300 082 [1], clause 6 about in-band procedures	

VVTP111_23	Reference to ETS 300 267-1 [5]: 7.7	Other relevant reference:
TSS reference	UT7V/ORIG/BV/VTL/FBA/ST	
Selection criteria	R 3.1 AND R 1.2 AND MC 1.1 AND MC 1.3	
Test purpose	Verify that the IUT, in the Outgoing Call Proceeding call state U3, having sent a videotelephony fallback allowed SETUP message, and having received PI=#1, on receipt of a CONNECT message, not containing BC, initiates the in-band procedures in the B-channel.	
Cross reference		
Comments	Fallback occurred due to interworking with the PSTN. Nothing is specified in ETS 300 082 [1], clause 6 about in-band procedures	

VTP111_24	Reference to ETS 300 267-1 [5]: 7.7	Other relevant reference:
TSS reference	OUT7V/ORIG/BV/VTL/FBA/ST	
Selection criteria	R 3.1 AND R 1.2 AND MC 1.1 AND MC 1.3	
Test purpose	Verify that the IUT, in the Call Delivered call state U4, having sent a videotelephony fallback allowed SETUP message, and having received PI=#1, on receipt of a CONNECT message, not containing BC, initiates the in-band procedures in the B-channel.	
Cross reference		
Comments	Fallback occurred due to interworking with the PSTN. Nothing is specified in ETS 300 082 [1], clause 6 about in-band procedures	

5.2.1.3.2 Fallback not allowed

5.2.1.3.2.1 User requirements at the coincident S and T reference point or for interworking with private ISDNs

VTP112_01	Reference to ETS 300 267-1 [5]: 7.6, 7.5.1 1)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/VTL/FBN/ST_T	
Selection criteria	R 1.2 AND MT 5	
Test purpose	Verify that the IUT, in the Null call state U0, to set up a videotelephony call for which fallback to 7 kHz is not allowed, sends a SETUP message containing a single BC=UDI/TA and a single HLC=videotelephony_ic and enters the Call Initiated call state U1.	
Cross reference		
Comments		

VTP112_02	Reference to ETS 300 267-1 [5]: 7.5.1 3)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/VTL/FBN/ST_T	
Selection criteria	R 1.2 AND MT 5	
Test purpose	Verify that the IUT, in the Outgoing Call Proceeding call state U3, having sent a videotelephony fallback not allowed SETUP message, on receipt of a CONNECT message not containing BC, enters the Active call state U10.	
Cross reference		
Comments	Receipt of CONNECT (no BC), fallback not allowed.	

VTP112_03	Reference to ETS 300 267-1 [5]: 7.5.1 3)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/VTL/FBN/ST_T	
Selection criteria	R 1.2 AND MT 5	
Test purpose	Verify that the IUT, in the Call Delivered call state U4, having sent a videotelephony fallback not allowed SETUP message, on receipt of a CONNECT message not containing BC, enters the Active call state U10.	
Cross reference		
Comments	Receipt of CONNECT (no BC), fallback not allowed.	

5.2.1.3.2.2 User requirements at the coincident S and T reference point

VTP112_04	Reference to ETS 300 267-1 [5]: 7.5.1 2), 5.5.7	Other relevant reference:
TSS reference	UT7V/ORIG/BV/VTL/FBN/ST	
Selection criteria	R 3.1 AND R 1.2 AND MT 5	
Test purpose	Verify that the IUT, in the Outgoing Call Proceeding call state U3, having sent a videotelephony fallback not allowed SETUP message, on receipt of tones and announcements from the network, initiates the in-band procedures in the B-channel in order to receive the tones and announcements.	
Cross reference	Related GTP: GTP112_08.	
Comments	Tones and announcements received from the network are as specified in CCITT Recommendation G.711 [9]. Nothing is specified in ETS 300 082 [1], clause 6. about in-band procedures	

VTP112_05	Reference to ETS 300 267-1 [5]: 7.5.1 3)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/VTL/FBN/ST	
Selection criteria	R 3.1 AND R 1.2 AND MT 5	
Test purpose	Verify that the IUT, in the Outgoing Call Proceeding call state U3, having sent a videotelephony fallback not allowed SETUP message, on receipt of a CONNECT message, not containing BC, sends multiframe structures and starts initialisation procedure in the B-channel.	
Cross reference		
Comments	Receipt of CONNECT (no BC), fallback not allowed.	

VTP112_06	Reference to ETS 300 267-1 [5]: 7.5.1 3)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/VTL/FBN/ST	
Selection criteria	R 3.1 AND R 1.2 AND MT 5	
Test purpose	Verify that the IUT, in the Call Delivered call state U4, having sent a videotelephony fallback not allowed SETUP message, on receipt of a CONNECT message, not containing BC, sends multiframe structures and starts initialisation procedure in the B-channel.	
Cross reference		
Comments	Receipt of CONNECT (no BC), fallback not allowed.	

5.2.1.3.3 Connection management

5.2.1.3.3.1 User requirements at the coincident S and T reference point

VTP113_01	Reference to ETS 300 267-1 [5]: 7.5.1, 5.5.6.1 b)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/VTL/CMN/ST	
Selection criteria	R 3.1 AND R 1.2 AND MC 1.6 AND MT 5	
Test purpose	Verify that the IUT, in the Active call state U10 for CR1 and in the Null call state U0 for CR2, when during the capability exchange in mode initialisation in the first B-channel it has received and sent 2B and video capabilities, sends a videotelephony SETUP message for CR2 and enters the Call Initiated call state U1.	
Cross reference	Related GTP: GTP113_04, GTP113_02.	
Comments	Sending of videotelephony SETUP for CR2.	

VTP113_02	Reference to ETS 300 267-1 [5]: 7.5.1	Other relevant reference:
TSS reference	UT7V/ORIG/BV/VTL/CMN/ST	
Selection criteria	R 3.1 AND R 1.2 AND MC 1.6 AND MT 5	
Test purpose	Verify that the IUT, in the Active call state U10 for CR1 and in the Outgoing Call Proceeding call state U3 for CR2, having sent a videotelephony SETUP message for CR2, on receipt of a CONNECT message for CR2, sends multiframe structures and gains multiframe alignment and synchronisation on both B-channels .	
Cross reference		
Comments	Receipt of CONNECT (no BC, no HLC): connection II established.	

VTP113_03	Reference to ETS 300 267-1 [5]: 7.5.6	Other relevant reference: ETS 300 102-1 [2] 5.6.1
TSS reference	UT7V/ORIG/BV/VTL/CMN/ST	
Selection criteria	R 3.1 AND R 1.2 AND MC 6 [6]	
Test purpose	Verify that the IUT, in the Active call state U10, on request for call rearrangement by the user in a basic access configuration, before sending a SUSPEND message, switches to mode 0U (unframed), A-law in the B-channel.	
Cross reference		
Comments	Switching to mode 0U (unframed), A-law in the B-channel follows procedure P described in ETS 300 145 [4], subclause 6.3.1.	

VTP113_04	Reference to ETS 300 267-1 [5]: 7.5.6	Other relevant reference: ETS 300 102-1 [2] 5.6.4
TSS reference	UT7V/ORIG/BV/VTL/CMN/ST	
Selection criteria	R 3.1 AND R 1.2 AND MC 6 [6]	
Test purpose	Verify that the IUT, in the Resume request call state U17, on receipt of a RESUME ACKNOWLEDGE message, sends multiframe structures and starts initialisation procedure in the B-channel.	
Cross reference		
Comments		

VTP113_05	Reference to ETS 300 267-1 [5]: 7.5.6	Other relevant reference: ETS 300 102-1 [2] 5.6.1
TSS reference	UT7V/ORIG/BV/VTL/CMN/ST	
Selection criteria	R 3.1 AND R 1.2 AND MC 1.6 AND MC 6 [6]	
Test purpose	Verify that the IUT in the Active call state U10 for CR1 and CR2, on request for call rearrangement by the user in a basic access configuration, before sending a SUSPEND message for CR1 and CR2, switches to mode 0U (unframed), A-law in the B-channel.	
Cross reference		
Comments	Switching to mode 0U (unframed), A-law in the B-channel follows procedure P described in ETS 300 145 [4], subclause 6.3.1.	

VTP113_06	Reference to ETS 300 267-1 [5]: 7.5.6	Other relevant reference: ETS 300 102-1 [2] 5.6.1
TSS reference	UT7V/ORIG/BV/VTL/CMN/ST	
Selection criteria	R 3.1 AND R 1.2 AND MC 1.6 AND MC 6 [6]	
Test purpose	Verify that the IUT, in the Active call state U10 for CR1 and CR2, on request for call rearrangement by the user in a basic access configuration, sends a SUSPEND message for CR1 and CR2, each containing a Call identity information element with its call identity field set to a different value and enters the Suspend Request call state U15.	
Cross reference		
Comments		

VTP113_07	Reference to ETS 300 267-1 [5]: 7.5.6	Other relevant reference: ETS 300 102-1 [2] 5.6.4
TSS reference	UT7V/ORIG/BV/VTL/CMN/ST	
Selection criteria	R 3.1 AND R 1.2 AND MC 1.6 AND MC 6 [6]	
Test purpose	Verify that, in the case of two established connections for CR1 and CR2, the IUT, in the Resume request call state U17 for CR1 and CR2, on receipt of each RESUME ACKNOWLEDGE message, sends multiframe structures and starts initialisation procedure in the B-channel.	
Cross reference		
Comments		

5.2.1.3.3.2 User requirements for interworking with private ISDNs

VTP113_08	Reference to ETS 300 267-1 [5]: 7.6, 7.5.1, 5.6.6, 5.5.6.1 c)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/VTL/CMN/PT	
Selection criteria	R 3.2 AND R 1.2 AND MC 1.6 AND MT 5	
Test purpose	Verify that the IUT, in the Active call state U10 for CR1, is capable of sending a videotelephony SETUP message for CR2 and enters the Call Initiated call state U1.	
Cross reference	Related GTP: GTP113_02	
Comments	Sending of videotelephony connection 2 SETUP.	

5.2.2 Invalid behaviour

5.2.2.1 Generic requirements

5.2.2.1.1 Fallback allowed

5.2.2.1.1.1 User requirements at the coincident S and T reference point or for interworking with private ISDNs

GTP121_01	Reference to ETS 300 267-1 [5]: 5.6.1, 5.5.1.2 d)	Other relevant reference:
TSS reference	UT7V/ORIG/BI/GEN/ FBA/ST_T	
Selection criteria	MC 1.1 OR MC 2.1	
Test purpose	Verify that the IUT, in the Call Initiated call state U1, having sent a SETUP message containing two BCs, BC1 and BC2, no LLC on receipt of a CALL PROCEEDING message, containing BC1, but not containing PI=#5, enters state U3.	
Cross reference		
Comments	Receipt of CALL PROCEEDING: fallback allowed and occurred to BC1 in the network.	

GTP121_02	Reference to ETS 300 267-1 [5]: 5.6.1, 5.5.1.2 d)	Other relevant reference:
TSS reference	UT7V/ORIG/BI/GEN/ FBA/ST_T	
Selection criteria	MC 1.1 OR MC 2.1	
Test purpose	Verify that the IUT, in the Outgoing Call Proceeding call state U3, having sent a SETUP message containing two BCs, BC1 and BC2, and no LLC, on receipt of a PROGRESS message, containing BC1, but not containing PI=#5, remains in the Outgoing Call Proceeding call state U3.	
Cross reference		
Comments	Receipt of PROGRESS: fallback allowed and occurred to BC1 in the network.	

GTP121_03	Reference to ETS 300 267-1 [5]: 5.6.1, 5.5.1.2 d)	Other relevant reference:
TSS reference	UT7V/ORIG/BI/GEN/ FBA/ST_T	
Selection criteria	MC 1.1 OR MC 2.1	
Test purpose	Verify that the IUT, in the Outgoing Call Proceeding call state U3, having sent a SETUP message containing two BCs, BC1 and BC2, and no LLC, on receipt of an ALERTING message, containing BC1, but not containing PI=#5, enters state U4.	
Cross reference		
Comments	Receipt of ALERTING: fallback allowed and occurred to BC1 in the network.	

GTP121_04	Reference to ETS 300 267-1 [5]: 5.6.3, 5.5.3.2 a)	Other relevant reference:
TSS reference	UT7V/ORIG/BI/GEN/FBA/ST_T	
Selection criteria	MC 1.3 OR MC 2.3	
Test purpose	Verify that the IUT, in the Outgoing Call Proceeding call state U3, having sent a SETUP message containing two HLCs, HLC1 and HLC2, on receipt of no HLC in the CONNECT message, or prior messages to the CONNECT message, assumes that the high layer compatibility is unknown.	
Cross reference		
Comments	Receipt of CONNECT (no HLC): fallback allowed.	

5.2.2.1.1.2 User requirements at the coincident S and T reference point

GTP121_05	Reference to ETS 300 267-1 [5]: 5.5.1.2 a)	Other relevant reference:
TSS reference	UT7V/ORIG/BI/GEN/FBA/ST	
Selection criteria	R 3.1 AND MC 1.1	
Test purpose	Verify that the IUT, having sent a SETUP message containing two BCs, BC1 and BC2, and no LLC, on receipt of no BC in the CONNECT message or prior messages, assumes that the bearer service or teleservice corresponds to the first BC that was included in the SETUP message.	
Cross reference		
Comments	Receipt of CONNECT (no BC): fallback allowed and occurred at the destination user.	

GTP121_06	Reference to ETS 300 267-1 [5]: 5.5.1.2 d)	Other relevant reference: ETS 300 102-1 [2] 5.1.2
TSS reference	UT7V/ORIG/BI/GEN/ FBA/ST	
Selection criteria	R 3.1 AND MC 1.1 AND MT 5	
Test purpose	Verify that the IUT, in the Call Initiated call state U1, having sent a SETUP message containing two BCs, BC1 and BC2, no LLC, and a sending complete indication, on receipt of a CALL PROCEEDING message containing BC1, channel id and PI=#8, attaches to B-channel.	
Cross reference		
Comments	Receipt of CALL PROCEEDING: fallback allowed and occurred to BC1 in the network.	

GTP121_07	Reference to ETS 300 267-1 [5]: 5.5.1.2 d)	Other relevant reference: ETS 300 102-1 [2] 5.1.2
TSS reference	UT7V/ORIG/BI/GEN/ FBA/ST	
Selection criteria	R 3.1 AND MC 1.1	
Test purpose	Verify that the IUT, in the Outgoing Call Proceeding call state U3, having sent a SETUP message containing two BCs, BC1 and BC2, and no LLC, on receipt of a PROGRESS message, containing BC1 and PI=#8, attaches to B-channel.	
Cross reference		
Comments	Receipt of PROGRESS: fallback allowed and occurred to BC1 in the network.	

GTP121_08	Reference to ETS 300 267-1 [5]: 5.5.1.2 d)	Other relevant reference:
TSS reference	UT7V/ORIG/BI/GEN/ FBA/ST	
Selection criteria	R 3.1 AND MC 1.1	
Test purpose	Verify that the IUT, in the Outgoing Call Proceeding call state U3, having sent a SETUP message containing two BCs, BC1 and BC2, and no LLC, on receipt of an ALERTING message, containing BC1, and containing PI=#8, attaches to B-channel.	
Cross reference		
Comments	Receipt of ALERTING: fallback allowed and occurred to BC1 in the network.	

GTP121_09	Reference to ETS 300 267-1 [5]: 5.5.1.2 e)	Other relevant reference: ETS 300 102-1 [2] 5.1.2
TSS reference	UT7V/ORIG/BI/GEN/ FBA/ST	
Selection criteria	R 3.1 AND MC 1.1	
Test purpose	Verify that the IUT, in the Call Initiated call state U1, having sent a SETUP message containing two BCs, BC1 and BC2, and no LLC, on receipt of a CALL PROCEEDING message containing PI=#5 and no BC in messages before the CONNECT, assumes that the bearer service or teleservice corresponds to the first BC that was included in the SETUP message.	
Cross reference		
Comments	Receipt of CALL PROCEEDING containing PI=#5 and no BC in any messages: fallback allowed and occurred to BC1 in the network. The IUT need not attach the B-channel until receiving PI=#8 or PI=#1or upon receiving connect.	

