



**ETSI
TECHNICAL
REPORT**

ETR 299-1

September 1996

Source: ETSI TC-SPS

Reference: DTR/SPS-05114-1

ICS: 33.080

Key words: ISDN, DSS1, basic, supplementary service, testing, TSS&TP

**Integrated Services Digital Network (ISDN);
Digital Subscriber Signalling System No. one (DSS1) protocol;
Network Integration Testing (NIT);
ISDN end-to-end testing;
Part 1: Test Suite Structure and Test purposes (TSS&TP)
specification**

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

X.400: c=fr, a=atlas, p=etsi, s=secretariat - **Internet:** secretariat@etsi.fr

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

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

© European Telecommunications Standards Institute 1996. All rights reserved.

Contents

Foreword	5
Introduction	5
1 Scope	7
2 References	7
3 Definitions.....	9
3.1 Definitions related to conformance testing.....	9
3.2 Definitions related to ETS 300 102-1	10
3.3 Definitions related to test purpose descriptions	10
4 Abbreviations.....	12
5 Test suite structure.....	13
5.1 ISDN-ISDN.....	13
5.2 ISDN-PSTN.....	14
5.3 PSTN-ISDN.....	14
6 Test purposes	15
6.1 Introduction	15
6.1.1 Test purpose naming convention	15
6.1.2 Source of test purpose definition.....	15
6.1.3 Test purpose structure	15
6.1.4 Test strategy.....	15
6.1.5 End-to-end performance objectives	16
6.2 Test purposes	17
6.2.1 Test purposes for ISDN-ISDN.....	17
6.2.1.1 Test purposes for ISDN-ISDN, basic call	17
6.2.1.2 Test purposes for ISDN-ISDN, supplementary services	33
6.2.1.2.1 Bearer capability "speech"	33
6.2.1.2.2 Bearer capability "unrestricted digital information"	46
6.2.1.3 Test purposes for ISDN-ISDN, B-channel end-to-end performance	59
6.2.2 Test purposes for ISDN-PSTN.....	59
6.2.2.1 Test purposes for ISDN-PSTN, basic call	59
6.2.2.2 Test purposes for ISDN-PSTN, supplementary services	63
6.2.3 Test purposes for PSTN-ISDN.....	65
6.2.3.1 Test purposes for PSTN-ISDN, basic call	65
6.2.3.2 Test purposes for PSTN-ISDN, supplementary services	67
History.....	69

Blank page

Foreword

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

ETRs are informative documents resulting from ETSI studies which are not appropriate for European Telecommunication Standard (ETS) or Interim European Telecommunication Standard (I-ETS) status. An ETR may be used to publish material which is either of an informative nature, relating to the use or the application of ETSs or I-ETSs, or which is immature and not yet suitable for formal adoption as an ETS or an I-ETS.

This ETR is part 1 of a multi-part report covering the Integrated Services Digital Network (ISDN) network integration end-to-end testing, as described below:

Part 1: "Test Suite Structure and Test Purposes (TSS&TP) specification";

Part 2: "Implementation Conformance Statement (ICS) proforma, Abstract Test Suite (ATS) and partial Implementation eXtra Information for Testing (IXIT) proforma specification".

Introduction

This ETR contains the Test Suite Structure and Test Purposes (TSS&TP) developed in the EURESCOM project P412 "Methodology and tools for ISDN Network Integration and Traffic Route Testing" for testing the international European ISDN, covering Network Integration Testing (NIT) between ISDN-ISDN, ISDN-PSTN and PSTN-ISDN networks. The objective is to verify the level of international end-to-end support of ISDN services. Both bearer services (and associated teleservices) and supplementary services are checked for interworking capability and compatibility, in the international European ISDN.

The European ISDN is made up by connecting the different national networks. End-to-end NIT covers all the testing activities necessary to assess the correct behaviour of the interconnected network from the point of view of access interfaces, network side.

Included are the test purposes developed in the preceding EURESCOM project P104 with additional test purposes for the basic call and supplementary services that are supported by the international ISDN User Part (ISUP) versions 1 and 2, and test purposes for end-to-end performance to check B-channel stability and quality. The performance objectives take into consideration the definitions present in the relevant ITU-T Recommendations and adopt the 24 hour measurement period and target values used by ETSI for Open Network Provision (ONP) 64 kbit/s leased line applications.

Blank page

1 Scope

This first part of ETR 299 specifies the Test Suite Structure and Test Purposes (TSS&TP) for the network side of the T reference point or coincident S and T reference point (as defined in ITU-T Recommendation I.411 [35]) for the pan-European Integrated Services Digital Network (ISDN) as provided by European public telecommunications operators by means of the Digital Subscriber Signalling System No. one (DSS1) protocol, for Network Integration Testing (NIT) covering the end-to-end support of ISDN services.

