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

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Contents

Foreword 5

Introduction 5

1 Scope 7

2 Normative references 7

3 Definitions and abbreviations 8
3.1 Definitions 8
3.2 Abbreviations 9

4 Test Suite Structure (TSS) 10
4.1 First test group level 10
4.2 Second test group level 10
4.3 Third test group level 10
4.4 Fourth test group level 10
4.5 Fifth test group level 10
4.6 Sixth test group level 11

5 Test Purposes (TP) 12
5.1 Test purpose format 12
5.2 Calling network interface 13
5.2.1 Valid behaviour 13
5.2.1.1 Generic requirements 13
5.2.1.1.1 Fallback allowed 13
5.2.1.1.2 Fallback not allowed 19
5.2.1.1.3 Connection management 21
5.2.1.2 Telephony 7 kHz teleservice 21
5.2.1.2.1 Fallback allowed 21
5.2.1.2.2 Fallback not allowed 26
5.2.1.2.3 Connection management 28
5.2.1.3 Videotelephony teleservice 28
5.2.1.3.1 Fallback allowed 28
5.2.1.3.2 Fallback not allowed 33
5.2.1.3.3 Connection management 35
5.2.2 Invalid behaviour 36
5.2.2.1 Generic requirements 36
5.2.2.1.1 Fallback allowed 36
5.3 Destination interface 36
5.3.1 Valid behaviour 36
5.3.1.1 Generic requirements 36
5.3.1.1.1 Fallback allowed 36
5.3.1.1.1.1 Requirements at the coincident S and T reference point or for interworking with private ISDNs 36
5.3.1.1.1.2 Requirements at the coincident S and T reference point 39
5.3.1.1.1.3 Requirements for interworking with private ISDNs 44
5.3.1.1.2 Fallback not allowed 44
5.3.1.1.3 Connection management 46
5.3.1.2 Telephony 7 kHz teleservice 47
5.3.1.2.1 Fallback allowed 47
5.3.1.2.1.1 Requirements at the coincident S and T reference point or for interworking with private ISDNs 47

5.3.1.2.1.2 Requirements for interworking with private ISDNs 50
5.3.1.2.2 Fallback not allowed 51
5.3.1.2.3 Connection management 52
5.3.1.3 Videotelephony teleservice 52
5.3.1.3.1 Fallback allowed 52
5.3.1.3.1.1 Requirements at the coincident S and T reference point or for interworking with private ISDNs 52
5.3.1.3.1.2 Requirements at the coincident S and T reference point 57
5.3.1.3.1.3 Requirements for interworking with private ISDNs 59
5.3.1.3.2 Fallback not allowed 60
5.3.1.3.3 Connection management 61
5.3.2 Invalid behaviour 62
5.3.2.1 Generic requirements 62
5.3.2.1.1 Fallback allowed 62
5.3.2.1.1.1 Requirements at the coincident S and T reference point or for interworking with private ISDNs 62
5.3.2.1.1.2 Requirements at the coincident S and T reference point 63
5.3.2.1.1.3 Requirements for interworking with private ISDNs 64
5.3.2.2 Telephony 7 kHz teleservice 69
5.3.2.2.1 Fallback allowed 69
5.3.2.3 Videotelephony teleservice 70
5.3.2.3.1 Fallback allowed 70
5.3.3 Inopportune behaviour 76
5.3.3.1 Generic requirements 76
5.3.3.1.1 Fallback allowed 76

6 Compliance 78

Annex A (informative): Cross references: Generic, telephony 7 kHz and videotelephony teleservices test purposes 79

A.1 Generic test purposes to telephony 7 kHz and videotelephony teleservices test purposes 79

A.2 Telephony 7 kHz to videotelephony teleservices test purposes 82

History 84

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 5 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 of this ETS:	20 March 1998
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Date of withdrawal of any conflicting National Standard (dow):	31 January 1999

Introduction

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

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 of ETS 300 102-1 need to be taken into account.

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1 Scope

This fifth 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 [8] by means of the Digital Subscriber Signalling System No. one (DSS1) protocol. ETS 300 267-1 [3] provides the protocol specification and ETS 300 267-2 [4] the Protocol Implementation Conformance Statement (PICS) proforma specification. Stage three identifies the protocol procedures and switching functions needed to support a telecommunications service (see CCITT Recommendation I.130 [7]).

This ETS specifies the Test Suite Structure and Test Purposes (TSS&TP) for the network side. It covers the protocol requirements as defined in ETS 300 267-1 [3] and provides test purposes for the additional generic requirements for basic telecommunication services not defined in ETS 300 102-1 [1] (ETS 300 267-1 [3], clause 5), for the telephony 7 kHz teleservice (ETS 300 267-1 [3], clause 6) and for the videotelephony teleservice (ETS 300 267-1 [3], clause 7).

Two types of implementation are covered:

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

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

2 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 300 102-1: "Integrated Services Digital Network (ISDN); User-network interface layer 3; Specifications for basic call control".

[2] ETS 300 144: "Integrated Services Digital Network (ISDN); Audiovisual services; Frame structure for a 64 kbit/s to 1 920 kbit/s channel and associated syntax for inband signalling" (equivalent to ITU-T Recommendation H.221).

[3] 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".

[4] 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".

[5] I-ETS 300 316: "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, network)".

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

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

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

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

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

3 Definitions and abbreviations

3.1 Definitions

For the purposes of this ETS, the definitions in ETS 300 267-1 [3] 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 [3] at the S/T or T reference point.

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

mode 0F: Transmission mode in which the initial channel contains framing, and 7-bit 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 abbreviations in ETS 300 267-1 [3] and ETS 300 267-2 [4] apply. In addition, 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
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

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:

NT7V Network side telephony 7 kHz, videotelephony teleservices and generic protocol.

4.2 Second test group level

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

ORIG Originating Interface;
DEST Destination 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 [3] (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 [3] (clause 6);

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

The group for generic requirements does not appear in the TSS. 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 covers requirements applicable to fallback allowed, fallback not allowed or connection management. Three groups are defined:

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

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

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

4.6 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 network requirements at the coincident S and T reference point;

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

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

This level group does not appear when only one of them is included as subgroup.

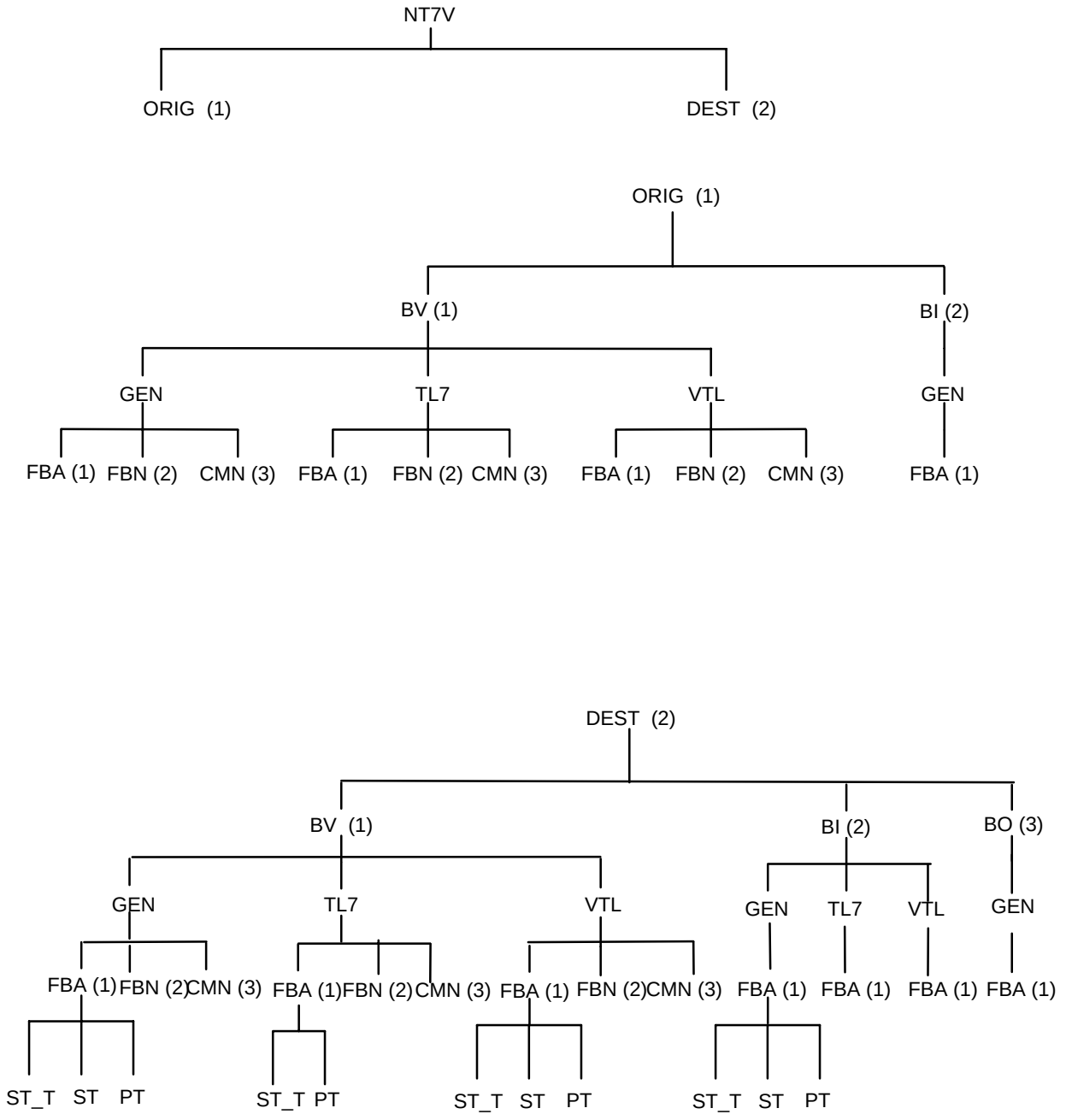

Figure 1: Test suite structure

5 Test Purposes (TP)

5.1 Test purpose format

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

Table 1: TP identifier naming convention scheme

<requirement><nnn>_<nn>		
<requirement>	GTP	generic protocol requirement
	TTP	telephony 7 kHz requirement
	VTP	videotelephony requirement
<nnn>	1st digit	1 Originating Interface; 2 Destination Interface
	2nd digit	1 Valid; 2 Invalid; 3 Inopportune
	3rd digit	1 Fallback Allowed; 2 Fallback Not Allowed; 3 Connection Management
<nn>	2 digits	sequential test case number

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

Table 2: Structure of a single TP

Test purpose identifier	**Reference to ETS 300 267-1 [3]:**	**Other relevant reference:**
TSS reference	The full test suite structure reference.	
Selection criteria	The criteria necessary in order to select the test. Unless otherwise specified, references are to ETS 300 267-2 [4].	
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 [4] (in which case items are not prefixed by a reference number) and from I-ETS 300 316 [5].

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.

5.2 Calling network interface

5.2.1 Valid behaviour

5.2.1.1 Generic requirements

5.2.1.1.1 Fallback allowed

GTP111_01	***Reference to ETS 300 267-1 [3]:*** *5.5.1.1, 5.6.1*	***Other relevant reference:***
TSS reference	*NT7V/ORIG/BV/GEN/FBA*	
Selection criteria	*MC 3.1 OR MC 4.1*	
Test purpose	*Verify that the IUT, in Outgoing Call Proceeding call state N3, having received a SETUP message, containing two BCs, BC1 and BC2, and no LLC, is capable of sending a CONNECT message containing BC2.*	
Cross reference		
Comments	*Sending of CONNECT following receipt of a 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: fallback did not occur either within the IUT or at the destination user.*	

GTP111_02	***Reference to ETS 300 267-1 [3]:*** *5.5.1.1, 5.6.1*	***Other relevant reference:***
TSS reference	*NT7V/ORIG/BV/GEN/FBA*	
Selection criteria	*MC 3.1 OR MC 4.1*	
Test purpose	*Verify that the IUT, in Call Delivered call state N4, having received a SETUP message, containing two BCs, BC1 and BC2, and no LLC, is capable of sending a CONNECT message containing BC2.*	
Cross reference		
Comments	*Sending of CONNECT following receipt of a 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: fallback did not occur either within the IUT or at the destination user.*	

GTP111_03	***Reference to ETS 300 267-1 [3]:*** *5.5.1.1, 5.6.1*	***Other relevant reference:***
TSS reference	*NT7V/ORIG/BV/GEN/FBA*	
Selection criteria	*MC 3.1 OR MC 4.1*	
Test purpose	*Verify that the IUT, in Outgoing Call Proceeding call state N3, having received a SETUP message, containing two BCs, BC1 and BC2, and no LLC, is capable of sending a CONNECT message containing BC1.*	
Cross reference		
Comments	*Sending of CONNECT: fallback occurred, to BC1, at the destination user.*	

GTP111_04	***Reference to ETS 300 267-1 [3]:*** *5.5.1.1, 5.6.1*	***Other relevant reference:***
TSS reference	*NT7V/ORIG/BV/GEN/FBA*	
Selection criteria	*MC 3.1 OR MC 4.1*	
Test purpose	*Verify that the IUT, in Call Delivered call state N4, having received a SETUP message, containing two BCs, BC1 and BC2, and no LLC, is capable of sending a CONNECT message containing BC1.*	
Cross reference		
Comments	*Sending of CONNECT: fallback occurred, to BC1, at the destination user.*	

GTP111_05	***Reference to ETS 300 267-1 [3]:*** *5.5.1.1, 5.6.1*	***Other relevant reference:***
TSS reference	*NT7V/ORIG/BV/GEN/FBA*	
Selection criteria	*MC 3.1 OR MC 4.1*	
Test purpose	*Verify that the IUT, in Idle call state N0, 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 a PI=#5 and BC1.*	
Cross reference		
Comments	*Sending of CALL PROCEEDING, PROGRESS or ALERTING: fallback occurred, to BC1, within the IUT.*	

GTP111_06	***Reference to ETS 300 267-1 [3]:*** *5.5.1.1, 5.6.1*	***Other relevant reference:***
TSS reference	*NT7V/ORIG/BV/GEN/FBA*	
Selection criteria	*MC 3.1 OR MC 4.1*	
Test purpose	*Verify that the IUT, in Outgoing Call Proceeding call state N3, having received a SETUP message, containing two BCs, BC1 and BC2, and no LLC, on sending a PROGRESS message containing a PI=#5,* *does not stop timers as described in ETS 300 102-1 [1].*	
Cross reference		
Comments	*Sending of PROGRESS: fallback occurred, to BC1, within the IUT.*	

GTP111_07	***Reference to ETS 300 267-1 [3]:*** *5.5.3.1, 5.6.3*	***Other relevant reference:***
TSS reference	*NT7V/ORIG/BV/GEN/FBA*	
Selection criteria	*MC 3.3 OR MC 4.3*	
Test purpose	*Verify that the IUT, in Outgoing Call Proceeding call state N3, having received a SETUP message, containing two HLCs, HLC1 and HLC2,* *is capable of sending a CONNECT message containing HLC2.*	
Cross reference		
Comments	*Sending of CONNECT following receipt of a 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: fallback did not occur either within the IUT or at the destination user.*	

GTP111_08	***Reference to ETS 300 267-1 [3]:*** *5.5.3.1, 5.6.3*	***Other relevant reference:***
TSS reference	*NT7V/ORIG/BV/GEN/FBA*	
Selection criteria	*MC 3.3 OR MC 4.3*	
Test purpose	*Verify that the IUT, in Call Delivered call state N4, having received a SETUP message, containing two HLCs, HLC1 and HLC2,* *is capable of sending a CONNECT message containing HLC2.*	
Cross reference		
Comments	*Sending of CONNECT following receipt of a 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: fallback did not occur either within the IUT or at the destination user.*	

GTP111_09	***Reference to ETS 300 267-1 [3]:*** *5.5.3.1, 5.6.3*	***Other relevant reference:***
TSS reference	*NT7V/ORIG/BV/GEN/FBA*	
Selection criteria	*MC 3.3 OR MC 4.3*	
Test purpose	*Verify that the IUT, in Outgoing Call Proceeding call state N3, having received a SETUP message, containing two HLCs, HLC1 and HLC2,* *is capable of sending a CONNECT message containing HLC1.*	
Cross reference		
Comments	*Sending of CONNECT: fallback occurred, to HLC1, at the destination user.*	

GTP111_10	***Reference to ETS 300 267-1 [3]:*** *5.5.3.1, 5.6.3*	***Other relevant reference:***
TSS reference	*NT7V/ORIG/BV/GEN/FBA*	
Selection criteria	*MC 3.3 OR MC 4.3*	
Test purpose	*Verify that the IUT, in Call Delivered call state N4, having received a SETUP message, containing two HLCs, HLC1 and HLC2,* *is capable of sending a CONNECT message containing HLC1.*	
Cross reference		
Comments	*Sending of CONNECT: fallback occurred, to HLC1, at the destination user.*	

GTP111_11	***Reference to ETS 300 267-1 [3]:*** *5.5.3.1, 5.6.3*	***Other relevant reference:***
TSS reference	*NT7V/ORIG/BV/GEN/FBA*	
Selection criteria	*MC 3.3 OR MC 4.3*	
Test purpose	*Verify that the IUT, in Idle call state N0, on receipt of a SETUP message containing two HLCs, HLC1 and HLC2,* *is capable of sending a CALL PROCEEDING, PROGRESS or ALERTING message containing a PI=#5.*	
Cross reference		
Comments	*Sending of CALL PROCEEDING, PROGRESS or ALERTING: fallback occurred, to HLC1, within the IUT.*	

GTP111_12	***Reference to ETS 300 267-1 [3]:*** *5.5.3.1, 5.6.3*	***Other relevant reference:***
TSS reference	*NT7V/ORIG/BV/GEN/FBA*	
Selection criteria	*MC 3.3 OR MC 4.3*	
Test purpose	*Verify that the IUT, in Idle call state N0, on receipt of a SETUP message containing two HLCs, HLC1 and HLC2,* *is capable of sending a CALL PROCEEDING, PROGRESS or ALERTING message containing a PI=#5 and HLC1.*	
Cross reference		
Comments	*Sending of CALL PROCEEDING, PROGRESS or ALERTING: fallback occurred, to HLC1, within the IUT.*	

GTP111_13	***Reference to ETS 300 267-1 [3]:*** *5.5.3.1, 5.6.3*	***Other relevant reference:***
TSS reference	*NT7V/ORIG/BV/GEN/FBA*	
Selection criteria	*MC 3.3 OR MC 4.3*	
Test purpose	*Verify that the IUT, having received a SETUP message, containing two HLCs, HLC1 and HLC2, on sending a PROGRESS message containing a PI=#5,* *does not stop timers as described in ETS 300 102-1 [1].*	
Cross reference		
Comments	*Sending of PROGRESS: fallback occurred, to BC1, within the IUT.*	

GTP111_14	***Reference to ETS 300 267-1 [3]:*** *5.5.5.1, 5.6.5.1*	***Other relevant reference:***
TSS reference	*NT7V/ORIG/BV/GEN/FBA*	
Selection criteria	*(MC 3.1 OR MC 4.1)*	
Test purpose	*Verify that the IUT, in Idle call state N0, on receipt of a SETUP message, containing two BCs, BC1 and BC2, and no LLC,* *performs a subscription check for the defined prime service by use of BC2 and, if the subscription check is successful, accepts the call.*	
Cross reference		
Comments	*Acceptance of call following successful optional subscription check based on BC2.*	

GTP111_15	***Reference to ETS 300 267-1 [3]:*** *5.5.5.1, 5.6.5.1*	***Other relevant reference:***
TSS reference	*NT7V/ORIG/BV/GEN/FBA*	
Selection criteria	*(MC 3.1 OR MC 4.1)*	
Test purpose	*Verify that the IUT, in Idle call state N0, on receipt of a SETUP message, containing two BCs, BC1 and BC2, and no LLC,* *performs a subscription check for the defined prime service by use of BC2 and, if the subscription check is unsuccessful, releases the call with cause #57 "bearer capability not authorized".*	
Cross reference		
Comments	*Release of call following unsuccessful optional subscription check based on BC2.*	

GTP111_16	***Reference to ETS 300 267-1 [3]:*** *5.5.5.1, 5.6.5.1*	***Other relevant reference:***
TSS reference	*NT7V/ORIG/BV/GEN/FBA*	
Selection criteria	*(MC 3.1 AND MC 3.3) OR (MC 4.1 AND MC 4.3)*	
Test purpose	*Verify that the IUT, in Idle call state N0, on receipt of a SETUP message, containing two BCs, BC1 and BC2, and no LLC, and two HLCs, HLC1 and HLC2,* *performs a subscription check for the defined prime service by use of BC2 and HLC2 and, if the subscription check is successful, accepts the call.*	
Cross reference		
Comments	*Acceptance of call following successful optional subscription check based on BC2 and HLC2.*	

