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Digital Subscriber Signalling System No. one (DSS1) protocol;
Part 5: Test Suite Structure and Test Purposes (TSS&TP)
specification for the network

#### **ETSI**

European Telecommunications Standards Institute

#### **ETSI Secretariat**

Postal address: F-06921 Sophia Antipolis CEDEX - FRANCE

Office address: 650 Route des Lucioles - Sophia Antipolis - Valbonne - FRANCE

Internet: secretariat@etsi.fr - http://www.etsi.fr - http://www.etsi.org

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

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ETS 300 267-5: A	April 1998			

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#### **Contents**

Forev	vord					5
Introd	luction					5
1	Scope					7
2	Normativ	ve reference	es			7
3	Definition					
	3.1	Definitions				8
	3.2	Abbreviation	ons			9
4	Test Suit	te Structure	(TSS)			10
	4.1					
	4.2					
	4.3					
	4.4					
	4.5					
	4.6	Sixiii lesi (	group iever			! !
5						
	5.1					
	5.2	-				
		5.2.1				
			5.2.1.1	5.2.1.1.1	mentsFallback allowed	
				5.2.1.1.1	Fallback not allowed	
				5.2.1.1.3	Connection management	
			5.2.1.2		z teleservice	
			0.2.1.2	5.2.1.2.1	Fallback allowed	
				5.2.1.2.2	Fallback not allowed	
				5.2.1.2.3	Connection management	
			5.2.1.3	Videotelephony	teleservice	
				5.2.1.3.1	Fallback allowed	
				5.2.1.3.2	Fallback not allowed	
				5.2.1.3.3	Connection management	
		5.2.2				
			5.2.2.1		ments	36
	E 2	Destination	a interfece	5.2.2.1.1	Fallback allowed	
	5.3	5.3.1				
		3.3.1	5.3.1.1		ments	
			0.0.1.1	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	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	4.4
				52112	private ISDNs Fallback not allowed	
				5.3.1.1.2 5.3.1.1.3	Connection management	
			5.3.1.2		z teleservicez	
			0.0.1.2	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	47

			5.3.1.2.1.2	Requirements for interworking with	
				private ISDNs	
			5.3.1.2.2	Fallback not allowed	
			5.3.1.2.3	Connection management	
		5.3.1.3		/ teleservice	
			5.3.1.3.1	Fallback allowed	
			5.3.1.3.1.1	Requirements at the coincident S ar	nd
				T reference point or for interworking	l
				with private ISDNs	52
			5.3.1.3.1.2	Requirements at the coincident S ar	
				T reference point	
			5.3.1.3.1.3	Requirements for interworking with	
				private ISDNs	59
			5.3.1.3.2	Fallback not allowed	
			5.3.1.3.3	Connection management	
	5.3.2	Invalid beha			
	0.0.2	5.3.2.1		ements	
		0.0.2.1	5.3.2.1.1	Fallback allowed	
			5.3.2.1.1.1	Requirements at the coincident S ar	
			0.0.2.1.1.1	T reference point or for interworking	
				with private ISDNs	
			5.3.2.1.1.2	Requirements at the coincident S ar	
			0.3.2.1.1.2		
			5.3.2.1.1.3	T reference point	63
			3.3.2.1.1.3	Requirements for interworking with	C 4
		5000	Talanhan, 7 b	private ISDNs	
		5.3.2.2		dz teleservice	
		5000	5.3.2.2.1	Fallback allowed	
		5.3.2.3		teleservice	
			5.3.2.3.1	Fallback allowed	
	5.3.3				
		5.3.3.1		ements	
			5.3.3.1.1	Fallback allowed	76
6	Compliance				78
Anne	x A (informative):			ony 7 kHz and videotelephony teleservice	
		test purposes			79
A.1	Generic test purpo	ses to telephony	7 kHz and videote	lephony teleservices test purposes	79
A.2	Telephony 7 kHz to	o videotelephony	teleservices test p	ourposes	82
Histor	ry				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	
Date of latest announcement of this ETS (doa):	31 July 1998	
Date of latest publication of new National Standard or endorsement of this ETS (dop/e):	31 January 1999	
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.

Page 6

ETS 300 267-5: April 1998

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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

[8]

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.

	Total to appropri
[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".

ITU-T Recommendation I.411 (1993):

Reference configurations".

"ISDN

user-network

interfaces

[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
Pl 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;

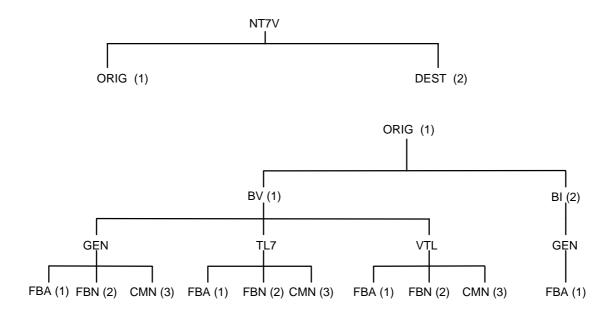
CMN Connection MaNagement: this group includes all other cases which do not test the response to or the sending of a fallback allowed or a fallback not allowed SETUP message. As a consequence, the clearing of a call and the establishment of a second connection for videotelephony is tested here.

#### 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.



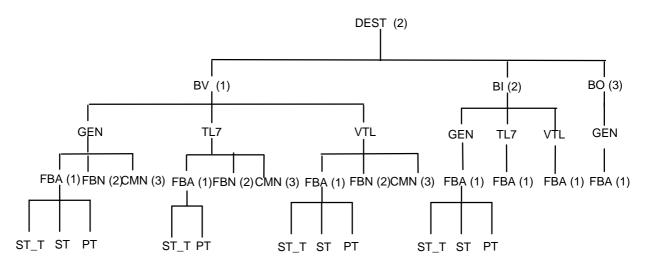


Figure 1: Test suite structure

#### 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>&lt;</requirement>	<requirement><nnn>_<nn></nn></nnn></requirement>			
<requirement></requirement>	GTP TTP VTP	generic protocol requirement telephony 7 kHz requirement videotelephony requirement		
<nnn></nnn>	1st digit 2nd digit 3rd digit	<ul><li>1 Originating Interface; 2 Destination Interface</li><li>1 Valid; 2 Invalid; 3 Inopportune</li><li>1 Fallback Allowed; 2 Fallback Not Allowed; 3 Connection Management</li></ul>		
<nn></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.

Page 13

ETS 300 267-5: April 1998

# 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]:	Other relevant reference:		
	5.5.1.1, 5.6.1			
TSS reference	NT7V/ORIG/BV/GEN/FBA	NT7V/ORIG/BV/GEN/FBA		
Selection criteria	MC 3.1 OR MC 4.1	MC 3.1 OR MC 4.1		
Test purpose	SETUP message, containing two BCs	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	allowed; the two BCs are included in t	pt of a SETUP, fallback from BC2 to BC1 the SETUP message in ascending order of to BC1: fallback did not occur either within		

GTP111_02	Reference to ETS 300 267-1 [3]:	Other relevant reference:		
	<i>5.5.1.1, 5.6.1</i>			
TSS reference	NT7V/ORIG/BV/GEN/FBA	NT7V/ORIG/BV/GEN/FBA		
Selection criteria	MC 3.1 OR MC 4.1	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	allowed; the two BCs are included in th	t of a SETUP, fallback from BC2 to BC1 e SETUP message in ascending order of p BC1: fallback did not occur either within		

GTP111_03	Reference to ETS 300 267-1 [3]:	Other relevant reference:		
	5.5.1.1, 5.6.1			
TSS reference	NT7V/ORIG/BV/GEN/FBA			
Selection criteria	MC 3.1 OR MC 4.1	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 occur	red, to BC1, at the destination user.		

GTP111_04	Reference to ETS 300 267-1 [3]:	Other relevant reference:	
	5.5.1.1, 5.6.1		
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 occurre	d, 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]:	Other relevant reference:
	5.5.1.1, 5.6.1	
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]:	Other relevant reference:	
	5.5.3.1, 5.6.3		
TSS reference	NT7V/ORIG/BV/GEN/FBA	NT7V/ORIG/BV/GEN/FBA	
Selection criteria	MC 3.3 OR MC 4.3	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]:	Other relevant reference:
	5.5.3.1, 5.6.3	
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]:	Other relevant reference:
	5.5.3.1, 5.6.3	
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		Other relevant reference:
	5.5.3.1, 5.6.3	
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	d, to HLC1, at the destination user.

GTP111_11	Reference to ETS 300 267-1 [3]:	Other relevant reference:	
	5.5.3.1, 5.6.3		
TSS reference	NT7V/ORIG/BV/GEN/FBA		
Selection criteria	MC 3.3 OR MC 4.3	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]:	Other relevant reference:
	5.5.3.1, 5.6.3	
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, PROC to HLC1, within the IUT.	GRESS or ALERTING: fallback occurred,

GTP111_13	Reference to ETS 300 267-1 [3]:	Other relevant reference:	
	5.5.3.1, 5.6.3		
TSS reference	NT7V/ORIG/BV/GEN/FBA	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]:	Other relevant reference:
	5.5.5.1, 5.6.5.1	
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 of BC2.	optional subscription check based on

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 of BC2.	ptional subscription check based on

GTP111_16	Reference to ETS 300 267-1 [3]:	Other relevant reference:	
	<i>5.5.5.1, 5.6.5.1</i>		
TSS reference	NT7V/ORIG/BV/GEN/FBA		
Selection criteria	(MC 3.1 AND MC 3.3) OR (MC 4.1 AND	(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 BC2 and HLC2.	optional subscription check based on	