2 References

For the purposes of this ETR, the following references apply:

- [1] ETS 300 102-1 (1990) including amendment A2 (1993): "Integrated Services Digital Network (ISDN); User-network interface layer 3; Specifications for basic call control".
- [2] ETS 300 083 (1993): "Integrated Services Digital Network (ISDN); Circuit mode structured bearer service category usable for speech information transfer; Terminal requirements necessary for end-to-end compatibility".
- [3] ETS 300 084 (1993): "Integrated Services Digital Network (ISDN); Circuit mode structured bearer service category usable for 3,1 kHz audio information transfer; Terminal requirements necessary for end-to-end compatibility".
- [4] ETS 300 267-1 (1994) including amendment 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".
- [5] ETS 300 080 (1992): "Integrated Services Digital Network (ISDN); ISDN lower layer protocols for telematic terminals".
- [6] ETS 300 103 (1990): "Integrated Services Digital Network (ISDN); Support of CCITT Recommendation X.21, X.21 bis and X.20bis based Data Terminal Equipments (DTEs) by an ISDN; Synchronous and asynchronous terminal adaption functions".
- [7] ETS 300 092-1 (1992) including amendment A2 (1994): "Integrated Services Digital Network (ISDN); Calling Line Identification Presentation (CLIP) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [8] ETS 300 093-1 (1992): "Integrated Services Digital Network (ISDN); Calling Line Identification Restriction (CLIR) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [9] ETS 300 097-1 (1992) including amendment A1 (1994): "Integrated Services Digital Network (ISDN); Connected Line Identification Presentation (COLP) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [10] ETS 300 098-1 (1992): "Integrated Services Digital Network (ISDN); Connected Line Identification Restriction (COLR) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [11] ETS 300 138-1 (1992) including amendment A1 (1996): "Integrated Services Digital Network (ISDN); Closed User Group (CUG) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".

- [12] ETS 300 061-1 (1992): "Integrated Services Digital Network (ISDN); Subaddressing (SUB) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [13] ETS 300 055-1 (1992): "Integrated Services Digital Network (ISDN); Terminal Portability (TP) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [14] ETS 300 286-1 (1996): "Integrated Services Digital Network (ISDN); User-to-User Signalling (UUS) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [15] ETS 300 185-1 (1993) including amendment A1 (1995): "Integrated Services Digital Network (ISDN); Conference call, add-on (CONF) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [16] ETS 300 207-1 (1994): "Integrated Services Digital Network (ISDN); Diversion supplementary services; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [17] ETS 300 210-1 (1996): "Integrated Services Digital Network (ISDN); Freephone (FPH) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [18] ETS 300 130-1 (1992): "Integrated Services Digital Network (ISDN); Malicious Call Identification (MCID) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [19] ETS 300 188-1 (1993): "Integrated Services Digital Network (ISDN); Three-Party (3PTY) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [20] ETS 300 141-1 (1992): "Integrated Services Digital Network (ISDN); Call Hold (HOLD) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [21] ETS 300 058-1 (1992): "Integrated Services Digital Network (ISDN); Call Waiting (CW) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [22] ETS 300 359-1 (1995): "Integrated Services Digital Network (ISDN); Completion of Calls to Busy Subscriber (CCBS) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [23] ETS 300 369-1 (1995): "Integrated Services Digital Network (ISDN); Explicit Call Transfer (ECT) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [24] ETS 300 195-1 (1995): "Integrated Services Digital Network (ISDN); Supplementary service interactions; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [25] ETS 300 196-1 (1993) including amendment A1 (1995): "Integrated Services Digital Network (ISDN); Generic functional protocol for the support of supplementary services; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [26] ETS 300 289 (1994) "Business Telecommunications (BTC); 64 kbit/s digital unrestricted leased line with octet integrity (D64U); Connection characteristics".
- [27] TBR 8 (1994): "Integrated Services Digital Network (ISDN); Telephony 3,1 kHz teleservice; Attachment requirements for handset terminals".

- [28] ETR 018 (1995): "Integrated Services Digital Network (ISDN); Application of the Bearer Capability (BC), High Layer Compatibility (HLC) and Low Layer Compatibility (LLC) information elements by terminals supporting ISDN services".
- [29] ETR 193 (1995): "Methods for Testing and Specification (MTS); Network Integration Testing (NIT); Methodology aspects; Test Co-ordination Procedure (TCP) style guide".
- [30] ITU-T Recommendation G.821 (1996): "Error performance of an international digital connection operating at a bit rate below the primary rate and forming part of an Integrated Services Digital Network".
- [31] CCITT Recommendation G.822 (1988): "Controlled slip rate objectives of an international digital connection".
- [32] CCITT Recommendation O.152 (1988): "Error performance measuring equipment for 64 kbit/s paths".
- [33] ITU-T Recommendation I.112 (1993): "Vocabulary and terms for ISDNs".
- [34] ITU-T Recommendation I.210 (1993): "Principles of the telecommunication services supported by an ISDN and the means to describe them".
- [35] ITU-T Recommendation I.411 (1993): "ISDN user-network interfaces - Reference configurations".
- [36] CCITT Recommendation E.164 (1991): "Numbering plan for the ISDN era".
- [37] ISO/IEC 9646-1: "Information Technology-OSI Conformance Testing Methodology and Framework, Part 1: General Concepts".
- [38] ISO/IEC 9646-2: "Information Technology-OSI Conformance Testing Methodology and Framework, Part 2: Abstract Test Suite Specification".
- [39] ISO/IEC 9646-3: "Information Technology-OSI Conformance Testing Methodology and Framework, Part 3: The Tree and Tabular Combined Notation".