GTP111_17	***Reference to ETS 300 267-1 [3]:*** *5.5.5.1, 5.6.5.1*	***Other relevant reference:***
TSS reference	*NT7V/ORIG/BV/GEN/FBA*	
Selection criteria	*(MC 3.1 AND MC 3.3) OR (MC 4.1 AND MC 4.3)*	
Test purpose	*Verify that the IUT, in Idle call state N0, on receipt of a SETUP message, containing two BCs, BC1 and BC2, and no LLC, and two HLCs, HLC1 and HLC2,* *performs a subscription check for the defined prime service by use of BC2 and HLC2 and, if the subscription check is unsuccessful, releases the call with cause #57 "bearer capability not authorized".*	
Cross reference		
Comments	*Release of call following unsuccessful optional subscription check based on BC2 and HLC2.*	

GTP111_18	***Reference to ETS 300 267-1 [3]:*** *5.5.5.1, 5.6.5.1*	***Other relevant reference:***
TSS reference	*NT7V/ORIG/BV/GEN/FBA*	
Selection criteria	*(MC 3.1 AND MC 3.3) OR (MC 4.1 AND MC 4.3)*	
Test purpose	*Verify that the IUT,* *checks the applicability of supplementary services, for the prime service only, at the originating interface.*	
Cross reference		
Comments		

GTP111_19	***Reference to ETS 300 267-1 [3]:*** *5.5.7, 5.6.7*	***Other relevant reference:*** *ETS 300 102-1 [1] 5.3.4.1*
TSS reference	*NT7V/ORIG/BV/GEN/FBA*	
Selection criteria	*SC 5.1*	
Test purpose	*Verify that the IUT, in Overlap Sending call state N2, having received a SETUP message, containing two BCs, BC1 and BC2, with one of them set to UDI/TA, and no LLC,* *is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A-law.*	
Cross reference		
Comments		

GTP111_20	***Reference to ETS 300 267-1 [3]:*** *5.5.7, 5.6.7*	***Other relevant reference:*** *ETS 300 102-1 [1] 5.3.4.1*
TSS reference	*NT7V/ORIG/BV/GEN/FBA*	
Selection criteria	*SC 5.1*	
Test purpose	*Verify that the IUT, in Outgoing Call Proceeding call state N3, having received a SETUP message, containing two BCs, BC1 and BC2, with one of them set to UDI/TA, and no LLC,* *is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A-law.*	
Cross reference		
Comments		

GTP111_21	***Reference to ETS 300 267-1 [3]:*** *5.5.7, 5.6.7*	***Other relevant reference:*** *ETS 300 102-1 [1] 5.1.3*
TSS reference	*NT7V/ORIG/BV/GEN/FBA*	
Selection criteria	*SC 5.1*	
Test purpose	*Verify that the IUT, in Idle call state N0, on receipt of a SETUP message containing two BCs, BC1 and BC2, with one of them set to UDI/TA, and no LLC, but not containing any called number information,* *sends a SETUP ACKNOWLEDGE message, containing a PI=#8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A-law.*	
Cross reference		
Comments		

GTP111_22	***Reference to ETS 300 267-1 [3]:*** *5.5.7, 5.6.7*	***Other relevant reference:*** *ETS 300 102-1 [1] 5.4*
TSS reference	*NT7V/ORIG/BV/GEN/FBA*	
Selection criteria	*SC 5.1*	
Test purpose	*Verify that the IUT, in Idle call state N0, having received a SETUP message, containing two BCs, BC1 and BC2, with one of them set to UDI/TA, no LLC with a sending complete indication,* *is capable of sending a PROGRESS or an ALERTING or a CALL PROCEEDING message, containing a PI=#8, and of simultaneously providing in-band tones announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A-law.*	
Cross reference		
Comments		

GTP111_23	***Reference to ETS 300 267-1 [3]:*** *5.5.7, 5.6.7*	***Other relevant reference:*** *ETS 300 102-1 [1] 5.3.4.1*
TSS reference	*NT7V/ORIG/BV/GEN/FBA*	
Selection criteria	*SC 5.1*	
Test purpose	*Verify that the IUT, in Overlap Sending call state N2, having received a SETUP message, containing two BCs, BC1 and BC2, with one of them set to UDI/TA , no LLC, and two HLCs, HLC1 and HLC2,* *is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A-law.*	
Cross reference		
Comments		

GTP111_24	***Reference to ETS 300 267-1 [3]:*** *5.5.7, 5.6.7*	***Other relevant reference:*** *ETS 300 102-1 [1] 5.3.4.1*
TSS reference	*NT7V/ORIG/BV/GEN/FBA*	
Selection criteria	*SC 5.1*	
Test purpose	*Verify that the IUT, in Outgoing Call Proceeding call state N3, having received a SETUP message, containing two BCs, BC1 and BC2, with one of them set to UDI/TA , no LLC, and two HLCs, HLC1 and HLC2,* *is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A-law.*	
Cross reference		
Comments		

GTP111_25	***Reference to ETS 300 267-1 [3]:*** *5.5.7, 5.6.7*	***Other relevant reference:*** *ETS 300 102-1 [1] 5.1.3*
TSS reference	*NT7V/ORIG/BV/GEN/FBA*	
Selection criteria	*SC 5.1*	
Test purpose	*Verify that the IUT, in Idle call state N0, on receipt of a SETUP message containing two BCs, BC1 and BC2, with one of them set to UDI/TA, no LLC, two HLCs, HLC1 and HLC2, but not containing any called number information,* *sends a SETUP ACKNOWLEDGE message, containing a PI=#8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A-law.*	
Cross reference		
Comments		

GTP111_26	***Reference to ETS 300 267-1 [3]:*** *5.5.7, 5.6.7*	***Other relevant reference:*** *ETS 300 102-1 [1] 5.4*
TSS reference	*NT7V/ORIG/BV/GEN/FBA*	
Selection criteria	*SC 5.1*	
Test purpose	*Verify that the IUT, in Idle call state N0, having received a SETUP message, containing two BCs, BC1 and BC2, with one of them set to UDI/TA, no LLC, two HLCs, HLC1 and HLC2, with a sending complete indication,* *is capable of sending a PROGRESS or an ALERTING or a CALL PROCEEDING message, containing a PI=#8, and of simultaneously providing in-band tones announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A-law.*	
Cross reference		
Comments		

5.2.1.1.2 Fallback not allowed

GTP112_01	***Reference to ETS 300 267-1 [3]:*** *5.5.7, 5.6.7*	***Other relevant reference:*** *ETS 300 102-1 [1] 5.3.4.1*
TSS reference	*NT7V/ORIG/BV/GEN/FBN*	
Selection criteria	*SC 5.1*	
Test purpose	*Verify that the IUT, in Overlap Sending call state N2, having received a SETUP message, containing a single BC=UDI/TA,* *is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A-law.*	
Cross reference		
Comments		

GTP112_02	***Reference to ETS 300 267-1 [3]:*** *5.5.7, 5.6.7*	***Other relevant reference:*** *ETS 300 102-1 [1] 5.3.4.1*
TSS reference	*NT7V/ORIG/BV/GEN/FBN*	
Selection criteria	*SC 5.1*	
Test purpose	*Verify that the IUT, in Outgoing Call Proceeding call state N3, having received a SETUP message, containing a single BC=UDI/TA,* *is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A-law.*	
Cross reference		
Comments		

GTP112_03	***Reference to ETS 300 267-1 [3]:*** *5.5.7, 5.6.7*	***Other relevant reference:*** *ETS 300 102-1 [1] 5.1.3*
TSS reference	*NT7V/ORIG/BV/GEN/FBN*	
Selection criteria	*SC 5.1*	
Test purpose	*Verify that the IUT, in Idle call state N0, on receipt of a SETUP message containing a BC=UDI/TA, but not containing any called number information,* *sends a SETUP ACKNOWLEDGE message, containing a PI=#8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A-law.*	
Cross reference		
Comments		

GTP112_04	***Reference to ETS 300 267-1 [3]:*** *5.5.7, 5.6.7*	***Other relevant reference:*** *ETS 300 102-1 [1] 5.4*
TSS reference	*NT7V/ORIG/BV/GEN/FBN*	
Selection criteria	*SC 5.1*	
Test purpose	*Verify that the IUT, in Idle call state N0, having received a SETUP message, containing a BC=UDI/TA with a sending complete indication,* *is capable of sending a PROGRESS or an ALERTING or a CALL PROCEEDING message, containing a PI=#8, and of simultaneously providing in-band tones announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A-law.*	
Cross reference		
Comments		

GTP112_05	***Reference to ETS 300 267-1 [3]:*** *5.5.7, 5.6.7*	***Other relevant reference:*** *ETS 300 102-1 [1] 5.3.4.1*
TSS reference	*NT7V/ORIG/BV/GEN/FBN*	
Selection criteria	*SC 5.1*	
Test purpose	*Verify that the IUT, in Overlap Sending call state N2, having received a SETUP message, a single BC=UDI/TA and a single HLC,* *is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A-law.*	
Cross reference		
Comments		

GTP112_06	***Reference to ETS 300 267-1 [3]:*** *5.5.7, 5.6.7*	***Other relevant reference:*** *ETS 300 102-1 [1] 5.3.4.1*
TSS reference	*NT7V/ORIG/BV/GEN/FBN*	
Selection criteria	*SC 5.1*	
Test purpose	*Verify that the IUT, in Outgoing Call Proceeding call state N3, having received a SETUP message, containing a single BC=UDI/TA and a single HLC,* *is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A-law.*	
Cross reference		
Comments		

GTP112_07	***Reference to ETS 300 267-1 [3]:*** *5.5.7, 5.6.7*	***Other relevant reference:*** *ETS 300 102-1 [1] 5.1.3*
TSS reference	*NT7V/ORIG/BV/GEN/FBN*	
Selection criteria	*SC 5.1*	
Test purpose	*Verify that the IUT, in Idle call state N0, on receipt of a SETUP message containing a BC=UDI/TA and a single HLC, but not containing any called number information,* *sends a SETUP ACKNOWLEDGE message, containing a PI=#8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A-law.*	
Cross reference		
Comments		

GTP112_08	***Reference to ETS 300 267-1 [3]:*** *5.5.7, 5.6.7*	***Other relevant reference:*** *ETS 300 102-1 [1] 5.4*
TSS reference	*NT7V/ORIG/BV/GEN/FBN*	
Selection criteria	*SC 5.1*	
Test purpose	*Verify that the IUT, in Idle call state N0, having received a SETUP message, containing a BC=UDI/TA, a single HLC with a sending complete indication,* *is capable of sending a PROGRESS or an ALERTING or a CALL PROCEEDING message, containing a PI=#8, and of simultaneously providing in-band tones announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A-law.*	
Cross reference		
Comments		

5.2.1.1.3 Connection management

GTP113_01	***Reference to ETS 300 267-1 [3]:*** *5.5.7, 5.6.7*	***Other relevant reference:*** *ETS 300 102-1 [1] 5.3.4.1*
TSS reference	*NT7V/ORIG/BV/GEN/CMN*	
Selection criteria	*SC 5.1*	
Test purpose	*Verify that the IUT, at the originating interface, in Active call state N10, having received a SETUP message, containing a single BC=UDI/TA,* *is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A-law.*	
Cross reference		
Comments		

GTP113_02	***Reference to ETS 300 267-1 [3]:*** *5.5.7, 5.6.7*	***Other relevant reference:***
TSS reference	*NT7V/ORIG/BV/GEN/CMN*	
Selection criteria	*SC 5.1*	
Test purpose	*Verify that the IUT, at the originating interface, with CR1 and CR2 in Active call state N10, having received a SETUP message, containing a BC=UDI/TA,* *is capable of sending a DISCONNECT message, on CR1, containing a PI=#8 and of providing in-band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A-law.*	
Cross reference		
Comments		

5.2.1.2 Telephony 7 kHz teleservice

5.2.1.2.1 Fallback allowed

TTP111_01	**Reference to ETS 300 267-1 [3]:** 5.5.5.1, 5.6.5.1, 6.5.1 *b)*, 6.6	**Other relevant reference:** ETS 300 102-1 [1] 5.1.5.1
TSS reference	NT7V/ORIG/BV/TL7/FBA	
Selection criteria	(R 1.1 OR R 1.2)	
Test purpose	Verify that the IUT, in Outgoing Call Proceeding call state N3, having received a SETUP message containing two BCs, with the first BC=speech and the second BC=UDI/TA, a HLC=telephony, and not containing a LLC, and on completion of a successful subscription check for the prime service, is capable of sending a CONNECT message and enters the Active call state N10.	
Cross reference	Related GTP: GTP111_14.	
Comments	Receipt of telephony 7 kHz fallback allowed SETUP: optional subscription check for the prime service succeeded.	

TTP111_02	**Reference to ETS 300 267-1 [3]:** 5.5.5.1, 5.6.5.1, 6.5.1 *b)*, 6.6	**Other relevant reference:** ETS 300 102-1 [1] 5.1.5.1, 5.3.2
TSS reference	NT7V/ORIG/BV/TL7/FBA	
Selection criteria	(R 1.1 OR R 1.2)	
Test purpose	Verify that the IUT, in Idle call state N0, on receipt of a telephony 7 kHz fallback allowed SETUP message, and on failure of the subscription check for the prime service, releases the call by sending a RELEASE COMPLETE with cause #57 "bearer capability not authorized" and enters the Null call state N0.	
Cross reference	Related GTP: GTP111_15.	
Comments	Receipt of telephony 7 kHz fallback allowed SETUP: optional subscription check for the prime service failed.	

TTP111_03	**Reference to ETS 300 267-1 [3]:** 5.5.1.1, 6.5.1 c), 6.6	**Other relevant reference:**
TSS reference	NT7V/ORIG/BV/TL7/FBA	
Selection criteria	R 1.1	
Test purpose	Verify that the IUT, in Outgoing Call Proceeding call state N3, having received a telephony 7 kHz fallback allowed SETUP message, is capable of sending a CONNECT message containing a BC=UDI/TA and enters the Active call state N10.	
Cross reference	Related GTP: GTP111_01.	
Comments	Sending of CONNECT (BC=UDI/TA): fallback did not occur either within the IUT or at the destination user.	

TTP111_04	**Reference to ETS 300 267-1 [3]:** 5.5.1.1, 6.5.1 c), 6.6	**Other relevant reference:**
TSS reference	NT7V/ORIG/BV/TL7/FBA	
Selection criteria	R 1.1	
Test purpose	Verify that the IUT, in Call Delivered call state N4, having received a telephony 7 kHz fallback allowed SETUP message, is capable of sending a CONNECT message containing a BC=UDI/TA and enters the Active call state N10.	
Cross reference	Related GTP: GTP111_02.	
Comments	Sending of CONNECT (BC=UDI/TA): fallback did not occur either within the IUT or at the destination user.	

TTP111_05	**Reference to ETS 300 267-1 [3]:** 5.5.1.1, 6.5.1 c), 6.6	**Other relevant reference:**
TSS reference	NT7V/ORIG/BV/TL7/FBA	
Selection criteria	(R 1.1 OR R 1.2)	
Test purpose	Verify that the IUT, in Outgoing Call Proceeding call state N3, having received a telephony 7 kHz fallback allowed SETUP message, is capable of sending a CONNECT message containing a BC=speech and enters the Active call state N10.	
Cross reference	Related GTP: GTP111_03.	
Comments	Sending of CONNECT (BC=speech): fallback, to the telephony 3,1 kHz teleservice occurred beyond the destination interface of the network component under test.	

TTP111_06	**Reference to ETS 300 267-1 [3]:** 5.5.1.1, 6.5.1 c), 6.6	**Other relevant reference:**
TSS reference	NT7V/ORIG/BV/TL7/FBA	
Selection criteria	(R 1.1 OR R 1.2)	
Test purpose	Verify that the IUT, in Call Delivered call state N4, having received a telephony 7 kHz fallback allowed SETUP message, is capable of sending a CONNECT message containing a BC=speech and enters the Active call state N10.	
Cross reference	Related GTP: GTP111_04.	
Comments	Sending of CONNECT (BC=speech): fallback, to the telephony 3,1 kHz teleservice occurred beyond the destination interface of the network component under test.	

TTP111_07	**Reference to ETS 300 267-1 [3]:** 6.5.1 c), 6.6 c)	**Other relevant reference:**
TSS reference	NT7V/ORIG/BV/TL7/FBA	
Selection criteria	(R 1.1 OR R 1.2)	
Test purpose	Verify that the IUT, in Outgoing Call Proceeding call state N3, having received a telephony 7 kHz fallback allowed SETUP message, is capable of sending a CONNECT message not containing a BC and enters the Active call state N10.	
Cross reference		
Comments	Sending of CONNECT (no BC): fallback, to the telephony 3,1 kHz teleservice occurred beyond the destination interface of the network component under test.	

TTP111_08	**Reference to ETS 300 267-1 [3]:** 6.5.1 c), 6.6 c)	**Other relevant reference:**
TSS reference	NT7V/ORIG/BV/TL7/FBA	
Selection criteria	(R 1.1 OR R 1.2)	
Test purpose	Verify that the IUT, in Call Delivered call state N4, having received a telephony 7 kHz fallback allowed SETUP message, is capable of sending a CONNECT message not containing a BC and enters the Active call state N10.	
Cross reference		
Comments	Sending of CONNECT (no BC): fallback, to the telephony 3,1 kHz teleservice occurred beyond the destination interface of the network component under test.	

TTP111_09	**Reference to ETS 300 267-1 [3]:** 5.5.1.1, 6.5.1 d), 6.6	**Other relevant reference:**
TSS reference	NT7V/ORIG/BV/TL7/FBA	
Selection criteria	(R 1.1 OR R1.2)	
Test purpose	Verify that the IUT, in Idle call state N0, on receipt of a telephony 7 kHz fallback allowed SETUP message, is capable of sending a CALL PROCEEDING, PROGRESS or ALERTING message containing a PI=#5 and a BC=speech or does not contain a BC and enters the relevant basic call state.	
Cross reference	Related GTP: GTP111_05.	
Comments	Sending of CALL PROCEEDING, PROGRESS or ALERTING: fallback occurred, to the telephony 3,1 kHz teleservice, within the network component under test.	

TTP111_10	**Reference to ETS 300 267-1 [3]:** 5.5.7, 5.6.7, 6.5.3, 6.6	**Other relevant reference:** ETS 300 102-1 [1] 5.3.4.1, 5.1.4, 5.1.5.2
TSS reference	NT7V/ORIG/BV/TL7/FBA	
Selection criteria	(R 1.1 OR R 1.2)	
Test purpose	Verify that the IUT, in Overlap Sending call state N2, on receipt of a telephony 7 kHz fallback allowed SETUP message, is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP111_19.	
Comments	According to basic call requirements, when a complete called party information is not received before the mandatory timer T302 expires, the IUT shall send a DISCONNECT message with the appropriate cause value	

TTP111_11	**Reference to ETS 300 267-1 [3]:** 5.5.7, 5.6.7, 6.5.3, 6.6	**Other relevant reference:** ETS 300 102-1 [1] 5.2.5.4, 5.3.4.1
TSS reference	NT7V/ORIG/BV/TL7/FBA	
Selection criteria	(R 1.1 OR R 1.2)	
Test purpose	Verify that the IUT, in Outgoing Call Proceeding call state N3, having received a telephony 7 kHz fallback allowed SETUP message, is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP111_20	
Comments	According to basic call requirements, in Outgoing Call Proceeding call state N3, when the SETUP message has been delivered on point to point data link, if the IUT does not receive an ALERTING, CONNECT or DISCONNECT message prior to the expiration of timer T310, then the network shall send a DISCONNECT.	