GTP111_17	Reference to ETS 300 267-1 [3]:	Other relevant reference:
	5.5.5.1, 5.6.5.1	
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]:	Other relevant reference:	
	5.5.5.1, 5.6.5.1		
TSS reference	NT7V/ORIG/BV/GEN/FBA		
Selection criteria	(MC 3.1 AND MC 3.3) OR (MC 4.1 AN	(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]:	Other relevant reference:
	5.5.7, 5.6.7	ETS 300 102-1 [1] 5.3.4.1
TSS reference	NT7V/ORIG/BV/GEN/FBA	
Selection criteria	SC 5.1	
Test purpose	message, containing two BCs, BC1 and no LLC, is capable of sending a DISC of simultaneously providing in-	ng call state N2, having received a SETUP and BC2, with one of them set to UDI/TA, ONNECT message containing a PI=#8 and band tones and announcement in a 3,1 kHz CITT Recommendation G.711 [6] A-law.
Cross reference		
Comments		·

GTP111_20	<b>Reference to ETS 300 267-1 [3]:</b> 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	210 000 102 1 [1] 0.0.4.1
Selection criteria	SC 5.1	
Test purpose	SETUP message, containing two BCs, UDI/TA, and no LLC, is capable of sending a DISCON of simultaneously providing in-bal	oceeding call state N3, having received a BC1 and BC2, with one of them set to INECT message containing a PI=#8 and and tones and announcement in a 3,1 kHz TT Recommendation G.711 [6] A-law.
Cross reference		_
Comments		

GTP111_21	Reference to ETS 300 267-1 [3]:	Other relevant reference:	
	5.5.7, 5.6.7	ETS 300 102-1 [1] 5.1.3	
TSS reference	NT7V/ORIG/BV/GEN/FBA		
Selection criteria	SC 5.1	SC 5.1	
Test purpose	containing two BCs, BC1 and BC2, which is but not containing any called number sends a SETUP ACKNOWLE simultaneously providing in-bases.	ate N0, on receipt of a SETUP message with one of them set to UDI/TA, and no LLC, information, information, information and and of and tones and announcement in a 3,1 kHz in Tecommendation 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	270 000 102 1 [1] 6.1
Selection criteria	SC 5.1	
Test purpose	containing two BCs, BC1 and BC2, with a sending complete indication, is capable of sending a PRO PROCEEDING message, conta	IO, having received a SETUP message, one of them set to UDI/TA, no LLC with GRESS or an ALERTING or a CALL ining a PI=#8, and of simultaneously incement in a 3,1 kHz mode, encoded ation G.711 [6] A-law.
Cross reference		•
Comments		

GTP111_23	Reference to ETS 300 267-1 [3]:	Other relevant reference:
	5.5.7, 5.6.7	ETS 300 102-1 [1] 5.3.4.1
TSS reference	NT7V/ORIG/BV/GEN/FBA	
Selection criteria	SC 5.1	
, ,	message, containing two BCs, BC1 and no LLC, and two HLCs, HLC1 and HLC2 is capable of sending a DISCON of simultaneously providing in-bar	call state N2, having received a SETUP of BC2, with one of them set to UDI/TA, 2, INECT message containing a PI=#8 and not tones and announcement in a 3,1 kHzTT Recommendation G.711 [6] A-law.
Cross reference		
Comments		

GTP111_24	Reference to ETS 300 267-1 [3]:	Other relevant reference:
	5.5.7, 5.6.7	ETS 300 102-1 [1] 5.3.4.1
TSS reference	NT7V/ORIG/BV/GEN/FBA	
Selection criteria	SC 5.1	
Test purpose	SETUP message, containing two B UDI/TA, no LLC, and two HLCs, HL is capable of sending a DISC of simultaneously providing in	Proceeding call state N3, having received a Cs, BC1 and BC2, with one of them set to C1 and HLC2, ONNECT message containing a PI=#8 and band tones and announcement in a 3,1 kHz CITT Recommendation G.711 [6] A-law.
Cross reference		
Comments		

GTP111_25	Reference to ETS 300 267-1 [3]:	Other relevant reference:
	<i>5.5.7, 5.6.7</i>	ETS 300 102-1 [1] 5.1.3
TSS reference	NT7V/ORIG/BV/GEN/FBA	
Selection criteria	SC 5.1	
Test purpose	containing two BCs, BC1 and BC2, with HLCs, HLC1 and HLC2, but not contain sends a SETUP ACKNOWLEDO simultaneously providing in-band	N0, on receipt of a SETUP message one of them set to UDI/TA, no LLC, two ing any called number information, GE message, containing a PI=#8 and of I tones and announcement in a 3,1 kHzTT Recommendation G.711 [6] A-law.
Cross reference		·
Comments		

GTP111_26	Reference to ETS 300 267-1 [3]:	Other relevant reference:
	5.5.7, 5.6.7	ETS 300 102-1 [1] 5.4
TSS reference	NT7V/ORIG/BV/GEN/FBA	
Selection criteria	SC 5.1	
Test purpose	containing two BCs, BC1 and BC2, v HLCs, HLC1 and HLC2, with a sending is capable of sending a PF PROCEEDING message, co	OGRESS or an ALERTING or a CALL ntaining a PI=#8, and of simultaneously ouncement in a 3,1 kHz mode, encoded
Cross reference		
Comments		

#### 5.2.1.1.2 Fallback not allowed

GTP112_01	Reference to ETS 300 267-1 [3]:	Other relevant reference:	
	5.5.7, 5.6.7	ETS 300 102-1 [1] 5.3.4.1	
TSS reference	NT7V/ORIG/BV/GEN/FBN		
Selection criteria	SC 5.1		
Test purpose	message, containing a single BC=UL is capable of sending a DISC of simultaneously providing in-	ing call state N2, having received a SETUP DI/TA, ONNECT message containing a PI=#8 and band tones and announcement in a 3,1 kHz CITT Recommendation G.711 [6] A-law.	
Cross reference			
Comments			

GTP112_02	Reference to ETS 300 267-1 [3]:	Other relevant reference:
	5.5.7, 5.6.7	ETS 300 102-1 [1] 5.3.4.1
TSS reference	NT7V/ORIG/BV/GEN/FBN	
Selection criteria	SC 5.1	
Test purpose	SETUP message, containing a single B is capable of sending a DISCON of simultaneously providing in-ba	oceeding call state N3, having received a C=UDI/TA, NNECT message containing a PI=#8 and nd tones and announcement in a 3,1 kHz TT Recommendation G.711 [6] A-law.
Cross reference		·
Comments		

GTP112_03	Reference to ETS 300 267-1 [3]:	Other relevant reference:
	5.5.7, 5.6.7	ETS 300 102-1 [1] 5.1.3
TSS reference	NT7V/ORIG/BV/GEN/FBN	
Selection criteria	SC 5.1	
Test purpose	containing a BC=UDI/TA, but not cont sends a SETUP ACKNOWLEI simultaneously providing in-ba	te N0, on receipt of a SETUP message aining any called number information, DGE message, containing a PI=#8 and of nd tones and announcement in a 3,1 kHz CITT Recommendation G.711 [6] A-law.
Cross reference		
Comments		

GTP112_04	Reference to ETS 300 267-1 [3]:	Other relevant reference:
	<i>5.5.7, 5.6.7</i>	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]:	Other relevant reference:	
	5.5.7, 5.6.7	ETS 300 102-1 [1] 5.3.4.1	
TSS reference	NT7V/ORIG/BV/GEN/FBN		
Selection criteria	SC 5.1	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]:	Other relevant reference:	
_	5.5.7, 5.6.7	ETS 300 102-1 [1] 5.3.4.1	
TSS reference	NT7V/ORIG/BV/GEN/FBN		
Selection criteria	SC 5.1	SC 5.1	
Test purpose	SETUP message, containing a single is capable of sending a DISC of simultaneously providing in-	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]:	Other relevant reference:
	5.5.7, 5.6.7	ETS 300 102-1 [1] 5.1.3
TSS reference	NT7V/ORIG/BV/GEN/FBN	
Selection criteria	SC 5.1	
Test purpose	containing a BC=UDI/TA and a single Hinformation, sends a SETUP ACKNOWLEDG simultaneously providing in-band	N0, on receipt of a SETUP message LC, but not containing any called number SE message, containing a PI=#8 and of I tones and announcement in a 3,1 kHz TT 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]:	Other relevant reference:	
	5.5.7, 5.6.7	ETS 300 102-1 [1] 5.3.4.1	
TSS reference	NT7V/ORIG/BV/GEN/CMN		
Selection criteria	SC 5.1	SC 5.1	
Test purpose	received a SETUP message, contain is capable of sending a DISC of simultaneously providing in-	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]:	Other relevant reference:
	5.5.7, 5.6.7	
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]:	Other relevant reference:
	5.5.5.1, 5.6.5.1, 6.5.1 <i>b)</i> , 6.6	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	SETUP message containing two BCs, vBC=UDI/TA, a HLC=telephony, and not successful subscription check for the pri	oceeding call state N3, having received a with the first BC=speech and the second containing a LLC, and on completion of a me service, CT message and enters the Active call
Cross reference	Related GTP: GTP111_14.	
Comments	Receipt of telephony 7 kHz fallback allow for the prime service succeeded.	ved SETUP: optional subscription check

TTP111_02	Reference to ETS 300 267-1 [3]:	Other relevant reference:
	5.5.5.1, 5.6.5.1, 6.5.1 <i>b)</i> , 6.6	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 allow for the prime service failed.	wed SETUP: optional subscription check

TTP111_03	Reference to ETS 300 267-1 [3]:	Other relevant reference:
	5.5.1.1, 6.5.1 c), 6.6	
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): fa or at the destination user.	Ilback did not occur either within the IUT

TTP111_04	Reference to ETS 300 267-1 [3]:	Other relevant reference:	
	5.5.1.1, 6.5.1 c), 6.6		
TSS reference	NT7V/ORIG/BV/TL7/FBA		
Selection criteria	R 1.1	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]:	Other relevant reference:	
	5.5.1.1, 6.5.1 c), 6.6		
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 destina	teleservice occurred beyond the destination interface of the network component	
	under test.	·	

TTP111_06	Reference to ETS 300 267-1 [3]:	Other relevant reference:	
	5.5.1.1, 6.5.1 c), 6.6		
TSS reference	NT7V/ORIG/BV/TL7/FBA		
Selection criteria	(R 1.1 OR R 1.2)	(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): fa teleservice occurred beyond the destina under test.	Ilback, to the telephony 3,1 kHz tition interface of the network component	

TTP111_07	Reference to ETS 300 267-1 [3]:	Other relevant reference:	
	6.5.1 c), 6.6 c)		
TSS reference	NT7V/ORIG/BV/TL7/FBA	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		
	occurred beyond the destination interface	ce of the network component under test.	