3 Definitions

For the purposes of this ETR, the following definitions apply:

3.1 Definitions related to conformance testing

abstract test case: Refer to ISO/IEC 9646-1 [37].

abstract test suite: Refer to ISO/IEC 9646-1 [37].

Implementation Under Test (IUT): Refer to ISO/IEC 9646-1 [37].

lower tester: Refer to ISO/IEC 9646-1 [37].

Protocol Implementation Conformance Statement (PICS): Refer to ISO/IEC 9646-1 [37].

PICS proforma: Refer to ISO/IEC 9646-1 [37].

Protocol Implementation eXtra Information for Testing (PIXIT): Refer to ISO/IEC 9646-1 [37].

PIXIT proforma: Refer to ISO/IEC 9646-1 [37].

point of control and observation: Refer to ISO/IEC 9646-1 [37].

system under test: Refer to ISO/IEC 9646-1 [37].

test purpose: Refer to ISO/IEC 9646-1 [37].

3.2 Definitions related to ETS 300 102-1

Integrated Services Digital Network (ISDN): See ITU-T Recommendation I.112 [33], definition 308.

ISDN number: A number conforming to the numbering and structure specified in CCITT Recommendation E.164 [36].

service; telecommunication service: See ITU-T Recommendation I.112 [33], definition 201.

supplementary service: See ITU-T Recommendation I.210 [34], subclause 2.4.

user: The DSS1 protocol entity at the User side of the user-network interface where a T reference point or coincident S and T reference point applies.

user (S/T): The DSS1 protocol entity at the User side of the user-network interface where a coincident S and T reference point applies.

user (T): The DSS1 protocol entity at the User side of the user-network interface where a T reference point applies (User is the Private ISDN).

3.3 Definitions related to test purpose descriptions

BC = 3,1 kHz audio: A Bearer capability information element with its information transfer capability field set to "3,1 kHz Audio" and its user information layer one protocol field set to "G.711 A-law" (see ETS 300 084 [3]).

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" (see ETS 300 083 [2]).

BC = UDI/TA: A Bearer capability information element with its information transfer capability set to "unrestricted digital information with tones/announcements" and its user information layer one protocol field set to "Recommendations H.221 and H.242" (see ETS 300 267-1 [4]).

BC = UDI: A Bearer capability information element with its information transfer capability set to "unrestricted digital information" (see ETS 300 102-1 [1]).

BC = V110/X30: A Bearer capability information element with its information transfer capability set to "unrestricted digital information" and its user information layer 1 field set to "CCITT standardized rate adaption V.110/X.30", including sync./async. and user rate values (see ETS 300 102-1 [1]).

CF active: The call forwarding (U, B or NR) supplementary service is already activated with the address of user C (see ETS 300 207-1 [16]).

CUG default request: The calling user does not include an explicit request for the CUG supplementary service in the outgoing SETUP message (see ETS 300 138-1 [11]).

errored second: A second with one or more bit errors (see ITU-T Recommendation G.821 [30]).

Errored Seconds Ratio (ESR): The ratio of errored seconds over all seconds within a specified measuring period, where neither are counted during unavailability periods (see ITU-T Recommendation G.821 [30]).

HLC = facsimile group 2/3: A High Layer compatibility information element with its high layer characteristics identification field set to "facsimile group 2/3 (Rec. F.182)" (see ETS 300 102-1 [1]).

HLC = facsimile group 4: A High Layer compatibility information element with its high layer characteristics identification field set to "facsimile group 4 class 1" (see ETS 300 102-1 [1] and ETS 300 080 [5]).

HLC = telephony: A High Layer compatibility information element with its high layer characteristics identification field set to "telephony" (see TBR 008 [27]).

HLC = telex: A High Layer compatibility information element with its high layer characteristics identification field set to "telex" (see ETS 300 102-1 [1]).

HLC = videotelephony_ic: A High Layer compatibility information element with its high layer characteristics identification field set to "videotelephony (Rec. F.721)" and its extended audiovisual characteristics field set to "capability set of initial channel of Rec. H.221" (see ETS 300 267-1 [4]).

LLC = telematic_term: A Low Layer compatibility information element with its user information layer 2 field indicating "ISO/IEC 7776 DTE-DTE operation" and user information layer 3 field indicating "ISO/IEC 8208" (see ETS 300 102-1 [1] and ETS 300 080 [5]).

LLC = V110/X30: A Low Layer compatibility information element with its user information layer 1 field indicating "CCITT standardized rate adaption V.110/X.30" and including sync./async. and user rate values (see ETS 300 103 [6]).

LLC = voice band data via modem: A Low Layer compatibility information element with its user information layer 1 field indicating a "modem type" coding (see ETS 300 102-1 [1]).

NPI = unknown: Numbering plan identification forwarded to the served user coded as "unknown" (see ETS 300 102-1 [1]).

octet slip: A slip of one complete octet (see CCITT Recommendation G.822 [31]).

PI = PR: Presentation Indicator forwarded to the served user coded as "Presentation restricted" (see ETS 300 102-1 [1]).