TTP111_12	**Reference to ETS 300 267-1 [3]:** 5.5.7, 5.6.7, 6.5.4, 6.6	**Other relevant reference:** ETS 300 102-1 [1] 5.1.3
TSS reference	NT7V/ORIG/BV/TL7/FBA	
Selection criteria	(R 1.1 OR R 1.2)	
Test purpose	Verify that the IUT, in Idle call state N0, on receipt of a telephony 7 kHz fallback allowed SETUP message, not containing any called number information, sends a SETUP ACKNOWLEDGE message, containing a PI=#8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A-law and enters the Overlap sending call state N2.	
Cross reference	Related GTP: GTP111_21	
Comments		

TTP111_13	**Reference to ETS 300 267-1 [3]:** 5.5.7, 5.6.7, 6.5.4, 6.6	**Other relevant reference:** ETS 300 102-1 [1] 5.4
TSS reference	NT7V/ORIG/BV/TL7/FBA	
Selection criteria	(R 1.1 OR R 1.2)	
Test purpose	Verify that the IUT, in Idle call state N0, on receipt of a telephony 7 kHz fallback allowed SETUP message with a sending complete indication, is capable of sending a PROGRESS or an ALERTING or a CALL PROCEEDING message, containing a PI=#8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A-law and enters the relevant basic call state.	
Cross reference	Related GTP: GTP111_22	
Comments		

TTP111_14	**Reference to ETS 300 267-1 [3]:** 6.7	**Other relevant reference:** ETS 300 102-1 [1] 5.1.6
TSS reference	NT7V/ORIG/BV/TL7/FBA	
Selection criteria	(R 1.1 OR R 1.2)	
Test purpose	Verify that the IUT, in Idle call state N0, on receipt of a telephony 7 kHz fallback allowed SETUP message without a sending complete indication, is capable of sending a SETUP ACKNOWLEDGE, a CALL PROCEEDING, an ALERTING, a PROGRESS or a CONNECT message containing a Progress indicator information element with a progress description #1 "call is not end-to-end ISDN, further call progress information may be available in-band" and enters the relevant basic call state.	
Cross reference		
Comments	This test purpose covers interworking with the PSTN where fallback is allowed by the calling user.	

TTP111_15	**Reference to ETS 300 267-1 [3]:** 6.7	**Other relevant reference:** ETS 300 102-1 [1] 5.1.6
TSS reference	NT7V/ORIG/BV/TL7/FBA	
Selection criteria	(R 1.1 OR R 1.2)	
Test purpose	Verify that the IUT, in Idle call state N0, on receipt of a telephony 7 kHz fallback allowed SETUP message with a sending complete indication, is capable of sending a CALL PROCEEDING, an ALERTING, a PROGRESS or a CONNECT message containing a Progress indicator information element with a progress description #1 "call is not end-to-end ISDN, further call progress information may be available in-band" and enters the relevant basic call state.	
Cross reference		
Comments	This test purpose covers interworking with the PSTN where fallback is allowed by the calling user.	

5.2.1.2.2 Fallback not allowed

TTP112_01	**Reference to ETS 300 267-1 [3]:** 5.5.7, 5.6.7, 6.5.3, 6.6	**Other relevant reference:** ETS 300 102-1 [1] 5.3.4.1, 5.1.4, 5.1.5.2
TSS reference	NT7V/ORIG/BV/TL7/FBN	
Selection criteria	R 1.1	
Test purpose	Verify that the IUT, in Overlap Sending call state N2, having received a SETUP message containing a single BC=UDI/TA and a HLC=telephony, and not containing a LLC, is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP112_02	
Comments	According to basic call requirements, when a complete called party information is not received before the mandatory timer T302 expires, the IUT shall send a DISCONNECT message with the appropriate cause value	

TTP112_02	**Reference to ETS 300 267-1 [3]:** 5.5.7, 5.6.7, 6.5.3, 6.6	**Other relevant reference:** ETS 300 102-1 [1] 5.2.5.4, 5.3.4.1
TSS reference	NT7V/ORIG/BV/TL7/FBN	
Selection criteria	R 1.1	
Test purpose	Verify that the IUT, in Outgoing Call Proceeding call state N3, having received a telephony 7 kHz fallback not allowed SETUP message, is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP112_03.	
Comments	According to basic call requirements, in Outgoing Call Proceeding call state N3, when the SETUP message has been delivered on point to point data link, if the IUT does not receive an ALERTING, CONNECT or DISCONNECT message prior to the expiration of timer T310, then the network shall send a DISCONNECT.	

TTP112_03	**Reference to ETS 300 267-1 [3]:** 5.5.7, 5.6.7, 6.5.4, 6.6	**Other relevant reference:** ETS 300 102-1 [1] 5.1.3
TSS reference	NT7V/ORIG/BV/TL7/FBN	
Selection criteria	R 1.1	
Test purpose	Verify that the IUT, in Idle call state N0, on receipt a telephony 7 kHz fallback not allowed SETUP message, not containing any called number information, sends a SETUP ACKNOWLEDGE message, containing a PI=#8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A-law and enters the Overlap sending call state N2.	
Cross reference	Related GTP: GTP112_04.	
Comments		

TTP112_04	**Reference to ETS 300 267-1 [3]:** 5.5.7, 5.6.7, 6.5.4, 6.6	**Other relevant reference:** ETS 300 102-1 [1] 5.4
TSS reference	NT7V/ORIG/BV/TL7/FBN	
Selection criteria	R 1.1	
Test purpose	Verify that the IUT, in Idle call state N0, on receipt a telephony 7 kHz fallback not allowed SETUP message, containing a sending complete indication, is capable of sending a PROGRESS or an ALERTING or a CALL PROCEEDING message, containing a PI=#8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A-law and enters the relevant basic call state.	
Cross reference	Related GTP: GTP112_05.	
Comments		

TTP112_05	**Reference to ETS 300 267-1 [3]:** 6.7	**Other relevant reference:** ETS 300 102-1 [1] 5.1.1, 5.1.5.1
TSS reference	NT7V/ORIG/BV/TL7/FBN	
Selection criteria	R 1.1	
Test purpose	Verify that the IUT , in Idle call state N0, on receipt of a telephony 7 kHz fallback not allowed SETUP message with a sending complete indication, is capable of initiating call clearing by sending a RELEASE COMPLETE message containing a Cause information element, with its cause value set to #65 "bearer capability not implemented" and enters the Null call state N0.	
Cross reference		
Comments	This test purpose covers attempted interworking with the PSTN, where fallback is not allowed by the calling user.	

TTP112_06	**Reference to ETS 300 267-1 [3]:** 6.7	**Other relevant reference:** ETS 300 102-1 [1] 5.1.5.2, 5.3.3
TSS reference	NT7V/ORIG/BV/TL7/FBN	
Selection criteria	R 1.1	
Test purpose	Verify that the IUT, in Overlap Sending call state N2, having received a telephony 7 kHz fallback not allowed SETUP message, is capable of initiating call clearing by sending a DISCONNECT message containing a Cause information element, with its cause value set to #65 "bearer capability not implemented" and enters the Disconnect indication call state N12.	
Cross reference		
Comments	This test purpose covers attempted interworking with the PSTN, where fallback is not allowed by the calling user.	

5.2.1.2.3 Connection management

TTP113_01	**Reference to ETS 300 267-1 [3]:** 5.5.7, 5.6.7, 6.5.3, 6.6	**Other relevant reference:** ETS 300 102-1 [1] 5.3.4
TSS reference	NT7V/ORIG/BV/TL7/CMN	
Selection criteria	R 1.1	
Test purpose	Verify that the IUT, at the originating interface, in Active call state N10, with a call of the telephony 7 kHz teleservice in progress in a 7 kHz mode, is capable of sending a DISCONNECT message, containing a PI=#8, and of presenting a tone or announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP113_01.	
Comments	According to basic call requirements, in Active call state N10, on receipt of a DISCONNECT message from the called user, the IUT shall send a DISCONNECT message to the calling user.	

5.2.1.3 Videotelephony teleservice

5.2.1.3.1 Fallback allowed

VTP111_01	**Reference to ETS 300 267-1 [3]:** 5.5.5.1, 5.6.5.1, 7.6, 7.5.1 b)	**Other relevant reference:** ETS 300 102-1 [1] 5.1.5.1
TSS reference	NT7V/ORIG/BV/VTL/FBA	
Selection criteria	R 1.2	
Test purpose	Verify that the IUT, in Outgoing Call Proceeding call state N3, having received a SETUP message containing two BCs, with the first BC=speech and the second BC=UDI/TA, and two HLCs, with the first HLC=telephony and the second HLC=videotelephony_ic, and not containing a LLC, and on completion of a successful subscription check for the prime service, is capable of sending a CONNECT message and enters the Active call state N10.	
Cross reference	Related GTP: GTP111_16.	
Comments	Receipt of videotelephony fallback allowed SETUP: optional subscription check for prime service succeeded.	

VTP111_02	**Reference to ETS 300 267-1 [3]:** 5.5.5.1, 5.6.5.1, 7.5.1 b), 7.6	**Other relevant reference:** ETS 300 102-1 [1] 5.1.5.1, 5.3.2
TSS reference	NT7V/ORIG/BV/VTL/FBA	
Selection criteria	R 1.2	
Test purpose	Verify that the IUT, in Idle call state N0, on receipt of a videotelephony fallback allowed SETUP message, and on failure of the subscription check for the prime service, releases the call by sending a RELEASE COMPLETE with cause #57 "bearer capability not authorized" and enters the Null call state N0.	
Cross reference	Related GTP: GTP111_17.	
Comments	Receipt of videotelephony fallback allowed SETUP: optional subscription check for prime service failed.	

VTP111_03	**Reference to ETS 300 267-1 [3]:** 5.5.1.1, 5.5.3.1, 7.5.1 c), 7.6	**Other relevant reference:**
TSS reference	NT7V/ORIG/BV/VTL/FBA	
Selection criteria	R 1.2	
Test purpose	Verify that the IUT, in Outgoing Call Proceeding call state N3, having received a videotelephony fallback allowed SETUP message, is capable of sending a CONNECT message containing a BC=UDI/TA and a HLC=videotelephony_ic and enters the Active call state N10.	
Cross reference	Related GTP: GTP111_01, GTP111_07.	
Comments	Sending of CONNECT (BC=UDI/TA, HLC=videotelephony_ic): fallback did not occur either within the IUT or at the destination user.	

VTP111_04	**Reference to ETS 300 267-1 [3]:** 5.5.1.1, 5.5.3.1, 7.5.1 c), 7.6	**Other relevant reference:**
TSS reference	NT7V/ORIG/BV/VTL/FBA	
Selection criteria	R 1.2	
Test purpose	Verify that the IUT, in Call Delivered call state N4, having received a videotelephony fallback allowed SETUP message, is capable of sending a CONNECT message containing a BC=UDI/TA and a HLC=videotelephony_ic and enters the Active call state N10.	
Cross reference	Related GTP: GTP111_02, GTP111_08.	
Comments	Sending of CONNECT (BC=UDI/TA, HLC=videotelephony_ic): fallback did not occur either within the IUT or at the destination user.	

VTP111_05	**Reference to ETS 300 267-1 [3]:** 5.5.1.1, 5.5.3.1, 6.5.2 **c)**, 7.5.1 c), 7.6	**Other relevant reference:**
TSS reference	NT7V/ORIG/BV/VTL/FBA	
Selection criteria	R 1.2	
Test purpose	Verify that the IUT, in Outgoing Call Proceeding call state N3, having received a videotelephony fallback allowed SETUP message, is capable of sending a CONNECT message containing a BC=UDI/TA and a HLC=telephony and enters the Active call state N10.	
Cross reference	Related GTP: GTP111_01, GTP111_09.	
Comments	Sending of CONNECT (BC=UDI/TA, HLC=telephony): fallback, to the telephony 7 kHz teleservice occurred beyond the destination interface of the network component under test.	

VTP111_06	**Reference to ETS 300 267-1 [3]:** 5.5.1.1, 5.5.3.1, 6.5.2 c), 7.5.1 c), 7.6	**Other relevant reference:**
TSS reference	NT7V/ORIG/BV/VTL/FBA	
Selection criteria	R 1.2	
Test purpose	Verify that the IUT, in Call Delivered call state N4, having received a videotelephony fallback allowed SETUP message, is capable of sending a CONNECT message containing a BC=UDI/TA and a HLC=telephony and enters the Active call state N10.	
Cross reference	Related GTP: GTP111_02, GTP111_10.	
Comments	Sending of CONNECT (BC=UDI/TA, HLC=telephony): fallback, to the telephony 7 kHz teleservice occurred beyond the destination interface of the network component under test.	

VTP111_07	**Reference to ETS 300 267-1 [3]:** 5.5.1.1, 5.5.3.1, 7.5.1 c), 7.6	**Other relevant reference:**
TSS reference	NT7V/ORIG/BV/VTL/FBA	
Selection criteria	R 1.2	
Test purpose	Verify that the IUT, in Outgoing Call Proceeding call state N3, having received a videotelephony fallback allowed SETUP message, is capable of sending a CONNECT message containing a BC=speech and a HLC=telephony and enters the Active call state N10.	
Cross reference	Related GTP: GTP111_03, GTP111_09.	
Comments	Sending of CONNECT (BC=speech, HLC=telephony): fallback, to the telephony 3,1 kHz teleservice occurred beyond the destination interface of the network component under test.	

VTP111_08	**Reference to ETS 300 267-1 [3]:** 5.5.1.1, 5.5.3.1, 7.5.1 c), 7.6	**Other relevant reference:**
TSS reference	NT7V/ORIG/BV/VTL/FBA	
Selection criteria	R 1.2	
Test purpose	Verify that the IUT, in Call Delivered call state N4, having received a videotelephony fallback allowed SETUP message, is capable of sending a CONNECT message containing a BC=speech and a HLC=telephony and enters the Active call state N10.	
Cross reference	Related GTP: GTP111_04, GTP111_10.	
Comments	Sending of CONNECT (BC=speech, HLC=telephony): fallback, to the telephony 3,1 kHz teleservice occurred beyond the destination interface of the network component under test.	

VTP111_09	**Reference to ETS 300 267-1 [3]:** 5.5.1.1, 5.5.3.1, 7.5.1 c), 7.6	**Other relevant reference:**
TSS reference	NT7V/ORIG/BV/VTL/FBA	
Selection criteria	R 1.2	
Test purpose	Verify that the IUT, in Call Delivered call state N4, having received a videotelephony fallback allowed SETUP message, is capable of sending a CONNECT message containing a BC=speech and no HLC and enters the Active call state N10.	
Cross reference	Related GTP: GTP111_04	
Comments	Sending of CONNECT (BC=speech, no HLC): fallback, to the telephony 3,1 kHz teleservice occurred beyond the destination interface of the network component under test.	

VTP111_10	**Reference to ETS 300 267-1 [3]:** 5.5.1.1, 5.5.3.1, 7.5.1 c), 7.6	**Other relevant reference:**
TSS reference	NT7V/ORIG/BV/VTL/FBA	
Selection criteria	R 1.2	
Test purpose	Verify that the IUT, in Call Delivered call state N4, having received a videotelephony fallback allowed SETUP message, is capable of sending a CONNECT message containing no BC or HLC and enters the Active call state N10.	
Cross reference		
Comments	Sending of CONNECT (no BC or HLC): fallback, to the telephony 3,1 kHz teleservice occurred beyond the destination interface of the network component under test.	

VTP111_11	**Reference to ETS 300 267-1 [3]:** 5.5.1.1, 5.5.3.1, 7.5.1 d), 7.6	**Other relevant reference:**
TSS reference	NT7V/ORIG/BV/VTL/FBA	
Selection criteria	R 1.2	
Test purpose	Verify that the IUT, in Idle call state N0, on receipt of a videotelephony fallback allowed SETUP message, is capable of sending a CALL PROCEEDING, PROGRESS or ALERTING message containing a PI=#5, and a BC=speech, and a HLC=videotelephony_ic or a HLC=videotelephony_nex or a HLC=telephony or no HLC OR no BC and no HLC information elements and enters the relevant basic call state.	
Cross reference	Related GTP: GTP111_05, GTP111_11, GTP111_12	
Comments	Sending of CALL PROCEEDING, PROGRESS or ALERTING: fallback occurred, to the telephony 3,1 kHz teleservice, within the network component under test.	

VTP111_12	**Reference to ETS 300 267-1 [3]:** 5.5.1.1, 5.5.3.1, 7.5.1 d), 7.6	**Other relevant reference:**
TSS reference	NT7V/ORIG/BV/VTL/FBA	
Selection criteria	R 1.2 AND R 1.1	
Test purpose	Verify that the IUT, in Idle call state N0, on receipt of a videotelephony fallback allowed SETUP message, is capable of sending a CALL PROCEEDING, PROGRESS or ALERTING message containing a PI=#5, and a BC=UDI/TA, and a HLC=telephony information elements and enters the relevant basic call state.	
Cross reference	Related GTP: GTP111_11, GTP111_12.	
Comments	Sending of CALL PROCEEDING, PROGRESS or ALERTING: fallback occurred, to the telephony 7 kHz teleservice, within the network component under test.	

VTP111_13	**Reference to ETS 300 267-1 [3]:** 5.5.7, 5.6.7, 7.5.3, 7.6	**Other relevant reference:** ETS 300 102-1 [1] 5.3.4.1, 5.1.4, 5.1.5.2
TSS reference	NT7V/ORIG/BV/VTL/FBA	
Selection criteria	R 1.2	
Test purpose	Verify that the IUT, in Overlap Sending call state N2, on receipt of a videotelephony fallback allowed SETUP message, is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP111_23.	
Comments	According to basic call requirements, when a complete called party information is not received before the mandatory timer T302 expires, the IUT shall send a DISCONNECT message with the appropriate cause value	

VTP111_14	**Reference to ETS 300 267-1 [3]:** 5.5.7, 5.6.7, 7.5.3, 7.6	**Other relevant reference:** ETS 300 102-1 [1] 5.2.5.4, 5.3.4.1
TSS reference	NT7V/ORIG/BV/VTL/FBA	
Selection criteria	R 1.2	
Test purpose	Verify that the IUT, in Outgoing Call Proceeding call state N3, having received a videotelephony fallback allowed SETUP message, is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP111_24.	
Comments	According to basic call requirements, in Outgoing Call Proceeding call state N3, when the SETUP message has been delivered on point to point data link, if the IUT does not receive an ALERTING, CONNECT or DISCONNECT message prior to the expiration of timer T310, then the network shall send a DISCONNECT.	

VTP111_15	**Reference to ETS 300 267-1 [3]:** 5.5.7, 5.6.7, 7.5.4, 7.6	**Other relevant reference:** ETS 300 102-1 [1] 5.1.3
TSS reference	NT7V/ORIG/BV/VTL/FBA	
Selection criteria	R 1.2	
Test purpose	Verify that the IUT, in Idle call state N0, on receipt of a videotelephony fallback allowed SETUP message not containing any called number information, sends a SETUP ACKNOWLEDGE message, containing a PI=#8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A-law and enters the Overlap sending call state N2.	
Cross reference	Related GTP: GTP111_25.	
Comments		

VTP111_16	**Reference to ETS 300 267-1 [3]:** 5.5.7, 5.6.7, 7.5.4, 7.6	**Other relevant reference:** ETS 300 102-1 [1] 5.4
TSS reference	NT7V/ORIG/BV/VTL/FBA	
Selection criteria	R 1.2	
Test purpose	Verify that the IUT, in Idle call state N0, on receipt of a SETUP message, of a videotelephony fallback allowed SETUP message with a sending complete indication, is capable of sending a PROGRESS or an ALERTING or a CALL PROCEEDING message, containing a PI=#8, and of simultaneously providing in-band tones announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A-law and enters the relevant basic call state.	
Cross reference	Related GTP: GTP111_26.	
Comments		

VTP111_17	**Reference to ETS 300 267-1 [3]:** 7.7	**Other relevant reference:** ETS 300 102-1 [1] 5.1.6
TSS reference	NT7V/ORIG/BV/VTL/FBA	
Selection criteria	R 1.2	
Test purpose	Verify that the IUT, in Idle call state N0, on receipt of a videotelephony fallback allowed SETUP message without a sending complete indication, is capable of sending a SETUP ACKNOWLEDGE, a CALL PROCEEDING, an ALERTING, a PROGRESS or a CONNECT message containing a Progress indicator information element with a progress description #1 "call is not end-to-end ISDN, further call progress information may be available in-band" and enters the relevant basic call state.	
Cross reference		
Comments	This test purpose covers interworking with the PSTN where fallback is allowed by the calling user.	

VTP111_18	**Reference to ETS 300 267-1 [3]:** 7.7	**Other relevant reference:** ETS 300 102-1 [1] 5.1.6
TSS reference	NT7V/ORIG/BV/VTL/FBA	
Selection criteria	R 1.2	
Test purpose	Verify that the IUT, in Idle call state N0, on receipt of a videotelephony fallback allowed SETUP message with a sending complete indication, is capable of sending a CALL PROCEEDING, an ALERTING, a PROGRESS or a CONNECT message containing a Progress indicator information element with a progress description #1 "call is not end-to-end ISDN, further call progress information may be available in-band" and enters the relevant basic call state.	
Cross reference		
Comments	This test purpose covers interworking with the PSTN where fallback is allowed by the calling user.	