TTP111_08	Reference to ETS 300 267-1 [3]:	Other relevant reference:	
	6.5.1 c), 6.6 c)		
TSS reference	NT7V/ORIG/BV/TL7/FBA		
Selection criteria	(R 1.1 OR R 1.2)	(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		ck, to the telephony 3,1 kHz teleservice ace of the network component under test.	

TTP111_09	Reference to ETS 300 267-1 [3]:	Other relevant reference:
	5.5.1.1, 6.5.1 d), 6.6	
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, PROC to the telephony 3,1 kHz teleservice, with	GRESS or ALERTING: fallback occurred, hin the network component under test.

TTP111_10	Reference to ETS 300 267-1 [3]:	Other relevant reference:
	5.5.7, 5.6.7, 6.5.3, 6.6	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	7 kHz fallback allowed SETUP message is capable of sending a DISCON of simultaneously providing in-bar mode, encoded according to Coand enters the Disconnect indication.	NECT message containing a PI=#8 and nd tones and announcement in a 3,1 kHz CITT Recommendation G.711 [6] A-law
Cross reference	Related GTP: GTP111_19.	
Comments	According to basic call requirements, wh not received before the mandatory timer DISCONNECT message with the appropriate the property of the control of th	

TTP111_11	Reference to ETS 300 267-1 [3]:	Other relevant reference:
	5.5.7, 5.6.7, 6.5.3, 6.6	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 when the SETUP message has been de IUT does not receive an ALERTING, CO prior to the expiration of timer T310, the DISCONNECT.	elivered on point to point data link, if the DNNECT or DISCONNECT message

TTP111_12	Reference to ETS 300 267-1 [3]:	Other relevant reference:
	5.5.7, 5.6.7, 6.5.4, 6.6	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	allowed SETUP message, not containing sends a SETUP ACKNOWLEDG simultaneously providing in-band mode, encoded according to Coand enters the Overlap sending care	GE message, containing a PI=#8 and of tones and announcement in a 3,1 kHz CITT Recommendation G.711 [6] A-law
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	allowed SETUP message with a sending is capable of sending a PROCEEDING message, contaproviding in-band tones and annual series.	on receipt of a telephony 7 kHz fallback g complete indication, GRESS or an ALERTING or a CALL aining a PI=#8 and of simultaneously ouncement in a 3,1 kHz mode, encoded adation G.711 [6] A-law and enters the
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	allowed SETUP message without a ser is capable of sending a PROCEEDING, an ALERTING, containing a Progress indicate description #1 "call is not express of the serious containing a progress indicate description #1 "call is not express of the serious containing a progress indicate description #1 "call is not express of the serious containing a progress indicate description #1".	D, on receipt of a telephony 7 kHz fallback anding complete indication, SETUP ACKNOWLEDGE, a CALL a PROGRESS or a CONNECT message or information element with a progress and-to-end ISDN, further call progress-band" and enters the relevant basic call
Cross reference		
Comments	This test purpose covers interworking with the calling user.	vith the PSTN where fallback is allowed by

TTP111_15	Reference to ETS 300 267-1 [3]:	Other relevant reference:	
	6.7	ETS 300 102-1 [1] 5.1.6	
TSS reference	NT7V/ORIG/BV/TL7/FBA		
Selection criteria	(R 1.1 OR R 1.2)	(R 1.1 OR R 1.2)	
Test purpose	allowed SETUP message with a sending is capable of sending a CA PROGRESS or a CONNECT minformation element with a progression.	LL PROCEEDING, an ALERTING, a ressage containing a Progress indicator ess description #1 "call is not end-to-end rmation may be available in-band" and	
Cross reference			
Comments	This test purpose covers interworking w the calling user.	ith the PSTN where fallback is allowed by	

#### 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	message containing a single BC=UI containing a LLC, is capable of sending a DISCON of simultaneously providing in-bal	call state N2, having received a SETUP DI/TA and a HLC=telephony, and not INECT message containing a PI=#8 and nd tones and announcement in a 3,1 kHz CITT Recommendation G.711 [6] A-law ion call state N12.
Cross reference	Related GTP: GTP112_02	
Comments	According to basic call requirements, wh not received before the mandatory times DISCONNECT message with the appro-	

TTP112_02	Reference to ETS 300 267-1 [3]:	Other relevant reference:
	5.5.7, 5.6.7, 6.5.3, 6.6	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	telephony 7 kHz fallback not allowed SE is capable of sending a DISCON of simultaneously providing in-bar	NECT message containing a PI=#8 and not tones and announcement in a 3,1 kHz CITT Recommendation G.711 [6] A-law
Cross reference	Related GTP: GTP112_03.	
Comments	According to basic call requirements, in when the SETUP message has been de IUT does not receive an ALERTING, CO prior to the expiration of timer T310, ther DISCONNECT.	livered on point to point data link, if the DNNECT or DISCONNECT message

TTP112_03	Reference to ETS 300 267-1 [3]:	Other relevant reference:
	5.5.7, 5.6.7, 6.5.4, 6.6	ETS 300 102-1 [1] 5.1.3
TSS reference	NT7V/ORIG/BV/TL7/FBN	
Selection criteria	R 1.1	
	allowed SETUP message, not containing sends a SETUP ACKNOWLEDG simultaneously providing in-band	GE message, containing a PI=#8 and of tones and announcement in a 3,1 kHz CITT Recommendation G.711 [6] A-law
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	allowed SETUP message, containing a is capable of sending a PROCEEDING message, containing in-band tones and ann according to CCITT Recommer relevant basic call state.	on receipt a telephony 7 kHz fallback not sending complete indication, GRESS or an ALERTING or a CALL aining a PI=#8 and of simultaneously ouncement in a 3,1 kHz mode, encoded adation G.711 [6] A-law and enters the
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]:	Other relevant reference:	
	6.7	ETS 300 102-1 [1] 5.1.5.2, 5.3.3	
TSS reference	NT7V/ORIG/BV/TL7/FBN		
Selection criteria	R 1.1	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.		

#### **Connection management** 5.2.1.2.3

TTP113_01	Reference to ETS 300 267-1 [3]:	Other relevant reference:	
	5.5.7, 5.6.7, 6.5.3, 6.6	ETS 300 102-1 [1] 5.3.4	
TSS reference	NT7V/ORIG/BV/TL7/CMN		
Selection criteria	R 1.1	R 1.1	
Test purpose	of the telephony 7 kHz teleservice in pro- is capable of sending a DISCONI of presenting a tone or annou	NECT message, containing a PI=#8, and neement in a 3,1 kHz mode, encoded adation G.711 [6] A-law and enters the	
Cross reference	Related GTP: GTP113_01.		
Comments	According to basic call requirements, in DISCONNECT message from the called DISCONNECT message to the calling up	l user, the IUT shall send a	

#### Videotelephony teleservice 5.2.1.3

#### 5.2.1.3.1 Fallback allowed

VTP111_01	Reference to ETS 300 267-1 [3]:	Other relevant reference:
	5.5.5.1, 5.6.5.1, 7.6, 7.5.1 b)	ETS 300 102-1 [1] 5.1.5.1
TSS reference	NT7V/ORIG/BV/VTL/FBA	
Selection criteria	R 1.2	
Test purpose	SETUP message containing two BCs, vBC=UDI/TA, and two HLCs, with the HLC=videotelephony_ic, and not contasuccessful subscription check for the pri	oceeding call state N3, having received a with the first BC=speech and the second of first HLC=telephony and the second aining a LLC, and on completion of a time service, ECT message and enters the Active call
Cross reference	Related GTP: GTP111_16.	
Comments	Receipt of videotelephony fallback allow for prime service succeeded.	red SETUP: optional subscription check

VTP111_02	Reference to ETS 300 267-1 [3]:	Other relevant reference:
	5.5.5.1, 5.6.5.1, 7.5.1 b), 7.6	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 allow for prime service failed.	ed SETUP: optional subscription check

VTP111_03	Reference to ETS 300 267-1 [3]:	Other relevant reference:	
	5.5.1.1, 5.5.3.1, 7.5.1 c), 7.6		
TSS reference	NT7V/ORIG/BV/VTL/FBA		
Selection criteria	R 1.2	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 des	tination user.	

VTP111_04	Reference to ETS 300 267-1 [3]:	Other relevant reference:	
	5.5.1.1, 5.5.3.1, 7.5.1 c), 7.6		
TSS reference	NT7V/ORIG/BV/VTL/FBA	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]:	Other relevant reference:	
	5.5.1.1, 5.5.3.1, 6.5.2 <b>c)</b> , 7.5.1 c), 7.6		
TSS reference	NT7V/ORIG/BV/VTL/FBA	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, HL 7 kHz teleservice occurred beyond the component under test.		

VTP111_06	Reference to ETS 300 267-1 [3]:	Other relevant reference:	
	5.5.1.1, 5.5.3.1, 6.5.2 c), 7.5.1 c), 7.6		
TSS reference	NT7V/ORIG/BV/VTL/FBA		
Selection criteria	R 1.2	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]:	Other relevant reference:	
	5.5.1.1, 5.5.3.1, 7.5.1 c), 7.6		
TSS reference	NT7V/ORIG/BV/VTL/FBA		
Selection criteria	R 1.2	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]:	Other relevant reference:
	5.5.1.1, 5.5.3.1, 7.5.1 c), 7.6	
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]:	Other relevant reference:	
	5.5.1.1, 5.5.3.1, 7.5.1 c), 7.6		
TSS reference	NT7V/ORIG/BV/VTL/FBA	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	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]:	Other relevant reference:	
	5.5.1.1, 5.5.3.1, 7.5.1 d), 7.6		
TSS reference	NT7V/ORIG/BV/VTL/FBA	NT7V/ORIG/BV/VTL/FBA	
Selection criteria	R 1.2	R 1.2	
Test purpose	allowed SETUP message, is capable of sending a CALL PF message containing a PI= HLC=videotelephony_ic or	O, on receipt of a videotelephony fallback ROCEEDING, PROGRESS or ALERTING #5, and a BC=speech, and a a HLC=videotelephony_nex or a no BC and no HLC information elements 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]:	Other relevant reference:
	5.5.1.1, 5.5.3.1, 7.5.1 d), 7.6	
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, PROC to the telephony 7 kHz teleservice, within	GRESS or ALERTING: fallback occurred, in the network component under test.