GTP121_10	Reference to ETS 300 267-1 [5]: 5.5.1.2 e)	Other relevant reference: ETS 300 102-1 [2] 5.1.2
TSS reference	UT7V/ORIG/BI/GEN/ FBA/ST	
Selection criteria	R 3.1 AND MC 1.1	
Test purpose	Verify that the IUT, in the Active call state U10, having sent a SETUP message containing two BCs, BC1 and BC2, and no LLC, having received a PROGRESS message, containing PI=#5 and no BC in messages before the CONNECT, assumes that the bearer service or teleservice corresponds to the first BC that was included in the SETUP message.	
Cross reference		
Comments	Receipt of PROGRESS containing PI=#5 and no BC in any messages: fallback allowed and occurred to BC1 in the network. The IUT need not attach the B-channel until receiving PI=#8 or PI=#1or upon receiving connect.	

GTP121_11	Reference to ETS 300 267-1 [5]: 5.5.1.2 e)	Other relevant reference: ETS 300 102-1 [2] 5.1.2
TSS reference	UT7V/ORIG/BI/GEN/ FBA/ST	
Selection criteria	R 3.1 AND MC 1.1	
Test purpose	Verify that the IUT, in the Active call state U10, having sent a SETUP message containing two BCs, BC1 and BC2, and no LLC, having received an ALERTING message containing PI=#5, and no BC in messages before the CONNECT, assumes that the bearer service or teleservice corresponds to the first BC that was included in the SETUP message.	
Cross reference		
Comments	Receipt of ALERTING containing PI=#5 and no BC in any messages: fallback allowed and occurred to BC1 in the network. The IUT need not attach the B-channel until receiving PI=#8 or PI=#1or upon receiving connect.	

5.2.2.2 Telephony 7 kHz teleservice

5.2.2.2.1 Fallback allowed

5.2.2.2.1.1 User requirements at the coincident S and T reference point or for interworking with private ISDNs

TTP121_01	Reference to ETS 300 267-1 [5]: 6.6, 6.5.1 d), 6.5.1. f)	Other relevant reference:
TSS reference	UT7V/ORIG/BI/TL7/FBA/ST_T	
Selection criteria	R 1.1 AND (MC 1.1 OR MC 2.1)	
Test purpose	Verify that the IUT, in the Call Initiated call state U1, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a CALL PROCEEDING message, containing PI=#5, but not containing BC, then on receipt of a CONNECT message, not containing BC, enters the Active call state U10.	
Cross reference		
Comments	Receipt of CONNECT (no BC): fallback allowed and occurred, to the telephony 3,1 kHz teleservice, in the network.	

TTP121_02	Reference to ETS 300 267-1 [5]: 6.6, 6.5.1 d), 6.5.1. f)	Other relevant reference:
TSS reference	UT7V/ORIG/BI/TL7/FBA/ST_T	
Selection criteria	R 1.1 AND (MC 1.1 OR MC 2.1)	
Test purpose	Verify that the IUT, in the Outgoing Call Proceeding call state U3, having sent a telephony 7 kHz fallback allowed SETUP message, and having received a PROGRESS message, containing PI=#5, but not containing BC, on receipt of a CONNECT message, not containing BC, enters the Active call state U10.	
Cross reference		
Comments	Receipt of CONNECT (no BC): fallback allowed and occurred, to the telephony 3,1 kHz teleservice, in the network.	

TTP121_03	Reference to ETS 300 267-1 [5]: 6.6, 6.5.1 d), 6.5.1. f)	Other relevant reference:
TSS reference	UT7V/ORIG/BI/TL7/FBA/ST_T	
Selection criteria	R 1.1 AND (MC 1.1 OR MC 2.1)	
Test purpose	Verify that the IUT, in the Call Delivered call state U4, having sent a telephony 7 kHz fallback allowed SETUP message, and having received an ALERTING message, containing PI=#5, but not containing BC, on receipt of a CONNECT message, not containing BC, enters the Active call state U10.	
Cross reference		
Comments	Receipt of CONNECT (no BC): fallback allowed and occurred, to the telephony 3,1 kHz teleservice, in the network.	

5.2.2.2.1.2 User requirements at the coincident S and T reference point

TTP121_04	Reference to ETS 300 267-1 [5]: 6.5.1 c, 6.5.1 f), 5.5.1.2 a)	Other relevant reference:
TSS reference	UT7V/ORIG/BI/TL7/FBA/ST	
Selection criteria	R 3.1 AND R 1.1 AND MC 1.1	
Test purpose	Verify that the IUT, in the Outgoing Call Proceeding call state U3, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a CONNECT message, not containing BC, initiates in-band procedures in the B-channel.	
Cross reference	Related GTP: GTP121_05.	
Comments	Receipt of CONNECT (no BC): Fallback allowed and occurred, to the telephony 3,1 kHz teleservice, at the destination user. Nothing is specified in ETS 300 082 [1], clause 6 about in-band procedures	

TTP121_05	Reference to ETS 300 267-1 [5]: 6.5.1 c), 6.5.1 f), 5.5.1.2 a)	Other relevant reference:
TSS reference	UT7V/ORIG/BI/TL7/FBA/ST	
Selection criteria	R 3.1 AND R 1.1 AND MC 1.1	
Test purpose	Verify that the IUT, in the Call Delivered call state U4, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a CONNECT message, not containing BC, initiates in-band procedures in the B-channel.	
Cross reference	Related GTP: GTP121_05.	
Comments	Receipt of CONNECT (no BC): Fallback allowed and occurred, to the telephony 3,1 kHz teleservice, at the destination user. Nothing is specified in ETS 300 082 [1], clause 6 about in-band procedures	

TTP121_06	Reference to ETS 300 267-1 [5]: 6.5.1 d), 6.5.1. f), 5.5.1.2 e)	Other relevant reference:
TSS reference	UT7V/ORIG/BI/TL7/FBA/ST	
Selection criteria	R 3.1 AND R 1.1 AND MC 1.1	
Test purpose	Verify that the IUT, in the Call Initiated call state U1, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a CALL PROCEEDING message, containing PI=#5, but not containing BC, then on receipt of a CONNECT message, not containing BC, initiates the in-band procedures in the B-channel.	
Cross reference	Related GTP: GTP121_10.	
Comments	Receipt of CONNECT (no BC): fallback allowed and occurred, to the telephony 3,1 kHz teleservice, in the network. Nothing is specified in ETS 300 082 [1], clause 6 about in-band procedures	

TTP121_07	Reference to ETS 300 267-1 [5]: 6.5.1 d), 6.5.1. f), 5.5.1.2 e)	Other relevant reference:
TSS reference	UT7V/ORIG/BI/TL7/FBA/ST	
Selection criteria	R 3.1 AND R 1.1 AND MC 1.1	
Test purpose	Verify that the IUT, in the Outgoing Call Proceeding call state U3, having sent a telephony 7 kHz fallback allowed SETUP message, and having received a PROGRESS message, containing PI=#5, but not containing BC, on receipt of a CONNECT message, not containing BC, initiates the in-band procedures in the B-channel.	
Cross reference	Related GTP: GTP121_10.	
Comments	Receipt of CONNECT (no BC): fallback allowed and occurred, to the telephony 3,1 kHz teleservice, in the network. Nothing is specified in ETS 300 082 [1], clause 6 about in-band procedures	

TTP121_08	Reference to ETS 300 267-1 [5]: 6.5.1 d), 6.5.1. f), 5.5.1.2 e)	Other relevant reference:
TSS reference	UT7V/ORIG/BI/TL7/FBA/ST	
Selection criteria	R 3.1 AND R 1.1 AND MC 1.1	
Test purpose	Verify that the IUT, in the Call Delivered call state U4, having sent a telephony 7 kHz fallback allowed SETUP message, and having received an ALERTING message, containing PI=#5, but not containing BC, on receipt of a CONNECT message, not containing BC, initiates the in-band procedures in the B-channel	
Cross reference	Related GTP: GTP121_11.	
Comments	Receipt of CONNECT (no BC): fallback allowed and occurred, to the telephony 3,1 kHz teleservice, in the network. Nothing is specified in ETS 300 082 [1], clause 6 about in-band procedures	

5.2.2.3 Videotelephony teleservice

5.2.2.3.1 Fallback allowed

5.2.2.3.1.1 User requirements at the coincident S and T reference point or for interworking with private ISDNs

VTP121_01	Reference to ETS 300 267-1 [5]: 7.6, 7.5.1 c), 7.5.1 f)	Other relevant reference:
TSS reference	UT7V/ORIG/BI/VTL/FBA/ST_T	
Selection criteria	R 1.2 AND ((MC 1.1 AND MC 1.3) OR (MC 2.1 AND MC 2.3))	
Test purpose	Verify that the IUT, in the Outgoing Call Proceeding call state U3, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing a single BC=speech but not containing HLC, enters the Active call state U10.	
Cross reference		
Comments	Receipt of CONNECT (BC=speech): fallback allowed and occurred, to the telephony 3,1 kHz teleservice, at the destination user.	

VTP121_02	Reference to ETS 300 267-1 [5]: 7.6, 7.5.1 c), 7.5.1 f)	Other relevant reference:
TSS reference	UT7V/ORIG/BI/VTL/FBA/ST_T	
Selection criteria	R 1.2 AND ((MC 1.1 AND MC 1.3) OR (MC 2.1 AND MC 2.3))	
Test purpose	Verify that the IUT, in the Call Delivered call state U4, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing a single BC=speech but not containing HLC, enters the Active call state U10.	
Cross reference		
Comments	Receipt of CONNECT (BC=speech): fallback allowed and occurred, to the telephony 3,1 kHz teleservice, at the destination user.	

VTP121_03	Reference to ETS 300 267-1 [5]: 7.6, 7.5.1 d), 7.5.1. f)	Other relevant reference:
TSS reference	UT7V/ORIG/BI/VTL/FBA/ST_T	
Selection criteria	R 1.2 AND ((MC 1.1 AND MC 1.3) OR (MC 2.1 AND MC 2.3))	
Test purpose	Verify that the IUT, in the Call Initiated call state U1, having sent a videotelephony fallback allowed SETUP message, on receipt of a CALL PROCEEDING message, containing PI=#5 and BC=speech, but not containing HLC, then on receipt of a CONNECT message containing neither BC nor HLC, enters the Active call state U10.	
Cross reference		
Comments	Receipt of CONNECT (no BC, no HLC): fallback allowed and occurred, to the telephony 3,1 kHz teleservice, in the network.	

VTP121_04	Reference to ETS 300 267-1 [5]: 7.6, 7.5.1 d), 7.5.1. f)	Other relevant reference:
TSS reference	UT7V/ORIG/BI/VTL/FBA/ST_T	
Selection criteria	R 1.2 AND ((MC 1.1 AND MC 1.3) OR (MC 2.1 AND MC 2.3))	
Test purpose	Verify that the IUT, in the Outgoing Call Proceeding call state U3, having sent a videotelephony fallback allowed SETUP message, and having received a PROGRESS message, containing PI=#5 and HLC=telephony, but not containing BC, on receipt of a CONNECT message containing neither BC nor HLC, enters the Active call state U10.	
Cross reference		
Comments	Receipt of CONNECT (no BC, no HLC): fallback allowed and occurred, to the telephony 3,1 kHz teleservice, in the network.	

VTP121_05	Reference to ETS 300 267-1 [5]: 7.6, 7.5.1 d), 7.5.1. f)	Other relevant reference:
TSS reference	UT7V/ORIG/BI/VTL/FBA/ST_T	
Selection criteria	R 1.2 AND ((MC 1.1 AND MC 1.3) OR (MC 2.1 AND MC 2.3))	
Test purpose	Verify that the IUT, in the Call Delivered call state U4, having sent a videotelephony fallback allowed SETUP message, and having received an ALERTING message, containing PI=#5, but not containing BC or HLC, on receipt of a CONNECT message containing neither BC nor HLC, enters the Active call state U10.	
Cross reference		
Comments	Receipt of CONNECT (no BC, no HLC): fallback allowed and occurred, to the telephony 3,1 kHz teleservice, in the network.	

5.2.2.3.1.2 User requirements at the coincident S and T reference point

VTP121_06	Reference to ETS 300 267-1 [5]: 7.5.1 c), 7.5.1 f)	Other relevant reference:
TSS reference	UT7V/ORIG/BI/VTL/FBA/ST	
Selection criteria	R 3.1 AND R 1.2 AND MC 1.1 AND MC 1.3	
Test purpose	Verify that the IUT, in the Outgoing Call Proceeding call state U3, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing a single BC=speech but not containing HLC, initiates the in-band procedures in the B-channel.	
Cross reference		
Comments	Receipt of CONNECT (BC=speech): fallback allowed and occurred, to the telephony 3,1 kHz teleservice, at the destination user. Nothing is specified in ETS 300 082 [1], clause 6 about in-band procedures	

VTP121_07	Reference to ETS 300 267-1 [5]: 7.5.1 c), 7.5.1 f)	Other relevant reference:
TSS reference	UT7V/ORIG/BI/VTL/FBA/ST	
Selection criteria	R 3.1 AND R 1.2 AND MC 1.1 AND MC 1.3	
Test purpose	Verify that the IUT, in the Call Delivered call state U4, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing a single BC=speech but not containing HLC, initiates the in-band procedures in the B-channel.	
Cross reference		
Comments	Receipt of CONNECT (BC=speech): fallback allowed and occurred, to the telephony 3,1 kHz teleservice, at the destination user. Nothing is specified in ETS 300 082 [1], clause 6 about in-band procedures	

VTP121_08	Reference to ETS 300 267-1 [5]: 7.5.1 c), 7.5.1 f), 5.5.3.1, 5.5.1.2 a), 5.5.3.2 a)	Other relevant reference:
TSS reference	UT7V/ORIG/BI/VTL/FBA/ST	
Selection criteria	R 3.1 AND R 1.2 AND MC 1.1 AND MC 1.3	
Test purpose	Verify that the IUT, in the Outgoing Call Proceeding call state U3, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing neither BC nor HLC, initiates the in-band procedures in the B-channel.	
Cross reference	Related GTP: GTP121_05, GTP 553_04.	
Comments	Receipt of CONNECT (no BC, no HLC): fallback allowed and occurred, to the telephony 3,1 kHz teleservice, at the destination user. Nothing is specified in ETS 300 082 [1], clause 6 about in-band procedures	

VTP121_09	Reference to ETS 300 267-1 [5]: 7.5.1 c), 7.5.1 f), 5.5.3.1, 5.5.1.2 a), 5.5.3.2 a)	Other relevant reference:
TSS reference	UT7V/ORIG/BI/VTL/FBA/ST	
Selection criteria	R 3.1 AND R 1.2 AND MC 1.1 AND MC 1.3	
Test purpose	Verify that the IUT, in the Call Delivered call state U4, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing neither BC nor HLC, initiates the in-band procedures in the B-channel.	
Cross reference	Related GTP: GTP121_05.	
Comments	Receipt of CONNECT (no BC, no HLC): fallback allowed and occurred, to the telephony 3,1 kHz teleservice, at the destination user. Nothing is specified in ETS 300 082 [1], clause 6 about in-band procedures	

VTP121_10	Reference to ETS 300 267-1 [5]: 7.5.1 d), 7.5.1. f), 5.5.1.2 e)	Other relevant reference:
TSS reference	UT7V/ORIG/BI/VTL/FBA/ST	
Selection criteria	R 3.1 AND R 1.2 AND MC 1.1 AND MC 1.3	
Test purpose	Verify that the IUT, in the Call Initiated state U1, having sent a videotelephony fallback allowed SETUP message, on receipt of a CALL PROCEEDING message, containing PI=#5 and BC=speech, but not containing HLC, then on receipt of a CONNECT message containing neither BC nor HLC, initiates the in-band procedures in the B-channel.	
Cross reference	Related GTP: GTP121_10.	
Comments	Receipt of CONNECT (no BC, no HLC): fallback allowed and occurred, to the telephony 3,1 kHz teleservice, in the network. Nothing is specified in ETS 300 082 [1], clause 6 about in-band procedures	