5.2.1.3.2 Fallback not allowed

VTP112_01	**Reference to ETS 300 267-1 [3]:** 5.5.7, 5.6.7, 7.5.3, 7.6	**Other relevant reference:** ETS 300 102-1 [1] 5.3.4.1, 5.1.4, 5.1.5.2
TSS reference	NT7V/ORIG/BV/VTL/FBN	
Selection criteria	R 1.2	
Test purpose	Verify that the IUT, in Overlap Sending call state N2, having received a SETUP message containing a single BC=UDI/TA and a single HLC=videotelephony_ic, and not containing a LLC, is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP112_06.	
Comments	According to basic call requirements, when a complete called party information is not received before the mandatory timer T302 expires, the IUT shall send a DISCONNECT message with the appropriate cause value	

VTP112_02	**Reference to ETS 300 267-1 [3]:** 5.5.7, 5.6.7, 7.5.3, 7.6	**Other relevant reference:** ETS 300 102-1 [1] 5.2.5.4, 5.3.4.1
TSS reference	NT7V/ORIG/BV/VTL/FBN	
Selection criteria	R 1.2	
Test purpose	Verify that the IUT, in Outgoing Call Proceeding call state N3, having received a videotelephony fallback not allowed SETUP message, is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP112_07.	
Comments	According to basic call requirements, in Outgoing Call Proceeding call state N3, when the SETUP message has been delivered on point to point data link, if the IUT does not receive an ALERTING, CONNECT or DISCONNECT message prior to the expiration of timer T310, then the network shall send a DISCONNECT.	

VTP112_03	**Reference to ETS 300 267-1 [3]:** 5.5.7, 5.6.7, 7.5.4, 7.6	**Other relevant reference:** ETS 300 102-1 [1] 5.1.3
TSS reference	NT7V/ORIG/BV/GEN/FBN	
Selection criteria	R 1.2	
Test purpose	Verify that the IUT, in Idle call state N0, on receipt a videotelephony fallback not allowed SETUP message not containing any called number information, sends a SETUP ACKNOWLEDGE message, containing a PI=#8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A-law and enters the Overlap sending call state N2.	
Cross reference	Related GTP: GTP112_08.	
Comments		

VTP112_04	**Reference to ETS 300 267-1 [3]:** 5.5.7, 5.6.7, 7.5.4, 7.6	**Other relevant reference:** ETS 300 102-1 [1] 5.4
TSS reference	NT7V/ORIG/BV/VTL/FBN	
Selection criteria	R 1.2	
Test purpose	Verify that the IUT, in Idle call state N0, having a videotelephony fallback not allowed SETUP message with a sending complete indication, is capable of sending a PROGRESS or an ALERTING or a CALL PROCEEDING message, containing a PI=#8, and of simultaneously providing in-band tones announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A-law and enters the relevant basic call state.	
Cross reference	Related GTP: GTP112_09.	
Comments		

VTP112_05	**Reference to ETS 300 267-1 [3]:** 7.7	**Other relevant reference:** ETS 300 102-1 [1] 5.1.1, 5.1.5.1
TSS reference	NT7V/ORIG/BV/VTL/FBN	
Selection criteria	R 1.2	
Test purpose	Verify that the IUT, in Idle call state N0, on receipt of a videotelephony fallback not allowed SETUP message with a sending complete indication, is capable of initiating call clearing by sending a RELEASE COMPLETE message containing a Cause information element, with its cause value set to #65 "bearer capability not implemented" and enters the Null call state N0.	
Cross reference		
Comments	This test purpose covers attempted interworking with the PSTN, where fallback is not allowed by the calling user.	

VTP112_06	**Reference to ETS 300 267-1 [3]:** 7.7	**Other relevant reference:** ETS 300 102-1 [1] 5.1.5.2, 5.3.3
TSS reference	NT7V/ORIG/BV/VTL/FBN	
Selection criteria	R 1.2	
Test purpose	Verify that the IUT, in Overlap Sending call state N2, having received a videotelephony fallback not allowed SETUP message, is capable of initiating call clearing by sending a DISCONNECT message containing a Cause information element, with its cause value set to #65 "bearer capability not implemented" and enters the Disconnect indication call state N12.	
Cross reference		
Comments	This test purpose covers attempted interworking with the PSTN, where fallback is not allowed by the calling user.	

5.2.1.3.3 Connection management

VTP113_01	**Reference to ETS 300 267-1 [3]:** 5.5.7, 5.6.7, 7.5.3, 7.6	**Other relevant reference:** ETS 300 102-1 [1] 5.3.4
TSS reference	NT7V/ORIG/BV/VTL/CMN	
Selection criteria	R 1.2	
Test purpose	Verify that the IUT, at the originating interface, in Active call state N10, with a call of the videotelephony teleservice in progress in a 1B-channel mode, is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP113_01.	
Comments	According to basic call requirements, in Active call state N10, on receipt of a DISCONNECT message from the called user, the IUT shall send a DISCONNECT message to the calling user.	

VTP113_02	**Reference to ETS 300 267-1 [3]:** 5.5.7, 5.6.7, 7.5.3, 7.6	**Other relevant reference:** ETS 300 102-1 [1] 5.3.4
TSS reference	NT7V/ORIG/BV/VTL/CMN	
Selection criteria	R 1.2	
Test purpose	Verify that the IUT, at the originating interface, with CR1 and CR2 in Active call state N10, with a call of the videotelephony teleservice in progress in a 2B-channel mode, is capable of sending a DISCONNECT message, on CR1, containing a PI=#8, and of presenting a tone or announcement in a 3,1 kHz mode on CR1, encoded according to CCITT Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP113_02.	
Comments	According to basic call requirements, in Active call state N10, on receipt of a DISCONNECT message from the called user, the IUT shall send a DISCONNECT message to the calling user.	

5.2.2 Invalid behaviour

5.2.2.1 Generic requirements

5.2.2.1.1 Fallback allowed

GTP121_01	***Reference to ETS 300 267-1 [3]:*** *5.5.1.2 c), 5.6.1*	***Other relevant reference:***
TSS reference	*NT7V/ORIG/BI/GEN/FBA*	
Selection criteria	*MC 3.1 OR MC 4.1*	
Test purpose	*Verify that the IUT, in Idle call state N0, on receipt of a SETUP message, containing two BCs, BC1 and BC2, and a single LLC,* *continues normal call handling, i.e. transports the LLC transparently across the network.*	
Cross reference		
Comments	*Receipt of a syntactically invalid SETUP containing BC1, BC2 and a single LLC.*	

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

GTP211_01	***Reference to ETS 300 267-1 [3]:*** *5.5.2.1, 5.6.2.1*	***Other relevant reference:***
TSS reference	*NT7V/DEST/BV/GEN/FBA/ST_T*	
Selection criteria	*MC 3.2 OR MC 4.2*	
Test purpose	*Verify that the IUT, in Idle call state N0,* *is capable of sending a SETUP message containing two BCs, BC1 and BC2, and no 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 calling user and the IUT allowed fallback.*	

GTP211_02	***Reference to ETS 300 267-1 [3]:*** *5.5.4.1, 5.6.4.1*	***Other relevant reference:***
TSS reference	*NT7V/DEST/BV/GEN/FBA/ST_T*	
Selection criteria	*MC 3.4 OR MC 4.4*	
Test purpose	*Verify that the IUT, in Idle call state N0,* *is capable of sending a SETUP message containing two HLCs, HLC1 and HLC2.*	
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. The calling user and the IUT allowed fallback.*	

GTP211_03	***Reference to ETS 300 267-1 [3]:*** *5.5.5.1, 5.6.5.1*	***Other relevant reference:***
TSS reference	*NT7V/DEST/BV/GEN/FBA/ST_T*	
Selection criteria	*(MC 3.2 OR MC 4.2)*	
Test purpose	*Verify that the IUT, in Idle call state N0, on completion of a successful subscription check for BC1 or BC2, defined for a particular telecommunications service,* *is capable of sending a SETUP message containing two BCs, BC1 and BC2, and no LLC,*	
Cross reference		
Comments	*Sending of SETUP following completion of a successful optional subscription check based on BC1 and BC2.*	

GTP211_04	***Reference to ETS 300 267-1 [3]:*** *5.5.5.1, 5.6.5.1*	***Other relevant reference:***
TSS reference	*NT7V/DEST/BV/GEN/FBA/ST_T*	
Selection criteria	*(MC 3.2 OR MC 4.2)*	
Test purpose	*Verify that the IUT, in Idle call state N0, on failure of subscription checks for BC1 and BC2, defined for a particular telecommunications service,* *releases the call with cause #57 "bearer capability not authorized".*	
Cross reference		
Comments	*Release of call following unsuccessful optional subscription check based on BC1 and BC2.*	

GTP211_05	***Reference to ETS 300 267-1 [3]:*** *5.5.5.1, 5.6.5.1*	***Other relevant reference:***
TSS reference	*NT7V/DEST/BV/GEN/FBA/ST_T*	
Selection criteria	*(MC 3.2 AND MC 3.4) OR (MC 4.2 AND MC 4.4)*	
Test purpose	*Verify that the IUT, in Idle call state N0, on completion of a successful subscription check for at least one of the valid combinations of BC1 or BC2 and HLC1 or HLC2, defined for a particular telecommunications service,* *is capable of sending a SETUP message containing two BCs, BC1 and BC2, and no LLC, and two HLCs, HLC1 and HLC2.*	
Cross reference		
Comments	*Sending of SETUP following completion of at least one successful optional subscription check based on BC1 or BC2 and HLC1 or HLC2.*	

GTP211_06	***Reference to ETS 300 267-1 [3]:*** *5.5.5.1, 5.6.5.1*	***Other relevant reference:***
TSS reference	*NT7V/DEST/BV/GEN/FBA/ST_T*	
Selection criteria	*(MC 3.2 AND MC 3.4) OR (MC 4.2 AND MC 4.4)*	
Test purpose	*Verify that the IUT, in Idle call state N0, on failure of all subscription checks for all valid combinations of BC1 or BC2 and HLC1 or HLC2, defined for a particular telecommunications service,* *releases the call with cause #57 "bearer capability not authorized".*	
Cross reference		
Comments	*Release of call following unsuccessful optional subscription check based on BC1 or BC2 and HLC1 or HLC2.*	

GTP211_07	***Reference to ETS 300 267-1 [3]:*** *5.5.5.1, 5.6.5.1*	***Other relevant reference:***
TSS reference	*NT7V/DEST/BV/GEN/FBA/ST_T*	
Selection criteria	*(MC 3.2 AND MC 3.4) OR (MC 4.2 AND MC 4.4)*	
Test purpose	*Verify that the IUT,* *checks the applicability of supplementary services, for the prime service only, at the destination interface.*	
Cross reference		
Comments	***Temp. note:*** *It is to be determined whether or not this test purpose is within the scope of the relevant supplementary services standards and outside the scope of ETS 300 267-1 [3].*	

GTP211_08	***Reference to ETS 300 267-1 [3]:*** *5.5.7, 5.6.7*	***Other relevant reference:*** *ETS 300 102-1 [1] 5.3.4.1, 5.3.2 e)*
TSS reference	*NT7V/DEST/BV/GEN/FBA/ST_T*	
Selection criteria	*SC 5.1 AND MC 2.2 [5] AND MC 2.4 [5]*	
Test purpose	*Verify that the IUT, in Overlap Receiving call state N25, having sent a SETUP message, delivered on a point to point data link, containing two BCs, BC1 and BC2, with one of them set to UDI/TA, and no LLC,* *is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A-law.*	
Cross reference		
Comments	*According to basic call requirements, when the SETUP message has been sent via the broadcast data link, to indicate a network disconnect indication, IUT shall send a RELEASE message*	

GTP211_09	***Reference to ETS 300 267-1 [3]:*** *5.5.7, 5.6.7*	***Other relevant reference:*** *ETS 300 102-1 [1] 5.3.4.1,* 5.3.2 e)
TSS reference	*NT7V/DEST/BV/GEN/FBA/ST_T*	
Selection criteria	*SC 5.1 AND MC 2.4 [5]*	
Test purpose	*Verify that the IUT, in the Incoming Call Proceeding call state N9, having received a SETUP message, delivered on a point to point data link, containing two BCs, BC1 and BC2, with one of them set to UDI/TA, and no LLC,* *is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A-law.*	
Cross reference		
Comments	*According to basic call requirements, when the SETUP message has been sent via the broadcast data link, to indicate a network disconnect indication, IUT shall send a RELEASE message*	

GTP211_10	***Reference to ETS 300 267-1 [3]:*** *5.5.7, 5.6.7*	***Other relevant reference:*** *ETS 300 102-1 [1] 5.3.4.1*
TSS reference	*NT7V/DEST/BV/GEN/FBA/ST_T*	
Selection criteria	*SC 5.1 AND MC 2.2 [5] AND MC 2.4 [5]*	
Test purpose	*Verify that the IUT, in Overlap Receiving call state N25, having sent a SETUP message, delivered on a point to point data link, containing two BCs, BC1 and BC2, with one of them set to UDI/TA , no LLC, and two HLCs, HLC1 and HLC2,* *is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A-law.*	
Cross reference		
Comments	*According to basic call requirements, when the SETUP message has been sent via the broadcast data link, to indicate a network disconnect indication, IUT shall send a RELEASE message*	

GTP211_11	***Reference to ETS 300 267-1 [3]:*** *5.5.7, 5.6.7*	***Other relevant reference:*** *ETS 300 102-1 [1] 5.3.4.1*
TSS reference	*NT7V/DEST/BV/GEN/FBA/ST_T*	
Selection criteria	*SC 5.1 AND MC 2.4 [5]*	
Test purpose	*Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a SETUP message, delivered on a point to point data link, containing two BCs, BC1 and BC2, with one of them set to UDI/TA, no LLC, and two HLCs, HLC1 and HLC2,* *is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A-law.*	
Cross reference		
Comments	*According to basic call requirements, when the SETUP message has been sent via the broadcast data link, to indicate a network disconnect indication, IUT shall send a RELEASE message*	

5.3.1.1.1.2 Requirements at the coincident S and T reference point

GTP211_12	***Reference to ETS 300 267-1 [3]:*** *5.5.2.1*	***Other relevant reference:***
TSS reference	*NT7V/DEST/BV/GEN/FBA/ST*	
Selection criteria	*R 3.1 AND MC 3.2*	
Test purpose	*Verify that the IUT, in Call Present call state N6, having sent a SETUP message, containing two BCs, BC1 and BC2, and no LLC, on receipt of a CONNECT message, not containing a BC,* *assumes that fallback to BC1 has occurred at the destination user.*	
Cross reference		
Comments		

GTP211_13	***Reference to ETS 300 267-1 [3]:*** *5.5.2.1*	***Other relevant reference:***
TSS reference	*NT7V/DEST/BV/GEN/FBA/ST*	
Selection criteria	*R 3.1 AND MC 3.2*	
Test purpose	*Verify that the IUT, in Call Received call state N7, having sent a SETUP message, containing two BCs, BC1 and BC2, and no LLC, on receipt of a CONNECT message, not containing a BC,* *assumes that fallback to BC1 has occurred at the destination user.*	
Cross reference		
Comments		

GTP211_14	***Reference to ETS 300 267-1 [3]:*** *5.5.2.1*	***Other relevant reference:***
TSS reference	*NT7V/DEST/BV/GEN/FBA/ST*	
Selection criteria	*R 3.1 AND MC 3.2*	
Test purpose	*Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a SETUP message, containing two BCs, BC1 and BC2, and no LLC, on receipt of a CONNECT message, not containing a BC,* *assumes that fallback to BC1 has occurred at the destination user.*	
Cross reference		
Comments		

GTP211_15	***Reference to ETS 300 267-1 [3]:*** *5.5.2.1*	***Other relevant reference:***
TSS reference	*NT7V/DEST/BV/GEN/FBA/ST*	
Selection criteria	*R 3.1 AND MC 3.2*	
Test purpose	*Verify that the IUT, in Call Present call state N6, having sent a SETUP message, containing two BCs, BC1 and BC2, and no LLC, on receipt of a CONNECT message, containing BC2,* *indicates BC2 to the originating network.*	
Cross reference		
Comments		

GTP211_16	***Reference to ETS 300 267-1 [3]:*** *5.5.2.1*	***Other relevant reference:***
TSS reference	*NT7V/DEST/BV/GEN/FBA/ST*	
Selection criteria	*R 3.1 AND MC 3.2*	
Test purpose	*Verify that the IUT, in Call Received call state N7, having sent a SETUP message, containing two BCs, BC1 and BC2, and no LLC, on receipt of a CONNECT message, containing BC2,* *indicates BC2 to the originating network.*	
Cross reference		
Comments		

GTP211_17	***Reference to ETS 300 267-1 [3]:*** *5.5.2.1*	***Other relevant reference:***
TSS reference	*NT7V/DEST/BV/GEN/FBA/ST*	
Selection criteria	*R 3.1 AND MC 3.2*	
Test purpose	*Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a SETUP message, containing two BCs, BC1 and BC2, and no LLC, on receipt of a CONNECT message, containing BC2,* *indicates BC2 to the originating network.*	
Cross reference		
Comments		

GTP211_18	***Reference to ETS 300 267-1 [3]:*** *5.5.2.1*	***Other relevant reference:***
TSS reference	*NT7V/DEST/BV/GEN/FBA/ST*	
Selection criteria	*R 3.1 AND MC 3.2*	
Test purpose	*Verify that the IUT, in Call Present call state N6, having sent a SETUP message, containing two BCs, BC1 and BC2, and no LLC, on receipt of a CONNECT message, containing BC1,* *indicates BC1 to the originating network.*	
Cross reference		
Comments		

GTP211_19	***Reference to ETS 300 267-1 [3]:*** *5.5.2.1*	***Other relevant reference:***
TSS reference	*NT7V/DEST/BV/GEN/FBA/ST*	
Selection criteria	*R 3.1 AND MC 3.2*	
Test purpose	*Verify that the IUT, in Call Received call state N7, having sent a SETUP message, containing two BCs, BC1 and BC2, and no LLC, on receipt of a CONNECT message, containing BC1,* *indicates BC1 to the originating network.*	
Cross reference		
Comments		

GTP211_20	***Reference to ETS 300 267-1 [3]:*** *5.5.2.1*	***Other relevant reference:***
TSS reference	*NT7V/DEST/BV/GEN/FBA/ST*	
Selection criteria	*R 3.1 AND MC 3.2*	
Test purpose	*Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a SETUP message, containing two BCs, BC1 and BC2, and no LLC, on receipt of a CONNECT message, containing BC1,* *indicates BC1 to the originating network.*	
Cross reference		
Comments		

GTP211_21	***Reference to ETS 300 267-1 [3]:*** *5.5.2.1*	***Other relevant reference:***
TSS reference	*NT7V/DEST/BV/GEN/FBA/ST*	
Selection criteria	*R 3.1 AND MC 3.2*	
Test purpose	*Verify that the IUT, in Call Present call state N6, having sent a SETUP message, containing two BCs, BC1 and BC2, and no LLC, on receipt of a CONNECT message, not containing a BC,* *indicates BC1 to the originating network.*	
Cross reference		
Comments		

GTP211_22	***Reference to ETS 300 267-1 [3]:*** *5.5.2.1*	***Other relevant reference:***
TSS reference	*NT7V/DEST/BV/GEN/FBA/ST*	
Selection criteria	*R 3.1 AND MC 3.2*	
Test purpose	*Verify that the IUT, in Call Received call state N7, having sent a SETUP message, containing two BCs, BC1 and BC2, and no LLC, on receipt of a CONNECT message, not containing a BC,* *indicates BC1 to the originating network.*	
Cross reference		
Comments		

GTP211_23	***Reference to ETS 300 267-1 [3]:*** *5.5.2.1*	***Other relevant reference:***
TSS reference	*NT7V/DEST/BV/GEN/FBA/ST*	
Selection criteria	*R 3.1 AND MC 3.2*	
Test purpose	*Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a SETUP message, containing two BCs, BC1 and BC2, and no LLC, on receipt of a CONNECT message, not containing a BC,* *indicates BC1 to the originating network.*	
Cross reference		
Comments		

GTP211_24	***Reference to ETS 300 267-1 [3]:*** *5.5.4.1*	***Other relevant reference:***
TSS reference	*NT7V/DEST/BV/GEN/FBA/ST*	
Selection criteria	*R 3.1 AND MC 3.4*	
Test purpose	*Verify that the IUT, in Call Present call state N6, having sent a SETUP message, containing two HLCs, HLC1 and HLC2, on receipt of a CONNECT message, not containing a HLC,* *assumes that fallback to HLC1 has occurred at the destination user.*	
Cross reference		
Comments		

GTP211_25	***Reference to ETS 300 267-1 [3]:*** *5.5.4.1*	***Other relevant reference:***
TSS reference	*NT7V/DEST/BV/GEN/FBA/ST*	
Selection criteria	*R 3.1 AND MC 3.4*	
Test purpose	*Verify that the IUT, in Call Received call state N7, having sent a SETUP message, containing two HLCs, HLC1 and HLC2, on receipt of a CONNECT message, not containing a HLC,* *assumes that fallback to HLC1 has occurred at the destination user.*	
Cross reference		
Comments		