Pseudo-Random Binary Sequence (PRBS) = 2¹¹-1: Pseudo-random binary sequence according to CCITT Recommendation O.152 [32] transmitted for two consecutive periods of 24 hours. If an unavailability period of more than one hour occurred during the measuring period, it shall be extended accordingly.

severely errored second: A second where at least 0,1 % of the bits are errored (corresponds to a one-second interval with a bit-error ratio worse than 1×10^{-3}) (see ITU-T Recommendation G.821 [30]).

Severely Errored Seconds Ratio (SESR): The ratio of severely errored seconds over all seconds within a specified measuring period, where neither are counted during unavailability periods (see ITU-T Recommendation G.821 [30]).

SI = NP: Screening Indicator forwarded to the served user coded as "Network provided" (see ETS 300 102-1 [1]).

SI = UPVP: Screening Indicator forwarded to the served user coded as "User-provided, verified and passed" (see ETS 300 102-1 [1]).

slip: One or more extra or missing consecutive unit intervals in the bit stream (see CCITT Recommendation G.822 [31]).

telephony 7 kHz fallback not allowed SETUP message: A SETUP message containing a single BC = UDI/TA and a HLC = telephony (see ETS 300 267-1 [4]).

TON = international: Type of number forwarded to the served user coded as "international" (see ETS 300 102-1 [1]).

TON = unknown: Type of number forwarded to the served user coded as "unknown" (see ETS 300 102-1 [1]).

UI length = 32: The length of the User information field of the User-user information element is 32 octets (see ETS 300 286-1 [14]).

unavailability period: A period of time beginning at the first of 10 consecutive severely errored seconds and ending immediately before the first following period of 10 consecutive seconds none of which are severely errored (see CCITT Recommendation G.822 [31]).

videotelephony fallback not allowed SETUP message: A SETUP message containing a single BC = UDI/TA and a single HLC = videotelephony_ic (see ETS 300 267-1 [4]).

4 Abbreviations

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

3PTY	Three-party conference
BC	Bearer Capability information element
CCBS	Completion of Calls to Busy Subscriber
CD	Call Deflection
CFB	Call Forwarding Busy
CFNR	Call Forwarding No Reply
CFU	Call Forwarding Unconditional
CLIP	Calling Line Identification Presentation
CLIR	Calling Line Identification Restriction
COLP	Connected Line identification Presentation
COLR	Connected Line identification Restriction
CONF	Conference call, add-on
CUG	Closed User Group
CW	Call Waiting
DSS1	Digital Subscriber Signalling System No. one
ECT	Explicit Call Transfer
ESR	Errored Seconds Ratio
FPH	Freephone
FTAM	File Transfer Access and Management
HLC	High Layer Compatibility information element
ISDN	Integrated Services Digital Network
IUT	Implementation Under Test
LLC	Low Layer Compatibility information element
MCID	Malicious Call Identification
NIT	Network Integration Testing
ONP	Open Network Provision
OSI	Open Systems Interconnection
P104	EURESCOM P104 ATS v1.2
PI	Presentation Indicator
PICS	Protocol Implementation Conformance Statement
PIXIT	Protocol Implementation eXtra Information for Testing
PRBS	Pseudo-Random Binary Sequence
SESR	Severely Errored Seconds Ratio
SI	Screening Indicator
SUB	Subaddressing
TC	Test Case
TON	Type Of Number
TP	Terminal Portability
TSS&TP	Test Suite Structure and Test Purposes
UDI	Unrestricted Digital Information
UDI-TA	UDI with Tones/Announcements
UUS	User-to-User Signalling
UUS1	UUS service 1
UUS2	UUS service 2
UUS3	UUS service 3

5 Test suite structure

5.1 ISDN-ISDN

ISDN-ISDN	Basic_call (1)	Successful (1)	Speech	1101xx		
			UDI	1102xx		
			Audio	1103xx		
			UDI-TA	1104xx		
			Unsuccessful (2)	Speech	1201xx	
			UDI	1202xx		
			Audio	1203xx		
			UDI-TA	1204xx		
		Supplementary_		Speech (1)	CLIP	2101xx
		services (2)			CLIR	2102xx
					COLP	2103xx
		COLR			2104xx	
		CUG			2105xx	
		SUB			2106xx	
		TP			2107xx	
		UUS			2108xx	
		CONF			2109xx	
		CFU			2111xx	
		CFB			2112xx	
		CFNR			2113xx	
		CD			2114xx	
		FPH			2115xx	
		MCID			2116xx	
		3PTY			2117xx	
		HOLD	2118xx			
		CW	2119xx			
		ECT	2121xx			
	Comb	2130xx				
		UDI (2)	CLIP	2201xx		
			CLIR	2202xx		
			COLP	2203xx		
			COLR	2204xx		
			CUG	2205xx		
			SUB	2206xx		
			TP	2207xx		
			UUS	2208xx		
			CFU	2211xx		
			CFB	2212xx		
			CFNR	2213xx		
			CD	2214xx		
			FPH	2215xx		
			MCID	2216xx		
	HOLD	2218xx				
	CW	2219xx				
	ECT	2221xx				
	Comb	2230xx				

Figure 1 (continued): Test suite structure for ISDN-ISDN

B-channel (3) (0)	Speech	3001xx
	UDI	3002xx
	Audio	3003xx
	UDI-TA	3004xx

NOTE: Numbers in brackets represent group/subgroup numbers and are used in test purpose identifiers.