VTP121_11	Reference to ETS 300 267-1 [5]: 7.5.1 d), 7.5.1. f), 5.5.1.2 e)	Other relevant reference:
TSS reference	UT7V/ORIG/BI/VTL/FBA/ST	
Selection criteria	R 3.1 AND R 1.2 AND MC 1.1 AND MC 1.3	
Test purpose	Verify that the IUT, in the Outgoing Call Proceeding call state U3, having sent a videotelephony fallback allowed SETUP message, and having received a PROGRESS message, containing PI=#5 and HLC=telephony, but not containing BC, on receipt of a CONNECT message containing neither BC nor HLC, initiates the in-band procedures in the B-channel.	
Cross reference	Related GTP: GTP121_10.	
Comments	Receipt of CONNECT (no BC, no HLC): fallback allowed and occurred, to the telephony 3,1 kHz teleservice, in the network. Nothing is specified in ETS 300 082 [1], clause 6 about in-band procedures	

VTP121_12	Reference to ETS 300 267-1 [5]: 7.5.1 d), 7.5.1. f), 5.5.1.2 e)	Other relevant reference:
TSS reference	UT7V/ORIG/BI/VTL/FBA/ST	
Selection criteria	R 3.1 AND R 1.2 AND MC 1.1 AND MC 1.3	
Test purpose	Verify that the IUT, in the Call Delivered call state U4, having sent a videotelephony fallback allowed SETUP message, and having received an ALERTING message, containing PI=#5, but not containing BC or HLC, on receipt of a CONNECT message containing neither BC nor HLC, initiates the in-band procedures in the B-channel.	
Cross reference	Related GTP: GTP121_11.	
Comments	Receipt of CONNECT (no BC, no HLC): fallback allowed and occurred, to the telephony 3,1 kHz teleservice, in the network. Nothing is specified in ETS 300 082 [1], clause 6 about in-band procedures	

5.3 Called user interface

5.3.1 Valid behaviour

5.3.1.1 Generic requirements

5.3.1.1.1 Fallback allowed

5.3.1.1.1.1 User requirements at the coincident S and T reference point or for interworking with private ISDNs

GTP211_01	Reference to ETS 300 267-1 [5]: 5.6.2.1, 5.5.2.1	Other relevant reference:
TSS reference	UT7V/DEST/BV/GEN/FBA/ST_T	
Selection criteria	MC 1.2 OR MC 2.2	
Test purpose	Verify that the IUT, in the Call Present call state U6, having received a SETUP message, containing two BCs, BC1 and BC2, and no LLC, sends a CONNECT message containing BC2.	
Cross reference		
Comments	Sending of CONNECT: fallback allowed but did not occur.	

GTP211_02	Reference to ETS 300 267-1 [5]: 5.6.2.1, 5.5.2.1	Other relevant reference:
TSS reference	UT7V/DEST/BV/GEN/FBA/ST_T	
Selection criteria	(MC 1.2 OR MC 2.2) AND SC 1.1	
Test purpose	Verify that the IUT, in the Call Present call state U6, having received a SETUP message, containing two BCs, BC1 and BC2, and no LLC, sends a CONNECT message containing BC1.	
Cross reference		
Comments	Sending of CONNECT: fallback allowed and did occur at the destination user.	

GTP211_03	Reference to ETS 300 267-1 [5]: 5.6.4.1, 5.5.4.1	Other relevant reference:
TSS reference	UT7V/DEST/BV/GEN/FBA/ST_T	
Selection criteria	MC 1.4 OR MC 2.4	
Test purpose	Verify that the IUT, in the Call Present call state U6, having received a SETUP message, containing two HLCs, HLC1 and HLC2, sends a CONNECT message containing HLC2.	
Cross reference		
Comments	Sending of CONNECT: fallback allowed but did not occur.	

GTP211_04	Reference to ETS 300 267-1 [5]: 5.6.4.1, 5.5.4.1	Other relevant reference:
TSS reference	UT7V/DEST/BV/GEN/FBA/ST_T	
Selection criteria	(MC 1.4 OR MC 2.4) AND SC 2.1	
Test purpose	Verify that the IUT, in the Call Present call state U6, having received a SETUP message, containing two HLCs, HLC1 and HLC2, sends a CONNECT message containing HLC1.	
Cross reference		
Comments	Sending of CONNECT: fallback allowed and did occur at the destination user.	

GTP211_05	Reference to ETS 300 267-1 [5]: 5.6.5.1, 5.5.5.1	Other relevant reference:
TSS reference	UT7V/DEST/BV/GEN/FBA/ST_T	
Selection criteria	((MC 1.2 AND MC 1.4 AND MC 1.5) OR (MC 2.2 AND MC 2.4 AND MC 2.5))	
Test purpose	Verify that the IUT, in the Null call state U0, on receipt of a SETUP message, containing two BCs, BC1 and BC2, and no LLC, and two HLCs, HLC1 and HLC2, which specify at least one defined teleservice, identifies the requested teleservice by taking the presented Bearer capability and High layer compatibility information elements in all legal combinations.	
Cross reference		
Comments	Receipt of SETUP, fallback from BC2 to BC1, and from HLC2 to HLC1 allowed.	

GTP211_06	Reference to ETS 300 267-1 [5]: 5.6.5.1, 5.5.5.1	Other relevant reference:
TSS reference	UT7V/DEST/BV/GEN/FBA/ST_T	
Selection criteria	((MC 1.2 AND MC 1.5) OR (MC 2.2 AND MC 2.5))	
Test purpose	Verify that the IUT, in the Null call state U0, on receipt of a SETUP message, containing two BCs, BC1 and BC2, and no LLC, and one HLC, HLC1, which specify at least one defined teleservice, identifies the requested teleservice by taking the presented Bearer capability and High layer compatibility information elements in all legal combinations.	
Cross reference		
Comments	Receipt of SETUP, fallback from BC2 to BC1 allowed.	

GTP211_07	Reference to ETS 300 267-1 [5]: 5.6.5.1, 5.5.5.1	Other relevant reference:
TSS reference	UT7V/DEST/BV/GEN/FBA/ST_T	
Selection criteria	((MC 1.2 AND MC 1.4 AND MC 1.5) OR (MC 2.2 AND MC 2.4 AND MC 2.5))	
Test purpose	Verify that the IUT, in the Null call state U0, on receipt of a SETUP message, containing one BC, BC1, and two HLCs, HLC1 and HLC2, which specify at least one defined teleservice, identifies the requested teleservice by taking the presented Bearer capability and High layer compatibility information elements in all legal combinations.	
Cross reference		
Comments	Receipt of SETUP, fallback from HLC2 to HLC1 allowed.	

GTP211_08	Reference to ETS 300 267-1 [5]: 5.6.5.1, 5.5.5.1	Other relevant reference:
TSS reference	UT7V/DEST/BV/GEN/FBA/ST_T	
Selection criteria	((MC 1.2 AND MC 1.5) OR (MC 2.2 AND MC 2.5))	
Test purpose	Verify that the IUT, in the Null call state U0, on receipt of a SETUP message, containing two BCs, BC1 and BC2, and no HLC, identifies the requested bearer service by taking the presented Bearer capability information elements.	
Cross reference		
Comments	Receipt of SETUP, fallback from BC2 to BC1 allowed.	

5.3.1.1.1.2 User requirements at the coincident S and T reference point

GTP211_09	Reference to ETS 300 267-1 [5]: 5.5.2.1	Other relevant reference:
TSS reference	UT7V/DEST/BV/GEN/FBA/ST	
Selection criteria	R 3.1 AND MC 1.2 AND (NOT SC 1.1)	
Test purpose	Verify that the IUT, in the Call Present call state U6, having received a SETUP message, containing two BCs, BC1 and BC2, and no LLC, sends a CONNECT message not containing BC.	
Cross reference		
Comments	Sending of CONNECT: fallback allowed and did occur at the destination user.	

GTP211_10	Reference to ETS 300 267-1 [5]: 5.5.4.1	Other relevant reference:
TSS reference	UT7V/DEST/BV/GEN/FBA/ST	
Selection criteria	R 3.1 AND MC 1.4 AND (NOT SC 2.1)	
Test purpose	Verify that the IUT, in the Call Present call state U6, having received a SETUP message, containing two HLCs, HLC1 and HLC2, sends a CONNECT message not containing HLC.	
Cross reference		
Comments	Sending of CONNECT: fallback allowed and did occur at the destination user.	

5.3.1.1.1.3 User requirements for interworking with private ISDNs

GTP211_11	Reference to ETS 300 267-1 [5]: 5.6.2.1	Other relevant reference:
TSS reference	UT7V/DEST/BV/GEN/FBA/PT	
Selection criteria	R 3.2 AND MC 2.2	
Test purpose	Verify that the IUT, in the Null call state U0, on receipt of a SETUP message, containing two BCs, BC1 and BC2, and no LLC, is capable of sending a CALL PROCEEDING, PROGRESS or ALERTING message, containing PI=#5 and BC1.	
Cross reference		
Comments	Sending of CALL PROCEEDING, PROGRESS or ALERTING: fallback allowed and occurred, within the private ISDN.	

GTP211_12	Reference to ETS 300 267-1 [5]: 5.6.2.2 d)	Other relevant reference:
TSS reference	UT7V/DEST/BV/GEN/FBA/PT	
Selection criteria	R 3.2 AND MC 2.2	
Test purpose	Verify that the IUT, in the Null call state U0, on receipt of a SETUP message, containing two BCs, BC1 and BC2 and a single LLC, continues normal call handling, i.e. transports the Low layer compatibility information element transparently across the private network.	
Cross reference		
Comments	This test purpose is not testable because it involves testing the internal operation of the IUT (private ISDN).	

GTP211_13	Reference to ETS 300 267-1 [5]: 5.6.4.1	Other relevant reference:
TSS reference	UT7V/DEST/BV/GEN/FBA/PT	
Selection criteria	R 3.2 AND MC 2.4	
Test purpose	Verify that the IUT, in the Null call state U0, on receipt of a SETUP message, containing two HLCs, HLC1 and HLC2, is capable of sending a CALL PROCEEDING, PROGRESS or ALERTING message, containing PI=#5 and HLC1.	
Cross reference		
Comments	Sending of CALL PROCEEDING, PROGRESS or ALERTING: Fallback allowed and occurred, within the private ISDN.	

5.3.1.1.2 Fallback not allowed

5.3.1.1.2.1 User requirements at the coincident S and T reference point

GTP212_01	Reference to ETS 300 267-1 [5]: 5.5.7	Other relevant reference: ETS 300 102-1 [2] 5.2.6
TSS reference	UT7V/DEST/BV/GEN/FBN/ST	
Selection criteria	R 3.1 AND MR 5	
Test purpose	Verify that the IUT, in the Null call state U0, on receipt of a SETUP message, containing BC=UDI/TA and PI=#1, connects to the B-channel.	
Cross reference		
Comments	Connection to the B-channel is in accordance with ETS 300 102-1 [2] 5.2.8.	

5.3.1.1.2.2 User requirements for interworking with private ISDNs

GTP212_02	Reference to ETS 300 267-1 [5]: 5.6.7, 5.5.7	Other relevant reference: ETS 300 102-1 [2] 5.2.6
TSS reference	UT7V/DEST/BV/GEN/FBN/PT	
Selection criteria	R 3.2 AND MR 5	
Test purpose	Verify that the IUT, in the Null call state U0, on receipt of a SETUP message, containing BC=UDI/TA, is capable of sending a SETUP ACKNOWLEDGE, CALL PROCEEDING, ALERTING, CONNECT or PROGRESS message containing PI=#1 or PI=#2 or PI=#4.	
Cross reference		
Comments	Sending of SETUP: interworking occurred within the IUT.	

5.3.1.2 Telephony 7 kHz teleservice

5.3.1.2.1 Fallback allowed

5.3.1.2.1.1 User requirements at the coincident S and T reference point or for interworking with private ISDNs

TTP211_01	Reference to ETS 300 267-1 [5]: 6.6 b), 6.5.2 1)	Other relevant reference:
TSS reference	UT7V/DEST/BV/TL7/FBA/ST_T	
Selection criteria	(R 1.1 OR R 1.2) AND (MC 1.2 OR MC 2.2)	
Test purpose	Verify that the IUT, in the Null call state U0, receiving a telephony 7 kHz teleservice call for which fallback to 3,1 kHz is allowed, accepts a SETUP message containing two BCs, with the first BC=speech and the second BC=UDI/TA, HLC=telephony, and not containing LLC and continues with normal basic call handling.	
Cross reference		
Comments		

TTP211_02	Reference to ETS 300 267-1 [5]: 6.6 b), 6.6 c), 6.5.2 b), 6.5.2 c), 5.5.2.1, 5.6.2.1	Other relevant reference:
TSS reference	UT7V/DEST/BV/TL7/FBA/ST_T	
Selection criteria	R 1.1 AND (MC 1.2 OR MC 2.2)	
Test purpose	Verify that the IUT, in the Call Present call state U6, having received a telephony 7 kHz fallback allowed SETUP message, when fallback does not occur, sends a CONNECT message containing BC=UDI/TA and enters the Connect Request call state U8.	
Cross reference	Related GTP: GTP211_01.	
Comments	Sending of CONNECT (BC=UDI/TA): fallback allowed but did not occur.	

TTP211_03	Reference to ETS 300 267-1 [5]: 6.5.2 d)	Other relevant reference:
TSS reference	UT7V/DEST/BV/TL7/FBA/ST_T	
Selection criteria	R 1.1 AND (MC 1.2 OR MC 2.2)	
Test purpose	Verify that the IUT, in the Connect Request call state U8, having received a telephony 7 kHz fallback allowed SETUP message and having sent a CONNECT message, containing BC=UDI/TA, on receipt of a CONNECT ACKNOWLEDGE message, enters the Active call state U10.	
Cross reference		
Comments		

TTP211_04	Reference to ETS 300 267-1 [5]: 6.6 b), 6.6 c), 6.5.2 c), 6.5.2 b), 5.6.2.1, 5.5.2.1	Other relevant reference:
TSS reference	UT7V/DEST/BV/TL7/FBA/ST_T	
Selection criteria	(R 1.1 OR R 1.2) AND (MC 1.2 OR MC 2.2)	
Test purpose	Verify that the IUT, in the Call Present call state U6, having received a telephony 7 kHz fallback allowed SETUP message, when fallback is allowed and occurs to 3,1 kHz, is capable of sending a CONNECT message containing BC=speech or does not contain BC and enters the Connect Request call state U8.	
Cross reference	Related GTP: GTP211_02.	
Comments	Sending of CONNECT (BC=speech): fallback allowed and occurred, to telephony 3,1 kHz (not within the private ISDN for T reference point).	