GTP211_26	***Reference to ETS 300 267-1 [3]:*** *5.5.4.1*	***Other relevant reference:***
TSS reference	*NT7V/DEST/BV/GEN/FBA/ST*	
Selection criteria	*R 3.1 AND MC 3.4*	
Test purpose	*Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a SETUP message, containing two HLCs, HLC1 and HLC2, on receipt of a CONNECT message, not containing a HLC,* *assumes that fallback to HLC1 has occurred at the destination user.*	
Cross reference		
Comments		

GTP211_27	***Reference to ETS 300 267-1 [3]:*** *5.5.4.1*	***Other relevant reference:***
TSS reference	*NT7V/DEST/BV/GEN/FBA/ST*	
Selection criteria	*R 3.1 AND MC 3.4*	
Test purpose	*Verify that the IUT, in Call Present call state N6, having sent a SETUP message, containing two HLCs, HLC1 and HLC2, on receipt of a CONNECT message, containing HLC2,* *indicates HLC2 to the originating network.*	
Cross reference		
Comments		

GTP211_28	***Reference to ETS 300 267-1 [3]:*** *5.5.4.1*	***Other relevant reference:***
TSS reference	*NT7V/DEST/BV/GEN/FBA/ST*	
Selection criteria	*R 3.1 AND MC 3.4*	
Test purpose	*Verify that the IUT, in Call Received call state N7, having sent a SETUP message, containing two HLCs, HLC1 and HLC2, on receipt of a CONNECT message, containing HLC2,* *indicates HLC2 to the originating network.*	
Cross reference		
Comments		

GTP211_29	***Reference to ETS 300 267-1 [3]:*** *5.5.4.1*	***Other relevant reference:***
TSS reference	*NT7V/DEST/BV/GEN/FBA/ST*	
Selection criteria	*R 3.1 AND MC 3.4*	
Test purpose	*Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a SETUP message, containing two HLCs, HLC1 and HLC2, on receipt of a CONNECT message, containing HLC2,* *indicates HLC2 to the originating network.*	
Cross reference		
Comments		

GTP211_30	***Reference to ETS 300 267-1 [3]:*** *5.5.4.1*	***Other relevant reference:***
TSS reference	*NT7V/DEST/BV/GEN/FBA/ST*	
Selection criteria	*R 3.1 AND MC 3.4*	
Test purpose	*Verify that the IUT, in Call Present call state N6, having sent a SETUP message, containing two HLCs, HLC1 and HLC2, on receipt of a CONNECT message, containing HLC1,* *indicates HLC1 to the originating network.*	
Cross reference		
Comments		

GTP211_31	***Reference to ETS 300 267-1 [3]:*** *5.5.4.1*	***Other relevant reference:***
TSS reference	*NT7V/DEST/BV/GEN/FBA/ST*	
Selection criteria	*R 3.1 AND MC 3.4*	
Test purpose	*Verify that the IUT, in Call Received call state N7, having sent a SETUP message, containing two HLCs, HLC1 and HLC2, on receipt of a CONNECT message, containing HLC1,* *indicates HLC1 to the originating network.*	
Cross reference		
Comments		

GTP211_32	***Reference to ETS 300 267-1 [3]:*** *5.5.4.1*	***Other relevant reference:***
TSS reference	*NT7V/DEST/BV/GEN/FBA/ST*	
Selection criteria	*R 3.1 AND MC 3.4*	
Test purpose	*Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a SETUP message, containing two HLCs, HLC1 and HLC2, on receipt of a CONNECT message, containing HLC1,* *indicates HLC1 to the originating network.*	
Cross reference		
Comments		

GTP211_33	***Reference to ETS 300 267-1 [3]:*** *5.5.4.1*	***Other relevant reference:***
TSS reference	*NT7V/DEST/BV/GEN/FBA/ST*	
Selection criteria	*R 3.1 AND MC 3.4*	
Test purpose	*Verify that the IUT, in Call Present call state N6, having sent a SETUP message, containing two HLCs, HLC1 and HLC2, on receipt of a CONNECT message, not containing a HLC,* *indicates HLC1 to the originating network.*	
Cross reference		
Comments		

GTP211_34	***Reference to ETS 300 267-1 [3]:*** *5.5.4.1*	***Other relevant reference:***
TSS reference	*NT7V/DEST/BV/GEN/FBA/ST*	
Selection criteria	*R 3.1 AND MC 3.4*	
Test purpose	*Verify that the IUT, in Call Received call state N7, having sent a SETUP message, containing two HLCs, HLC1 and HLC2, on receipt of a CONNECT message, not containing a HLC,* *indicates HLC1 to the originating network.*	
Cross reference		
Comments		

GTP211_35	***Reference to ETS 300 267-1 [3]:*** *5.5.4.1*	***Other relevant reference:***
TSS reference	*NT7V/DEST/BV/GEN/FBA/ST*	
Selection criteria	*R 3.1 AND MC 3.4*	
Test purpose	*Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a SETUP message, containing two HLCs, HLC1 and HLC2, on receipt of a CONNECT message, not containing a HLC,* *indicates HLC1 to the originating network.*	
Cross reference		
Comments		

5.3.1.1.1.3 Requirements for interworking with private ISDNs

GTP211_36	***Reference to ETS 300 267-1 [3]:*** *5.6.4.1*	***Other relevant reference:*** *ETS 300 102-1 [1] 5.2.6*
TSS reference	*NT7V/DEST/BV/GEN/FBA/PT*	
Selection criteria	*R 3.2 AND MC 4.4 AND MC 2.4 [5]*	
Test purpose	*Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a SETUP message (delivered on a point-to-point data link) containing two HLCs, HLC1 and HLC2, on receipt of a PROGRESS message, containing a PI=#5,* *does not stop timer T310*	
Cross reference		
Comments	*Receipt of PROGRESS: fallback allowed and occurred in the private ISDN.* *Timer T310 is a timer of ETS 300 102-1 [1]*	

5.3.1.1.2 Fallback not allowed

GTP212_01	***Reference to ETS 300 267-1 [3]:*** *5.5.7, 5.6.7*	***Other relevant reference:*** *ETS 300 102-1 [1] Annex N*
TSS reference	*NT7V/DEST/BV/GEN/FBN*	
Selection criteria	*MC 12 [5]*	
Test purpose	*Verify that the IUT, in Call Present call state N6, having sent a SETUP message, containing a BC=UDI/TA, on receipt of a CALL PROCEEDING message, containing an acceptable B-channel indication,* *connects, as a minimum, the backward side of the transmission path.*	
Cross reference		
Comments		

GTP212_02	***Reference to ETS 300 267-1 [3]:*** *5.5.7, 5.6.7*	***Other relevant reference:*** *ETS 300 102-1 [1] Annex N*
TSS reference	*NT7V/DEST/BV/GEN/FBN*	
Selection criteria	*MC 12 [5]*	
Test purpose	*Verify that the IUT, in Call Present call state N6, having sent a SETUP message, containing a BC=UDI/TA, on receipt of an ALERTING message, containing a PI=#8,* *connects, as a minimum, the backward side of the transmission path.*	
Cross reference		
Comments		

GTP212_03	***Reference to ETS 300 267-1 [3]:*** *5.5.7, 5.6.7*	***Other relevant reference:*** *ETS 300 102-1 [1] 5.2.6*
TSS reference	*NT7V/DEST/BV/GEN/FBN*	
Selection criteria		
Test purpose	*Verify that the IUT, in Idle call state N0,* *is capable of sending a SETUP message containing a BC=UDI/TA and a PI=#1 or a PI=#3.*	
Cross reference		
Comments		

GTP212_04	***Reference to ETS 300 267-1 [3]:*** *5.5.7, 5.6.7*	***Other relevant reference:*** *ETS 300 102-1 [1] 5.3.4.1*
TSS reference	*NT7V/DEST/BV/GEN/FBN*	
Selection criteria	*SC 5.1 AND MC 2.2 [5] AND MC 2.4 [5]*	
Test purpose	*Verify that the IUT, in Overlap Receiving call state N25, having sent a SETUP message, delivered on a point to point data link, containing a single BC=UDI/TA, and no LLC,* *is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A-law.*	
Cross reference		
Comments	*According to basic call requirements, when the SETUP message has been sent via the broadcast data link, to indicate a network disconnect indication, IUT shall send a RELEASE message*	

GTP212_05	***Reference to ETS 300 267-1 [3]:*** *5.5.7, 5.6.7*	***Other relevant reference:*** *ETS 300 102-1 [1] 5.3.4.1*
TSS reference	*NT7V/DEST/BV/GEN/FBN*	
Selection criteria	*SC 5.1 AND MC 2.4 [5]*	
Test purpose	*Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a SETUP message, delivered on a point to point data link, containing a single BC=UDI/TA, and no LLC,* *is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A-law.*	
Cross reference		
Comments	*According to basic call requirements, when the SETUP message has been sent via the broadcast data link, to indicate a network disconnect indication, IUT shall send a RELEASE message*	

GTP212_06	***Reference to ETS 300 267-1 [3]:*** *5.5.7, 5.6.7*	***Other relevant reference:*** *ETS 300 102-1 [1] 5.3.4.1*
TSS reference	*NT7V/DEST/BV/GEN/FBN*	
Selection criteria	*SC 5.1 AND MC 2.2 [5] AND MC 2.4 [5]*	
Test purpose	*Verify that the IUT, in Overlap Receiving call state N25, having sent a SETUP message, delivered on a point to point data link, containing a single BC=UDI/TA, no LLC, and a single HLC,* *is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A-law.*	
Cross reference		
Comments	*According to basic call requirements, when the SETUP message has been sent via the broadcast data link, to indicate a network disconnect indication, IUT shall send a RELEASE message*	

GTP212_07	***Reference to ETS 300 267-1 [3]:*** *5.5.7, 5.6.7*	***Other relevant reference:*** *ETS 300 102-1 [1] 5.3.4.1*
TSS reference	*NT7V/DEST/BV/GEN/FBN*	
Selection criteria	*SC 5.1 AND MC 2.4 [5]*	
Test purpose	*Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a SETUP message, delivered on a point to point data link, containing a single BC=UDI/TA,, no LLC, and a single HLC,* *is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A-law.*	
Cross reference		
Comments	*According to basic call requirements, when the SETUP message has been sent via the broadcast data link, to indicate a network disconnect indication, IUT shall send a RELEASE message*	

5.3.1.1.3 Connection management

GTP213_01	***Reference to ETS 300 267-1 [3]:*** *5.5.7, 5.6.7*	***Other relevant reference:*** *ETS 300 102-1 [1] 5.3.4.1*
TSS reference	*NT7V/DEST/BV/GEN/CMN*	
Selection criteria	*SC 5.1*	
Test purpose	*Verify that the IUT, at the destination interface, in Active call state N10, having received a SETUP message, containing a single BC=UDI/TA,* *is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A-law.*	
Cross reference		
Comments		

GTP213_02	***Reference to ETS 300 267-1 [3]:*** *5.5.7, 5.6.7*	***Other relevant reference:***
TSS reference	*NT7V/DEST/BV/GEN/CMN*	
Selection criteria	*SC 5.1*	
Test purpose	*Verify that the IUT, at the destination interface, with CR1 and CR2 in Active call state N10, having received a SETUP message, containing a BC=UDI/TA,* *is capable of sending a DISCONNECT message, on CR1, containing a PI=#8 and of providing in-band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A-law.*	
Cross reference		
Comments		

5.3.1.2 Telephony 7 kHz teleservice

5.3.1.2.1 Fallback allowed

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

TTP211_01	**Reference to ETS 300 267-1 [3]:** 5.5.2.1, 5.6.2.1, 6.5.2 a), 6.6 a)	**Other relevant reference:**
TSS reference	NT7V/DEST/BV/TL7/FBA/ST_T	
Selection criteria	R 1.1	
Test purpose	Verify that the IUT, in Idle call state N0, is capable of sending a SETUP message containing two BCs, with the first BC=speech and the second BC=UDI/TA, a HLC=telephony, and not containing an LLC and enters the Call present call state N6.	
Cross reference	Related GTP: 211_01.	
Comments		

TTP211_02	**Reference to ETS 300 267-1 [3]:** 5.5.2.1, 5.6.2.2 a), 6.5.2 c), 6.6 c)	**Other relevant reference:**
TSS reference	NT7V/DEST/BV/TL7/FBA/ST_T	
Selection criteria	R 1.1	
Test purpose	Verify that the IUT, in Call Present call state N6, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a CONNECT message, not containing a BC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference	Related GTP: GTP211_12, GTP221_08.	
Comments		

TTP211_03	**Reference to ETS 300 267-1 [3]:** 5.5.2.1, 5.6.2.2 a), 6.5.2 c), 7.6 c)	**Other relevant reference:**
TSS reference	NT7V/DEST/BV/TL7/FBA/ST_T	
Selection criteria	R 1.1	
Test purpose	Verify that the IUT, in Call Received call state N7, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a CONNECT message, not containing a BC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference	Related GTP: GTP211_13, GTP221_09.	
Comments		

TTP211_04	**Reference to ETS 300 267-1 [3]:** 5.5.2.1, 5.6.2.2 a), 6.5.2 c), 6.6 c)	**Other relevant reference:**
TSS reference	NT7V/DEST/BV/TL7/FBA/ST_T	
Selection criteria	R 1.1	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a CONNECT message, not containing a BC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference	Related GTP: GTP211_14, GTP221_10.	
Comments		

TTP211_05	**Reference to ETS 300 267-1 [3]:** 5.5.2.1, 5.6.2.2 a), 6.5.2 c), 6.6 c)	**Other relevant reference:**
TSS reference	NT7V/DEST/BV/TL7/FBA/ST_T	
Selection criteria	R 1.1	
Test purpose	Verify that the IUT, in Call Present call state N6, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC=speech, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference	Related GTP: GTP211_18.	
Comments		

TTP211_06	**Reference to ETS 300 267-1 [3]:** 5.5.2.1, 5.6.2.2 a), 6.5.2 c), 7.6 c)	**Other relevant reference:**
TSS reference	NT7V/DEST/BV/TL7/FBA/ST_T	
Selection criteria	R 1.1	
Test purpose	Verify that the IUT, in Call Received call state N7, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC=speech, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference	Related GTP: GTP211_19.	
Comments		

TTP211_07	**Reference to ETS 300 267-1 [3]:** 5.5.2.1, 5.6.2.2 a), 6.5.2 c), 6.6 c)	**Other relevant reference:**
TSS reference	NT7V/DEST/BV/TL7/FBA/ST_T	
Selection criteria	R 1.1	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC=speech, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference	Related GTP: GTP211_20.	
Comments		

TTP211_08	**Reference to ETS 300 267-1 [3]:** 5.5.2.1, 5.6.2.2 a), 6.5.2 c), 6.6 c)	**Other relevant reference:**
TSS reference	NT7V/DEST/BV/TL7/FBA ST_T	
Selection criteria	R 1.1	
Test purpose	Verify that the IUT, in Call Present call state N6, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC=UDI/TA, assumes that fallback has not occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference	Related GTP: GTP211_15.	
Comments		

TTP211_09	**Reference to ETS 300 267-1 [3]:** 5.5.2.1, 5.6.2.2 a), 6.5.2 c), 7.6 c)	**Other relevant reference:**
TSS reference	NT7V/DEST/BV/TL7/FBA ST_T	
Selection criteria	R 1.1	
Test purpose	Verify that the IUT, in Call Received call state N7, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC=UDI/TA, assumes that fallback has not occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference	Related GTP: GTP211_16.	
Comments		

TTP211_10	**Reference to ETS 300 267-1 [3]:** 5.5.2.1, 5.6.2.2 a), 6.5.2 c), 6.6 c)	**Other relevant reference:**
TSS reference	NT7V/DEST/BV/TL7/FBA/ST_T	
Selection criteria	R 1.1	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC=UDI/TA, assumes that fallback has not occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference	Related GTP: GTP211_17.	
Comments		

TTP211_11	**Reference to ETS 300 267-1 [3]:** 5.5.7, 5.6.7, 6.5.3, 6.6	**Other relevant reference:** ETS 300 102-1 [1] 5.3.4.1, 5.3.2 e)
TSS reference	NT7V/DEST/BV/TL7/FBA/ST_T	
Selection criteria	R 1.1 AND MC 2.2 [5] AND MC 2.4 [5]	
Test purpose	Verify that the IUT, in Overlap Receiving call state N25, having sent a telephony 7 kHz fallback allowed SETUP message, delivered on a point to point data link, is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP211_08	
Comments	According to basic call requirements, when the SETUP message has been sent via the broadcast data link, to indicate a network disconnect indication, IUT shall send a RELEASE message	

TTP211_12	**Reference to ETS 300 267-1 [3]:** 5.5.7, 5.6.7, 6.5.3, 6.6	**Other relevant reference:** ETS 300 102-1 [1] 5.3.4.1, 5.3.2 e)
TSS reference	NT7V/DEST/BV/TL7/FBA/ST_T	
Selection criteria	R 1.1 AND MC 2.4 [5]	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a telephony 7 kHz fallback allowed SETUP message, delivered on a point to point data link, is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP211_09	
Comments	According to basic call requirements, when the SETUP message has been sent via the broadcast data link, to indicate a network disconnect indication, IUT shall send a RELEASE message	

5.3.1.2.1.2 Requirements for interworking with private ISDNs

TTP211_13	**Reference to ETS 300 267-1 [3]:** 5.5.2.1, 5.6.4.1, 6.6 d)	**Other relevant reference:**
TSS reference	NT7V/DEST/BV/TL7/FBA/PT	
Selection criteria	R 1.1 AND R 3.2	
Test purpose	Verify that the IUT, in the Call Present call state N6, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a PROGRESS message, containing a PI=#5 "interworking has occurred and has resulted in a telecommunications service change", a BC=speech and a HLC=telephony, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and remains in the same call state.	
Cross reference		
Comments	Fallback occurs within the private ISDN	

TTP211_14	**Reference to ETS 300 267-1 [3]:** 5.5.2.1, 5.6.4.1, 6.6 d)	**Other relevant reference:**
TSS reference	NT7V/DEST/BV/TL7/FBA/PT	
Selection criteria	R 1.1 AND R 3.2	
Test purpose	Verify that the IUT, in the Call Present call state N6, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a PROGRESS message, containing a PI=#5 "interworking has occurred and has resulted in a telecommunications service change", no BC and no HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and remains in the same call state.	
Cross reference		
Comments	Fallback occurs within the private ISDN	

TTP211_15	**Reference to ETS 300 267-1 [3]:** 5.5.2.1, 5.6.4.1, 6.6 d)	**Other relevant reference:**
TSS reference	NT7V/DEST/BV/TL7/FBA/PT	
Selection criteria	R 1.1 AND R 3.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a PROGRESS message, containing a PI=#5 "interworking has occurred and has resulted in a telecommunications service change", a BC=speech and a HLC=telephony, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and remains in the same call state.	
Cross reference		
Comments	Fallback occurs within the private ISDN	

TTP211_16	**Reference to ETS 300 267-1 [3]:** 5.5.2.1, 5.6.4.1, 6.6 d)	**Other relevant reference:**
TSS reference	NT7V/DEST/BV/TL7/FBA/PT	
Selection criteria	R 1.1 AND R 3.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a PROGRESS message, containing a PI=#5 "interworking has occurred and has resulted in a telecommunications service change", no BC and no HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and remains in the same call state.	
Cross reference		
Comments	Fallback occurs within the private ISDN	

TTP211_17	**Reference to ETS 300 267-1 [3]:** 5.5.2.1, 5.6.4.1, 6.6 d)	**Other relevant reference:**
TSS reference	NT7V/DEST/BV/TL7/FBA/PT	
Selection criteria	R 1.1 AND R 3.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of an ALERTING message, containing a PI=#5 "interworking has occurred and has resulted in a telecommunications service change", BC=speech and HLC=telephony, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Call Received call state N7.	
Cross reference		
Comments	Fallback occurs within the private ISDN	

TTP211_18	**Reference to ETS 300 267-1 [3]:** 5.5.2.1, 5.6.4.1, 6.6 d)	**Other relevant reference:**
TSS reference	NT7V/DEST/BV/TL7/FBA/PT	
Selection criteria	R 1.1 AND R 3.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of an ALERTING message, containing a PI=#5 "interworking has occurred and has resulted in a telecommunications service change", no BC and no HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Call Received call state N7.	
Cross reference		
Comments	Fallback occurs within the private ISDN	

5.3.1.2.2 Fallback not allowed

TTP212_01	**Reference to ETS 300 267-1 [3]:** 6.5.2 1), 6.6 first bullet item	**Other relevant reference:**
TSS reference	NT7V/DEST/BV/TL7/FBN	
Selection criteria	R 1.1	
Test purpose	Verify that the IUT, in Idle call state N0, is capable of sending a SETUP message containing a single BC=UDI/TA and a HLC=telephony, and not containing a LLC and enters the Call present call state N6.	
Cross reference		
Comments		

TTP212_02	**Reference to ETS 300 267-1 [3]:** 5.5.7, 5.6.7, 6.5.3, 6.6	**Other relevant reference:** ETS 300 102-1 [1] 5.3.4.1
TSS reference	NT7V/DEST/BV/TL7/FBN	
Selection criteria	R 1.1 AND MC 2.2 [5] AND MC 2.4 [5]	
Test purpose	Verify that the IUT, in Overlap Receiving call state N25, having sent a SETUP message, delivered on a point to point data link, containing a single BC=UDI/TA and a HLC=telephony, and not containing a LLC, is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP212_04.	
Comments	According to basic call requirements, when the SETUP message has been sent via the broadcast data link, to indicate a network disconnect indication, IUT shall send a RELEASE message	

TTP212_03	**Reference to ETS 300 267-1 [3]:** 5.5.7, 5.6.7, 6.5.3, 6.6	**Other relevant reference:** ETS 300 102-1 [1] 5.3.4.1
TSS reference	NT7V/DEST/BV/TL7/FBN	
Selection criteria	R 1.1 AND MC 2.4 [5]	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a telephony 7 kHz fallback not allowed SETUP message, delivered on a point to point data link, is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP212_05.	
Comments	According to basic call requirements, when the SETUP message has been sent via the broadcast data link, to indicate a network disconnect indication, IUT shall send a RELEASE message	

5.3.1.2.3 Connection management

TTP213_01	**Reference to ETS 300 267-1 [3]:** 5.5.7, 5.6.7, 6.5.3, 6.6	**Other relevant reference:** ETS 300 102-1 [1] 5.3.4
TSS reference	NT7V/DEST/BV/TL7/CMN	
Selection criteria	R 1.1	
Test purpose	Verify that the IUT, at the destination interface, in Active call state N10, with a call of the telephony 7 kHz teleservice in progress in a 7 kHz mode, is capable of sending a DISCONNECT message, containing a PI=#8, and of presenting a tone or announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP213_01.	
Comments	According to basic call requirements, in Active call state N10, on receipt of a DISCONNECT message from the calling user, the IUT shall send a DISCONNECT message to the called user.	