Figure 1 (concluded): Test suite structure for ISDN-ISDN

5.2 ISDN-PSTN

ISDN-PSTN	Basic_call (4)	Successful (1)	Speech	4101xx
			Audio	4103xx
	Unsuccessful (2)	Speech	4201xx	
		UDI	4202xx	
		Audio	4203xx	
	Supplementary_ services (5)	Speech (1)	5100xx	

NOTE: Numbers in brackets represent group/subgroup numbers and are used in test purpose identifiers.

Figure 2: Test suite structure for ISDN-PSTN

5.3 PSTN-ISDN

PSTN-ISDN	Basic_call (6)	Successful (1)	6101xx	
			Unsuccessful (2)	6201xx
	Supplementary_ services (7)	Speech (1)		7100xx

NOTE: Numbers in brackets represent group/subgroup numbers and are used in test purpose identifiers.

Figure 3: Test suite structure for PSTN-ISDN

6 Test purposes

6.1 Introduction

For each test requirement a test purpose is defined.

6.1.1 Test purpose naming convention

The test purposes are identified by a six figure numbering scheme where the first figure identifies the test group, followed by a three figure number for subgroup and a two figure serial number (starting at 01 within each group/subgroup). Groups are organized according to the TSS (see table 1).

Table 1: Test purpose identifier naming convention scheme

Identifier:	TC <test group> <subgroup> <nn>
<test group>=	1 digit field representing group reference according to TSS 1 = ISDN-ISDN/Basic_call 2 = ISDN-ISDN/Supplementary_services 3 = ISDN-ISDN/B-channel 4 = ISDN-PSTN/Basic_call 5 = ISDN-PSTN/Supplementary_services 6 = PSTN-ISDN/Basic_call 7 = PSTN-ISDN/Supplementary_services
<subgroup> =	3 digit field representing sub group reference according to TSS
<nn> =	sequential number (01-99)

6.1.2 Source of test purpose definition

The test purposes are based on ETS 300 102-1 [1] and the applicable standards for ISDN supplementary services ([7] to [25]).

6.1.3 Test purpose structure

The test purposes are formatted as tables using the format shown in table 2. Text in bold shows the text which is always present. Plain text provides a description of each field.

Table 2: Format of a single test purpose

Identifier	Ref. to ETS 300 102-1 [1]	Other relevant ref.:
TSS reference:	Test suite structure reference	
Selection criteria:	The criteria necessary in order to select the test	
Test purpose:	Description of the test purpose	
Parameter values:	Values of parameters used for the test execution. For an explanation of the abbreviations used, see subclause 3.3	
Comments:	Any relevant comments and reference to equivalent P104 TC if applicable	

6.1.4 Test strategy

As the base standards ([1] and [7] to [25]) contain no explicit requirements for testing, the test purposes were generated as a result of an analysis of the base standards and the PICS specifications. The criteria applied include the following:

- only the requirements from the point of view of the T or coincident S and T reference point are considered;
- whether or not a test case can be built from the test purpose is not considered.

6.1.5 End-to-end performance objectives

ITU-T Recommendation G.821 [30] defines performance objectives to be met for each direction of a $N \times 64$ kbit/s ($1 \leq N < 32$) circuit-switched connection used for voice or data-type traffic. The G.821 error performance objectives for international ISDN connections are presented in table 3. A measuring period of one month is suggested as a reference.

Table 3: G.821 error performance objectives

Performance parameters	Objective
Severely errored seconds ratio	Fewer than 0,2 % of one-second intervals to have a bit-error ratio worse than 1×10^{-3}
Errored seconds ratio	Fewer than 8 % of one-second intervals to have any errors

ETS 300 289 [26] specifies the technical requirements (and test principles) for the connection characteristics of Open Network Provision (ONP) 64 kbit/s digital unrestricted leased lines with octet integrity. The end-to-end performance objectives are derived from ITU-T Recommendation G.821 [30]: the test values have been transformed to fit a measuring period of 24 hours instead of one month, taking also in consideration the circuit configurations relevant for Europe (see ETS 300 289 [26], annex B).

For the ISDN bearer services "unrestricted digital information" and "unrestricted digital information with tones/announcements", the connection characteristics of the B-channel established between users may be considered equivalent in service to a ONP 64 kbit/s digital unrestricted leased line, because the ISDN circuit connection provides equivalent access to the full digital bit rate of 64 kbit/s with no restrictions on the binary content, using network timing for both directions of the transmission. For those bearer services, it is proposed to adopt the performance objectives defined in ETS 300 289 [26] for the performance of the end-to-end B-channel connection. Table 4 presents these objectives, using a 24 hour measurement period.

Table 4: B-channel performance objectives

Error parameters	Value per 24 hour period
Octet slip	< 5
Errored seconds	< 5 324
Severely errored seconds	< 105

Octet slip

Requirement: For at least one of two consecutive 24 hour measuring periods, the number of octet slips shall be less than 5 (slips other than octet slips are considered as errors).

NOTE 1: This requirement is based on CCITT Recommendation G.822 [31], clause 2 and table 1/G.822.