VTP111_13	Reference to ETS 300 267-1 [3]:	Other relevant reference:
	5.5.7, 5.6.7, 7.5.3, 7.6	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	videotelephony fallback allowed SETUP is capable of sending a DISCON of simultaneously providing in-bar mode, encoded according to Cand enters the Disconnect indicates	NECT message containing a PI=#8 and not tones and announcement in a 3,1 kHz CITT Recommendation G.711 [6] A-law
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]:	Other relevant reference:
	5.5.7, 5.6.7, 7.5.3, 7.6	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 when the SETUP message has been de IUT does not receive an ALERTING, CO prior to the expiration of timer T310, their DISCONNECT.	livered on point to point data link, if the DNNECT or DISCONNECT message

	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]:	Other relevant reference:
	5.5.7, 5.6.7, 7.5.4, 7.6	ETS 300 102-1 [1] 5.4
TSS reference	NT7V/ORIG/BV/VTL/FBA	
Selection criteria	R 1.2	
Test purpose	videotelephony fallback allowed SETU indication, is capable of sending a PROC PROCEEDING message, conta providing in-band tones announ	on, on receipt of a SETUP message, of a JP message with a sending complete GRESS or an ALERTING or a CALL ining a PI=#8, and of simultaneously accement in a 3,1 kHz mode, encoded dation G.711 [6] A-law and enters the
Cross reference	Related GTP: GTP111_26.	
Comments		

VTP111_17	Reference to ETS 300 267-1 [3]:	Other relevant reference:
	7.7	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 calling user.	ith the PSTN where fallback is allowed by

VTP111_18	Reference to ETS 300 267-1 [3]:	Other relevant reference:
	7.7	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 w the calling user.	ith the PSTN where fallback is allowed by

#### 5.2.1.3.2 Fallback not allowed

VTP112_01	Reference to ETS 300 267-1 [3]:	Other relevant reference:
	5.5.7, 5.6.7, 7.5.3, 7.6	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, wh not received before the mandatory timer DISCONNECT message with the appropriate the property of the control of th	

VTP112_02	Reference to ETS 300 267-1 [3]:	Other relevant reference:
	5.5.7, 5.6.7, 7.5.3, 7.6	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 when the SETUP message has been de IUT does not receive an ALERTING, CO prior to the expiration of timer T310, ther DISCONNECT.	livered on point to point data link, if the DNNECT or DISCONNECT message

VTP112_03	Reference to ETS 300 267-1 [3]:	Other relevant reference:	
	5.5.7, 5.6.7, 7.5.4, 7.6	ETS 300 102-1 [1] 5.1.3	
TSS reference	NT7V/ORIG/BV/GEN/FBN		
Selection criteria	R 1.2	R 1.2	
Test purpose	allowed SETUP message not contain sends a SETUP ACKNOWLE simultaneously providing in-bamode, encoded according to and enters the Overlap sending	DGE message, containing a PI=#8 and of and tones and announcement in a 3,1 kHz CCITT Recommendation G.711 [6] A-law	
Cross reference	Related GTP: GTP112_08.		
Comments			

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

VTP112_05	Reference to ETS 300 267-1 [3]:	Other relevant reference:
	7.7	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]:	Other relevant reference:	
	5.5.7, 5.6.7, 7.5.3, 7.6	ETS 300 102-1 [1] 5.3.4	
TSS reference	NT7V/ORIG/BV/VTL/CMN		
Selection criteria	R 1.2	R 1.2	
Test purpose	of the videotelephony teleservice in procise is capable of sending a DISCON of simultaneously providing in-ba mode, encoded according to C and enters the Disconnect indicate	NECT message containing a PI=#8 and nd tones and announcement in a 3,1 kHz CITT Recommendation G.711 [6] A-law	
Cross reference	Related GTP: GTP113_01.		
Comments	According to basic call requirements, in DISCONNECT message from the called DISCONNECT message to the calling upon the callin	d user, the IUT shall send a	

VTP113_02	Reference to ETS 300 267-1 [3]:	Other relevant reference:	
	5.5.7, 5.6.7, 7.5.3, 7.6	ETS 300 102-1 [1] 5.3.4	
TSS reference	NT7V/ORIG/BV/VTL/CMN	NT7V/ORIG/BV/VTL/CMN	
Selection criteria	R 1.2	R 1.2	
Test purpose	state N10, with a call of the vid 2B-channel mode, is capable of sending a DISC PI=#8, and of presenting a to CR1, encoded according to C enters the Disconnect indication	g interface, with CR1 and CR2 in Active call eotelephony teleservice in progress in a CONNECT message, on CR1, containing a ne or announcement in a 3,1 kHz mode on CITT Recommendation G.711 [6] A-law and on 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.		

Page 36

ETS 300 267-5: April 1998

#### 5.2.2 Invalid behaviour

#### 5.2.2.1 Generic requirements

#### 5.2.2.1.1 Fallback allowed

GTP121_01		Other relevant reference:
	5.5.1.2 c), 5.6.1	
TSS reference	NT7V/ORIG/BI/GEN/FBA	
Selection criteria	MC 3.1 OR MC 4.1	
Test purpose	containing two BCs, BC1 and BC2, and	N0, on receipt of a SETUP message, a single LLC, i.e. transports the LLC transparently
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]:	Other relevant reference:	
	5.5.2.1, 5.6.2.1		
TSS reference	NT7V/DEST/BV/GEN/FBA/ST_T		
Selection criteria	MC 3.2 OR MC 4.2	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]:	Other relevant reference:
	5.5.4.1, 5.6.4.1	
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]:	Other relevant reference:
	5.5.5.1, 5.6.5.1	
TSS reference	NT7V/DEST/BV/GEN/FBA/ST_T	
Selection criteria	(MC 3.2 OR MC 4.2)	
Test purpose	subscription check for BC1 or BC2, det service,	e N0, on completion of a successful fined for a particular telecommunications message containing two BCs, BC1 and
Cross reference		
Comments	Sending of SETUP following completion check based on BC1 and BC2.	of a successful optional subscription

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)	(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 of and BC2.	optional subscription check based on BC1	

GTP211_05	Reference to ETS 300 267-1 [3]:	Other relevant reference:
	5.5.5.1, 5.6.5.1	
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 BC	2 and HLC1 or HLC2.

GTP211_06	Reference to ETS 300 267-1 [3]:	Other relevant reference:
	5.5.5.1, 5.6.5.1	
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]:	Other relevant reference:
	5.5.5.1, 5.6.5.1	
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	<b>Temp. note:</b> 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]:	Other relevant reference:	
	5.5.7, 5.6.7	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	message, delivered on a point to po BC2, with one of them set to UDI/TA, is capable of sending a DISC of simultaneously providing in-	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		when the SETUP message has been sent e a network disconnect indication, IUT shall	

GTP211_09	Reference to ETS 300 267-1 [3]:	Other relevant reference:
	5.5.7, 5.6.7	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	received a SETUP message, delive two BCs, BC1 and BC2, with one of is capable of sending a DISC of simultaneously providing in	ing Call Proceeding call state N9, having red on a point to point data link, containing them set to UDI/TA, and no LLC, CONNECT message containing a PI=#8 and band tones and announcement in a 3,1 kHz CCITT Recommendation G.711 [6] A-law.
Cross reference		
Comments		when the SETUP message has been sent e a network disconnect indication, IUT shall

GTP211_10	Reference to ETS 300 267-1 [3]:	Other relevant reference:
	5.5.7, 5.6.7	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		then the SETUP message has been sent a network disconnect indication, IUT shall

GTP211_11	Reference to ETS 300 267-1 [3]:	Other relevant reference:
	5.5.7, 5.6.7	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	SETUP message, delivered on a point BC1 and BC2, with one of them set to and HLC2, is capable of sending a DISCON of simultaneously providing in-bal	I Proceeding call state N9, having sent a to point data link, containing two BCs, UDI/TA, no LLC, and two HLCs, HLC1 INECT message containing a PI=#8 and tones and announcement in a 3,1 kHz TT Recommendation G.711 [6] A-law.
Cross reference		
Comments		nen the SETUP message has been sent network disconnect indication, IUT shall

# 5.3.1.1.1.2 Requirements at the coincident S and T reference point

GTP211_12	Reference to ETS 300 267-1 [3]:	Other relevant reference:	
	5.5.2.1		
TSS reference	NT7V/DEST/BV/GEN/FBA/ST		
Selection criteria	R 3.1 AND MC 3.2	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]:	Other relevant reference:	
	5.5.2.1		
TSS reference	NT7V/DEST/BV/GEN/FBA/ST	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]:	Other relevant reference:	
	5.5.2.1		
TSS reference	NT7V/DEST/BV/GEN/FBA/ST	NT7V/DEST/BV/GEN/FBA/ST	
Selection criteria	R 3.1 AND MC 3.2	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	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]:	Other relevant reference:	
	5.5.2.1		
TSS reference	NT7V/DEST/BV/GEN/FBA/ST		
Selection criteria	R 3.1 AND MC 3.2	R 3.1 AND MC 3.2	
Test purpose	message, containing two BCs, BC1 CONNECT message, containing BC2,	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	
Cross reference			
Comments			