5.3.1.3 Videotelephony teleservice

5.3.1.3.1 Fallback allowed

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

VTP211_01	**Reference to ETS 300 267-1 [3]:** 5.5.2.1, 5.5.4.1, 5.6.2.1, 5.6.4.1, 7.5.2 a), 7.6 a)	**Other relevant reference:**
TSS reference	NT7V/DEST/BV/VTL/FBA/ST_T	
Selection criteria	R 1.2	
Test purpose	Verify that the IUT, in Idle call state N0, is capable of sending a SETUP message containing two BCs, with the first BC=speech and the second BC=UDI/TA, and two HLCs, with the first HLC=telephony and the second HLC=videotelephony_ic, and not containing a LLC and enters the Call present call state N6.	
Cross reference	Related GTP: GTP211_01, GTP211_02.	
Comments		

VTP211_02	**Reference to ETS 300 267-1 [3]:** 5.5.2.1, 5.6.2.2 a), 7.5.2 c), 7.6 c)	**Other relevant reference:**
TSS reference	NT7V/DEST/BV/VTL/FBA/ST_T	
Selection criteria	R 1.2	
Test purpose	Verify that the IUT, in Call Present call state N6, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing neither a BC nor a HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference	Related GTP: GTP211_12, GTP221_08.	
Comments		

VTP211_03	**Reference to ETS 300 267-1 [3]:** 5.5.2.1, 5.6.2.2 a), 7.5.2 c), 7.6 c)	**Other relevant reference:**
TSS reference	NT7V/DEST/BV/VTL/FBA/ST_T	
Selection criteria	R 1.2	
Test purpose	Verify that the IUT, in Call Received call state N7, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing neither BC nor a HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference	Related GTP: GTP211_13, GTP221_09.	
Comments		

VTP211_04	**Reference to ETS 300 267-1 [3]:** 5.5.2.1, 5.6.2.2 a), 7.5.2 c), 7.6 c)	**Other relevant reference:**
TSS reference	NT7V/DEST/BV/VTL/FBA/ST_T	
Selection criteria	R 1.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing neither BC nor a HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference	Related GTP: GTP211_14, GTP221_10	
Comments		

VTP211_05	**Reference to ETS 300 267-1 [3]:** 5.5.4.1, 7.5.2 c), 7.6 c)	**Other relevant reference:**
TSS reference	NT7V/DEST/BV/VTL/FBA/ST_T	
Selection criteria	R 1.2	
Test purpose	Verify that the IUT, in Call Present call state N6, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC=speech, but not containing a HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference	Related GTP: GTP211_18, GTP211_33	
Comments		

VTP211_06	**Reference to ETS 300 267-1 [3]:** 5.5.4.1, 7.5.2 c), 7.6 c)	**Other relevant reference:**
TSS reference	NT7V/DEST/BV/VTL/FBA/ST_T	
Selection criteria	R 1.2	
Test purpose	Verify that the IUT, in Call Received call state N7, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC=speech, but not containing a HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference	Related GTP: GTP211_19, GTP211_34	
Comments		

VTP211_07	**Reference to ETS 300 267-1 [3]:** 5.5.2.1, 5.5.4.1, 7.5.2 c), 7.6 c)	**Other relevant reference:**
TSS reference	NT7V/DEST/BV/VTL/FBA/ST_T	
Selection criteria	R 1.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC=speech, but not containing a HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference	Related GTP: GTP211_20, GTP211_35	
Comments		

VTP211_08	**Reference to ETS 300 267-1 [3]:** 5.5.4.1, 7.5.2 c), 7.6 c)	**Other relevant reference:**
TSS reference	NT7V/DEST/BV/VTL/FBA/ST_T	
Selection criteria	R 1.2	
Test purpose	Verify that the IUT, in Call present call state N6, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC=UDI/TA and a HLC=videotelephony_ic , assumes that fallback has not occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference	Related GTP: GTP211_15, GTP211_27	
Comments		

VTP211_09	**Reference to ETS 300 267-1 [3]:** 5.5.4.1, 7.5.2 c), 7.6 c)	**Other relevant reference:**
TSS reference	NT7V/DEST/BV/VTL/FBA/ST_T	
Selection criteria	R 1.2	
Test purpose	Verify that the IUT, in Call Received call state N7, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC=UDI/TA and a HLC=videotelephony_ic , assumes that fallback has not occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference	Related GTP: GTP211_16, GTP211_28	
Comments		

VTP211_10	**Reference to ETS 300 267-1 [3]:** 5.5.2.1, 5.5.4.1, 7.5.2 c), 7.6 c)	**Other relevant reference:**
TSS reference	NT7V/DEST/BV/VTL/FBA/ST_T	
Selection criteria	R 1.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC=UDI/TA and a HLC=videotelephony_ic , assumes that fallback has not occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference	Related GTP: GTP211_17, GTP211_29	
Comments		

VTP211_11	**Reference to ETS 300 267-1 [3]:** 5.5.4.1, 7.5.2 c), 7.6 c)	**Other relevant reference:**
TSS reference	NT7V/DEST/BV/VTL/FBA/ST_T	
Selection criteria	R 1.2	
Test purpose	Verify that the IUT, in Call Received call state N7, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC=UDI/TA and a HLC=telephony, assumes that fallback to telephony 7 kHz has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference	Related GTP: GTP211_16, GTP211_31	
Comments		

VTP211_12	**Reference to ETS 300 267-1 [3]:** 5.5.2.1, 5.5.4.1, 7.5.2 c), 7.6 c)	**Other relevant reference:**
TSS reference	NT7V/DEST/BV/VTL/FBA/ST_T	
Selection criteria	R 1.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC=UDI/TA and a HLC=telephony, assumes that fallback to telephony 7 kHz has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference	Related GTP: GTP211_17, GTP211_32	
Comments		

VTP211_13	**Reference to ETS 300 267-1 [3]:** 5.5.4.1, 7.5.2 c), 7.6 c)	**Other relevant reference:**
TSS reference	NT7V/DEST/BV/VTL/FBA/ST_T	
Selection criteria	R 1.2	
Test purpose	Verify that the IUT, in Call Received call state N7, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC=speech and a HLC=telephony, assumes that fallback to telephony 3,1 kHz has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference	Related GTP: GTP211_19, GTP211_31	
Comments		

VTP211_14	**Reference to ETS 300 267-1 [3]:** 5.5.2.1, 5.5.4.1, 7.5.2 c), 7.6 c)	**Other relevant reference:**
TSS reference	NT7V/DEST/BV/VTL/FBA/ST_T	
Selection criteria	R 1.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC=speech and a HLC=telephony, assumes that fallback to telephony 3,1 kHz has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference	Related GTP: GTP211_20, GTP211_32	
Comments		

VTP211_15	**Reference to ETS 300 267-1 [3]:** 5.5.7, 5.6.7, 7.5.3, 7.6	**Other relevant reference:** ETS 300 102-1 [1] 5.3.4.1
TSS reference	NT7V/DEST/BV/VTL/FBA/ST_T	
Selection criteria	R 1.2 AND MC 2.2 [5] AND MC 2.4 [5]	
Test purpose	Verify that the IUT, in Overlap Receiving call state N25, having sent a videotelephony fallback allowed SETUP message, delivered on a point to point data link, is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP211_10.	
Comments	According to basic call requirements, when the SETUP message has been sent via the broadcast data link, to indicate a network disconnect indication, IUT shall send a RELEASE message	

VTP211_16	**Reference to ETS 300 267-1 [3]:** 5.5.7, 5.6.7, 7.5.3, 7.6	**Other relevant reference:** ETS 300 102-1 [1] 5.3.4.1
TSS reference	NT7V/DEST/BV/VTL/FBA/ST_T	
Selection criteria	R 1.2 AND MC 2.4 [5]	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videotelephony fallback allowed SETUP message, delivered on a point to point data link, is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP211_11	
Comments	According to basic call requirements, when the SETUP message has been sent via the broadcast data link, to indicate a network disconnect indication, IUT shall send a RELEASE message	

5.3.1.3.1.2 Requirements at the coincident S and T reference point

VTP211_17	**Reference to ETS 300 267-1 [3]:** 5.5.2.1, 7.5.2 c)	**Other relevant reference:**
TSS reference	NT7V/DEST/BV/VTL/FBA/ST	
Selection criteria	R 1.2 AND R 3.1	
Test purpose	Verify that the IUT, in Call Received call state N7, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, not containing a BC, but containing a HLC=videotelephony_ic, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference	Related GTP: GTP211_13.	
Comments		

VTP211_18	**Reference to ETS 300 267-1 [3]:** 5.5.2.1, 7.5.2 c)	**Other relevant reference:**
TSS reference	NT7V/DEST/BV/VTL/FBA/ST	
Selection criteria	R 1.2 AND R 3.1	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, not containing a BC, but containing a HLC=videotelephony_nex, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference	Related GTP: GTP211_14.	
Comments		

VTP211_19	**Reference to ETS 300 267-1 [3]:** 5.5.4.1, 7.5.2 c)	**Other relevant reference:**
TSS reference	NT7V/DEST/BV/VTL/FBA/ST	
Selection criteria	R 1.2 AND R 3.1	
Test purpose	Verify that the IUT, in Call Present call state N6, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC=UDI/TA, but not containing a HLC, assumes that fallback to the telephony 7 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference	Related GTP: GTP211_24.	
Comments		

VTP211_20	**Reference to ETS 300 267-1 [3]:** 5.5.4.1, 7.5.2 c)	**Other relevant reference:**
TSS reference	NT7V/DEST/BV/VTL/FBA/ST	
Selection criteria	R 1.2 AND R 3.1	
Test purpose	Verify that the IUT, in Call Received call state N7, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC=UDI/TA, but not containing a HLC, assumes that fallback to the telephony 7 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference	Related GTP: GTP211_25.	
Comments		

VTP211_21	**Reference to ETS 300 267-1 [3]:** 5.5.4.1, 7.5.2 c),	**Other relevant reference:**
TSS reference	NT7V/DEST/BV/VTL/FBA/ST	
Selection criteria	R 1.2 AND R 3.1	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC=UDI/TA, but not containing a HLC, assumes that fallback to the telephony 7 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference	Related GTP: GTP211_26.	
Comments		

VTP211_22	**Reference to ETS 300 267-1 [3]:** 5.5.4.1, 7.5.2 c)	**Other relevant reference:**
TSS reference	NT7V/DEST/BV/VTL/FBA/ST	
Selection criteria	R 1.2 AND R 3.1	
Test purpose	Verify that the IUT, in Call present call state N6, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing a HLC=telephony, but not containing a BC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments		

VTP211_23	**Reference to ETS 300 267-1 [3]:** 5.5.4.1, 7.5.2 c)	**Other relevant reference:**
TSS reference	NT7V/DEST/BV/VTL/FBA/ST	
Selection criteria	R 1.2 AND R 3.1	
Test purpose	Verify that the IUT, in Call Received call state N7, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing a HLC=telephony, but not containing a BC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments		

VTP211_24	**Reference to ETS 300 267-1 [3]:** 5.5.2.1, 5.5.4.1, 7.5.2 c)	**Other relevant reference:**
TSS reference	NT7V/DEST/BV/VTL/FBA/ST	
Selection criteria	R 1.2 AND R 3.1	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing a HLC=telephony, but not containing a BC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments		

5.3.1.3.1.3 Requirements for interworking with private ISDNs

VTP211_25	**Reference to ETS 300 267-1 [3]:** 5.5.2.1, 5.6.4.1, 7.6 d)	**Other relevant reference:**
TSS reference	NT7V/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 N6, having sent a videotelephony fallback allowed SETUP message, on receipt of a PROGRESS message, containing a PI=#5 "interworking has occurred and has resulted in a telecommunications service change" and a BC=speech and HLC=telephony, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and remains in the same state.	
Cross reference		
Comments	Fallback occurs within the private ISDN	

VTP211_26	**Reference to ETS 300 267-1 [3]:** 5.5.2.1, 5.6.4.1, 7.6 d)	**Other relevant reference:**
TSS reference	NT7V/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 N6, having sent a videotelephony fallback allowed SETUP message, on receipt of a PROGRESS message, containing a PI=#5 "interworking has occurred and has resulted in a telecommunications service change" and no BC or HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and remains in the same state.	
Cross reference		
Comments	Fallback occurs within the private ISDN	

VTP211_27	**Reference to ETS 300 267-1 [3]:** 5.5.2.1, 5.6.4.1, 7.6 d)	**Other relevant reference:**
TSS reference	NT7V/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 N6, having sent a videotelephony fallback allowed SETUP message, on receipt of a CALL PROCEEDING message, containing a PI=#5 "interworking has occurred and has resulted in a telecommunications service change" and a BC=speech and HLC=telephony, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Incoming Call Proceeding call state N9.	
Cross reference		
Comments	Fallback occurs within the private ISDN	

VTP211_28	**Reference to ETS 300 267-1 [3]:** 5.5.2.1, 5.6.4.1, 7.6 d)	**Other relevant reference:**
TSS reference	NT7V/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 N6, having sent a videotelephony fallback allowed SETUP message, on receipt of a CALL PROCEEDING message, containing a PI=#5 "interworking has occurred and has resulted in a telecommunications service change" and a BC=speech and HLC=videotelephony_ic, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Incoming Call Proceeding call state N9.	
Cross reference		
Comments	Fallback occurs within the private ISDN	

VTP211_29	**Reference to ETS 300 267-1 [3]:** 5.5.2.1, 5.6.4.1, 7.6 d)	**Other relevant reference:**
TSS reference	NT7V/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 N6, having sent a videotelephony fallback allowed SETUP message, on receipt of a CALL PROCEEDING message, containing a PI=#5 "interworking has occurred and has resulted in a telecommunications service change" and no BC or HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Incoming Call Proceeding call state N9.	
Cross reference		
Comments	Fallback occurs within the private ISDN	

VTP211_30	**Reference to ETS 300 267-1 [3]:** 5.5.2.1, 5.6.4.1, 7.6 d)	**Other relevant reference:**
TSS reference	NT7V/DEST/BV/VTL/FBA/PT	
Selection criteria	R 1.2 AND R 3.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videotelephony fallback allowed SETUP message, on receipt of an ALERTING message, containing a PI=#5 "interworking has occurred and has resulted in a telecommunications service change" and no BC or HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Call Received call state N7.	
Cross reference		
Comments	Fallback occurs within the private ISDN	

5.3.1.3.2 Fallback not allowed

VTP212_01	**Reference to ETS 300 267-1 [3]:** 7.5.2 1), 7.6 first bullet item	**Other relevant reference:**
TSS reference	NT7V/DEST/BV/VTL/FBN	
Selection criteria	R 1.2	
Test purpose	Verify that the IUT, in Idle call state N0, is capable of sending a SETUP message containing a single BC=UDI/TA and a single HLC=videotelephony_ic, and not containing a LLC and enters the Call present call state N6.	
Cross reference		
Comments		

VTP212_02	**Reference to ETS 300 267-1 [3]:** 5.5.7, 5.6.7, 7.5.3, 7.6	**Other relevant reference:** ETS 300 102-1 [1] 5.3.4.1
TSS reference	NT7V/DEST/BV/VTL/FBN	
Selection criteria	R 1.2 AND MC 2.2 [5] AND MC 2.4 [5]	
Test purpose	Verify that the IUT, in Overlap Receiving call state N25, having sent a videotelephony fallback not allowed SETUP message, delivered on a point to point data link, is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP212_06.	
Comments	According to basic call requirements, when the SETUP message has been sent via the broadcast data link, to indicate a network disconnect indication, IUT shall send a RELEASE message	

VTP212_03	**Reference to ETS 300 267-1 [3]:** 5.5.7, 5.6.7, 7.5.3, 7.6	**Other relevant reference:** ETS 300 102-1 [1] 5.3.4.1
TSS reference	NT7V/DEST/BV/VTL/FBN	
Selection criteria	R 1.2 AND MC 2.4 [5]	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videotelephony fallback not allowed SETUP message, delivered on a point to point data link, is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP212_07.	
Comments	According to basic call requirements, when the SETUP message has been sent via the broadcast data link, to indicate a network disconnect indication, IUT shall send a RELEASE message	

5.3.1.3.3 Connection management

VTP213_01	**Reference to ETS 300 267-1 [3]:** 7.5.2, 7.6 (last paragraph)	**Other relevant reference:**
TSS reference	NT7V/DEST/BV/VTL/CMN	
Selection criteria	R 1.2	
Test purpose	Verify that the IUT, at the destination interface, in Active call state N10 for CR1 and in the Null call state N0 for CR2, in order to establish CR2 in a videotelephony call requiring two connections, is capable of sending a SETUP message containing a single BC=UDI and a single HLC=videotelephony_sc and enters the Call present call state N6.	
Cross reference		
Comments		

VTP213_02	**Reference to ETS 300 267-1 [3]:** 5.5.7, 5.6.7, 7.5.3, 7.6	**Other relevant reference:** ETS 300 102-1 [1] 5.3.4
TSS reference	NT7V/DEST/BV/VTL/CMN	
Selection criteria	R 1.2	
Test purpose	Verify that the IUT, at the destination interface, in Active call state N10, with a call of the videotelephony teleservice in progress in a 1B-channel mode, is capable of sending a DISCONNECT message containing a PI=#8 and of simultaneously providing in-band tones and announcement in a 3,1 kHz mode, encoded according to CCITT Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP213_01.	
Comments	According to basic call requirements, in Active call state N10, on receipt of a DISCONNECT message from the calling user, the IUT shall send a DISCONNECT message to the called user.	

VTP213_03	**Reference to ETS 300 267-1 [3]:** 5.5.7, 5.6.7, 7.5.3, 7.6	**Other relevant reference:** ETS 300 102-1 [1] 5.3.4
TSS reference	NT7V/DEST/BV/VTL/CMN	
Selection criteria	R 1.2	
Test purpose	Verify that the IUT, at the destination interface, with CR1 and CR2 in Active call state N10, with a call of the videotelephony teleservice in progress in a 2B-channel mode, is capable of sending a DISCONNECT message, on CR1, containing a PI=#8, and of presenting a tone or announcement in a 3,1 kHz mode on CR1, encoded according to CCITT Recommendation G.711 [6] A-law and enters the Disconnect indication call state N12.	
Cross reference	Related GTP: GTP213_02.	
Comments	According to basic call requirements, in Active call state N10, on receipt of a DISCONNECT message from the calling user, the IUT shall send a DISCONNECT message to the called user.	