Errored seconds

Requirement: For at least one of two consecutive 24 hour measuring periods, the number of errored seconds shall be less than 5 324.

NOTE 2: This 24 hour test limit corresponds to a mean errored seconds ratio of $6,4 \times 10^{-2}$.

Severely errored seconds

Requirement: For at least one of two consecutive 24 hour measuring periods, the number of severely errored seconds shall be less than 105.

NOTE 3: This 24 hour test limit corresponds to a mean severely errored seconds ratio of $1,5 \times 10^{-3}$.

6.2 Test purposes

6.2.1 Test purposes for ISDN-ISDN

6.2.1.1 Test purposes for ISDN-ISDN, basic call

110101	Ref. to ETS 300 102-1 [1], subclause 5.1.5.1	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/Speech/TC110101	
Selection criteria:		
Test purpose:	Ensure that call establishment using en-bloc sending is performed correctly	
Parameter values:	BC=speech, no HLC	
Comments:	P104 TC11101	

110102	Ref. to ETS 300 102-1 [1], subclause 5.1.5.2	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/Speech/TC110102	
Selection criteria:		
Test purpose:	Ensure that call establishment using overlap sending is performed correctly	
Parameter values:	BC=speech, no HLC	
Comments:	P104 TC11102	

110103	Ref. to ETS 300 102-1 [1], subclause 5.3.3	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/Speech/TC110103	
Selection criteria:		
Test purpose:	Ensure that the call clearing procedure is performed correctly when the calling user clears after answer	
Parameter values:	BC=speech, no HLC	
Comments:	P104 TC11103	

110104	Ref. to ETS 300 102-1 [1], subclause 5.3.3	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/Speech/TC110104	
Selection criteria:		
Test purpose:	Ensure that the call clearing procedure is performed correctly when the called user clears after answer	
Parameter values:	BC=speech, no HLC	
Comments:	P104 TC11104	

110105	Ref. to ETS 300 102-1 [1], subclause 4.5.16	Other relevant ref.: TBR 8 [27], subclause 5.1.3, ETR 018 [28], subclause 6.3.1
TSS reference:	ISDN-ISDN/Basic_call/Successful/Speech/TC110105	
Selection criteria:	Telephony 3,1 kHz teleservice	
Test purpose:	Support of telephony 3,1 kHz teleservice: Ensure that the HLC information is transported transparently through the network and correctly delivered to the called user	
Parameter values:	BC=speech, HLC = telephony	
Comments:	P104 TC11105	

110201	Ref. to ETS 300 102-1 [1], subclause 5.1.5.1	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/TC110201	
Selection criteria:		
Test purpose:	Ensure that call establishment using en-bloc sending is performed correctly	
Parameter values:	BC=UDI, no HLC	
Comments:	P104 TC11301	

110202	Ref. to ETS 300 102-1 [1], subclause 5.1.5.2	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/TC110202	
Selection criteria:		
Test purpose:	Ensure that call establishment using overlap sending is performed correctly	
Parameter values:	BC=UDI, no HLC	
Comments:	P104 TC11302	

110203	Ref. to ETS 300 102-1 [1], subclause 5.3.3	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/TC110203	
Selection criteria:		
Test purpose:	Ensure that the call clearing procedure is performed correctly when the calling user clears after answer	
Parameter values:	BC=UDI, no HLC	
Comments:	P104 TC11303	

110204	Ref. to ETS 300 102-1 [1], subclause 5.3.3	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/TC110204	
Selection criteria:		
Test purpose:	Ensure that the call clearing procedure is performed correctly when the called user clears after answer	
Parameter values:	BC=UDI, no HLC	
Comments:	P104 TC11304	

110205	Ref. to ETS 300 102-1 [1], subclause 4.5.16	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/TC110205	
Selection criteria:	Telefax G4 teleservice	
Test purpose:	Support of Telefax G4 teleservice (no LLC): Ensure that the HLC information is transported transparently through the network and correctly delivered to the called user	
Parameter values:	BC=UDI, HLC=facsimile group 4, no LLC	
Comments:	P104 TC11305	

110206	Ref. to ETS 300 102-1 [1], subclauses 4.5.16, 4.5.18	Other relevant ref.: ETS 300 080 [5], subclause 4.5.2.1, ETR 018 [28], subclause 6.3.2
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/TC110206	
Selection criteria:	Telefax G4 teleservice	
Test purpose:	Support of telefax G4 teleservice: Ensure that the LLC and HLC information is transported transparently through the network and correctly delivered to the called user	
Parameter values:	BC=UDI, HLC=facsimile group 4, LLC=telematic_term	
Comments:	P104 TC11306	

110207	Ref. to ETS 300 102-1 [1], subclause 4.5.16	Other relevant ref.: ETR 018 [28], subclause 7.1.3
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/TC110207	
Selection criteria:	Teletex terminal (basic and mixed mode)	
Test purpose:	Support of teletex basic and mixed mode terminals: Ensure that the LLC and HLC information is transported transparently through the network and correctly delivered to the called user	
Parameter values:	BC=UDI, HLC = teletex mixed mode, LLC=telematic_term	
Comments:	P104 TC11307	