5.3.1.2.1.2 User requirements at the coincident S and T reference point

TTP211_05	Reference to ETS 300 267-1 [5]: 6.5.2 d)	Other relevant reference:
TSS reference	UT7V/DEST/BV/TL7/FBA/ST	
Selection criteria	R 3.1 AND R 1.1 AND MC 1.2	
Test purpose	Verify that the IUT, in the Connect Request call state U8, having received a telephony 7 kHz fallback allowed SETUP message and having sent a CONNECT message, containing BC=UDI/TA, on receipt of a CONNECT ACKNOWLEDGE message, sends multiframe structures and starts initialisation procedure in the B-channel.	
Cross reference		
Comments		

5.3.1.2.1.3 User requirements for interworking with private ISDNs

TTP211_06	Reference to ETS 300 267-1 [5]: 6.6 d), 5.6.2.1	Other relevant reference:
TSS reference	UT7V/DEST/BV/TL7/FBA/PT	
Selection criteria	R 3.2 AND (R 1.1 OR R 1.2) AND MC 2.2	
Test purpose	Verify that the IUT, in the Null call state U0, on receipt of a telephony 7 kHz fallback allowed SETUP message, when fallback is allowed and occurs to 3,1 kHz, is capable of sending a CALL PROCEEDING, PROGRESS or ALERTING message containing PI=#5 and BC=speech or does not contain BC and enters the relevant basic call state.	
Cross reference	Related GTP: GTP211_11.	
Comments	Sending of CALL PROCEEDING, PROGRESS or ALERTING: Fallback allowed and occurred, to telephony 3,1 kHz, within the private ISDN. PIXIT: How to configure the IUT to fallback within the private ISDN?	

5.3.1.2.2 Fallback not allowed

5.3.1.2.2.1 User requirements at the coincident S and T reference point or for interworking with private ISDNs

TTP212_01	Reference to ETS 300 267-1 [5]: 6.6 b), 6.5.2 1)	Other relevant reference:
TSS reference	UT7V/DEST/BV/TL7/FBN/ST_T	
Selection criteria	R 1.1 AND MR 5	
Test purpose	Verify that the IUT, in the Null call state U0, receiving a telephony 7 kHz teleservice call for which fallback to 3,1 kHz is not allowed, accepts a SETUP message containing a single BC=UDI/TA and HLC=telephony and continues with normal basic call handling.	
Cross reference		
Comments		

5.3.1.2.2.2 User requirements at the coincident S and T reference point

TTP212_02	Reference to ETS 300 267-1 [5]: 6.5.2 2)	Other relevant reference:
TSS reference	UT7V/DEST/BV/TL7/FBN/ST	
Selection criteria	R 3.1 AND R 1.1 AND MR 5 [6]	
Test purpose	Verify that the IUT, in the Connect Request call state U8, having received a telephony 7 kHz fallback not allowed SETUP message, and having sent a CONNECT message, on receipt of a CONNECT ACKNOWLEDGE message, sends multiframe structures and starts initialisation procedure in the B-channel.	
Cross reference		
Comments		

5.3.1.2.3 Connection management

5.3.1.2.3.1 User requirements at the coincident S and T reference point

TTP213_01	Reference to ETS 300 267-1 [5]: 6.5.3, 5.5.7	Other relevant reference: I-ETS 300 281 [7] 5.6
TSS reference	UT7V/DEST/BV/TL7/CMN/ST	
Selection criteria	R 3.1 AND R 1.1	
Test purpose	Verify that the IUT, in the Active call state U10, operating in 7 kHz mode, on receipt of a DISCONNECT message, containing PI=#8, and of a tone or announcement from the network, which is presented in a 3,1 kHz mode, switches its in-band entity to A-law.	
Cross reference	Related GTP: GTP113_06.	
Comments	Tones or announcements from the network are encoded according to CCITT Recommendation G.711 [9] A-law. Switching the in-band entity to A-law is done as specified in I-ETS 300 281 [7], clause 6.	

5.3.1.3 Videotelephony teleservice

5.3.1.3.1 Fallback allowed

5.3.1.3.1.1 User requirements at the coincident S and T reference point or for interworking with private ISDNs

VTP211_01	Reference to ETS 300 267-1 [5]: 7.5.2 a)	Other relevant reference: ETS 300 102-1 [2] 5.2
TSS reference	UT7V/DEST/BV/VTL/FBA/ST_T	
Selection criteria	R 1.2 AND ((MC 1.2 AND MC 1.4) OR (MC 2.2 AND MC 2.4))	
Test purpose	Verify that the IUT, in the Null call state U0, receiving a videotelephony call for which fallback is allowed, accepts a SETUP 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 LLC and continues with normal basic call handling.	
Cross reference		
Comments		

VTP211_02	Reference to ETS 300 267-1 [5]: 7.5.2 d)	Other relevant reference: ETS 300 102-1 [2] 5.2
TSS reference	UT7V/DEST/BV/VTL/FBA/ST_T	
Selection criteria	R 1.2 AND ((MC 1.2 AND MC 1.4) OR (MC 2.2 AND MC 2.4))	
Test purpose	Verify that the IUT, in the Connect Request call state U8, having received a videotelephony fallback allowed SETUP message, and having sent a CONNECT message, containing BC=UDI/TA and HLC=videotelephony_ic or videotelephony_nex, on receipt of a CONNECT ACKNOWLEDGE message, enters the Active call state U10.	
Cross reference		
Comments	Fallback allowed but did not occur	

5.3.1.3.1.2 User requirements at the coincident S and T reference point

VTP211_03	Reference to ETS 300 267-1 [5]: 7.5.2 b), 7.5.2 c), 5.5.2.1, 5.5.4.1	Other relevant reference: ETS 300 102-1 [2] 5.2
TSS reference	UT7V/DEST/BV/VTL/FBA/ST	
Selection criteria	R 3.1 AND R 1.2 AND MC 1.2 AND MC 1.4	
Test purpose	Verify that the IUT, in the Call Present call state U6, having received a videotelephony fallback allowed SETUP message, sends a CONNECT message containing BC=UDI/TA and HLC=videotelephony_ic and enters the Connect Request call state U8.	
Cross reference	Related GTP: GTP211_01, GTP 554_01.	
Comments	Sending of CONNECT: fallback allowed but did not occur.	

VTP211_04	Reference to ETS 300 267-1 [5]: 7.5.2 d)	Other relevant reference: ETS 300 102-1 [2] 5.2
TSS reference	UT7V/DEST/BV/VTL/FBA/ST	
Selection criteria	R 3.1 AND R 1.2 AND MC 1.2 AND MC 1.4	
Test purpose	Verify that the IUT, in the Connect Request call state U8, having received a videotelephony fallback allowed SETUP message, and having sent a CONNECT message, containing BC=UDI/TA and HLC=videotelephony_ic, on receipt of a CONNECT ACKNOWLEDGE message, sends multiframe structures and starts initialisation procedure in the B-channel.	
Cross reference		
Comments		

VTP211_05	Reference to ETS 300 267-1 [5]: 7.5.2 item c	Other relevant reference:
TSS reference	UT7V/DEST/BV/VTL/FBA/ST	
Selection criteria	R 3.1 AND R 1.2 AND MC 1.2 AND MC 1.4	
Test purpose	Verify that the IUT, in the Call Present call state U6, having received a videotelephony fallback allowed SETUP message and fallback has occurred to telephony 3,1 kHz, is capable of sending a CONNECT message containing BC=speech and HLC=telephony OR no BC and any valid HLC value OR BC=speech and no HLC and enters the Connect Request call state U8.	
Cross reference	Related GTP: GTP211_02, GTP211_04, GTP211_09, GTP211_10.	
Comments	Sending of CONNECT (BC=speech, HLC=telephony): fallback allowed and occurred, to telephony 3,1 kHz.	

VTP211_06	Reference to ETS 300 267-1 [5]: 7.5.2 c)	Other relevant reference:
TSS reference	UT7V/DEST/BV/VTL/FBA/ST	
Selection criteria	R 3.1 AND R 1.2 AND MC 1.2 AND MC 1.4	
Test purpose	Verify that the IUT, in the Call Present call state U6, having received a videotelephony fallback allowed SETUP message and fallback has occurred to telephony 7 kHz, is capable of sending a CONNECT message containing BC=UDI/TA and HLC=telephony OR BC=UDI/TA and no HLC and enters the Connect Request call state U8.	
Cross reference	Related GTP: GTP211_02, GTP211_04, GTP211_10.	
Comments	Sending of CONNECT (BC=UDI/TA, HLC=telephony): fallback allowed and occurred, to telephony 7 kHz	

5.3.1.3.1.3 User requirements for interworking with private ISDNs

VTP211_07	Reference to ETS 300 267-1 [5]: 7.6 b), 7.6 c), 5.6.2.1, 5.6.4.1	Other relevant reference:
TSS reference	UT7V/DEST/BV/VTL/FBA/PT	
Selection criteria	R 3.2 AND R 1.2 AND MC 2.2 AND MC 2.4	
Test purpose	Verify that the IUT, in the Call Present call state U6, having received a videotelephony fallback allowed SETUP message, is capable of sending a CONNECT message containing BC=UDI/TA and HLC=videotelephony_nex or HLC=videotelephony_ic and enters the Connect Request call state U8.	
Cross reference	Related GTP: GTP111_04, GTP554_.	
Comments	Sending of CONNECT (BC=UDI/TA, HLC=videotelephony_nex or HLC=videotelephony_ic): fallback allowed but did not occur.	

VTP211_08	Reference to ETS 300 267-1 [5]: 7.6 b), 7.6 c), 5.6.2.1, 5.6.4.1, 5.5.4.1	Other relevant reference:
TSS reference	UT7V/DEST/BV/VTL/FBA/PT	
Selection criteria	R 3.2 AND R 1.1 AND R 1.2 AND MC 2.2 AND MC 2.4	
Test purpose	Verify that the IUT, in the Call Present call state U6, having received a videotelephony fallback allowed SETUP message, is capable of sending a CONNECT message containing BC=UDI/TA and HLC=telephony and enters the Connect Request call state U8.	
Cross reference	Related GTP: GTP211_01, GTP211_04.	
Comments	Sending of CONNECT (BC=UDI/TA, HLC=telephony): fallback allowed and occurred, to telephony 7 kHz (not within the private ISDN). PIXIT: How to configure the IUT to fallback outside the private ISDN?	

VTP211_09	Reference to ETS 300 267-1 [5]: 7.6 b), 7.6 c), 5.6.2.1, 5.6.4.1, 5.5.4.1, 5.5.2.1	Other relevant reference:
TSS reference	UT7V/DEST/BV/VTL/FBA/PT	
Selection criteria	R 3.2 AND R 1.2 AND MC 2.2 AND MC 2.4	
Test purpose	Verify that the IUT, in the Call Present call state U6, having received a videotelephony fallback allowed SETUP message, is capable of sending a CONNECT message containing BC=speech and HLC=telephony OR no BC and no HLC OR BC=speech and no HLC and enters the Connect Request call state U8.	
Cross reference	Related GTP: GTP211_02, GTP211_04	
Comments	Sending of CONNECT: fallback allowed and occurred, to telephony 3,1 kHz (not within the private ISDN). PIXIT: How to configure the IUT to fallback outside the private ISDN?	

VTP211_10	Reference to ETS 300 267-1 [5]: 7.6 d), 5.6.2.1, 5.6.4.1	Other relevant reference:
TSS reference	UT7V/DEST/BV/VTL/FBA/PT	
Selection criteria	R 3.2 AND R 1.2 AND MC 2.2 AND MC 2.4	
Test purpose	Verify that the IUT, in the Null call state U0, on receipt of a videotelephony fallback allowed SETUP message, is capable of sending a CALL PROCEEDING, PROGRESS or ALERTING message containing PI=#5, and BC=speech, and HLC=videotelephony_ic or HLC=videotelephony_nex or HLC=telephony or no HLC OR no BC and no HLC information elements and enters the relevant basic call state.	
Cross reference	Related GTP: GTP211_11, GTP211_13.	
Comments	Sending of CALL PROCEEDING, PROGRESS or ALERTING: Fallback allowed and occurred, to telephony 3,1 kHz, within the private ISDN. PIXIT: How to configure the IUT to fallback to telephony 3,1 kHz within the private ISDN?	

VTP211_11	Reference to ETS 300 267-1 [5]: 7.6 d), 5.6.4.1	Other relevant reference:
TSS reference	UT7V/DEST/BV/VTL/FBA/PT	
Selection criteria	R 3.2 AND R 1.2 AND MC 2.2 AND MC 2.4	
Test purpose	Verify that the IUT, in the Null call state U0, on receipt of a videotelephony fallback allowed SETUP message, is capable of sending a CALL PROCEEDING, PROGRESS or ALERTING message containing PI=#5, and BC=UDI/TA, and HLC=telephony and enters the relevant basic call state.	
Cross reference	Related GTP: GTP211_13.	
Comments	Sending of CALL PROCEEDING, PROGRESS or ALERTING: Fallback allowed and occurred, to telephony 7 kHz, within the private ISDN. PIXIT: How to configure the IUT to fallback to telephony 7 kHz within the private ISDN?	

5.3.1.3.2 Fallback not allowed

5.3.1.3.2.1 User requirements at the coincident S and T reference point or for interworking with private ISDNs

VTP212_01	Reference to ETS 300 267-1 [5]: 7.5.2 1)	Other relevant reference: ETS 300 102-1 [2] 5.2
TSS reference	UT7V/DEST/BV/VTL/FBN/ST_T	
Selection criteria	R 1.2	
Test purpose	Verify that the IUT, in the Null call state U0, receiving a videotelephony call for which fallback is not allowed, accepts a SETUP message containing a single BC=UDI/TA and a single HLC=videotelephony_ic and responds with a SETUP ACKNOWLEDGE, CALL PROCEEDING, ALERTING or CONNECT message and enters the relevant basic call state.	
Cross reference		
Comments		

5.3.1.3.2.2 User requirements at the coincident S and T reference point

VTP212_02	Reference to ETS 300 267-1 [5]: 7.5.2 2)	Other relevant reference: ETS 300 102-1 [2] 5.2
TSS reference	UT7V/DEST/BV/VTL/FBN/ST	
Selection criteria	R 3.1 AND R 1.2 AND MR 5 [6]	
Test purpose	Verify that the IUT, in the Connect Request call state U8, having received a videotelephony fallback not allowed SETUP message, and having sent a CONNECT message, on receipt of a CONNECT ACKNOWLEDGE message, sends multiframe structures and starts initialisation procedure in the B-channel.	
Cross reference		
Comments		

5.3.1.3.3 Connection management

5.3.1.3.3.1 User requirements at the coincident S and T reference point

VTP213_01	Reference to ETS 300 267-1 [5]: 7.5.2 (3rd last and 2nd last paragraph.)	Other relevant reference:
TSS reference	UT7V/DEST/BV/VTL/CMN/ST	
Selection criteria	R 3.1 AND R 1.2 AND MC 1.6 AND MR 5	
Test purpose	Verify that the IUT in the Active call state U10 for CR1 and in the Null call state U0 for CR2, on receipt of a videotelephony SETUP message for CR2, automatically accepts the call, i.e. does not send an ALERTING message but sends a CONNECT message and enters the Connect Request call state U8.	
Cross reference		
Comments	Establishment of second connection at destination interface: IUT automatically accepts the call.	

VTP213_02	Reference to ETS 300 267-1 [5]: 7.5.2 (last paragraph)	Other relevant reference:
TSS reference	UT7V/DEST/BV/VTL/CMN/ST	
Selection criteria	R 3.1 AND R 1.2 AND MC 1.6 AND MR 5 [6]	
Test purpose	Verify that the IUT, in the Active call state U10 for CR1 and in the Connect Request call state U8 for CR2, having received a videotelephony SETUP message for CR2 and having sent a CONNECT message, on receipt of a CONNECT ACKNOWLEDGE message, sends multiframe structures and gains multiframe alignment and synchronisation on both B-channels.	
Cross reference		
Comments	Establishment of second connection at destination interface.	

VTP213_03	Reference to ETS 300 267-1 [5]: 7.5.3, 5.5.7	Other relevant reference:
TSS reference	UT7V/DEST/BV/VTL/CMN/ST	
Selection criteria	R 3.1 AND MR 5	
Test purpose	Verify that the IUT in the Active call state U10 for CR1 and CR2, operating in 2B videotelephony mode, on receipt of a DISCONNECT message for CR1, containing PI=#8 and a tone or announcement which is presented in a 3,1 kHz mode, switches its in-band entity to A-law.	
Cross reference	Related GTP: GTP113_06	
Comments	Tones or announcements from the network are encoded according to CCITT Recommendation G.711 [9] A-law. Switching the in-band entity to A-law is done as specified in I-ETS 300 145 [4], clause 6.	