5.3.2 Invalid behaviour

5.3.2.1 Generic requirements

5.3.2.1.1 Fallback allowed

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

GTP221_01	***Reference to ETS 300 267-1 [3]:*** *5.5.2.2 c), 5.6.2.2 e)*	***Other relevant reference:***
TSS reference	*NT7V/DEST/BI/GEN/FBA/ST_T*	
Selection criteria	*MC 3.2 OR MC 4.2*	
Test purpose	*Verify that the IUT, in Call Present call state N6, having sent a SETUP message, containing two BCs, BC1 and BC2, and no LLC, on receipt of a CONNECT message, containing a BC, the information transfer capability field, of which, does not equal that of BC1 or BC2,* *clears the call with normal call clearing procedures with clearing cause #111 "protocol error unspecified".*	
Cross reference		
Comments	*Receipt of incompatible CONNECT.*	

GTP221_02	***Reference to ETS 300 267-1 [3]:*** *5.5.2.2 c), 5.6.2.2 e)*	***Other relevant reference:***
TSS reference	*NT7V/DEST/BI/GEN/FBA/ST_T*	
Selection criteria	*MC 3.2 OR MC 4.2*	
Test purpose	*Verify that the IUT, in Call Received call state N7, having sent a SETUP message, containing two BCs, BC1 and BC2, and no LLC, on receipt of a CONNECT message, containing a BC, the information transfer capability field, of which, does not equal that of BC1 or BC2,* *clears the call with normal call clearing procedures with clearing cause #111 "protocol error unspecified".*	
Cross reference		
Comments	*Receipt of incompatible CONNECT.*	

GTP221_03	***Reference to ETS 300 267-1 [3]:*** *5.5.2.2 c), 5.6.2.2 e)*	***Other relevant reference:***
TSS reference	*NT7V/DEST/BI/GEN/FBA/ST_T*	
Selection criteria	*MC 3.2 OR MC 4.2*	
Test purpose	*Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a SETUP message, containing two BCs, BC1 and BC2, and no LLC, on receipt of a CONNECT message, containing a BC, the information transfer capability field, of which, does not equal that of BC1 or BC2,* *clears the call with normal call clearing procedures with clearing cause #111 "protocol error unspecified".*	
Cross reference		
Comments	*Receipt of incompatible CONNECT.*	

5.3.2.1.1.2 Requirements at the coincident S and T reference point

GTP221_04	***Reference to ETS 300 267-1 [3]:*** *5.5.2.2 a)*	***Other relevant reference:***
TSS reference	*NT7V/DEST/BI/GEN/FBA/ST*	
Selection criteria	*R 3.1 AND MC 3.2*	
Test purpose	*Verify that the IUT, in Idle call state N0,* *is capable of sending a SETUP message containing two BCs, BC1 and BC2, and a single LLC.*	
Cross reference		
Comments	*Sending of syntactically invalid SETUP; the calling user and the IUT allowed fallback.*	

GTP221_05	***Reference to ETS 300 267-1 [3]:*** *5.5.4.2*	***Other relevant reference:***
TSS reference	*NT7V/DEST/BI/GEN/FBA/ST*	
Selection criteria	*R 3.1 AND MC 3.4*	
Test purpose	*Verify that the IUT, in Call Present call state N6, having sent a SETUP message, containing two HLCs, HLC1 and HLC2, on receipt of a CONNECT message, containing a HLC, which is not HLC1 or HLC2,* *passes the received HLC transparently towards the calling user.*	
Cross reference		
Comments		

GTP221_06	***Reference to ETS 300 267-1 [3]:*** *5.5.4.2*	***Other relevant reference:***
TSS reference	*NT7V/DEST/BV/GEN/FBA/ST*	
Selection criteria	*R 3.1 AND MC 3.4*	
Test purpose	*Verify that the IUT, in Call Received call state N7, having sent a SETUP message, containing two HLCs, HLC1 and HLC2, on receipt of a CONNECT message, containing a HLC, which is not HLC1 or HLC2,* *passes the received HLC transparently towards the calling user.*	
Cross reference		
Comments		

GTP221_07	***Reference to ETS 300 267-1 [3]:*** *5.5.4.2*	***Other relevant reference:***
TSS reference	*NT7V/DEST/BV/GEN/FBA/ST*	
Selection criteria	*R 3.1 AND MC 3.4*	
Test purpose	*Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a SETUP message, containing two HLCs, HLC1 and HLC2, on receipt of a CONNECT message, containing a HLC, which is not HLC1 or HLC2,* *passes the received HLC transparently towards the calling user.*	
Cross reference		
Comments		

5.3.2.1.1.3 Requirements for interworking with private ISDNs

GTP221_08	***Reference to ETS 300 267-1 [3]:*** *5.6.2.2 a)*	***Other relevant reference:***
TSS reference	*NT7V/DEST/BI/GEN/FBA/PT*	
Selection criteria	*R 3.2 AND MC 4.2*	
Test purpose	*Verify that the IUT, in Call Present call state N6, having sent a SETUP message, containing two BCs, BC1 and BC2, and no LLC, on receipt of a CONNECT message, not containing a BC,* *assumes that the bearer service or teleservice corresponds to BC1.*	
Cross reference		
Comments	*Receipt of CONNECT (no BC), fallback allowed and occurred.*	

GTP221_09	***Reference to ETS 300 267-1 [3]:*** *5.6.2.2 a)*	***Other relevant reference:***
TSS reference	*NT7V/DEST/BI/GEN/FBA/PT*	
Selection criteria	*R 3.2 AND MC 4.2*	
Test purpose	*Verify that the IUT, in Call Received call state N7, having sent a SETUP message, containing two BCs, BC1 and BC2, and no LLC, on receipt of a CONNECT message, not containing a BC,* *assumes that the bearer service or teleservice corresponds to BC1.*	
Cross reference		
Comments	*Receipt of CONNECT (no BC), fallback allowed and occurred.*	

GTP221_10	***Reference to ETS 300 267-1 [3]:*** *5.6.2.2 a)*	***Other relevant reference:***
TSS reference	*NT7V/DEST/BI/GEN/FBA/PT*	
Selection criteria	*R 3.2 AND MC 4.2*	
Test purpose	*Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a SETUP message, containing two BCs, BC1 and BC2, and no LLC, on receipt of a CONNECT message, not containing a BC,* *assumes that the bearer service or teleservice corresponds to BC1.*	
Cross reference		
Comments	*Receipt of CONNECT (no BC), fallback allowed and occurred.*	

GTP221_11	***Reference to ETS 300 267-1 [3]:*** *5.6.2.2 c)*	***Other relevant reference:***
TSS reference	*NT7V/DEST/BI/GEN/FBA/PT*	
Selection criteria	*R 3.2 AND MC 4.2*	
Test purpose	*Verify that the IUT, in state N0,* *is capable of sending a SETUP message containing two BCs, BC1 and BC2, and a single LLC.*	
Cross reference		
Comments	*Sending of syntactically invalid SETUP; the calling user and the IUT allowed fallback.*	

GTP221_12	***Reference to ETS 300 267-1 [3]:*** *5.6.2.2 e)*	***Other relevant reference:***
TSS reference	*NT7V/DEST/BI/GEN/FBA/PT*	
Selection criteria	*R 3.2 AND MC 4.2*	
Test purpose	*Verify that the IUT, in Call Present call state N6, having sent a SETUP message, containing two BCs, BC1 and BC2, and no LLC, on receipt of a CALL PROCEEDING message, containing a BC, the information transfer capability field, of which, does not equal that of BC1 or BC2,* *clears the call using normal clearing procedures with clearing cause #111 "protocol error, unspecified".*	
Cross reference		
Comments		

GTP221_13	***Reference to ETS 300 267-1 [3]:*** *5.6.2.2 e)*	***Other relevant reference:***
TSS reference	*NT7V/DEST/BI/GEN/FBA/PT*	
Selection criteria	*R 3.2 AND MC 4.2*	
Test purpose	*Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a SETUP message, containing two BCs, BC1 and BC2, and no LLC, on receipt of a PROGRESS message, containing a BC, the information transfer capability field, of which, does not equal that of BC1 or BC2,* *clears the call using normal clearing procedures with clearing cause #111 "protocol error, unspecified".*	
Cross reference		
Comments		

GTP221_14	***Reference to ETS 300 267-1 [3]:*** *5.6.2.2 e)*	***Other relevant reference:***
TSS reference	*NT7V/DEST/BI/GEN/FBA/PT*	
Selection criteria	*R 3.2 AND MC 4.2*	
Test purpose	*Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a SETUP message, containing two BCs, BC1 and BC2, and no LLC, on receipt of an ALERTING message, containing a BC, the information transfer capability field, of which, does not equal that of BC1 or BC2,* *clears the call using normal clearing procedures with clearing cause #111 "protocol error, unspecified".*	
Cross reference		
Comments		

GTP221_15	***Reference to ETS 300 267-1 [3]:*** *5.6.2.2 f)*	***Other relevant reference:***
TSS reference	*NT7V/DEST/BI/GEN/FBA/PT*	
Selection criteria	*R 3.2 AND MC 4.2*	
Test purpose	*Verify that the IUT, in Call Present call state N6, having sent a SETUP message, containing two BCs, BC1 and BC2, and no LLC, on receipt of a CALL PROCEEDING message, containing BC1, but not containing a PI=#5,* *acts as if the PI=#5 was present and handles the call in the normal manner.*	
Cross reference		
Comments		

GTP221_16	***Reference to ETS 300 267-1 [3]:*** *5.6.2.2 f)*	***Other relevant reference:***
TSS reference	*NT7V/DEST/BI/GEN/FBA/PT*	
Selection criteria	*R 3.2 AND MC 4.2*	
Test purpose	*Verify that the IUT, in Call Present call state N6, 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 a PI=#5,* *acts as if the PI=#5 was present and handles the call in the normal manner.*	
Cross reference		
Comments	*Receipt of ALERTING.*	

GTP221_17	***Reference to ETS 300 267-1 [3]:*** *5.6.2.2 f)*	***Other relevant reference:***
TSS reference	*NT7V/DEST/BI/GEN/FBA/PT*	
Selection criteria	*R 3.2 AND MC 4.2*	
Test purpose	*Verify that the IUT, in Call Received call state N7, 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 a PI=#5,* *acts as if the PI=#5 was present and handles the call in the normal manner.*	
Cross reference		
Comments		

GTP221_18	***Reference to ETS 300 267-1 [3]:*** *5.6.2.2 f)*	***Other relevant reference:***
TSS reference	*NT7V/DEST/BI/GEN/FBA/PT*	
Selection criteria	*R 3.2 AND MC 4.2*	
Test purpose	*Verify that the IUT, in the Incoming Call Proceeding call state N9, 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 a PI=#5,* *acts as if the PI=#5 was present and handles the call in the normal manner.*	
Cross reference		
Comments		

GTP221_19	***Reference to ETS 300 267-1 [3]:*** *5.6.2.2 f)*	***Other relevant reference:***
TSS reference	*NT7V/DEST/BI/GEN/FBA/PT*	
Selection criteria	*R 3.2 AND MC 4.2*	
Test purpose	*Verify that the IUT, in the Incoming Call Proceeding call state N9, 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 a PI=#5,* *acts as if the PI=#5 was present and handles the call in the normal manner.*	
Cross reference		
Comments		

GTP221_20	***Reference to ETS 300 267-1 [3]:*** *5.6.2.2 g)*	***Other relevant reference:***
TSS reference	*NT7V/DEST/BI/GEN/FBA/PT*	
Selection criteria	*R 3.2 AND MC 4.2*	
Test purpose	*Verify that the IUT, in Call Present call state N6, having sent a SETUP message, containing two BCs, BC1 and BC2, and no LLC, on receipt of a CALL PROCEEDING message, containing a PI=#5, but not containing a BC,* *assumes that the bearer service or teleservice corresponds to BC1.*	
Cross reference		
Comments		

GTP221_21	***Reference to ETS 300 267-1 [3]:*** *5.6.2.2 g)*	***Other relevant reference:***
TSS reference	*NT7V/DEST/BI/GEN/FBA/PT*	
Selection criteria	*R 3.2 AND MC 4.2*	
Test purpose	*Verify that the IUT, in Call Present call state N6, having sent a SETUP message, containing two BCs, BC1 and BC2, and no LLC, on receipt of a ALERTING message, containing a PI=#5, but not containing a BC,* *assumes that the bearer service or teleservice corresponds to BC1.*	
Cross reference		
Comments		

GTP221_22	***Reference to ETS 300 267-1 [3]:*** *5.6.2.2 g)*	***Other relevant reference:***
TSS reference	*NT7V/DEST/BI/GEN/FBA/PT*	
Selection criteria	*R 3.2 AND MC 4.2*	
Test purpose	*Verify that the IUT, in Call Received call state N7, having sent a SETUP message, containing two BCs, BC1 and BC2, and no LLC, on receipt of a PROGRESS message, containing a PI=#5, but not containing a BC,* *assumes that the bearer service or teleservice corresponds to BC1.*	
Cross reference		
Comments		

GTP221_23	***Reference to ETS 300 267-1 [3]:*** *5.6.2.2 g)*	***Other relevant reference:***
TSS reference	*NT7V/DEST/BI/GEN/FBA/PT*	
Selection criteria	*R 3.2 AND MC 4.2*	
Test purpose	*Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a SETUP message, containing two BCs, BC1 and BC2, and no LLC, on receipt of an ALERTING message, containing a PI=#5, but not containing a BC,* *assumes that the bearer service or teleservice corresponds to BC1.*	
Cross reference		
Comments		

GTP221_24	***Reference to ETS 300 267-1 [3]:*** *5.6.2.2 g)*	***Other relevant reference:***
TSS reference	*NT7V/DEST/BI/GEN/FBA/PT*	
Selection criteria	*R 3.2 AND MC 4.2*	
Test purpose	*Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a SETUP message, containing two BCs, BC1 and BC2, and no LLC, on receipt of a PROGRESS message, containing a PI=#5, but not containing a BC,* *assumes that the bearer service or teleservice corresponds to BC1.*	
Cross reference		
Comments		

GTP221_25	***Reference to ETS 300 267-1 [3]:*** *5.6.4.2 a)*	***Other relevant reference:***
TSS reference	*NT7V/DEST/BI/GEN/FBA/PT*	
Selection criteria	*R 3.2 AND MC 4.4*	
Test purpose	*Verify that the IUT, in Call Present call state N6, having sent a SETUP message, containing two HLCs, HLC1 and HLC2, on receipt of a CONNECT message not containing a HLC,* *assumes that the high layer compatibility is unknown.*	
Cross reference		
Comments		

GTP221_26	***Reference to ETS 300 267-1 [3]:*** *5.6.4.2 a)*	***Other relevant reference:***
TSS reference	*NT7V/DEST/BI/GEN/FBA/PT*	
Selection criteria	*R 3.2 AND MC 4.4*	
Test purpose	*Verify that the IUT, in Call Received call state N7, having sent a SETUP message, containing two HLCs, HLC1 and HLC2, on receipt of a CONNECT message not containing a HLC,* *assumes that the high layer compatibility is unknown.*	
Cross reference		
Comments		

GTP221_27	***Reference to ETS 300 267-1 [3]:*** *5.6.4.2 a)*	***Other relevant reference:***
TSS reference	*NT7V/DEST/BV/GEN/FBA/PT*	
Selection criteria	*R 3.2 AND MC 4.4*	
Test purpose	*Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a SETUP message, containing two HLCs, HLC1 and HLC2, on receipt of a CONNECT message not containing a HLC,* *assumes that the high layer compatibility is unknown.*	
Cross reference		
Comments		

5.3.2.2 Telephony 7 kHz teleservice

5.3.2.2.1 Fallback allowed

TTP221_01	**Reference to ETS 300 267-1 [3]:** 6.6 d), 5.6.2.2 g)	**Other relevant reference:**
TSS reference	NT7V/DEST/BI/TL7/FBA	
Selection criteria	R 1.1 AND R 3.2	
Test purpose	Verify that the IUT, in Call Present call state N6, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a CALL PROCEEDING message, containing a PI=#5 but not containing a BC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Incoming call proceeding call state N9.	
Cross reference	Related GTP: GTP221_20	
Comments	Fallback was allowed and occurred in the private ISDN.	

TTP221_02	**Reference to ETS 300 267-1 [3]:** 6.6 d), 5.6.2.2 g)	**Other relevant reference:**
TSS reference	NT7V/DEST/BI/TL7/FBA	
Selection criteria	R 1.1 AND R 3.2	
Test purpose	Verify that the IUT, in Call Present call state N6, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of an ALERTING message, containing a PI=#5 but not containing a BC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Call received call state N7.	
Cross reference	Related GTP: GTP221_21.	
Comments	Fallback was allowed and occurred in the private ISDN.	

TTP221_03	**Reference to ETS 300 267-1 [3]:** 6.6 d), 5.6.2.2 g)	**Other relevant reference:**
TSS reference	NT7V/DEST/BI/TL7/FBA	
Selection criteria	R 1.1 AND R 3.2	
Test purpose	Verify that the IUT, in Call Received call state N7, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a PROGRESS message, containing a PI=#5 but not containing a BC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and remains in the same state.	
Cross reference	Related GTP: GTP221_22.	
Comments	Fallback was allowed and occurred in the private ISDN.	

TTP221_04	**Reference to ETS 300 267-1 [3]:** 6.6 d), 5.6.2.2 g)	**Other relevant reference:**
TSS reference	NT7V/DEST/BI/TL7/FBA	
Selection criteria	R 1.1 AND R 3.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of an ALERTING message, containing a PI=#5 but not containing a BC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Call received call state N7.	
Cross reference	Related GTP: GTP221_23.	
Comments	Fallback was allowed and occurred in the private ISDN.	

TTP221_05	**Reference to ETS 300 267-1 [3]:** 6.6 d), 5.6.2.2 g)	**Other relevant reference:**
TSS reference	NT7V/DEST/BI/TL7/FBA	
Selection criteria	R 1.1 AND R 3.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a telephony 7 kHz fallback allowed SETUP message, on receipt of a PROGRESS message, containing a PI=#5 but not containing a BC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and remains in the same call state.	
Cross reference	Related GTP: GTP221_24.	
Comments	Fallback was allowed and occurred in the private ISDN.	

5.3.2.3 Videotelephony teleservice

5.3.2.3.1 Fallback allowed

VTP221_01	**Reference to ETS 300 267-1 [3]:** 7.6 c)	**Other relevant reference:**
TSS reference	NT7V/DEST/BI/VTL/FBA	
Selection criteria	R 1.2 AND R 3.2	
Test purpose	Verify that the IUT, in Call Present call state N6, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC=UDI/TA, but not containing a HLC, assumes that the resultant teleservice is unknown, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference	Related GTP: GTP221_25.	
Comments		

VTP221_02	**Reference to ETS 300 267-1 [3]:** 7.6 c)	**Other relevant reference:**
TSS reference	NT7V/DEST/BI/VTL/FBA	
Selection criteria	R 1.2 AND R 3.2	
Test purpose	Verify that the IUT, in Call Received call state N7, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC=UDI/TA, but not containing a HLC, assumes that the resultant teleservice is unknown, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference	Related GTP: GTP221_26.	
Comments		

VTP221_03	**Reference to ETS 300 267-1 [3]:** 7.6 c)	**Other relevant reference:**
TSS reference	NT7V/DEST/BI/VTL/FBA	
Selection criteria	R 1.2 AND R 3.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing a BC=UDI/TA, but not containing a HLC, assumes that the resultant teleservice is unknown, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference	Related GTP: GTP221_27.	
Comments		

VTP221_04	**Reference to ETS 300 267-1 [3]:** 5.6.2.2 g), 7.6 d)	**Other relevant reference:**
TSS reference	NT7V/DEST/BI/VTL/FBA	
Selection criteria	R 1.2 AND R 3.2	
Test purpose	Verify that the IUT, in Call Present call state N6, having sent a videotelephony fallback allowed SETUP message, on receipt of a CALL PROCEEDING message, containing a PI=#5 but not containing either a BC or a HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Incoming call proceeding call state N9.	
Cross reference	Related GTP: GTP221_20.	
Comments	Fallback was allowed and occurred in the private ISDN.	

VTP221_05	**Reference to ETS 300 267-1 [3]:** 5.6.2.2 g), 7.6 d)	**Other relevant reference:**
TSS reference	NT7V/DEST/BI/VTL/FBA	
Selection criteria	R 1.2 AND R 3.2	
Test purpose	Verify that the IUT, in Call Present call state N6, having sent a videotelephony fallback allowed SETUP message, on receipt of an ALERTING message, containing a PI=#5 but not containing either a BC or a HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Call received call state N7.	
Cross reference	Related GTP: GTP221_21.	
Comments	Fallback was allowed and occurred in the private ISDN.	