110208	Ref. to ETS 300 102-1 [1], subclause 4.5.16	Other relevant ref.: ETR 018 [28], subclause 7.1.3
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/TC110208	
Selection criteria:	Teletex terminal (basic and processable mode)	
Test purpose:	Support of teletex basic and processable mode terminals: Ensure that the LLC and HLC information is transported transparently through the network and correctly delivered to the called user	
Parameter values:	BC=UDI, HLC = teletex processable, LLC=telematic_term	
Comments:	P104 TC11308	

110209	Ref. to ETS 300 102-1 [1], subclause 4.5.16	Other relevant ref.: ETR 018 [28], subclause 7.1.3
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/TC110209	
Selection criteria:	Teletex terminal (basic mode)	
Test purpose:	Support of teletex basic mode terminals: Ensure that the LLC and HLC information is transported transparently through the network and correctly delivered to the called user	
Parameter values:	BC=UDI, HLC = teletex basic, LLC=telematic_term	
Comments:	P104 TC11309	

110210	Ref. to ETS 300 102-1 [1], subclause 4.5.16	Other relevant ref.: ETS 300 080 [5], subclause 4.5.2.1
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/TC110210	
Selection criteria:	International videotex interworking	
Test purpose:	Support of international videotex interworking: Ensure that the LLC and HLC information is transported transparently through the network and correctly delivered to the called user	
Parameter values:	BC=UDI, HLC=videotex interworking, LLC=telematic_term	
Comments:	P104 TC11310	

110211	Ref. to ETS 300 102-1 [1], subclause 4.5.16	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/TC110211	
Selection criteria:	Telex service	
Test purpose:	Support of telex service: Ensure that the HLC information is transported transparently through the network and correctly delivered to the called user	
Parameter values:	BC=UDI, HLC=telex, no LLC	
Comments:	P104 TC11311	

110212	Ref. to ETS 300 102-1 [1], subclause 4.5.16	Other relevant ref.: ETS 300 080 [5], subclause 4.5.2.1
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/TC110212	
Selection criteria:	Message Handling Systems	
Test purpose:	Support of Message Handling Systems: Ensure that the HLC information is transported transparently through the network and correctly delivered to the called user	
Parameter values:	BC=UDI, HLC=message handling system, no LLC	
Comments:	P104 TC11312	

110213	Ref. to ETS 300 102-1 [1], subclause 4.5.16	Other relevant ref.: ETS 300 080 [5], subclause 4.5.2.1
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/TC110213	
Selection criteria:	OSI applications	
Test purpose:	Support of OSI application: Ensure that the HLC information is transported transparently through the network and correctly delivered to the called user	
Parameter values:	BC=UDI, HLC=OSI application, no LLC	
Comments:	P104 TC11313	

110214	Ref. to ETS 300 102-1 [1], subclause 4.5.16	Other relevant ref.: ETS 300 267-1 [4], clause 7
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/TC110214	
Selection criteria:	Videotelephony teleservice	
Test purpose:	Support of videotelephony teleservice: Ensure that the HLC information is transported transparently through the network and correctly delivered to the called user (Note).	
Parameter values:	BC=UDI, HLC=videotelephony_ic	
Comments:	P104 TC11314 Note: support of videotelephony using circuit-mode 64 kbit/s unrestricted digital information. This special situation is considered in ETS 300 267-1 [4], clause 7, note 1.	

110215	Ref. to ETS 300 102-1 [1], subclause 4.5.5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/TC110215	
Selection criteria:	V.110/X.30 rate adaption	
Test purpose:	Support of terminal adaptors V.110/X.30: Ensure that the BC information is transported transparently through the network and correctly delivered to the called user.	
Parameter values:	BC=V110/X30 synchronous user rate 2,4 kbit/s, no LLC	
Comments:	P104 TC11315	

110216	Ref. to ETS 300 102-1 [1], subclause 4.5.5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/TC110216	
Selection criteria:	V.110/X.30 rate adaption	
Test purpose:	Support of terminal adaptors V.110/X.30: Ensure that the BC information is transported transparently through the network and correctly delivered to the called user.	
Parameter values:	BC=V110/X30 synchronous user rate 9,6 kbit/s, no LLC	
Comments:	P104 TC11316	

110217	Ref. to ETS 300 102-1 [1], subclause 4.5.5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/TC110217	
Selection criteria:	V.110/X.30 rate adaption	
Test purpose:	Support of terminal adaptors V.110/X.30: Ensure that the BC information is transported transparently through the network and correctly delivered to the called user.	
Parameter values:	BC=V110/X30 synchronous user rate 19,2 kbit/s, no LLC	
Comments:	P104 TC11317	

110218	Ref. to ETS 300 102-1 [1], subclause 4.5.5, 4.5.18	Other relevant ref.: ETS 300 103 [6], annex I, ETR 018 [28], subclause 7.1.1
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/TC110218	
Selection criteria:	V.110/X.30 rate adaption	
Test purpose:	Support of terminal adaptors V.110/X.30: Ensure that the LLC information is transported transparently through the network and correctly delivered to the called user.	
Parameter values:	BC=UDI, LLC=V110/X30 synchronous user rate 2,4 kbit/s	
Comments:	P104 TC11318	