GTP211_17	Reference to ETS 300 267-1 [3]:	Other relevant reference:
	5.5.2.1	
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	
	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]:	Other relevant reference:
	5.5.2.1	
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]:	Other relevant reference:	
	5.5.2.1		
TSS reference	NT7V/DEST/BV/GEN/FBA/ST		
Selection criteria	R 3.1 AND MC 3.2	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]:	Other relevant reference:	
	5.5.2.1		
TSS reference	NT7V/DEST/BV/GEN/FBA/ST		
Selection criteria	R 3.1 AND MC 3.2	R 3.1 AND MC 3.2	
Test purpose	SETUP message, containing two BCs a CONNECT message, containing BC	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]:	Other relevant reference:	
	5.5.2.1		
TSS reference	NT7V/DEST/BV/GEN/FBA/ST		
Selection criteria	R 3.1 AND MC 3.2	R 3.1 AND MC 3.2	
Test purpose	containing two BCs, BC1 and BC2, message, not containing a BC,	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	
Cross reference			
Comments			

GTP211_22	Reference to ETS 300 267-1 [3]:	Other relevant reference:	
	5.5.2.1		
TSS reference	NT7V/DEST/BV/GEN/FBA/ST	NT7V/DEST/BV/GEN/FBA/ST	
Selection criteria	R 3.1 AND MC 3.2	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		Other relevant reference:
	5.5.2.1	
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	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]:	Other relevant reference:
	5.5.4.1	
TSS reference	NT7V/DEST/BV/GEN/FBA/ST	
Selection criteria	R 3.1 AND MC 3.4	
Test purpose	message, containing two HLCs, HLC1 message, not containing a HLC,	call state N7, having sent a SETUP and HLC2, on receipt of a CONNECT as occurred at the destination user.
Cross reference		
Comments		

GTP211_26	Reference to ETS 300 267-1 [3]:	Other relevant reference:	
	5.5.4.1		
TSS reference	NT7V/DEST/BV/GEN/FBA/ST		
Selection criteria	R 3.1 AND MC 3.4	R 3.1 AND MC 3.4	
Test purpose	SETUP message, containing two HL CONNECT message, not containing a l	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]:	Other relevant reference:
	5.5.4.1	
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]:	Other relevant reference:
	5.5.4.1	
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]:	Other relevant reference:	
	5.5.4.1		
TSS reference	NT7V/DEST/BV/GEN/FBA/ST	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	<b>Reference to ETS 300 267-1 [3]:</b> 5.5.4.1	Other relevant reference:	
TSS reference	NT7V/DEST/BV/GEN/FBA/ST	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]:	Other relevant reference:	
	5.5.4.1		
TSS reference	NT7V/DEST/BV/GEN/FBA/ST		
Selection criteria	R 3.1 AND MC 3.4	R 3.1 AND MC 3.4	
Test purpose		d call state N7, having sent a SETUP 1 and HLC2, on receipt of a CONNECT network.	
Cross reference			
Comments			

GTP211_32	Reference to ETS 300 267-1 [3]:	Other relevant reference:	
	5.5.4.1		
TSS reference	NT7V/DEST/BV/GEN/FBA/ST	NT7V/DEST/BV/GEN/FBA/ST	
Selection criteria	R 3.1 AND MC 3.4	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]:	Other relevant reference:
	5.5.4.1	
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]:	Other relevant reference:
	5.5.4.1	
TSS reference	NT7V/DEST/BV/GEN/FBA/ST	
Selection criteria	R 3.1 AND MC 3.4	
Test purpose		l call state N7, having sent a SETUP and HLC2, on receipt of a CONNECT network.
Cross reference		
Comments		

GTP211_35	Reference to ETS 300 267-1 [3]:	Other relevant reference:
	5.5.4.1	
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		

# 5.3.1.1.3 Requirements for interworking with private ISDNs

GTP211_36	Reference to ETS 300 267-1 [3]:	Other relevant reference:	
	5.6.4.1	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]	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 allow		
	Timer T310 is a timer of ETS 300 102	-   [   ]	

### 5.3.1.1.2 Fallback not allowed

GTP212_01	Reference to ETS 300 267-1 [3]:	Other relevant reference:	
	5.5.7, 5.6.7	ETS 300 102-1 [1] Annex N	
TSS reference	NT7V/DEST/BV/GEN/FBN	NT7V/DEST/BV/GEN/FBN	
Selection criteria	MC 12 [5]	MC 12 [5]	
Test purpose	containing a BC=UDI/TA, on rece containing an acceptable B-channel i	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]:	Other relevant reference:
	5.5.7, 5.6.7	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		denvara ende en une transmissioni patrii
Comments		

GTP212_03	<b>Reference to ETS 300 267-1 [3]:</b> 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]:	Other relevant reference:
	5.5.7, 5.6.7	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		hen the SETUP message has been sent network disconnect indication, IUT shall

GTP212_05	Reference to ETS 300 267-1 [3]:	Other relevant reference:
	5.5.7, 5.6.7	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	SETUP message, delivered on a poin BC=UDI/TA, and no LLC, is capable of sending a DISCON of simultaneously providing in-bal	I Proceeding call state N9, having sent a t to point data link, containing a single INECT message containing a PI=#8 and and tones and announcement in a 3,1 kHz IT Recommendation G.711 [6] A-law.
Cross reference		
Comments	According to basic call requirements, whe via the broadcast data link, to indicate a send a RELEASE message	nen the SETUP message has been sent network disconnect indication, IUT shall

GTP212_06	Reference to ETS 300 267-1 [3]:	Other relevant reference:
	5.5.7, 5.6.7	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	message, delivered on a point to point no LLC, and a single HLC, is capable of sending a DISC of simultaneously providing in	eiving call state N25, having sent a SETUP nt data link, containing a single BC=UDI/TA, ONNECT message containing a PI=#8 and band tones and announcement in a 3,1 kHz CITT Recommendation G.711 [6] A-law.
Cross reference		
Comments		when the SETUP message has been sent e a network disconnect indication, IUT shall

GTP212_07	Reference to ETS 300 267-1 [3]:	Other relevant reference:
	5.5.7, 5.6.7	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	SETUP message, delivered on a poin BC=UDI/TA,, no LLC, and a single HLC, is capable of sending a DISCON of simultaneously providing in-bal	Proceeding call state N9, having sent a to point data link, containing a single NECT message containing a PI=#8 and and tones and announcement in a 3,1 kHz TRecommendation G.711 [6] A-law.
Cross reference		
Comments	According to basic call requirements, when via the broadcast data link, to indicate a send a RELEASE message	nen the SETUP message has been sent network disconnect indication, IUT shall

# 5.3.1.1.3 Connection management

GTP213_01	Reference to ETS 300 267-1 [3]:	Other relevant reference:	
	5.5.7, 5.6.7	ETS 300 102-1 [1] 5.3.4.1	
TSS reference	NT7V/DEST/BV/GEN/CMN		
Selection criteria	SC 5.1	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]:	Other relevant reference:	
	5.5.7, 5.6.7		
TSS reference	NT7V/DEST/BV/GEN/CMN		
Selection criteria	SC 5.1	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			

Page 47 ETS 300 267-5: April 1998

### 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:
T00 (		
TSS reference	NT7V/DEST/BV/TL7/FBA/ST_T	
Selection criteria	R 1.1	
Test purpose		message containing two BCs, with the first BC=UDI/TA, a HLC=telephony, and not
Cross reference	Related GTP: 211_01.	
Comments		

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

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

TTP211_04	Reference to ETS 300 267-1 [3]:	Other relevant reference:	
	5.5.2.1, 5.6.2.2 a), 6.5.2 c), 6.6 c)		
TSS reference	NT7V/DEST/BV/TL7/FBA/ST_T		
Selection criteria	R 1.1	R 1.1	
Test purpose	telephony 7 kHz fallback allowed SE message, not containing a BC, assumes that fallback to the te	call Proceeding call state N9, having sent a TUP message, on receipt of a CONNECT elephony 3,1 kHz teleservice has occurred, CKNOWLEDGE and enters the Active call	
Cross reference	Related GTP: GTP211_14, GTP221_	10.	
Comments			

	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:
	NT7V/DEST/BV/TL7/FBA/ST_T	
Selection criteria	R 1.1	
	fallback allowed SETUP message, containing a BC=speech, assumes that fallback to the tele	state N6, having sent a telephony 7 kHz on receipt of a CONNECT message, phony 3,1 kHz teleservice has occurred, (NOWLEDGE and enters the Active call
Cross reference	Related GTP: GTP211_18.	
Comments		_

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

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

TTP211_08	Reference to ETS 300 267-1 [3]:	Other relevant reference:
	5.5.2.1, 5.6.2.2 a), 6.5.2 c), 6.6 c)	
TSS reference	NT7V/DEST/BV/TL7/FBA ST_T	•
Selection criteria	R 1.1	
Test purpose	fallback allowed SETUP message containing a BC=UDI/TA,	all state N6, having sent a telephony 7 kHz, on receipt of a CONNECT message, ot occurred, responds with a CONNECT ne Active call state N10.
Cross reference	Related GTP: GTP211_15.	
Comments		

TTP211_09	Reference to ETS 300 267-1 [3]:	Other relevant reference:
	5.5.2.1, 5.6.2.2 a), 6.5.2 c), 7.6 c)	
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	telephony 7 kHz fallback allowed SE message, containing a BC=UDI/TA, assumes that fallback has no	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]:	Other relevant reference:
	5.5.7, 5.6.7, 6.5.3, 6.6	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	7 kHz fallback allowed SETUP message is capable of sending a DISCON of simultaneously providing in-bar	NECT message containing a PI=#8 and nd tones and announcement in a 3,1 kHz CITT Recommendation G.711 [6] A-law
Cross reference	Related GTP: GTP211_08	
Comments	According to basic call requirements, wh via the broadcast data link, to indicate a send a RELEASE message	