VTP221_06	**Reference to ETS 300 267-1 [3]:** 5.6.2.2 g), 7.6 d)	**Other relevant reference:**
TSS reference	NT7V/DEST/BI/VTL/FBA	
Selection criteria	R 1.2 AND R 3.2	
Test purpose	Verify that the IUT, in Call Received call state N7, having sent a videotelephony fallback allowed SETUP message, on receipt of a PROGRESS message, containing a PI=#5 but not containing either a BC or a HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and remains in the same call state.	
Cross reference	Related GTP: GTP221_22.	
Comments	Fallback was allowed and occurred in the private ISDN.	

VTP221_07	**Reference to ETS 300 267-1 [3]:** 5.6.2.2 g), 7.6 d)	**Other relevant reference:**
TSS reference	NT7V/DEST/BI/VTL/FBA	
Selection criteria	R 1.2 AND R 3.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videotelephony fallback allowed SETUP message, on receipt of an ALERTING message, containing a PI=#5 but not containing either a BC or a HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Call received call state N7.	
Cross reference	Related GTP: GTP221_23.	
Comments	Fallback was allowed and occurred in the private ISDN.	

VTP221_08	**Reference to ETS 300 267-1 [3]:** 5.6.2.2 g), 7.6 d),	**Other relevant reference:**
TSS reference	NT7V/DEST/BI/VTL/FBA	
Selection criteria	R 1.2 AND R 3.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videotelephony fallback allowed SETUP message, on receipt of a PROGRESS message, containing a PI=#5 but not containing either a BC or a HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and remains in the same call state.	
Cross reference	Related GTP: GTP221_24.	
Comments	Fallback was allowed and occurred in the private ISDN.	

VTP221_09	**Reference to ETS 300 267-1 [3]:** 7.6 d)	**Other relevant reference:**
TSS reference	NT7V/DEST/BI/VTL/FBA	
Selection criteria	R 1.2 AND R 3.2	
Test purpose	Verify that the IUT, in Call Present call state N6, having sent a videotelephony fallback allowed SETUP message, on receipt of a CALL PROCEEDING message, containing a PI=#5, a BC=speech and no HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Incoming call proceeding call state N9.	
Cross reference		
Comments	Fallback was allowed and occurred in the private ISDN.	

VTP221_10	**Reference to ETS 300 267-1 [3]:** 7.6 d)	**Other relevant reference:**
TSS reference	NT7V/DEST/BI/VTL/FBA	
Selection criteria	R 1.2 AND R 3.2	
Test purpose	Verify that the IUT, in Call Present call state N6, having sent a videotelephony fallback allowed SETUP message, on receipt of an ALERTING message, containing a PI=#5, a BC=speech and no HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Call received call state N7.	
Cross reference		
Comments	Fallback was allowed and occurred in the private ISDN.	

VTP221_11	**Reference to ETS 300 267-1 [3]:** 7.6 d)	**Other relevant reference:**
TSS reference	NT7V/DEST/BI/VTL/FBA	
Selection criteria	R 1.2 AND R 3.2	
Test purpose	Verify that the IUT, in Call Received call state N7, having sent a videotelephony fallback allowed SETUP message, on receipt of a PROGRESS message, containing a PI=#5, a BC=speech and no HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and remains in the same call state.	
Cross reference		
Comments	Fallback was allowed and occurred in the private ISDN.	

VTP221_12	**Reference to ETS 300 267-1 [3]:** 7.6 d), 5.6.2.2 g)	**Other relevant reference:**
TSS reference	NT7V/DEST/BI/VTL/FBA	
Selection criteria	R 1.2 AND R 3.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videotelephony fallback allowed SETUP message, on receipt of an ALERTING message, containing a PI=#5, a BC=speech and no HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Call received call state N7.	
Cross reference		
Comments	Fallback was allowed and occurred in the private ISDN.	

VTP221_13	**Reference to ETS 300 267-1 [3]:** 7.6 d), 5.6.2.2 g)	**Other relevant reference:**
TSS reference	NT7V/DEST/BI/VTL/FBA	
Selection criteria	R 1.2 AND R 3.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videotelephony fallback allowed SETUP message, on receipt of a PROGRESS message, containing a PI=#5, a BC=speech and no HLC, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and remains in the same call state.	
Cross reference		
Comments	Fallback was allowed and occurred in the private ISDN.	

VTP221_14	**Reference to ETS 300 267-1 [3]:** 7.6 d)	**Other relevant reference:**
TSS reference	NT7V/DEST/BI/VTL/FBA	
Selection criteria	R 1.2 AND R 3.2	
Test purpose	Verify that the IUT, in Call Present call state N6, having sent a videotelephony fallback allowed SETUP message, on receipt of a CALL PROCEEDING message, containing a PI=#5, a BC=UDI/TA and no HLC, assumes that the resultant teleservice is unknown and enters the Incoming call proceeding call state N9.	
Cross reference		
Comments	Fallback was allowed and occurred in the private ISDN.	

VTP221_15	**Reference to ETS 300 267-1 [3]:** 7.6 d)	**Other relevant reference:**
TSS reference	NT7V/DEST/BI/VTL/FBA	
Selection criteria	R 1.2 AND R 3.2	
Test purpose	Verify that the IUT, in Call Present call state N6, having sent a videotelephony fallback allowed SETUP message, on receipt of an ALERTING message, containing a PI=#5, a BC=UDI/TA and no HLC, assumes that the resultant teleservice is unknown and enters the Call received call state N7.	
Cross reference		
Comments	Fallback was allowed and occurred in the private ISDN.	

VTP221_16	**Reference to ETS 300 267-1 [3]:** 7.6 d)	**Other relevant reference:**
TSS reference	NT7V/DEST/BI/VTL/FBA	
Selection criteria	R 1.2 AND R 3.2	
Test purpose	Verify that the IUT, in Call Received call state N7, having sent a videotelephony fallback allowed SETUP message, on receipt of a PROGRESS message, containing a PI=#5, a BC=UDI/TA and no HLC, assumes that the resultant teleservice is unknown and remains in the same call state.	
Cross reference		
Comments	Fallback was allowed and occurred in the private ISDN.	

VTP221_17	**Reference to ETS 300 267-1 [3]:** 7.6 d)	**Other relevant reference:**
TSS reference	NT7V/DEST/BI/VTL/FBA	
Selection criteria	R 1.2 AND R 3.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videotelephony fallback allowed SETUP message, on receipt of an ALERTING message, containing a PI=#5, a BC=UDI/TA and no HLC, assumes that the resultant teleservice is unknown and enters the Call received call state N7.	
Cross reference		
Comments	Fallback was allowed and occurred in the private ISDN.	

VTP221_18	**Reference to ETS 300 267-1 [3]:** 7.6 d)	**Other relevant reference:**
TSS reference	NT7V/DEST/BI/VTL/FBA	
Selection criteria	R 1.2 AND R 3.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videotelephony fallback allowed SETUP message, on receipt of a PROGRESS message, containing a PI=#5, a BC=UDI/TA and no HLC, assumes that the resultant teleservice is unknown and remains in the same call state.	
Cross reference		
Comments	Fallback was allowed and occurred in the private ISDN.	

VTP221_19	**Reference to ETS 300 267-1 [3]:** 7.6 d)	**Other relevant reference:**
TSS reference	NT7V/DEST/BI/VTL/FBA	
Selection criteria	R 1.2 AND R 3.2	
Test purpose	Verify that the IUT, in the Call present call state N6, having sent a videotelephony fallback allowed SETUP message, on receipt of an ALERTing message, containing a PI=#5, a BC=speech and HLC=videotelephony_ic, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Call received call state N7.	
Cross reference		
Comments	Fallback was allowed and occurred in the private ISDN.	

VTP221_20	**Reference to ETS 300 267-1 [3]:** 7.6 d)	**Other relevant reference:**
TSS reference	NT7V/DEST/BI/VTL/FBA	
Selection criteria	R 1.2 AND R 3.2	
Test purpose	Verify that the IUT, in the Call received call state N7, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing a PI=#5, a BC=speech and HLC=videotelephony_ic, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments	Fallback was allowed and occurred in the private ISDN.	

VTP221_21	**Reference to ETS 300 267-1 [3]:** 7.6 d)	**Other relevant reference:**
TSS reference	NT7V/DEST/BI/VTL/FBA	
Selection criteria	R 1.2 AND R 3.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videotelephony fallback allowed SETUP message, on receipt of a PROGRESS message, containing a PI=#5, a BC=speech and HLC=videotelephony_ic, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and remains in the same call state.	
Cross reference		
Comments	Fallback was allowed and occurred in the private ISDN.	

VTP221_22	**Reference to ETS 300 267-1 [3]:** 7.6 d)	**Other relevant reference:**
TSS reference	NT7V/DEST/BI/VTL/FBA	
Selection criteria	R 1.2 AND R 3.2	
Test purpose	Verify that the IUT, in the Call present call state N6, having sent a videotelephony fallback allowed SETUP message, on receipt of a CALL PROCEEDING message, containing a PI=#5, a BC=speech and HLC=telephony, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Incoming call proceeding call state N9.	
Cross reference		
Comments	Fallback was allowed and occurred in the private ISDN.	

VTP221_23	**Reference to ETS 300 267-1 [3]:** 7.6 d)	**Other relevant reference:**
TSS reference	NT7V/DEST/BI/VTL/FBA	
Selection criteria	R 1.2 AND R 3.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videotelephony fallback allowed SETUP message, on receipt of an ALERTing message, containing a PI=#5, a BC=speech and HLC=telephony, assumes that fallback to the telephony 3,1 kHz teleservice has occurred and enters the Call received call state N7.	
Cross reference		
Comments	Fallback was allowed and occurred in the private ISDN.	

VTP221_24	**Reference to ETS 300 267-1 [3]:** 7.6 d)	**Other relevant reference:**
TSS reference	NT7V/DEST/BI/VTL/FBA	
Selection criteria	R 1.2 AND R 3.2	
Test purpose	Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a videotelephony fallback allowed SETUP message, on receipt of a CONNECT message, containing a PI=#5, a BC=speech and HLC=telephony, assumes that fallback to the telephony 3,1 kHz teleservice has occurred, responds with a CONNECT ACKNOWLEDGE and enters the Active call state N10.	
Cross reference		
Comments	Fallback was allowed and occurred in the private ISDN.	

5.3.3 Inopportune behaviour

5.3.3.1 Generic requirements

5.3.3.1.1 Fallback allowed

GTP231_01	***Reference to ETS 300 267-1 [3]:*** *5.6.2.2 b)*	***Other relevant reference:***
TSS reference	*NT7V/DEST/BO/GEN/FBA*	
Selection criteria	*R 3.2 AND MC 4.2*	
Test purpose	*Verify that the IUT, in Call Present call state N6, having sent a SETUP message, containing two BCs, BC1 and BC2, and no LLC, on receipt of a PI=#1, subsequent to receiving a PI=#5,* *assumes fallback to a bearer service category of circuit mode 64 kbit/s 8 kHz structured usable for 3,1 kHz audio information transfer.*	
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.*	

GTP231_02	***Reference to ETS 300 267-1 [3]:*** *5.6.2.2 b)*	***Other relevant reference:***
TSS reference	*NT7V/DEST/BO/GEN/FBA*	
Selection criteria	*R 3.2 AND MC 4.2*	
Test purpose	*Verify that the IUT, in Call Received call state N7, having sent a SETUP message, containing two BCs, BC1 and BC2, and no LLC, on receipt of a PI=#2, subsequent to receiving a PI=#5,* *assumes fallback to a bearer service category of circuit mode 64 kbit/s 8 kHz structured usable for 3,1 kHz audio information transfer.*	
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.*	

GTP231_03	***Reference to ETS 300 267-1 [3]:*** *5.6.2.2 b)*	***Other relevant reference:***
TSS reference	*NT7V/DEST/BO/GEN/FBA*	
Selection criteria	*R 3.2 AND MC 4.2*	
Test purpose	*Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a SETUP message, containing two BCs, BC1 and BC2, and no LLC, on receipt of a PI=#1, subsequent to receiving a PI=#5,* *assumes fallback to a bearer service category of circuit mode 64 kbit/s 8 kHz structured usable for 3,1 kHz audio information transfer.*	
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.*	

GTP231_04	***Reference to ETS 300 267-1 [3]:*** *5.6.4.2 b)*	***Other relevant reference:***
TSS reference	*NT7V/DEST/BO/GEN/FBA*	
Selection criteria	*R 3.2 AND MC 4.4*	
Test purpose	*Verify that the IUT, in Call Present call state N6, having sent a SETUP message, containing two HLCs, HLC1 and HLC2, on receipt of a PI=#1 or PI=#2, subsequent to receiving a PI=#5,* *assumes fallback to a bearer service category of circuit mode 64 kbit/s 8 kHz structured usable for 3,1 kHz audio information transfer.*	
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.*	

GTP231_05	***Reference to ETS 300 267-1 [3]:*** *5.6.4.2 b)*	***Other relevant reference:***
TSS reference	*NT7V/DEST/BO/GEN/FBA*	
Selection criteria	*R 3.2 AND MC 4.4*	
Test purpose	*Verify that the IUT, in Call Received call state N7, having sent a SETUP message, containing two HLCs, HLC1 and HLC2, on receipt of a PI=#1 or PI=#2, subsequent to receiving a PI=#5,* *assumes fallback to a bearer service category of circuit mode 64 kbit/s 8 kHz structured usable for 3,1 kHz audio information transfer.*	
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.*	

GTP231_06	***Reference to ETS 300 267-1 [3]:*** *5.6.4.2 b)*	***Other relevant reference:***
TSS reference	*NT7V/DEST/BO/GEN/FBA*	
Selection criteria	*R 3.2 AND MC 4.4*	
Test purpose	*Verify that the IUT, in the Incoming Call Proceeding call state N9, having sent a SETUP message, containing two HLCs, HLC1 and HLC2, on receipt of a PI=#1 or PI=#2, subsequent to receiving a PI=#5,* *assumes fallback to a bearer service category of circuit mode 64 kbit/s 8 kHz structured usable for 3,1 kHz audio information transfer.*	
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.*	

6 Compliance

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

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

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

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

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

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

Annex A (informative): Cross references: Generic, telephony 7 kHz 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_03	VTP111_03 & 05
GTP111_02	TTP111_04	VTP111_04 & 06
GTP111_03	TTP111_05	VTP111_07
GTP111_04	TTP111_06	VTP111_08 & 09
GTP111_05	TTP111_09	VTP111_11
GTP111_06		
GTP111_07		VTP111_03
GTP111_08		VTP111_04
GTP111_09		VTP111_05 & 07
GTP111_10		VTP111_06 & 08
GTP111_11		VTP111_11, VTP111_12
GTP111_12		VTP111_11, VTP111_12
GTP111_13		
GTP111_14	TTP111_01	
GTP111_15	TTP111_02	
GTP111_16		VTP111_01
GTP111_17		VTP111_02
GTP111_18		
GTP111_19	TTP111_10	
GTP111_20	TTP111_11	
GTP111_21	TTP111_12	
GTP111_22	TTP111_13	
GTP111_23		VTP111_13
GTP111_24		VTP111_14
GTP111_25		VTP111_15
GTP111_26		VTP111_16
GTP112_01	TTP112_01	
GTP112_02	TTP112_02	
GTP112_03	TTP112_03	
GTP112_04	TTP112_04	
GTP112_05		VTP112_01
GTP112_06		VTP112_02
GTP112_07		VTP112_03
GTP112_08		VTP112_04
GTP113_01	TTP113_01	VTP113_01
GTP113_02		VTP113_02
GTP121_01		
GTP211_01	TTP211_01	VTP211_01
GTP211_02		VTP211_01
GTP211_03		
GTP211_04		
GTP211_05		
GTP211_06		
GTP211_07		

(continued)

Table A.1 (continued)

Generic TP	Telephony 7 kHz TP	Videotelephony TP
GTP211_08	TTP211_11	
GTP211_09	TTP211_12	
GTP211_10		VTP211_15
GTP211_11		VTP211_16
GTP211_12	TTP211_02	VTP211_02
GTP211_13	TTP211_03	VTP211_03, VTP211_17
GTP211_14	TTP211_04	VTP211_04, VTP211_18
GTP211_15	TTP211_08	VTP211_08
GTP211_16	TTP211_09	VTP211_09, VTP211_11
GTP211_17	TTP211_10	VTP211_10, VTP211_12
GTP211_18	TTP211_05	VTP211_05
GTP211_19	TTP211_06	VTP211_06, VTP211_13
GTP211_20	TTP211_20	VTP211_07, VTP211_14
GTP211_21		
GTP211_22		
GTP211_23		
GTP211_24		VTP211_19
GTP211_25		VTP211_20
GTP211_26		VTP211_21
GTP211_27		VTP211_08
GTP211_28		VTP211_09
GTP211_29		VTP211_10
GTP211_30		
GTP211_31		VTP211_13, VTP211_11
GTP211_32		VTP211_12, VTP211_14
GTP211_33		VTP211_05
GTP211_34		VTP211_06
GTP211_35		VTP211_07
GTP211_36		
GTP212_01		
GTP212_02		
GTP212_03		
GTP212_04	TTP212_02	
GTP212_05	TTP212_03	
GTP212_06		VTP212_02
GTP212_07		VTP212_03
GTP213_01	TTP213_01	VTP213_02
GTP213_02		VTP213_03
GTP221_01		
GTP221_02		
GTP221_03		
GTP221_04		
GTP221_05		
GTP221_06		
GTP221_07		
GTP221_08	TTP211_02	VTP211_02
GTP221_09	TTP211_03	VTP211_03
GTP221_10	TTP211_04	VTP211_04
GTP221_11		
GTP221_12		
GTP221_13		
GTP221_14		
GTP221_15		

(continued)

Table A.1 (concluded)

Generic TP	Telephony 7 kHz TP	Videotelephony TP
GTP221_16		
GTP221_17		
GTP221_18		
GTP221_19		
GTP221_20	TTP221_01	VTP221_04
GTP221_21	TTP221_02	VTP221_05
GTP221_22	TTP221_03	VTP221_06
GTP221_23	TTP221_04	VTP221_07
GTP221_24	TTP221_05	VTP221_08
GTP221_25		VTP221_01
GTP221_26		VTP221_02
GTP221_27		VTP221_03
GTP231_01		
GTP231_02		
GTP231_03		
GTP231_05		
GTP231_06		
GTP231_07		

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 TTP112_01 with VTP112_01).

Table A.2

Telephony 7 kHz	Videotelephony
TTP111_01	VTP111_01
TTP111_02	VTP111_02
TTP111_03	VTP111_03 & 05
TTP111_04	VTP111_04 & 06
TTP111_05	VTP111_07
TTP111_06	VTP111_08 & 09
TTP111_07	
TTP111_08	VTP111_10
TTP111_09	VTP111_11
	VTP111_12
TTP111_10	VTP111_13
TTP111_11	VTP111_14
TTP111_12	VTP111_15
TTP111_13	VTP111_16
TTP111_14	VTP111_17
TTP111_15	VTP111_18
TTP112_01	VTP112_01
TTP112_02	VTP112_02
TTP112_03	VTP112_03
TTP112_04	VTP112_04
TTP112_05	VTP112_05
TTP112_06	VTP112_06
TTP113_01	VTP113_01
	VTP113_02
TTP211_01	VTP211_01
TTP211_02	VTP211_02
TTP211_03	VTP211_03
TTP211_04	VTP211_04
TTP211_05	VTP211_05
TTP211_06	VTP211_06
TTP211_07	VTP211_07
TTP211_08	VTP211_08
TTP211_09	VTP211_09
TTP211_10	VTP211_10
	VTP211_11
	VTP211_12
	VTP211_13
	VTP211_14
TTP211_12	VTP211_16
	VTP211_17
	VTP211_18
	VTP211_19

(continued)

Table A.2 (concluded)

Telephony 7 kHz	Videotelephony
	VTP211_20
	VTP211_21
	VTP211_22
	VTP211_23
	VTP211_24
TTP211_13	VTP211_25
TTP211_14	VTP211_26
TTP211_15	
TTP211_16	
TTP211_17	
TTP211_18	
	VTP211_27
	VTP211_28
	VTP211_29
	VTP211_30
TTP212_01	VTP212_01
TTP212_02	VTP212_02
TTP212_03	VTP212_03
	VTP213_01
TTP213_01	VTP213_02
	VTP213_03
	VTP221_01
	VTP221_02
	VTP221_03
TTP221_01	VTP221_04
TTP221_02	VTP221_05
TTP221_03	VTP221_06
TTP221_04	VTP221_07
TTP221_05	VTP221_08
	VTP221_09
	VTP221_10
	VTP221_11
	VTP221_12
	VTP221_13
	VTP221_14
	VTP221_15
	VTP221_16
	VTP221_17
	VTP221_18
	VTP221_19
	VTP221_20
	VTP221_21
	VTP221_22
	VTP221_23
	VTP221_24

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