5.3.2 Invalid behaviour

5.3.2.1 Generic requirements

5.3.2.1.1 Fallback allowed

5.3.2.1.1.1 User requirements at the coincident S and T reference point

GTP221_01	Reference to ETS 300 267-1 [5]: 5.5.2.2 b)	Other relevant reference:
TSS reference	UT7V/DEST/BI/GEN/FBA/ST	
Selection criteria	R 3.1 AND MC 1.2	
Test purpose	Verify that the IUT, in the Null call state U0, on receipt of a SETUP message, containing two BCs, BC1 and BC2, and a single LLC, ignores the received LLC.	
Cross reference		
Comments		

GTP221_02	Reference to ETS 300 267-1 [5]: 5.5.5.1	Other relevant reference:
TSS reference	UT7V/DEST/BI/GEN/FBA/ST	
Selection criteria	R 3.1 AND MC 1.2 AND MC 1.4 AND MC 1.5	
Test purpose	Verify that the IUT, in the Null call state U0, on receipt of a SETUP message, containing two BCs, BC1 and BC2, and no LLC, and two HLCs, HLC1 and HLC2, which do not, in any combination specify a defined teleservice, identifies the requested bearer service by taking the presented Bearer capability information elements.	
Cross reference		
Comments	Receipt of SETUP, fallback from BC2 to BC1, and from HLC2 to HLC1 allowed.	

GTP221_03	Reference to ETS 300 267-1 [5]: 5.5.5.1	Other relevant reference:
TSS reference	UT7V/DEST/BI/GEN/FBA/ST	
Selection criteria	R 3.1 AND MC 1.2 AND MC 1.5	
Test purpose	Verify that the IUT, in the Null call state U0, on receipt of a SETUP message, containing two BCs, BC1 and BC2, and no LLC, and one HLC, HLC1, which do not, in any combination specify a defined teleservice, identifies the requested bearer service by taking the presented Bearer capability information elements.	
Cross reference		
Comments	Receipt of SETUP, fallback from BC2 to BC1 allowed.	

5.3.3 Inopportune behaviour

5.3.3.1 Generic requirements

5.3.3.1.1 Connection management

5.3.3.1.1.1 User requirements at the coincident S and T reference point or for interworking with private ISDNs

GTP233_01	Reference to ETS 300 267-1 [5]: 5.6.6, 5.5.6.2	Other relevant reference: ETS 300 102-1 [2] 5.3
TSS reference	UT7V/DEST/BO/GEN/CMN/ST_T	
Selection criteria	MC 1.6 AND MR 5	
Test purpose	Verify that the IUT, in the Call received call state U7 for CR1 and in the Null call state U0 for CR2, on receipt of a videotelephony SETUP message for CR2, specifying a second videotelephony connection, rejects the SETUP message by sending a DISCONNECT or RELEASE COMPLETE message containing cause #21 "call rejected".	
Cross reference		
Comments	Rejection, by the destination IUT, of the establishment of a second connection when the first connection has not been established is in accordance with ETS 300 102-1 [2], subclause 5.3.	

6 Combined test purposes for telephony 7 kHz and videotelephony teleservices

Combined test purposes are used to enable the number of abstract test cases to be reduced by bringing together test purposes which are similar in their objective and which use the same preambles and PDUs. Even though some test purposes in the combined test purposes clause consist of only one test purpose, these still have a combined test purpose name associated with them to allow a one-to-one mapping between the test purposes and the corresponding test cases in the abstract test suite. Therefore, this clause contains the complete set of testable test purposes.

6.1 Combined test purpose format

The structure of a combined test purpose identifier is defined in table 3. The digits correspond to the digits of the first TP included in the combined test purpose.

Table 3: Combined TP identifier naming convention scheme

CT<digit><digit><digit>_<digit><digit>	combined TP covering a telephony 7 kHz requirement;
CV<digit><digit><digit>_<digit><digit>	combined TP covering a videotelephony requirement.

The combined test purposes are formatted as tables to increase readability. The table format is shown in table 4. Text in **bold** shows the text which is always present, normal text provides an explanation for each field.

Table 4: Structure of a single combined TP

Combined Test purpose identifier	All included test purpose identifiers.	
Selection criteria	The criteria necessary in order to select the combined test.	
TSS reference	The full Test Suite Structure reference of the test purpose.	
First Test purpose identifier	Reference to ETS 300 267-1 [5]:	Other relevant reference:
TSS reference	The full Test Suite Structure reference of the test purpose.	
Selection criteria	The criteria necessary in order to select this part of the test.	
Test purpose	Description of the test purpose.	
Second Test purpose identifier	Reference to ETS 300 267-1 [5]:	Other relevant reference:
TSS reference	The full Test Suite Structure reference of the test purpose.	
Selection criteria	The criteria necessary in order to select this part of the test.	
Test purpose	Description of the test purpose.	
Third Test purpose identifier	Reference to ETS 300 267-1 [5]:	Other relevant reference:
TSS reference	The full test suite structure reference of the test purpose.	
Selection criteria	The criteria necessary in order to select this part of the test.	
Test purpose	Description of the test purpose.	
⋮	⋮	
Comments	Any relevant comments.	

6.2 Calling user interface

6.2.1 Valid behaviour

6.2.1.1 Telephony 7 kHz teleservice

6.2.1.1.1 Fallback allowed

CT111_01	TTP111_01	
Selection criteria	R 1.1 AND (MC 1.1 OR MC 2.1)	
Combined TSS reference	UT7V/ORIG/BV/TL7/FBA	
TTP111_01	Reference to ETS 300 267-1 [5]: 6.6, 6.5.1 a), 5.6.1, 5.5.1.1	Other relevant reference:
TSS reference	UT7V/ORIG/BV/TL7/FBA/ST_T	
Test purpose	Verify that the IUT, in the Null call state U0, when initiating a call and allowing fallback, sends a SETUP message containing two BCs, with the first BC=speech and the second BC=UDI/TA, HLC=telephony, and not containing LLC and enters the Call Initiated call state U1.	
Comments		

CT111_02	TTP111_02, TTP111_09	
Selection criteria	R 1.1 AND (MC 1.1 OR MC 2.1)	
Combined TSS reference	UT7V/ORIG/BV/TL7/FBA	
TTP111_02	Reference to ETS 300 267-1 [5]: 6.6, 6.5.1 c), 6.5.1 e)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/TL7/FBA/ST_T	
Test purpose	Verify that the IUT, in the Outgoing Call Proceeding call state U3, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a CONNECT message, containing BC=UDI/TA, enters the Active call state U10.	
TTP111_09	Reference to ETS 300 267-1 [5]: 6.5.1 c), 6.5.1 e)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/TL7/FBA/ST	
Selection criteria	R 3.1	
Test purpose	Verify that the IUT, in the Outgoing Call Proceeding call state U3, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a CONNECT message, containing BC=UDI/TA, sends multiframe structures and starts initialisation procedure in the B-channel.	
Comments	Receipt of CONNECT (BC=UDI/TA): fallback allowed but did not occur. The IUT may send a connect acknowledge.	

CT111_03	TTP111_03, TTP111_10	
Selection criteria	R 1.1 AND (MC 1.1 OR MC 2.1)	
Combined TSS reference	UT7V/ORIG/BV/TL7/FBA	
TTP111_03	Reference to ETS 300 267-1 [5]: 6.6, 6.5.1 c), 6.5.1 e)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/TL7/FBA/ST_T	
Test purpose	Verify that the IUT, in the Call Delivered call state U4, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a CONNECT message, containing BC=UDI/TA, enters the Active call state U10.	
TTP111_10	Reference to ETS 300 267-1 [5]: 6.5.1 c), 6.5.1 e)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/TL7/FBA/ST	
Selection criteria	R 3.1	
Test purpose	Verify that the IUT, in the Call Delivered call state U4, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a CONNECT message, containing BC=UDI/TA, sends multiframe structures and starts initialisation procedure in the B-channel.	
Comments	Receipt of CONNECT (BC=UDI/TA): fallback allowed but did not occur. The IUT may send a connect acknowledge.	

CT111_04	TTP111_04	
Selection criteria	R 1.1 AND (MC 1.1 OR MC 2.1)	
Combined TSS reference	UT7V/ORIG/BV/TL7/FBA	
TTP111_04	Reference to ETS 300 267-1 [5]: 6.6, 6.5.1 c), 6.5.1 f)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/TL7/FBA/ST_T	
Test purpose	Verify that the IUT, in the Outgoing Call Proceeding call state U3, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a CONNECT message, containing BC=speech, enters the Active call state U10.	
Comments	Receipt of CONNECT (BC=speech): fallback allowed and occurred, to the telephony 3,1 kHz teleservice, at the destination user. What happens if B-channel is untestable.	

CT111_05	TTP111_05	
Selection criteria	R 1.1 AND (MC 1.1 OR MC 2.1)	
Combined TSS reference	UT7V/ORIG/BV/TL7/FBA	
TTP111_05	Reference to ETS 300 267-1 [5]: 6.6, 6.5.1 c), 6.5.1 f)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/TL7/FBA/ST_T	
Test purpose	Verify that the IUT, in the Call Delivered call state U4, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a CONNECT message, containing BC=speech, enters the Active call state U10.	
Comments	Receipt of CONNECT (BC=speech): fallback allowed and occurred, to the telephony 3,1 kHz teleservice, at the destination user. What happens in B-channel is untestable.	

CT111_06	TTP111_06	
Selection criteria	R 1.1 AND (MC 1.1 OR MC 2.1)	
Combined TSS reference	UT7V/ORIG/BV/TL7/FBA	
TTP111_06	Reference to ETS 300 267-1 [5]: 6.6, 6.5.1 d), 6.5.1 f)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/TL7/FBA/ST_T	
Test purpose	Verify that the IUT, in the Call initiated call state U1, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a CALL PROCEEDING message, containing PI=#5 and BC=speech, then on receipt of a CONNECT message, not containing BC, enters the Active call state U10.	
Comments	Receipt of CONNECT (BC=speech): fallback allowed and occurred, to the telephony 3,1 kHz teleservice, in the network. What happens in B-channel is untestable.	

CT111_07	TTP111_07	
Selection criteria	R 1.1 AND (MC 1.1 OR MC 2.1)	
Combined TSS reference	UT7V/ORIG/BV/TL7/FBA	
TTP111_07	Reference to ETS 300 267-1 [5]: 6.6, 6.5.1 d), 6.5.1 f)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/TL7/FBA/ST_T	
Test purpose	Verify that the IUT, in the Outgoing Call Proceeding call state U3, having sent a telephony 7 kHz fallback allowed SETUP message, and having received a PROGRESS message, containing PI=#5 and BC=speech, on receipt of a CONNECT message, not containing BC, enters the Active call state U10.	
Comments	Receipt of CONNECT (BC=speech): fallback allowed and occurred, to the telephony 3,1 kHz teleservice, in the network. What happens in B-channel is untestable.	

CT111_08	TTP111_08	
Selection criteria	R 1.1 AND (MC 1.1 OR MC 2.1)	
Combined TSS reference	UT7V/ORIG/BV/TL7/FBA	
TTP111_08	Reference to ETS 300 267-1 [5]: 6.6, 6.5.1 d), 6.5.1 f)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/TL7/FBA/ST_T	
Test purpose	Verify that the IUT, in the Call Delivered call state U4, having sent a telephony 7 kHz fallback allowed SETUP message, and having received an ALERTING message, containing PI=#5 and BC=speech, on receipt of a CONNECT message, not containing BC, enters the Active call state U10.	
Comments	Receipt of CONNECT (no BC): fallback allowed and occurred, to the telephony 3,1 kHz teleservice, in the network. What happens in B-channel is untestable.	

6.2.1.1.2 Fallback not allowed

CT112_01	TTP112_01	
Selection criteria	R 1.1 AND MT 5	
Combined TSS reference	UT7V/ORIG/BV/TL7/FBN	
TTP112_01	Reference to ETS 300 267-1 [5]: 6.6, 6.5.1 1)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/TL7/FBN/ST_T	
Test purpose	Verify that the IUT, in the Null call state U0, to set up a telephony 7 kHz teleservice call for which fallback to 3,1 kHz is not allowed, sends a SETUP message containing a single BC=UDI/TA and HLC=telephony and enters the Call Initiated call state U1.	
Comments		

CT112_02	TTP112_02, TTP112_05	
Selection criteria	R 1.1 AND MT 5	
Combined TSS reference	UT7V/ORIG/BV/TL7/FBN	
TTP112_02	Reference to ETS 300 267-1 [5]: 6.5.1 3)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/TL7/FBN/ST_T	
Test purpose	Verify that the IUT, in the Outgoing Call Proceeding call state U3, having sent a SETUP message containing a single BC=UDI/TA and HLC=telephony, on receipt of a CONNECT message, not containing BC, enters the Active call state U10.	
TTP112_05	Reference to ETS 300 267-1 [5]: 6.5.1 3)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/TL7/FBN/ST	
Selection criteria	R 3.1	
Test purpose	Verify that the IUT, in the Outgoing Call Proceeding call state U3, having sent a SETUP message containing a single BC=UDI/TA and HLC=telephony, on receipt of a CONNECT message, not containing BC, sends multiframe structures and starts initialisation procedure in the B-channel.	
Comments	Receipt of CONNECT (no BC), fallback not allowed.	

CT112_03	TTP112_03, TTP112_06	
Selection criteria	R 1.1 AND MT 5	
Combined TSS reference	UT7V/ORIG/BV/TL7/FBN	
TTP112_03	Reference to ETS 300 267-1 [5]: 6.5.1 3)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/TL7/FBN/ST_T	
Test purpose	Verify that the IUT, in the Call Delivered call state U4, having sent a SETUP message containing a single BC=UDI/TA and HLC=telephony, on receipt of a CONNECT message not containing BC, enters the Active call state U10	
TTP112_06	Reference to ETS 300 267-1 [5]: 6.5.1 3)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/TL7/FBN/ST	
Selection criteria	R 3.1	
Test purpose	Verify that the IUT, in the Call Delivered call state U4, having sent a SETUP message containing a single BC=UDI/TA and HLC=telephony, on receipt of a CONNECT message, not containing BC, sends multiframe structures and starts initialisation procedure in the B-channel.	
Comments	Receipt of CONNECT (no BC), fallback not allowed.	

6.2.1.1.3 Connection management

CT113_01	TTP113_01	
Selection criteria	R 1.1 AND R 3.1 AND MC 6 [6]	
Combined TSS reference	UT7V/ORIG/BV/TL7/CMN	
TTP113_01	Reference to ETS 300 267-1 [5]: 6.5.6	Other relevant reference: ETS 300 102-1 [2] 5.6.1
TSS reference	UT7V/ORIG/BV/TL7/CMN/ST	
Test purpose	Verify that the IUT, in the Active call state U10, on request for call rearrangement by the user in a basic access configuration, before sending a SUSPEND message, switches to mode 0U (unframed), A-law.	
Comments	Switching to mode 0U (unframed), A-law in the B-channel is specified in I-ETS 300 281 [7], clause 7.	