TTP211_12	Reference to ETS 300 267-1 [3]:	Other relevant reference:
	5.5.7, 5.6.7, 6.5.3, 6.6	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	telephony 7 kHz fallback allowed SETU data link, is capable of sending a DISCON of simultaneously providing in-bar	Proceeding call state N9, having sent a P message, delivered on a point to point NECT message containing a PI=#8 and nd tones and announcement in a 3,1 kHz CITT Recommendation G.711 [6] A-law ion call state N12.
Cross reference	Related GTP: GTP211_09	
Comments		nen the SETUP message has been sent network disconnect indication, IUT shall

# 5.3.1.2.1.2 Requirements for interworking with private ISDNs

TTP211_13	Reference to ETS 300 267-1 [3]:	Other relevant reference:	
	5.5.2.1, 5.6.4.1, 6.6 d)		
TSS reference	NT7V/DEST/BV/TL7/FBA/PT		
Selection criteria	R 1.1 AND R 3.2	R 1.1 AND R 3.2	
Test purpose	7 kHz fallback allowed SETUP messa containing a PI=#5 "interworking telecommunications service change", assumes that fallback to the to	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 ISD	N	

		Other relevant reference:
	5.5.2.1, 5.6.4.1, 6.6 d)	
TSS reference	NT7V/DEST/BV/TL7/FBA/PT	
Selection criteria	R 1.1 AND R 3.2	
	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	

	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	
	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]:	Other relevant reference:	
	5.5.2.1, 5.6.4.1, 6.6 d)		
TSS reference	NT7V/DEST/BV/TL7/FBA/PT		
Selection criteria	R 1.1 AND R 3.2	R 1.1 AND R 3.2	
Test purpose	telephony 7 kHz fallback allowed SET message, containing a PI=#5 "interwotelecommunications service change", r	lephony 3,1 kHz teleservice has occurred	
Cross reference			
Comments	Fallback occurs within the private ISDN		

	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]:	Other relevant reference:	
	5.5.2.1, 5.6.4.1, 6.6 d)		
TSS reference	NT7V/DEST/BV/TL7/FBA/PT		
Selection criteria	R 1.1 AND R 3.2	R 1.1 AND R 3.2	
Test purpose	telephony 7 kHz fallback allowed SE message, containing a PI=#5 "interw telecommunications service change", assumes that fallback to the t	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 ISD	N .	

#### 5.3.1.2.2 Fallback not allowed

TTP212_01	Reference to ETS 300 267-1 [3]:	Other relevant reference:
	6.5.2 1), 6.6 first bullet item	
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]:	Other relevant reference:
	5.5.7, 5.6.7, 6.5.3, 6.6	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	message, delivered on a point to point of and a HLC=telephony, and not containing is capable of sending a DISCON of simultaneously providing in-bar mode, encoded according to County and enters the Disconnect indicates	INECT message containing a PI=#8 and not tones and announcement in a 3,1 kHz CITT Recommendation G.711 [6] A-law
Cross reference	Related GTP: GTP212_04.	
Comments		nen the SETUP message has been sent network disconnect indication, IUT shall

TTP212_03	Reference to ETS 300 267-1 [3]:	Other relevant reference:
	5.5.7, 5.6.7, 6.5.3, 6.6	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	telephony 7 kHz fallback not allowed S point data link, is capable of sending a DISCON of simultaneously providing in-bar	Proceeding call state N9, having sent a ETUP message, delivered on a point to NECT message containing a PI=#8 and nd tones and announcement in a 3,1 kHz CITT Recommendation G.711 [6] A-law ion call state N12.
Cross reference	Related GTP: GTP212_05.	
Comments	According to basic call requirements, whe via the broadcast data link, to indicate a send a RELEASE message	nen the SETUP message has been sent network disconnect indication, IUT shall

### 5.3.1.2.3 Connection management

TTP213_01		Other relevant reference:
	5.5.7, 5.6.7, 6.5.3, 6.6	ETS 300 102-1 [1] 5.3.4
TSS reference	NT7V/DEST/BV/TL7/CMN	
Selection criteria	R 1.1	
Test purpose	of the telephony 7 kHz teleservice in pro is capable of sending a DISCONI of presenting a tone or annous according to CCITT Recommen Disconnect indication call state N	NECT message, containing a PI=#8, and neement in a 3,1 kHz mode, encoded adation G.711 [6] A-law and enters the
Cross reference	Related GTP: GTP213_01.	
Comments	According to basic call requirements, in DISCONNECT message from the calling DISCONNECT message to the called us	g user, the IUT shall send a

### 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]:	Other relevant reference:
	5.5.2.1, 5.5.4.1, 5.6.2.1, 5.6.4.1,	
	7.5.2 a), 7.6 a)	
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		

	<b>Reference to ETS 300 267-1 [3]:</b> 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	
	fallback allowed SETUP message, containing neither a BC nor a HLC, assumes that fallback to the tele	state N6, having sent a videotelephony on receipt of a CONNECT message, phony 3,1 kHz teleservice has occurred, NOWLEDGE and enters the Active call
Cross reference	Related GTP: GTP211_12, GTP221_08	
Comments		

VTP211_03		Other relevant reference:
	5.5.2.1, 5.6.2.2 a), 7.5.2 c), 7.6 c)	
TSS reference	NT7V/DEST/BV/VTL/FBA/ST_T	
Selection criteria	R 1.2	
Test purpose	fallback allowed SETUP message, containing neither BC nor a HLC, assumes that fallback to the tele	Il state N7, having sent a videotelephony on receipt of a CONNECT message, phony 3,1 kHz teleservice has occurred, (NOWLEDGE and enters the Active call
Cross reference	Related GTP: GTP211_13, GTP221_09	
Comments		

VTP211_04	Reference to ETS 300 267-1 [3]:	Other relevant reference:
	5.5.2.1, 5.6.2.2 a), 7.5.2 c), 7.6 c)	
TSS reference	NT7V/DEST/BV/VTL/FBA/ST_T	
Selection criteria	R 1.2	
Test purpose	videotelephony fallback allowed SETUI message, containing neither BC nor a H assumes that fallback to the tele	Proceeding call state N9, having sent a P message, on receipt of a CONNECT LC, phony 3,1 kHz teleservice has occurred, NOWLEDGE and enters the Active call
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	R 1.2	
Test purpose	fallback allowed SETUP message, containing a BC=speech, but not conta assumes that fallback to the tel	Il state N6, having sent a videotelephony on receipt of a CONNECT message, ining a HLC, ephony 3,1 kHz teleservice has occurred, KNOWLEDGE and enters the Active call	
Cross reference	Related GTP: GTP211_18, GTP211_3	3	
Comments			

	<b>Reference to ETS 300 267-1 [3]:</b> 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	
	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]:	Other relevant reference:
	5.5.2.1, 5.5.4.1, 7.5.2 c), 7.6 c)	
TSS reference	NT7V/DEST/BV/VTL/FBA/ST_T	
Selection criteria	R 1.2	
Test purpose	videotelephony fallback allowed SE- message, containing a BC=speech, b assumes that fallback to the t	Call Proceeding call state N9, having sent a FUP message, on receipt of a CONNECT out not containing a HLC, elephony 3,1 kHz teleservice has occurred, CKNOWLEDGE and enters the Active call
Cross reference	Related GTP: GTP211_20, GTP211_	35
Comments		

VTP211_08	Reference to ETS 300 267-1 [3]:	Other relevant reference:
	5.5.4.1, 7.5.2 c), 7.6 c)	
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]:	Other relevant reference:
	5.5.4.1, 7.5.2 c), 7.6 c)	
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]:	Other relevant reference:
	5.5.2.1, 5.5.4.1, 7.5.2 c), 7.6 c)	
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		Other relevant reference:
	5.5.4.1, 7.5.2 c), 7.6 c)	
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]:	Other relevant reference:
	5.5.2.1, 5.5.4.1, 7.5.2 c), 7.6 c)	
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]:	Other relevant reference:
	5.5.4.1, 7.5.2 c), 7.6 c)	
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]:	Other relevant reference:
	5.5.2.1, 5.5.4.1, 7.5.2 c), 7.6 c)	
TSS reference	NT7V/DEST/BV/VTL/FBA/ST_T	
Selection criteria	R 1.2	
Test purpose	videotelephony fallback allowed SETU message, containing a BC=speech and	ny 3,1 kHz has occurred, responds with a
Cross reference	Related GTP: GTP211_20, GTP211_32	
Comments		_

VTP211_15	Reference to ETS 300 267-1 [3]:	Other relevant reference:
	5.5.7, 5.6.7, 7.5.3, 7.6	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	videotelephony fallback allowed SETUF data link, is capable of sending a DISCON of simultaneously providing in-bar	eiving call state N25, having sent a property message, delivered on a point to point necessage containing a PI=#8 and and tones and announcement in a 3,1 kHz CITT Recommendation G.711 [6] A-law ion call state N12.
Cross reference	Related GTP: GTP211_10.	
Comments	According to basic call requirements, wh via the broadcast data link, to indicate a send a RELEASE message	

VTP211_16	Reference to ETS 300 267-1 [3]:	Other relevant reference:
	5.5.7, 5.6.7, 7.5.3, 7.6	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	videotelephony fallback allowed SETUF data link, is capable of sending a DISCON of simultaneously providing in-bar	Proceeding call state N9, having sent a message, delivered on a point to point NECT message containing a PI=#8 and tones and announcement in a 3,1 kHz CITT Recommendation G.711 [6] A-law on call state N12.
Cross reference	Related GTP: GTP211_11	
Comments	According to basic call requirements, wh via the broadcast data link, to indicate a 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	videotelephony fallback allowed SETUI message, not containing a BC, but containing a ssumes that fallback to the tele responds with a CONNECT ACK state N10.	I Proceeding call state N9, having sent a P message, on receipt of a CONNECT aining a HLC=videotelephony_nex, phony 3,1 kHz teleservice has occurred, (NOWLEDGE and enters the Active call
Cross reference	Related GTP: GTP211_14.	
Comments		

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

VTP211_20	Reference to ETS 300 267-1 [3]:	Other relevant reference:
	5.5.4.1, 7.5.2 c)	
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		