CT113_02	TTP113_02	
Selection criteria	R 1.1 AND R 3.1 AND MC 6 [6]	
Combined TSS reference	UT7V/ORIG/BV/TL7/CMN	
TTP113_02	Reference to ETS 300 267-1 [5]: 6.5.6	Other relevant reference: ETS 300 102-1 [2] 5.6.4
TSS reference	UT7V/ORIG/BV/TL7/CMN/ST	
Test purpose	Verify that the IUT, in the Resume request call state U17, on receipt of a RESUME ACKNOWLEDGE message, sends multiframe structures and starts initialisation procedure in the B-channel.	
Comments		

6.2.1.2 Videotelephony teleservice

6.2.1.2.1 Fallback allowed

CV111_01	VTP111_01	
Selection criteria	R 1.2 AND ((MC 1.1 AND MC 1.3) OR (MC 2.1 AND MC 2.3))	
Combined TSS reference	UT7V/ORIG/BV/VTL/FBA	
VTP111_01	Reference to ETS 300 267-1 [5]: 7.6, 7.5.1 a), 5.6.1, 5.5.1.1, 5.6.3, 5.5.3.1	Other relevant reference:
TSS reference	UT7V/ORIG/BV/VTL/FBA/ST_T	
Test purpose	Verify that the IUT, in the Null call state U0, when initiating a call and allowing fallback, sends 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 LLC and enters the Call Initiated call state U1.	
Comments		

CV111_02	VTP111_02, VTP111_12	
Selection criteria	R 1.2 AND ((MC 1.1 AND MC 1.3) OR (MC 2.1 AND MC 2.3))	
Combined TSS reference	UT7V/ORIG/BV/VTL/FBA	
VTP111_02	Reference to ETS 300 267-1 [5]: 7.6, 7.5.1 c), 7.5.1 e)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/VTL/FBA/ST_T	
Test purpose	Verify that the IUT, in the Outgoing Call Proceeding call state U3, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing BC=UDI/TA and HLC=videotelephony_ic, enters the Active call state U10.	
VTP111_12	Reference to ETS 300 267-1 [5]: 7.5.1 c), 7.5.1 e)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/VTL/FBA/ST	
Selection criteria	R 3.1	
Test purpose	Verify that the IUT, in the Outgoing Call Proceeding call state U3, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing BC=UDI/TA and HLC=videotelephony_ic, sends multiframe structures and starts initialisation procedure in the B-channel.	
Comments	Receipt of CONNECT (BC=UDI/TA, HLC=videotelephony_ic): fallback allowed but did not occur at the destination user.	

CV111_03	VTP111_03, VTP111_13	
Selection criteria	R 1.2 AND ((MC 1.1 AND MC 1.3) OR (MC 2.1 AND MC 2.3))	
Combined TSS reference	UT7V/ORIG/BV/VTL/FBA	
VTP111_03	Reference to ETS 300 267-1 [5]: 7.6, 7.5.1 c), 7.5.1 e)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/VTL/FBA/ST_T	
Test purpose	Verify that the IUT, in the Call Delivered call state U4, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing BC=UDI/TA and HLC=videotelephony_ic, enters the Active call state U10.	
VTP111_13	Reference to ETS 300 267-1 [5]: 7.5.1 c), 7.5.1 e)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/VTL/FBA/ST	
Selection criteria	R 3.1	
Test purpose	Verify that the IUT, in the Call Delivered call state U4, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing BC=UDI/TA and HLC=videotelephony_ic, sends multiframe structures and starts initialisation procedure in the B-channel.	
Comments	Receipt of CONNECT (BC=UDI/TA, HLC=videotelephony_ic): fallback allowed but did not occur at the destination user.	

CV111_04	VTP111_04	
Selection criteria	R 1.2 AND ((MC 1.1 AND MC 1.3) OR (MC 2.1 AND MC 2.3))	
Combined TSS reference	UT7V/ORIG/BV/VTL/FBA	
VTP111_04	Reference to ETS 300 267-1 [5]: 7.6, 7.5.1 c), 7.5.1 f)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/VTL/FBA/ST_T	
Test purpose	Verify that the IUT, in the Outgoing Call Proceeding call state U3, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing a single BC=speech and a single HLC=telephony, enters the Active call state U10.	
Comments	Receipt of CONNECT (BC=speech, HLC=telephony): fallback allowed and occurred, to the telephony 3,1 kHz teleservice, at the destination user. What happens in B-channel is untestable.	

CV111_05	VTP111_05	
Selection criteria	R 1.2 AND ((MC 1.1 AND MC 1.3) OR (MC 2.1 AND MC 2.3))	
Combined TSS reference	UT7V/ORIG/BV/VTL/FBA	
VTP111_05	Reference to ETS 300 267-1 [5]: 7.6, 7.5.1 c), 7.5.1 f)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/VTL/FBA/ST_T	
Test purpose	Verify that the IUT, in the Call Delivered call state U4, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing a single BC=speech and a single HLC=telephony, enters the Active call state U10.	
Comments	Receipt of CONNECT (BC=speech, HLC=telephony): fallback allowed and occurred, to the telephony 3,1 kHz teleservice, at the destination user. What happens in B-channel is untestable.	

CV111_06	VTP111_06, VTP111_16	
Selection criteria	R 1.2 AND ((MC 1.1 AND MC 1.3) OR (MC 2.1 AND MC 2.3))	
Combined TSS reference	UT7V/ORIG/BV/VTL/FBA	
VTP111_06	Reference to ETS 300 267-1 [5]: 7.6, 7.5.1 c), 7.5.1 g), 6.5.1 e)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/VTL/FBA/ST_T	
Test purpose	Verify that the IUT, in the Outgoing Call Proceeding call state U3, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing BC=UDI/TA and HLC=telephony, enters the Active call state U10.	
VTP111_16	Reference to ETS 300 267-1 [5]: 7.5.1 c), 7.5.1 g), 6.5.1 e)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/VTL/FBA/ST	
Selection criteria	R 3.1	
Test purpose	Verify that the IUT, in the Outgoing Call Proceeding call state U3, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing BC=UDI/TA and HLC=telephony, sends multiframe structures and starts initialisation procedure in the B-channel.	
Comments	Receipt of CONNECT (BC=UDI/TA, HLC=telephony): fallback allowed and occurred, to the telephony 7 kHz teleservice, at the destination user. If the IUT does not support the telephony 7 kHz teleservice, fallback to the telephony 3,1 kHz teleservice will occur in-band.	

CV111_07	VTP111_07, VTP111_17	
Selection criteria	R 1.2 AND ((MC 1.1 AND MC 1.3) OR (MC 2.1 AND MC 2.3))	
Combined TSS reference	UT7V/ORIG/BV/VTL/FBA	
VTP111_07	Reference to ETS 300 267-1 [5]: 7.6, 7.5.1 c), 7.5.1 g), 6.5.1 e)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/VTL/FBA/ST_T	
Test purpose	Verify that the IUT, in the Call Delivered call state U4, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing BC=UDI/TA and HLC=telephony, enters the Active call state U10.	
VTP111_17	Reference to ETS 300 267-1 [5]: 7.5.1 c), 7.5.1 g), 6.5.1 e)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/VTL/FBA/ST	
Selection criteria	R 3.1	
Test purpose	Verify that the IUT, in the Call Delivered call state U4, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing BC=UDI/TA and HLC=telephony, sends multiframe structures and starts initialisation procedure in the B-channel.	
Comments	Receipt of CONNECT (BC=UDI/TA, HLC=telephony): fallback allowed and occurred, to the telephony 7 kHz teleservice, at the destination user. If the IUT does not support the telephony 7 kHz teleservice, fallback to the telephony 3,1 kHz teleservice will occur in-band.	

CV111_08	VTP111_08	
Selection criteria	R 1.2 AND ((MC 1.1 AND MC 1.3) OR (MC 2.1 AND MC 2.3))	
Combined TSS reference	UT7V/ORIG/BV/VTL/FBA	
VTP111_08	Reference to ETS 300 267-1 [5]: 7.6, 7.5.1 d), 7.5.1 f)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/VTL/FBA/ST_T	
Test purpose	Verify that the IUT, in the Call Initiated call state U1, having sent a videotelephony fallback allowed SETUP message, on receipt of a CALL PROCEEDING message, containing PI=#5, BC=speech, and HLC=telephony, then on receipt of a CONNECT message containing neither BC nor HLC, enters the Active call state U10.	
Comments	Receipt of CONNECT (no BC, no HLC): fallback allowed and occurred, to the telephony 3,1 kHz teleservice, in the network. What happens in B-channel is untestable.	

CV111_09	VTP111_09	
Selection criteria	R 1.2 AND ((MC 1.1 AND MC 1.3) OR (MC 2.1 AND MC 2.3))	
Combined TSS reference	UT7V/ORIG/BV/VTL/FBA	
VTP111_09	Reference to ETS 300 267-1 [5]: 7.6, 7.5.1 d), 7.5.1 f)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/VTL/FBA/ST_T	
Test purpose	Verify that the IUT, in the Outgoing Call Proceeding call state U3, having sent a videotelephony fallback allowed SETUP message, and having received a PROGRESS message, containing PI=#5, BC=speech, and HLC=telephony, on receipt of a CONNECT message containing neither BC nor HLC, enters the Active call state U10.	
Comments	Receipt of CONNECT (no BC, no HLC): fallback allowed and occurred, to the telephony 3,1 kHz teleservice, in the network. What happens in B-channel is untestable.	

CV111_10	VTP111_10	
Selection criteria	R 1.2 AND ((MC 1.1 AND MC 1.3) OR (MC 2.1 AND MC 2.3))	
Combined TSS reference	UT7V/ORIG/BV/VTL/FBA	
VTP111_10	Reference to ETS 300 267-1 [5]: 7.6, 7.5.1 d), 7.5.1 f)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/VTL/FBA/ST_T	
Test purpose	Verify that the IUT, in the Call Delivered call state U4, having sent a videotelephony fallback allowed SETUP message, and having received an ALERTING message, containing PI=#5, BC=speech, and no HLC, on receipt of a CONNECT message containing neither BC nor HLC, enters the Active call state U10.	
Comments	Receipt of CONNECT (no BC, no HLC): fallback allowed and occurred, to the telephony 3,1 kHz teleservice, in the network.	

CV111_11	VTP111_11	
Selection criteria	R 1.2 AND ((MC 1.1 AND MC 1.3) OR (MC 2.1 AND MC 2.3))	
Combined TSS reference	UT7V/ORIG/BV/VTL/FBA	
VTP111_11	Reference to ETS 300 267-1 [5]: 7.6, 7.5.1 d), 7.5.1 f)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/VTL/FBA/ST_T	
Test purpose	Verify that the IUT, in the Call Delivered call state U4, having sent a videotelephony fallback allowed SETUP message, and having received an ALERTING message, containing PI=#5, BC=speech, and HLC=videotelephony_nex, on receipt of a CONNECT message containing neither BC nor HLC, enters the Active call state U10.	
Comments	Receipt of CONNECT (no BC, no HLC): fallback allowed and occurred, to the telephony 3,1 kHz teleservice, in the network.	

6.2.1.2.2 Fallback not allowed

CV112_01	VTP112_01	
Selection criteria	R 1.2 AND MT 5	
Combined TSS reference	UT7V/ORIG/BV/VTL/FBN	
VTP112_01	Reference to ETS 300 267-1 [5]: 7.6, 7.5.1 1)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/VTL/FBN/ST_T	
Test purpose	Verify that the IUT, in the Null call state U0, to set up a videotelephony call for which fallback to 7 kHz is not allowed, sends a SETUP message containing a single BC=UDI/TA and a single HLC=videotelephony_ic and enters the Call Initiated call state U1.	
Comments		

CV112_02	VTP112_02, VTP112_05	
Selection criteria	R 1.2 AND MT 5	
Combined TSS reference	UT7V/ORIG/BV/VTL/FBN	
VTP112_02	Reference to ETS 300 267-1 [5]: 7.5.1 3)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/VTL/FBN/ST_T	
Test purpose	Verify that the IUT, in the Outgoing Call Proceeding call state U3, having sent a videotelephony fallback not allowed SETUP message, on receipt of a CONNECT message not containing BC, enters the Active call state U10.	
VTP112_05	Reference to ETS 300 267-1 [5]: 7.5.1 3)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/VTL/FBN/ST	
Selection criteria	R 3.1	
Test purpose	Verify that the IUT, in the Outgoing Call Proceeding call state U3, having sent a videotelephony fallback not allowed SETUP message, on receipt of a CONNECT message, not containing BC, sends multiframe structures and starts initialisation procedure in the B-channel.	
Comments	Receipt of CONNECT (no BC), fallback not allowed.	

CV112_03	VTP112_03, VTP112_06	
Selection criteria	R 1.2 AND MT 5	
Combined TSS reference	UT7V/ORIG/BV/VTL/FBN	
VTP112_03	Reference to ETS 300 267-1 [5]: 7.5.1 3)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/VTL/FBN/ST_T	
Test purpose	Verify that the IUT, in the Call Delivered call state U4, having sent a videotelephony fallback not allowed SETUP message, on receipt of a CONNECT message, not containing BC, enters the Active call state U10.	
VTP112_06	Reference to ETS 300 267-1 [5]: 7.5.1 3)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/VTL/FBN/ST	
Selection criteria	R 3.1	
Test purpose	Verify that the IUT, in the Call Delivered call state U4, having sent a videotelephony fallback not allowed SETUP message, on receipt of a CONNECT message, not containing BC, sends multiframe structures and starts initialisation procedure in the B-channel.	
Comments	Receipt of CONNECT (no BC), fallback not allowed.	

6.2.1.2.3 Connection management

CV113_01	VTP113_01	
Selection criteria	R 3.1 AND R 1.2 AND MC 1.6 AND MT 5	
Combined TSS reference	UT7V/ORIG/BV/VTL/CMN	
VTP113_01	Reference to ETS 300 267-1 [5]: 7.5.1, 5.5.6.1 b)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/VTL/CMN/ST	
Test purpose	Verify that the IUT, in the Active call state U10 for CR1 and in the Null call state U0 for CR2, when during the capability exchange in mode initialisation it has received and sent 2B and video capabilities, sends a videotelephony SETUP message for CR2 and enters the Call Initiated call state U1.	
Comments	Sending of videotelephony connection 2 SETUP.	

CV113_02	VTP113_02	
Selection criteria	R 3.1 AND R 1.2 AND MC 1.6 AND MT 5	
Combined TSS reference	UT7V/ORIG/BV/VTL/CMN	
VTP113_02	Reference to ETS 300 267-1 [5]: 7.5.1	Other relevant reference:
TSS reference	UT7V/ORIG/BV/VTL/CMN/ST	
Test purpose	Verify that the IUT, in the Active call state U10 for CR1 and in the Outgoing Call Proceeding call state U3 for CR2, having sent a videotelephony SETUP message for CR2, on receipt of a CONNECT message for CR2, sends multiframe structures and gains multiframe alignment and synchronisation on both B-channels .	
Comments	Receipt of CONNECT (no BC, no HLC): connection II established.	

CV113_03	VTP113_03	
Selection criteria	R 3.1 AND R 1.2 AND MC 6 [6]	
Combined TSS reference	UT7V/ORIG/BV/VTL/CMN	
VTP113_03	Reference to ETS 300 267-1 [5]: 7.5.6	Other relevant reference: ETS 300 102-1 [2] 5.6.1
TSS reference	UT7V/ORIG/BV/VTL/CMN/ST	
Test purpose	Verify that the IUT, in the Active call state U10, on request for call rearrangement by the user in a basic access configuration, before sending a SUSPEND message, switches to mode 0U (unframed), A-law in the B-channel.	
Comments	Switching to mode 0U (unframed), A-law in the B-channel follows procedure P described in ETS 300 145 [4], subclause 6.3.1.	