	Reference to ETS 300 267-1 [3]:	Other relevant reference:
	5.5.4.1, 7.5.2 c),	
TSS reference	NT7V/DEST/BV/VTL/FBA/ST	
Selection criteria	R 1.2 AND R 3.1	
	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]:	Other relevant reference:	
	5.5.4.1, 7.5.2 c)		
TSS reference	NT7V/DEST/BV/VTL/FBA/ST	•	
Selection criteria	R 1.2 AND R 3.1	R 1.2 AND R 3.1	
Test purpose	fallback allowed SETUP message containing a HLC=telephony, but not assumes that fallback to the to	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	
Cross reference			
Comments			

VTP211_23	Reference to ETS 300 267-1 [3]:	Other relevant reference:	
	5.5.4.1, 7.5.2 c)		
TSS reference	NT7V/DEST/BV/VTL/FBA/ST	NT7V/DEST/BV/VTL/FBA/ST	
Selection criteria	R 1.2 AND R 3.1	R 1.2 AND R 3.1	
Test purpose	fallback allowed SETUP message containing a HLC=telephony, but not assumes that fallback to the to	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	
Cross reference			
Comments			

VTP211_24	Reference to ETS 300 267-1 [3]:	Other relevant reference:
	5.5.2.1, 5.5.4.1, 7.5.2 c)	
TSS reference	NT7V/DEST/BV/VTL/FBA/ST	
Selection criteria	R 1.2 AND R 3.1	
	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	

_	<b>Reference to ETS 300 267-1 [3]:</b> 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	
	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]:	Other relevant reference:
	5.5.2.1, 5.6.4.1, 7.6 d)	
TSS reference	NT7V/DEST/BV/VTL/FBA/PT	
Selection criteria	R 1.2 AND R 3.2	
Test purpose	videotelephony fallback allowed SET PROCEEDING message, containing a Fresulted in a telecommunications sellbLC=telephony,	resent call state N6, having sent a UP message, on receipt of a CALL PI=#5 "interworking has occurred and has rvice change" and a BC=speech and sphony 3,1 kHz teleservice has occurred seeding 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	videotelephony fallback allowed SET PROCEEDING message, containing a Fresulted in a telecommunications se HLC=videotelephony_ic,	resent call state N6, having sent a UP message, on receipt of a CALL PI=#5 "interworking has occurred and has rvice change" and a BC=speech and ephony 3,1 kHz teleservice has occurred ceeding call state N9.
Cross reference		
Comments	Fallback occurs within the private ISDN	

	<b>Reference to ETS 300 267-1 [3]:</b> 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	
	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]:	Other relevant reference:
	5.5.2.1, 5.6.4.1, 7.6 d)	
TSS reference	NT7V/DEST/BV/VTL/FBA/PT	
Selection criteria	R 1.2 AND R 3.2	
	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]:	Other relevant reference:
	7.5.2 1), 7.6 first bullet item	
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]:	Other relevant reference:
	5.5.7, 5.6.7, 7.5.3, 7.6	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	videotelephony fallback not allowed point data link, is capable of sending a DISC of simultaneously providing in mode, encoded according to and enters the Disconnect ind	Receiving call state N25, having sent a SETUP message, delivered on a point to CONNECT message containing a PI=#8 and -band tones and announcement in a 3,1 kHz o CCITT Recommendation G.711 [6] A-law lication call state N12.
Cross reference	Related GTP: GTP212_06.	
Comments		s, when the SETUP message has been sent te a network disconnect indication, IUT shall

VTP212_03	Reference to ETS 300 267-1 [3]:	Other relevant reference:
	5.5.7, 5.6.7, 7.5.3, 7.6	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	videotelephony fallback not allowed SE point data link, is capable of sending a DISCON of simultaneously providing in-bar mode, encoded according to Co and enters the Disconnect indicate	I Proceeding call state N9, having sent a ETUP message, delivered on a point to NECT message containing a PI=#8 and not tones and announcement in a 3,1 kHz CITT Recommendation G.711 [6] A-law ion call state N12.
Cross reference	Related GTP: GTP212_07.	
Comments	According to basic call requirements, when via the broadcast data link, to indicate a send a RELEASE message	nen the SETUP message has been sent network disconnect indication, IUT shall

# 5.3.1.3.3 Connection management

VTP213_01	Reference to ETS 300 267-1 [3]:	Other relevant reference:	
	7.5.2, 7.6 (last paragraph)		
TSS reference	NT7V/DEST/BV/VTL/CMN		
Selection criteria	R 1.2	R 1.2	
Test purpose	and in the Null call state N0 for videotelephony call requiring two consists capable of sending a SETUR	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]:	Other relevant reference:
	5.5.7, 5.6.7, 7.5.3, 7.6	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 DISCONNECT message from the calling DISCONNECT message to the called us	g user, the IUT shall send a

VTP213_03	Reference to ETS 300 267-1 [3]:	Other relevant reference:
	5.5.7, 5.6.7, 7.5.3, 7.6	ETS 300 102-1 [1] 5.3.4
TSS reference	NT7V/DEST/BV/VTL/CMN	
Selection criteria	R 1.2	
Test purpose	state N10, with a call of the video 2B-channel mode, is capable of sending a DISCO PI=#8, and of presenting a tone	nterface, with CR1 and CR2 in Active call stelephony teleservice in progress in a NNECT message, on CR1, containing a or announcement in a 3,1 kHz mode on TT Recommendation G.711 [6] A-law and call state N12.
Cross reference	Related GTP: GTP213_02.	
Comments	According to basic call requirements, in DISCONNECT message from the callin DISCONNECT message to the called up	ig user, the IUT shall send a

### 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]:	Other relevant reference:	
	5.5.2.2 c), 5.6.2.2 e)		
TSS reference	NT7V/DEST/BI/GEN/FBA/ST_T		
Selection criteria	MC 3.2 OR MC 4.2	MC 3.2 OR MC 4.2	
Test purpose	containing two BCs, BC1 and BC2, message, containing a BC, the info does not equal that of BC1 or BC2,	Il state N6, having sent a SETUP message, and no LLC, on receipt of a CONNECT rmation transfer capability field, of which, Il clearing procedures with clearing cause d".	
Cross reference			
Comments	Receipt of incompatible CONNECT.		

GTP221_02	Reference to ETS 300 267-1 [3]:	Other relevant reference:
	5.5.2.2 c), 5.6.2.2 e)	
TSS reference	NT7V/DEST/BI/GEN/FBA/ST_T	
Selection criteria	MC 3.2 OR MC 4.2	
Test purpose	message, containing two BCs, BC1 a CONNECT message, containing a BC, which, does not equal that of BC1 or BC	call state N7, having sent a SETUP and BC2, and no LLC, on receipt of a the information transfer capability field, of 2, clearing procedures with clearing cause
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	SETUP message, containing two BCs, a CONNECT message, containing a BC of which, does not equal that of BC1 or I	clearing procedures with clearing cause
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]:	Other relevant reference:	
	5.5.2.2 a)		
TSS reference	NT7V/DEST/BI/GEN/FBA/ST		
Selection criteria	R 3.1 AND MC 3.2	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]:	Other relevant reference:	
	5.5.4.2		
TSS reference	NT7V/DEST/BI/GEN/FBA/ST	NT7V/DEST/BI/GEN/FBA/ST	
Selection criteria	R 3.1 AND MC 3.4	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]:	Other relevant reference:	
	5.5.4.2		
TSS reference	NT7V/DEST/BV/GEN/FBA/ST	NT7V/DEST/BV/GEN/FBA/ST	
Selection criteria	R 3.1 AND MC 3.4	R 3.1 AND MC 3.4	
Test purpose	message, containing two HLCs, HLC message, containing a HLC, which is r	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		Other relevant reference:
	5.5.4.2	
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]:	Other relevant reference:	
	5.6.2.2 a)		
TSS reference	NT7V/DEST/BI/GEN/FBA/PT	NT7V/DEST/BI/GEN/FBA/PT	
Selection criteria	R 3.2 AND MC 4.2	R 3.2 AND MC 4.2	
Test purpose	containing two BCs, BC1 and BC2, message, not containing a BC,	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	
Cross reference			
Comments	Receipt of CONNECT (no BC), fallbac	ck allowed and occurred.	

GTP221_09	Reference to ETS 300 267-1 [3]:	Other relevant reference:	
	5.6.2.2 a)		
TSS reference	NT7V/DEST/BI/GEN/FBA/PT		
Selection criteria	R 3.2 AND MC 4.2	R 3.2 AND MC 4.2	
Test purpose	message, containing two BCs, BC1 CONNECT message, not containing a	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), fallbac	k allowed and occurred.	

GTP221_10	Reference to ETS 300 267-1 [3]:	Other relevant reference:	
	5.6.2.2 a)		
TSS reference	NT7V/DEST/BI/GEN/FBA/PT	NT7V/DEST/BI/GEN/FBA/PT	
Selection criteria	R 3.2 AND MC 4.2	R 3.2 AND MC 4.2	
Test purpose	SETUP message, containing two BCs, a CONNECT message, not containing a	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]:	Other relevant reference:	
	5.6.2.2 c)		
TSS reference	NT7V/DEST/BI/GEN/FBA/PT	NT7V/DEST/BI/GEN/FBA/PT	
Selection criteria	R 3.2 AND MC 4.2	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 SETUF fallback.	; the calling user and the IUT allowed	

GTP221_12	Reference to ETS 300 267-1 [3]:	Other relevant reference:
	5.6.2.2 e)	
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]:	Other relevant reference:	
	5.6.2.2 e)		
TSS reference	NT7V/DEST/BI/GEN/FBA/PT		
Selection criteria	R 3.2 AND MC 4.2	R 3.2 AND MC 4.2	
Test purpose	SETUP message, containing two BCs, a PROGRESS message, containing a field, of which, does not equal that of BC	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	
Cross reference			
Comments			

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

GTP221_15	Reference to ETS 300 267-1 [3]:	Other relevant reference:	
	5.6.2.2 f)		
TSS reference	NT7V/DEST/BI/GEN/FBA/PT	NT7V/DEST/BI/GEN/FBA/PT	
Selection criteria	R 3.2 AND MC 4.2	R 3.2 AND MC 4.2	
Test purpose	containing two BCs, BC1 and BC PROCEEDING message, containing I	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	
Cross reference			
Comments			

GTP221_16	Reference to ETS 300 267-1 [3]:	Other relevant reference:	
	5.6.2.2 f)		
TSS reference	NT7V/DEST/BI/GEN/FBA/PT	NT7V/DEST/BI/GEN/FBA/PT	
Selection criteria	R 3.2 AND MC 4.2	R 3.2 AND MC 4.2	
Test purpose	containing two BCs, BC1 and BC2, message, containing BC1, but not con	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	
Cross reference			
Comments	Receipt of ALERTING.		