CV113_04	VTP113_04	
Selection criteria	R 3.1 AND R 1.2 AND MC 6 [6]	
Combined TSS reference	UT7V/ORIG/BV/VTL/CMN	
VTP113_04	Reference to ETS 300 267-1 [5]: 7.5.6	Other relevant reference: ETS 300 102-1 [2] 5.6.4
TSS reference	UT7V/ORIG/BV/VTL/CMN/ST	
Test purpose	Verify that the IUT, in the Resume request call state U17, on receipt of a RESUME ACKNOWLEDGE message, sends multiframe structures and starts initialisation procedure in the B-channel.	
Comments		

CV113_05	VTP113_05, VTP113_06	
Selection criteria	R 3.1 AND R 1.2 AND MC 1.6 AND MC 6 [6]	
Combined TSS reference	UT7V/ORIG/BV/VTL/CMN	
VTP113_05	Reference to ETS 300 267-1 [5]: 7.5.6	Other relevant reference: ETS 300 102-1 [2] 5.6.1
TSS reference	UT7V/ORIG/BV/VTL/CMN/ST	
Test purpose	Verify that the IUT, in the Active call state U10 for CR1 and CR2, on request for call rearrangement by the user in a basic access configuration, before sending a SUSPEND message for CR1 and CR2, switches to mode 0U (unframed), A-law in the B-channel.	
VTP113_06	Reference to ETS 300 267-1 [5]: 7.5.6	Other relevant reference: ETS 300 102-1 [2] 5.6.1
TSS reference	UT7V/ORIG/BV/VTL/CMN/ST	
Test purpose	Verify that the IUT, in the Active call state U10 for CR1 and CR2, on request for call rearrangement by the user in a basic access configuration, sends a SUSPEND message for CR1 and CR2, each containing a Call identity information element with its call identity field set to a different value and enters the Suspend Request call state U15.	
Comments	Switching to mode 0U (unframed), A-law in the B-channel follows procedure P described in ETS 300 145 [4], subclause 6.3.1.	

CV113_07	VTP113_07	
Selection criteria	R 3.1 AND R 1.2 AND MC 1.6 AND MC 6 [6]	
Combined TSS reference	UT7V/ORIG/BV/VTL/CMN	
VTP113_07	Reference to ETS 300 267-1 [5]: 7.5.6	Other relevant reference: ETS 300 102-1 [2] 5.6.4
TSS reference	UT7V/ORIG/BV/VTL/CMN/ST	
Test purpose	Verify that, in the case of two established connections for CR1 and CR2, the IUT, in the Resume request call state U17 for CR1 and CR2, on receipt of a RESUME ACKNOWLEDGE message for CR1 and CR2, sends multiframe structures and starts initialisation procedure in the B-channel.	
Comments		

CV113_08	VTP113_08	
Selection criteria	R 3.2 AND R 1.2 AND MC 1.6 AND MT 5	
Combined TSS reference	UT7V/ORIG/BV/VTL/CMN	
VTP113_08	Reference to ETS 300 267-1 [5]: 7.6, 7.5.1, 5.6.6, 5.5.6.1 c)	Other relevant reference:
TSS reference	UT7V/ORIG/BV/VTL/CMN/PT	
Test purpose	Verify that the IUT, in the Active call state U10 for CR1, is capable of sending a videotelephony SETUP message for CR2 and enters the Call Initiated call state U1.	
Comments	Sending of videotelephony connection 2.	

6.2.2 Invalid behaviour

6.2.2.1 Telephony 7 kHz teleservice

6.2.2.1.1 Fallback allowed

CT121_01	TTP121_01	
Selection criteria	R 1.1 AND (MC 1.1 OR MC 2.1)	
Combined TSS reference	UT7V/ORIG/BI/TL7/FBA	
TTP121_01	Reference to ETS 300 267-1 [5]: 6.6, 6.5.1 d, 6.5.1. f)	Other relevant reference:
TSS reference	UT7V/ORIG/BI/TL7/FBA/ST_T	
Test purpose	Verify that the IUT, in the Call Initiated call state U1, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a CALL PROCEEDING message, containing PI=#5, but not containing BC, then on receipt of a CONNECT message, not containing BC, enters the Active call state U10.	
Comments	Receipt of CONNECT (no BC): fallback allowed and occurred, to the telephony 3,1 kHz teleservice, in the network. What happens in B-channel is untestable.	

CT121_02	TTP121_02	
Selection criteria	R 1.1 AND (MC 1.1 OR MC 2.1)	
Combined TSS reference	UT7V/ORIG/BI/TL7/FBA	
TTP121_02	Reference to ETS 300 267-1 [5]: 6.6, 6.5.1 d), 6.5.1. f)	Other relevant reference:
TSS reference	UT7V/ORIG/BI/TL7/FBA/ST_T	
Test purpose	Verify that the IUT, in the Outgoing Call Proceeding call state U3, having sent a telephony 7 kHz fallback allowed SETUP message, and having received a PROGRESS message, containing PI=#5, but not containing BC, on receipt of a CONNECT message, not containing BC, enters the Active call state U10.	
Comments	Receipt of CONNECT (no BC): fallback allowed and occurred, to the telephony 3,1 kHz teleservice, in the network. What happens in B-channel is untestable.	

CT121_03	TTP121_03	
Selection criteria	R 1.1 AND (MC 1.1 OR MC 2.1)	
Combined TSS reference	UT7V/ORIG/BI/TL7/FBA	
TTP121_03	Reference to ETS 300 267-1 [5]: 6.6, 6.5.1 d), 6.5.1. f)	Other relevant reference:
TSS reference	UT7V/ORIG/BI/TL7/FBA/ST_T	
Test purpose	Verify that the IUT, in the Call Delivered call state U4, having sent a telephony 7 kHz fallback allowed SETUP message, and having received an ALERTING message, containing PI=#5, but not containing BC, on receipt of a CONNECT message, not containing BC, enters the Active call state U10.	
Comments	Receipt of CONNECT (no BC): fallback allowed and occurred, to the telephony 3,1 kHz teleservice, in the network. What happens in B-channel is untestable.	

6.2.2.2 Videotelephony teleservice

6.2.2.2.1 Fallback allowed

CV121_01	VTP121_01	
Selection criteria	R 1.2 AND ((MC 1.1 AND MC 1.3) OR (MC 2.1 AND MC 2.3))	
Combined TSS reference	UT7V/ORIG/BI/VTL/FBA	
VTP121_01	Reference to ETS 300 267-1 [5]: 7.6, 7.5.1 c), 7.5.1 f)	Other relevant reference:
TSS reference	UT7V/ORIG/BI/VTL/FBA/ST_T	
Test purpose	Verify that the IUT, in the Outgoing Call Proceeding call state U3, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing a single BC=speech but not containing HLC, enters the Active call state U10.	
Comments	Receipt of CONNECT (BC=speech): fallback allowed and occurred, to the telephony 3,1 kHz teleservice, at the destination user.	

CV121_02	VTP121_02	
Selection criteria	R 1.2 AND ((MC 1.1 AND MC 1.3) OR (MC 2.1 AND MC 2.3))	
Combined TSS reference	UT7V/ORIG/BI/VTL/FBA	
VTP121_02	Reference to ETS 300 267-1 [5]: 7.6, 7.5.1 c), 7.5.1 f)	Other relevant reference:
TSS reference	UT7V/ORIG/BI/VTL/FBA/ST_T	
Test purpose	Verify that the IUT, in the Call Delivered call state U4, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing a single BC=speech but not containing HLC, enters the Active call state U10.	
Comments	Receipt of CONNECT (BC=speech): fallback allowed and occurred, to the telephony 3,1 kHz teleservice, at the destination user.	

CV121_03	VTP121_03	
Selection criteria	R 1.2 AND ((MC 1.1 AND MC 1.3) OR (MC 2.1 AND MC 2.3))	
Combined TSS reference	UT7V/ORIG/BI/VTL/FBA	
VTP121_03	Reference to ETS 300 267-1 [5]: 7.6, 7.5.1 d), 7.5.1. f)	Other relevant reference:
TSS reference	UT7V/ORIG/BI/VTL/FBA/ST_T	
Test purpose	Verify that the IUT, in the Call Initiated call state U1, having sent a videotelephony fallback allowed SETUP message, on receipt of a CALL PROCEEDING message, containing PI=#5 and BC=speech, but not containing HLC, then on receipt of a CONNECT message containing neither BC nor HLC, enters the Active call state U10.	
Comments	Receipt of CONNECT (no BC, no HLC): fallback allowed and occurred, to the telephony 3,1 kHz teleservice, in the network. What happens in B-channel is untestable.	

CV121_04	VTP121_04	
Selection criteria	R 1.2 AND ((MC 1.1 AND MC 1.3) OR (MC 2.1 AND MC 2.3))	
Combined TSS reference	UT7V/ORIG/BI/VTL/FBA	
VTP121_04	Reference to ETS 300 267-1 [5]: 7.6, 7.5.1 d), 7.5.1. f)	Other relevant reference:
TSS reference	UT7V/ORIG/BI/VTL/FBA/ST_T	
Test purpose	Verify that the IUT, in the Outgoing Call Proceeding call state U3, having sent a videotelephony fallback allowed SETUP message, and having received a PROGRESS message, containing PI=#5 and HLC=telephony, but not containing BC, on receipt of a CONNECT message containing neither BC nor HLC, enters the Active call state U10.	
Comments	Receipt of CONNECT (no BC, no HLC): fallback allowed and occurred, to the telephony 3,1 kHz teleservice, in the network. What happens in B-channel is untestable.	

CV121_05	VTP121_05	
Selection criteria	R 1.2 AND ((R 3.1 AND MC 1.1 AND MC 1.3) OR (MC 2.1 AND MC 2.3))	
Combined TSS reference	UT7V/ORIG/BI/VTL/FBA	
VTP121_05	Reference to ETS 300 267-1 [5]: 7.6, 7.5.1 d), 7.5.1. f)	Other relevant reference:
TSS reference	UT7V/ORIG/BI/VTL/FBA/ST_T	
Test purpose	Verify that the IUT, in the Call Delivered call state U4, having sent a videotelephony fallback allowed SETUP message, and having received an ALERTING message, containing PI=#5, but not containing BC or HLC, on receipt of a CONNECT message containing neither BC nor HLC, enters the Active call state U10.	
Comments	Receipt of CONNECT (no BC, no HLC): fallback allowed and occurred, to the telephony 3,1 kHz teleservice, in the network. What happens in B-channel is untestable.	

6.3 Called user interface

6.3.1 Valid behaviour

6.3.1.1 Telephony 7 kHz teleservice

6.3.1.1.1 Fallback allowed

CT211_01	TTP211_01, TTP211_02	
Selection criteria	(R 1.1 OR R1.2) AND (MC 1.2 OR MC 2.2)	
Combined TSS reference	UT7V/DEST/BV/TL7/FBA	
TTP211_01	Reference to ETS 300 267-1 [5]: 6.6 b), 6.5.2 1)	Other relevant reference:
TSS reference	UT7V/DEST/BV/TL7/FBA/ST_T	
Test purpose	Verify that the IUT, in the Null call state U0, receiving a telephony 7 kHz teleservice call for which fallback to 3,1 kHz is allowed, accepts a SETUP message containing two BCs, with the first BC=speech and the second BC=UDI/TA, HLC=telephony, and not containing LLC and continues with normal basic call handling.	
TTP211_02	Reference to ETS 300 267-1 [5]: 6.6 b), 6.6 c), 6.5.2 b), 6.5.2 c), 5.5.2.1, 5.6.2.1	Other relevant reference:
Selection criteria	R 1.1	
TSS reference	UT7V/DEST/BV/TL7/FBA/ST_T	
Test purpose	Verify that the IUT, in the Call Present call state U6, having received a telephony 7 kHz fallback allowed SETUP message, when fallback does not occur, sends a CONNECT message containing BC=UDI/TA and enters the Connect Request call state U8.	
Comments	Sending of CONNECT (BC=UDI/TA): fallback allowed but did not occur.	

CT211_03	TTP211_03, TTP211_05	
Selection criteria	R 1.1 AND (MC 1.2 OR MC 2.2)	
Combined TSS reference	UT7V/DEST/BV/TL7/FBA	
TTP211_03	Reference to ETS 300 267-1 [5]: 6.5.2 d)	Other relevant reference:
TSS reference	UT7V/DEST/BV/TL7/FBA/ST_T	
Test purpose	Verify that the IUT, in the Connect Request call state U8, having received a telephony 7 kHz fallback allowed SETUP message and having sent a CONNECT message, containing BC=UDI/TA, on receipt of a CONNECT ACKNOWLEDGE message, enters the Active call state U10.	
TTP211_05	Reference to ETS 300 267-1 [5]: 6.5.2 d)	Other relevant reference:
TSS reference	UT7V/DEST/BV/TL7/FBA/ST	
Selection criteria	R 3.1	
Test purpose	Verify that the IUT, in the Connect Request call state U8, having received a telephony 7 kHz fallback allowed SETUP message and having sent a CONNECT message, containing BC=UDI/TA, on receipt of a CONNECT ACKNOWLEDGE message, sends multiframe structures and starts initialisation procedure in the B-channel.	
Comments	Sending of CONNECT (BC=UDI/TA): fallback allowed but did not occur.	

CT211_04	TTP211_04	
Selection criteria	(R 1.1 OR R 1.2) AND (MC 1.2 OR MC 2.2)	
Combined TSS reference	UT7V/DEST/BV/TL7/FBA	
TTP211_04	Reference to ETS 300 267-1 [5]: 6.6 b), 6.6 c), 5.6.2.1	Other relevant reference:
TSS reference	UT7V/DEST/BV/TL7/FBA/ST_T	
Test purpose	Verify that the IUT in the Call Present call state U6, having received a telephony 7 kHz fallback allowed SETUP message, when fallback is allowed and occurs to 3,1 kHz, is capable of sending a CONNECT message containing BC=speech or does not contain BC and enters the Connect Request call state U8.	
Comments	Sending of CONNECT (BC=speech): fallback allowed and occurred, to telephony 3,1 kHz (not within the private ISDN for the T reference point) PIXIT: How to configure the IUT to fallback outside the private ISDN?	

CT211_06	TTP211_06	
Selection criteria	R 3.2 AND (R 1.1 OR R 1.2) AND MC 2.2	
Combined TSS reference	UT7V/DEST/BV/TL7/FBA	
TTP211_06	Reference to ETS 300 267-1 [5]: 6.6 d), 5.6.2.1	Other relevant reference:
TSS reference	UT7V/DEST/BV/TL7/FBA/PT	
Test purpose	Verify that the IUT, in the Null call state U0, on receipt of a telephony 7 kHz fallback allowed SETUP message, when fallback is allowed and occurs to 3,1 kHz, is capable of sending a CALL PROCEEDING, PROGRESS, or ALERTING message containing PI=#5 and BC=speech or does not contain BC and enters the relevant basic call state.	
Comments	Sending of CALL PROCEEDING, PROGRESS, or ALERTING: Fallback allowed and occurred, to telephony 3,1 kHz, within the private ISDN. PIXIT: How to configure the IUT to fallback within the private ISDN?	

6.3.1.1.2 Fallback not allowed

CT212_01	TTP212_02, TTP212_01	
Selection criteria	R 1.1 AND MR 5	
Combined TSS reference	UT7V/DEST/BV/TL7/FBN	
TTP212_01	Reference to ETS 300 267-1 [5]: 6.6 b), 6.5.2 1)	Other relevant reference:
TSS reference	UT7V/DEST/BV/TL7/FBN/ST_T	
Test purpose	Verify that the IUT, in the Null call state U0, receiving a telephony 7 kHz teleservice call for which fallback to 3,1 kHz is not allowed, accepts a SETUP message containing a single BC=UDI/TA and HLC=telephony and continues with normal basic call handling.	
TTP212_02	Reference to ETS 300 267-1 [5]: 6.5.2 2)	Other relevant reference:
TSS reference	UT7V/DEST/BV/TL7/FBN/ST	
Selection criteria	R 3.1	
Test purpose	Verify that the IUT, in the Connect Request call state U8, having received a telephony 7 kHz fallback not allowed SETUP message, and having sent a CONNECT message, on receipt of a CONNECT ACKNOWLEDGE message, sends multiframe structures and starts initialisation procedure in the B-channel.	
Comments		

6.3.1.2 Videotelephony teleservice

6.3.1.2.1 Fallback allowed

CV211_01	VTP211_01, VTP211_03, VTP211_07	
Selection criteria	R 1.2 AND ((MC 1.2 AND MC 1.4) OR (MC 2.2 AND MC 2.4))	
Combined TSS reference	UT7V/DEST/BV/VTL/FBA	
VTP211_01	Reference to ETS 300 267-1 [5]: 7.5.2 a)	Other relevant reference: ETS 300 102-1 [2] 5.2
TSS reference	UT7V/DEST/BV/VTL/FBA/ST_T	
Test purpose	Verify that the IUT, in the Null call state U0, receiving a videotelephony call for which fallback is allowed, accepts a SETUP 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 LLC and continues with normal basic call handling.	
VTP211_03	Reference to ETS 300 267-1 [5]: 7.5.2 b), 7.5.2 c), 5.5.2.1, 5.5.4.1	Other relevant reference: ETS 300 102-1 [2] 5.2
TSS reference	UT7V/DEST/BV/VTL/FBA/ST	
Selection criteria	R 1.2 AND R 3.1	
Test purpose	Verify that the IUT, in the Call Present call state U6, having received a videotelephony fallback allowed SETUP message, sends a CONNECT message containing BC=UDI/TA and HLC=videotelephony_ic and enters the Connect Request call state U8.	
VTP211_07	Reference to ETS 300 267-1 [5]: 7.6 b), 7.6 c), 5.6.2.1, 5.6.4.1	Other relevant reference:
TSS reference	UT7V/DEST/BV/VTL/FBA/PT	
Selection criteria	R 1.2 AND R 3.2	
Test purpose	Verify that the IUT, in the Call Present call state U6, having received a videotelephony fallback allowed SETUP message, is capable of sending a CONNECT message containing BC=UDI/TA and HLC=videotelephony_nex or HLC=videotelephony_ic and enters the Connect Request call state U8.	
Comments	Fallback allowed but did not occur	

CV211_02	VTP211_02, VTP211_04	
Selection criteria	R 1.2 AND ((MC 1.2 AND MC 1.4) OR (MC 2.2 AND MC 2.4))	
Combined TSS reference	UT7V/DEST/BV/VTL/FBA	
VTP211_02	Reference to ETS 300 267-1 [5]: 7.5.2 d)	Other relevant reference: ETS 300 102-1 [2] 5.2
TSS reference	UT7V/DEST/BV/VTL/FBA/ST_T	
Test purpose	Verify that the IUT, in the Connect Request call state U8, having received a videotelephony fallback allowed SETUP message, and having sent a CONNECT message, containing BC=UDI/TA and HLC=videotelephony_ic or videotelephony_nex, on receipt of a CONNECT ACKNOWLEDGE message, enters the Active call state U10.	
VTP211_04	Reference to ETS 300 267-1 [5]: 7.5.2 d)	Other relevant reference: ETS 300 102-1 [2] 5.2
TSS reference	UT7V/DEST/BV/VTL/FBA/ST	
Selection criteria	R 3.1	
Test purpose	Verify that the IUT, in the Connect Request call state U8, having received a videotelephony fallback allowed SETUP message, and having sent a CONNECT message, containing BC=UDI/TA and HLC=videotelephony_ic, on receipt of a CONNECT ACKNOWLEDGE message, sends multiframe structures and starts initialisation procedure in the B-channel.	
Comments	Sending of CONNECT: fallback allowed but did not occur.	

CV211_05	VTP211_05	
Selection criteria	R 3.1 AND R 1.2 AND MC 1.2 AND MC 1.4	
Combined TSS reference	UT7V/DEST/BV/VTL/FBA/ST	
VTP211_05	Reference to ETS 300 267-1 [5]: 7.5.2 c),	Other relevant reference:
TSS reference	UT7V/DEST/BV/VTL/FBA	
Test purpose	Verify that the IUT, in the Call Present call state U6, having received a videotelephony fallback allowed SETUP message and fallback has occurred to telephony 3,1 kHz, is capable of sending a CONNECT message containing BC=speech and HLC=telephony OR no BC and any valid HLC value OR BC=speech and no HLC and enters the Connect Request call state U8.	
Comments	Sending of CONNECT (BC=speech, HLC=telephony): fallback allowed and occurred, to telephony 3,1 kHz	

CV211_06	VTP211_06	
Selection criteria	R 3.1 AND R 1.2 AND MC 1.2 AND MC 1.4	
Combined TSS reference	UT7V/DEST/BV/VTL/FBA	
VTP211_06	Reference to ETS 300 267-1 [5]: 7.5.2 c),	Other relevant reference:
TSS reference	UT7V/DEST/BV/VTL/FBA/ST	
Test purpose	Verify that the IUT, in the Call Present call state U6, having received a videotelephony fallback allowed SETUP message and fallback has occurred to telephony 7 kHz, is capable of sending a CONNECT message containing BC=UDI/TA and HLC=telephony OR BC=UDI/TA and no HLC and enters the Connect Request call state U8.	
Comments	Sending of CONNECT (BC=UDI/TA, HLC=telephony): fallback allowed and occurred, to telephony 7 kHz.	

CV211_08	VTP211_08	
Selection criteria	R 3.2 AND R 1.1 AND R 1.2 AND MC 2.2 AND MC 2.4	
Combined TSS reference	UT7V/DEST/BV/VTL/FBA	
VTP211_08	Reference to ETS 300 267-1 [5]: 7.6 b), 7.6 c), 5.6.2.1, 5.6.4.1	Other relevant reference:
TSS reference	UT7V/DEST/BV/VTL/FBA/PT	
Test purpose	Verify that the IUT IN the Call Present call state U6, having received a videotelephony fallback allowed SETUP message, is capable of sending a CONNECT message containing BC=UDI/TA and HLC=telephony and enters the Connect Request call state U8.	
Comments	Sending of CONNECT (BC=UDI/TA, HLC=telephony): fallback allowed and occurred, to telephony 7 kHz (not within the private ISDN). PIXIT: How to configure the IUT to fallback outside the private ISDN?	

CV211_09	VTP211_09	
Selection criteria	R 3.2 AND R 1.2 AND MC 2.2 AND MC 2.4	
Combined TSS reference	UT7V/DEST/BV/VTL/FBA	
VTP211_09	Reference to ETS 300 267-1 [5]: 7.6 b), 7.6 c), 5.6.2.1, 5.6.4.1	Other relevant reference:
TSS reference	UT7V/DEST/BV/VTL/FBA/PT	
Test purpose	Verify that the IUT, IN the Call Present call state U6, having received a videotelephony fallback allowed SETUP message, is capable of sending a CONNECT message containing BC=speech and HLC=telephony OR no BC and no HLC OR BC=speech and no HLC and enters the Connect Request call state U8.	
Comments	Sending of CONNECT fallback allowed and occurred, to telephony 3,1 kHz (not within the private ISDN). PIXIT: How to configure the IUT to fallback outside the private ISDN?	

CV211_10	VTP211_10	
Selection criteria	R 3.2 AND R 1.2 AND MC 2.2 AND MC 2.4	
Combined TSS reference	UT7V/DEST/BV/VTL/FBA	
VTP211_10	Reference to ETS 300 267-1 [5]: 7.6 d), 5.6.2.1, 5.6.4.1	Other relevant reference:
TSS reference	UT7V/DEST/BV/VTL/FBA/PT	
Test purpose	Verify that the IUT, in the Null call state U0, on receipt of a videotelephony fallback allowed SETUP message, is capable of sending a CALL PROCEEDING, PROGRESS or ALERTING message containing PI=#5, and BC=speech and HLC=videotelephony_ic or HLC=videotelephony_nex or HLC=telephony or no HLC, OR no BC and no HLC information elements and enters the relevant basic call state.	
Comments	Sending of CALL PROCEEDING, PROGRESS or ALERTING: Fallback allowed and occurred, to telephony 3,1 kHz, within the private ISDN. PIXIT: How to configure the IUT to fallback within the private ISDN?	

CV211_11	VTP211_11	
Selection criteria	R 3.2 AND R 1.2 AND MC 2.2 AND MC 2.4	
Combined TSS reference	UT7V/DEST/BV/VTL/FBA	
VTP211_11	Reference to ETS 300 267-1 [5]: 7.6 d), 5.6.4.1	Other relevant reference:
TSS reference	UT7V/DEST/BV/VTL/FBA/PT	
Test purpose	Verify that the IUT, in the Null call state U0, on receipt of a videotelephony fallback allowed SETUP message, is capable of sending a CALL PROCEEDING, PROGRESS or ALERTING message containing PI=#5, and BC=UDI/TA, and HLC=telephony and enters the relevant basic call state.	
Comments	Sending of CALL PROCEEDING, PROGRESS or ALERTING: Fallback allowed and occurred, to telephony 7 kHz, within the private ISDN. PIXIT: How to configure the IUT to telephony 7 kHz fallback within the private ISDN?	

6.3.1.2.2 Fallback not allowed

CV212_01	VTP212_01, VTP212_02	
Selection criteria	R 1.2	
Combined TSS reference	UT7V/DEST/BV/VTL/FBN	
VTP212_01	Reference to ETS 300 267-1 [5]: 7.5.2 1)	Other relevant reference: ETS 300 102-1 [2] 5.2
TSS reference	UT7V/DEST/BV/VTL/FBN/ST_T	
Test purpose	Verify that the IUT, in the Null call state U0, receiving a videotelephony call for which fallback is not allowed, accepts a SETUP message containing a single BC=UDI/TA and a single HLC=videotelephony_ic and responds with a SETUP ACKNOWLEDGE, CALL PROCEEDING, ALERTING or CONNECT message and enters the relevant basic call state.	
VTP212_02	Reference to ETS 300 267-1 [5]: 7.5.2 2)	Other relevant reference: ETS 300 102-1 [2] 5.2
TSS reference	UT7V/DEST/BV/VTL/FBN/ST	
Selection criteria	R 3.1 AND MR 5 [6]	
Test purpose	Verify that the IUT, in the Connect Request call state U8, having received a videotelephony fallback not allowed SETUP message, and having sent a CONNECT message, on receipt of a CONNECT ACKNOWLEDGE message, sends multiframe structures and starts initialisation procedure in the B-channel.	
Comments		

6.3.1.2.3 Connection management

CV213_01	VTP213_01	
Selection criteria	R 3.1 AND R 1.2 AND MC 1.6 AND MR 5	
Combined TSS reference	UT7V/DEST/BV/VTL/CMN	
VTP213_01	Reference to ETS 300 267-1 [5]: 7.5.2 (3rd last and 2nd last paragraph.)	Other relevant reference:
TSS reference	UT7V/DEST/BV/VTL/CMN/ST	
Test purpose	Verify that the IUT, in the Active call state U10 for CR1 and in the Null call state U0 for CR2,, on receipt of a videotelephony SETUP message for CR2, automatically accepts the call, i.e. does not send an ALERTING message but sends a CONNECT message and enters the Connect Request call state U8.	
Comments		

CV213_02	VTP213_02	
Selection criteria	R 3.1 AND R 1.2 AND MC 1.6 AND MR 5 AND MR 5 [6]	
Combined TSS reference	UT7V/DEST/BV/VTL/CMN	
VTP213_02	Reference to ETS 300 267-1 [5]: 7.5.2 (last paragraph)	Other relevant reference:
TSS reference	UT7V/DEST/BV/VTL/CMN/ST	
Test purpose	Verify that the IUT, in the Active call state U10 for CR1 and in the Connect Request call state U8 for CR2,, having received a videotelephony SETUP message for CR2 and having sent a CONNECT message, on receipt of a CONNECT ACKNOWLEDGE message, sends multiframe structures and gains multiframe alignment and synchronisation on both B-channels.	
Comments	Establishment of second connection at destination interface.	

7 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 clauses 5 and 6;
- 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 clauses 5 and 6, between the TPs and the entries in the PICS proforma, specified in ETS 300 267-2 [6], to be used for test case selection;
- comply with ISO/IEC 9646-2 [12] and ISO/IEC 9646-3 [13].

Annex A (informative): Cross reference: Generic, telephony 7 kHz and video-telephony teleservices test purposes

A.1 Generic test purposes to telephony 7 kHz and videotelephony teleservices test purposes

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

Table A.1

Generic TP	Telephony 7 kHz TP	Videotelephony TP
GTP111_01	TTP111_01	VTP111_01
GTP111_02		
GTP111_03		
GTP111_04		VTP111_01
GTP111_05		
GTP111_06		
GTP111_07		
GTP111_08		
GTP111_09		
GTP111_10		
GTP111_11	TTP111_16	VTP111_22
GTP112_01		
GTP112_02		
GTP112_03		
GTP112_04		
GTP112_05		
GTP112_06		
GTP112_07		
GTP112_08	TTP112_04	VTP112_04
GTP112_09		
GTP113_01		
GTP113_02		VTP113_01, VTP113_08
GTP113_03		
GTP113_04		
GTP113_05		
GTP113_06		
GTP121_01		
GTP121_02		
GTP121_03		
GTP121_04		
GTP121_05	TTP121_04, TTP121_05	VTP121_08, VTP121_09
GTP121_06		
GTP121_07		
GTP121_08		
GTP121_09	TTP121_06	VTP121_10
GTP121_10	TTP121_07	VTP121_11
GTP121_11	TTP121_08 (note)	VTP121_12 (note)
	(continued)	

Table A.1 (concluded)

Generic TP	Telephony 7 kHz TP	Videotelephony TP
GTP211_01	TTP211_02	VTP211_03, VTP211_07,
GTP211_02	TTP211_04	VTP211_09, VTP211_04
GTP211_03		VTP211_03, VTP211_07
GTP211_04		VTP211_08, VTP211_09, VTP211_04, VTP211_06
GTP211_05		
GTP211_06		
GTP211_07		
GTP211_08		
GTP211_09		
GTP211_10		
GTP211_11	TTP211_06	VTP211_10
GTP211_12		
GTP211_13		VTP211_10, VTP211_11
GTP212_01		
GTP212_02		
GTP221_01		
GTP221_02		
GTP221_03		
GTP233_01		
NOTE:	The initial states specified for these test purposes are different to those in the related generic ones.	

A.2 Telephony 7 kHz to videotelephony teleservices test purposes

Table A.2 lists all the telephony 7 kHz and videotelephony 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 TTP111_02 with VTP111_02).

Table A.2

Telephony 7 kHz	Videotelephony
TTP111_01	VTP111_01
TTP111_02	VTP111_02
TTP111_03	VTP111_03
TTP111_04	VTP111_04
TTP111_05	VTP111_05
	VTP111_06
	VTP111_07
TTP111_06	VTP111_08
TTP111_07	VTP111_09
TTP111_08	VTP111_10
	VTP111_11
TTP111_09	VTP111_12
TTP111_10	VTP111_13
TTP111_11	VTP111_14
TTP111_12	VTP111_15
	VTP111_16
	VTP111_17
TTP111_13	VTP111_18
TTP111_14	VTP111_19
TTP111_15	VTP111_20
	VTP111_21
TTP111_16	VTP111_22
TTP111_17	VTP111_23
TTP111_18	VTP111_24
TTP112_01	VTP112_01
TTP112_02	VTP112_02
TTP112_03	VTP112_03
TTP112_04	VTP112_04
TTP112_05	VTP112_05
TTP112_06	VTP112_06
	VTP113_01
	VTP113_02
TTP113_01	VTP113_03
TTP113_02	VTP113_04
	VTP113_05
	VTP113_06
	VTP113_07
	VTP113_08

(continued)

Table A.2 (concluded)

Telephony 7 kHz	Videotelephony
	VTP121_01
	VTP121_02
TTP121_01	VTP121_03
TTP121_02	VTP121_04
TTP121_03	VTP121_05
	VTP121_06
	VTP121_07
TTP121_04	VTP121_08
TTP121_05	VTP121_09
TTP121_06	VTP121_10
TTP121_07	VTP121_11
TTP121_08	VTP121_12
TTP211_01	VTP211_01
TTP211_02	VTP211_03, VTP211_07
TTP211_03	VTP211_02
TTP211_05	VTP211_04
TTP211_04	VTP211_09, VTP211_05
	VTP211_06
	VTP211_08
TTP211_06	VTP211_10
	VTP211_11
TTP212_01	VTP212_01
TTP212_02	VTP212_02
	VTP213_01
	VTP213_02
TTP213_01	VTP213_03

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