GTP221_17	Reference to ETS 300 267-1 [3]:	Other relevant reference:	
	5.6.2.2 f)		
TSS reference	NT7V/DEST/BI/GEN/FBA/PT	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]:	Other relevant reference:	
	5.6.2.2 f)		
TSS reference	NT7V/DEST/BI/GEN/FBA/PT		
Selection criteria	R 3.2 AND MC 4.2	R 3.2 AND MC 4.2	
Test purpose	SETUP message, containing two BC an ALERTING message, containing E	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	
Cross reference			
Comments			

GTP221_19	Reference to ETS 300 267-1 [3]:	Other relevant reference:
	5.6.2.2 f)	
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]:	Other relevant reference:	
	5.6.2.2 g)		
TSS reference	NT7V/DEST/BI/GEN/FBA/PT		
Selection criteria	R 3.2 AND MC 4.2	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]:	Other relevant reference:	
	5.6.2.2 g)		
TSS reference	NT7V/DEST/BI/GEN/FBA/PT		
Selection criteria	R 3.2 AND MC 4.2	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]:	Other relevant reference:	
	5.6.2.2 g)		
TSS reference	NT7V/DEST/BI/GEN/FBA/PT		
Selection criteria	R 3.2 AND MC 4.2	R 3.2 AND MC 4.2	
Test purpose	message, containing two BCs, BC1 PROGRESS message, containing a F	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]:	Other relevant reference:	
	5.6.2.2 g)		
TSS reference	NT7V/DEST/BI/GEN/FBA/PT		
Selection criteria	R 3.2 AND MC 4.2	R 3.2 AND MC 4.2	
Test purpose	SETUP message, containing two BCs an ALERTING message, containing a	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		Other relevant reference:
	5.6.2.2 g)	
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]:	Other relevant reference:
	5.6.4.2 a)	
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]:	Other relevant reference:	
	5.6.4.2 a)		
TSS reference	NT7V/DEST/BI/GEN/FBA/PT		
Selection criteria	R 3.2 AND MC 4.4	R 3.2 AND MC 4.4	
Test purpose		d call state N7, having sent a SETUP 1 and HLC2, on receipt of a CONNECT patibility is unknown.	
Cross reference			
Comments			

GTP221_27	Reference to ETS 300 267-1 [3]:	Other relevant reference:	
	5.6.4.2 a)		
TSS reference	NT7V/DEST/BV/GEN/FBA/PT		
Selection criteria	R 3.2 AND MC 4.4	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			

Page 69 ETS 300 267-5: April 1998

# 5.3.2.2 Telephony 7 kHz teleservice

# 5.3.2.2.1 Fallback allowed

TTP221_01	Reference to ETS 300 267-1 [3]:	Other relevant reference:	
	6.6 d), 5.6.2.2 g)		
TSS reference	NT7V/DEST/BI/TL7/FBA		
Selection criteria	R 1.1 AND R 3.2	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]:	Other relevant reference:
	6.6 d), 5.6.2.2 g)	
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	e private ISDN.

TTP221_03	Reference to ETS 300 267-1 [3]:	Other relevant reference:
	6.6 d), 5.6.2.2 g)	
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]:	Other relevant reference:
	6.6 d), 5.6.2.2 g)	
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 th	e private ISDN.

TTP221_05	Reference to ETS 300 267-1 [3]:	Other relevant reference:
	6.6 d), 5.6.2.2 g)	
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	ne private ISDN.

#### Videotelephony teleservice 5.3.2.3

#### Fallback allowed 5.3.2.3.1

VTP221_01	Reference to ETS 300 267-1 [3]:	Other relevant reference:
	7.6 c)	
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]:	Other relevant reference:
	7.6 c)	
TSS reference	NT7V/DEST/BI/VTL/FBA	
Selection criteria	R 1.2 AND R 3.2	
	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]:	Other relevant reference:
	7.6 c)	
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]:	Other relevant reference:
	5.6.2.2 g), 7.6 d)	
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	ne private ISDN.

VTP221_05	Reference to ETS 300 267-1 [3]:	Other relevant reference:
	5.6.2.2 g), 7.6 d)	
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	e private ISDN.

VTP221_06	Reference to ETS 300 267-1 [3]:	Other relevant reference:
	5.6.2.2 g), 7.6 d)	
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 th	e private ISDN.

VTP221_07	Reference to ETS 300 267-1 [3]:	Other relevant reference:
	5.6.2.2 g), 7.6 d)	
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]:	Other relevant reference:
	5.6.2.2 g), 7.6 d),	
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 th	e 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]:	Other relevant reference:
	7.6 d)	
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 th	e private ISDN.

VTP221_11	Reference to ETS 300 267-1 [3]:	Other relevant reference:
	7.6 d)	
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:	
	,: 0,		
TSS reference	NT7V/DEST/BI/VTL/FBA		
Selection criteria	R 1.2 AND R 3.2	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	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]:	Other relevant reference:	
	7.6 d)		
TSS reference	NT7V/DEST/BI/VTL/FBA		
Selection criteria	R 1.2 AND R 3.2	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]:	Other relevant reference:	
	7.6 d)		
TSS reference	NT7V/DEST/BI/VTL/FBA	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	1	Other relevant reference:
	[7.6 d)	
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	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]:	Other relevant reference:
	7.6 d)	
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	e private ISDN.

VTP221_19	Reference to ETS 300 267-1 [3]:	Other relevant reference:
	7.6 d)	
TSS reference	NT7V/DEST/BI/VTL/FBA	
Selection criteria	R 1.2 AND R 3.2	
	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	<b>Reference to ETS 300 267-1 [3]:</b> 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 th	e private ISDN.

VTP221_21	Reference to ETS 300 267-1 [3]:	Other relevant reference:	
	7.6 d)		
TSS reference	NT7V/DEST/BI/VTL/FBA		
Selection criteria	R 1.2 AND R 3.2	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]:	Other relevant reference:
	7.6 d)	
TSS reference	NT7V/DEST/BI/VTL/FBA	
Selection criteria	R 1.2 AND R 3.2	
	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]:	Other relevant reference:	
	7.6 d)		
TSS reference	NT7V/DEST/BI/VTL/FBA		
Selection criteria	R 1.2 AND R 3.2	R 1.2 AND R 3.2	
Test purpose	videotelephony fallback allowed SETI message, containing a PI=#5, a BC=sp assumes that fallback to the te	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]:	Other relevant reference:
	[7.6 d]	
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	e private ISDN.

#### 5.3.3 Inopportune behaviour

#### Generic requirements 5.3.3.1

#### Fallback allowed 5.3.3.1.1

GTP231_01	Reference to ETS 300 267-1 [3]:	Other relevant reference:	
	5.6.2.2 b)		
TSS reference	NT7V/DEST/BO/GEN/FBA		
Selection criteria	R 3.2 AND MC 4.2	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]:	Other relevant reference:
	5.6.2.2 b)	
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]:	Other relevant reference:	
	5.6.2.2 b)		
TSS reference	NT7V/DEST/BO/GEN/FBA		
Selection criteria	R 3.2 AND MC 4.2	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]:	Other relevant reference:	
	5.6.4.2 b)		
TSS reference	NT7V/DEST/BO/GEN/FBA	·	
Selection criteria	R 3.2 AND MC 4.4	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]:	Other relevant reference:	
	5.6.4.2 b)		
TSS reference	NT7V/DEST/BO/GEN/FBA		
Selection criteria	R 3.2 AND MC 4.4	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]:	Other relevant reference:
	5.6.4.2 b)	
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.	

Page 78 ETS 300 267-5: April 1998

### 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].

Page 79 ETS 300 267-5: April 1998

## Annex A (informative): Cross references: Generic, telephony 7 kHz and videotelephony 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		<u> </u>
GTP111 14	TTP111_01	
GTP111_14	TTP111 02	
GTP111_15	111 111_02	VTP111 01
GTP111_17		VTP111_02
GTP111_17		V11 111_02
GTP111_10	TTP111_10	
GTP111_19 GTP111_20	TTP111_10	
GTP111_20	TTP111_11	
GTP111_21 GTP111_22	TTP111_12	
GTP111_22 GTP111_23	IIFIII_I3	VTP111_13
<del>_</del>		_
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		
<u> </u>		

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_00
GTP211_20		V11 211_10
GTP211_31		VTP211_13, VTP211_11
GTP211_32		VTP211_13, VTP211_14
GTP211_32		VTP211_05
GTP211_33		VTP211_05
GTP211_34		VTP211_00 VTP211_07
GTP211_35		V1F211_07
	<u> </u>	1
GTP212_01		
GTP212_02		
GTP212_03	TTD040.00	
GTP212_04	TTP212_02	
GTP212_05	TTP212_03	\/TD040_00
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_00	VTP211_04
GTP221_10	111 211_0+	VII ZII_07
GTP221_11		
GTP221_12 GTP221_13		+
GTP221_13 GTP221_14		+
GTP221_14 GTP221_15		+
GIFZZI_IO		

## 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_01
TTP112_02	VTP112_02
TTP112_03	VTP112_03
TTP112_05	VTP112_04
TTP112_05	VTP112_06
TTP113_01	VTP113_01 VTP113_02
TTDOLL	
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

Table A.2 (concluded)

Telephony 7 kHz	Videotelephony
relephony / Kinz	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

Page 84 ETS 300 267-5: April 1998

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