110219	Ref. to ETS 300 102-1 [1], subclause 4.5.18	Other relevant ref.: ETS 300 103 [6], annex I, ETR 018 [28], subclause 7.1.1
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/TC110219	
Selection criteria:	V.110/X.30 rate adaption	
Test purpose:	Support of terminal adaptors V.110/X.30: Ensure that the LLC information is transported transparently through the network and correctly delivered to the called user.	
Parameter values:	BC=UDI, LLC=V110/X30 synchronous user rate 9,6 kbit/s	
Comments:	P104 TC11319	

110220	Ref. to ETS 300 102-1 [1], subclause 4.5.18	Other relevant ref.: ETS 300 103 [6], annex I, ETR 018 [28], subclause 7.1.1
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/TC110220	
Selection criteria:	V.110/X.30 rate adaption	
Test purpose:	Support of terminal adaptors V.110/X.30: Ensure that the LLC information is transported transparently through the network and correctly delivered to the called user.	
Parameter values:	BC=UDI, LLC=V110/X30 synchronous user rate 19,2 kbit/s	
Comments:	P104 TC11320	

110221	Ref. to ETS 300 102-1 [1], subclause 4.5.5, 4.5.18	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/TC110221	
Selection criteria:	V.110/X.30 rate adaption	
Test purpose:	Support of terminal adaptors V.110/X.30: Ensure that BC and LLC information is transported transparently through the network and correctly delivered to the called user.	
Parameter values:	BC=LLC=V110/X30 synchronous user rate 2,4 kbit/s	
Comments:		

110222	Ref. to ETS 300 102-1 [1], subclause 4.5.5, 4.5.18	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/TC110222	
Selection criteria:	V.110/X.30 rate adaption	
Test purpose:	Support of terminal adaptors V.110/X.30: Ensure that BC and LLC information is transported transparently through the network and correctly delivered to the called user.	
Parameter values:	BC=LLC=V110/X30 synchronous user rate 9,6 kbit/s	
Comments:		

110223	Ref. to ETS 300 102-1 [1], subclauses 4.5.5, 4.5.18	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/TC110223	
Selection criteria:	V.110/X.30 rate adaption	
Test purpose:	Support of terminal adaptors V.110/X.30: Ensure that BC and LLC information is transported transparently through the network and correctly delivered to the called user.	
Parameter values:	BC=LLC=V110/X30 synchronous user rate 19,2 kbit/s	
Comments:		

110224	Ref. to ETS 300 102-1 [1], subclause 4.5.5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/TC110224	
Selection criteria:	V.110/X.30 rate adaption	
Test purpose:	Support of terminal adaptors V.110/X.30: Ensure that the BC information is transported transparently through the network and correctly delivered to the called user.	
Parameter values:	BC=V110/X30 asynchronous user rate 2,4 kbit/s, no LLC	
Comments:	P104 TC11321	

110225	Ref. to ETS 300 102-1 [1], subclause 4.5.5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/TC110225	
Selection criteria:	V.110/X.30 rate adaption	
Test purpose:	Support of terminal adaptors V.110/X.30: Ensure that the BC information is transported transparently through the network and correctly delivered to the called user.	
Parameter values:	BC=V110/X30 asynchronous user rate 9,6 kbit/s, no LLC	
Comments:	P104 TC11322	

110226	Ref. to ETS 300 102-1 [1], subclause 4.5.5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/TC110226	
Selection criteria:	V.110/X.30 rate adaption	
Test purpose:	Support of terminal adaptors V.110/X.30: Ensure that the BC information is transported transparently through the network and correctly delivered to the called user.	
Parameter values:	BC=V110/X30 asynchronous user rate 19,2 kbit/s, no LLC	
Comments:	P104 TC11323	

110227	Ref. to ETS 300 102-1 [1], subclause 4.5.18	Other relevant ref.: ETS 300 103 [6], annex I, ETR 018 [28], subclause 7.1.1
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/TC110227	
Selection criteria:	V.110/X.30 rate adaption	
Test purpose:	Support of terminal adaptors V.110/X.30: Ensure that the LLC information is transported transparently through the network and correctly delivered to the called user.	
Parameter values:	BC=UDI, LLC=V110/X30 asynchronous user rate 2,4 kbit/s	
Comments:	P104 TC11324	

110228	Ref. to ETS 300 102-1 [1], subclause 4.5.18	Other relevant ref.: ETS 300 103 [6], annex I, ETR 018 [28], subclause 7.1.1
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/TC110228	
Selection criteria:	V.110/X.30 rate adaption	
Test purpose:	Support of terminal adaptors V.110/X.30: Ensure that the LLC information is transported transparently through the network and correctly delivered to the called user.	
Parameter values:	BC=UDI, LLC=V110/X30 asynchronous user rate 9,6 kbit/s	
Comments:	P104 TC11325	

110229	Ref. to ETS 300 102-1 [1], subclause 4.5.18	Other relevant ref.: ETS 300 103 [6], annex I, ETR 018 [28], subclause 7.1.1
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/TC110229	
Selection criteria:	V.110/X.30 rate adaption	
Test purpose:	Support of terminal adaptors V.110/X.30: Ensure that the LLC information is transported transparently through the network and correctly delivered to the called user.	
Parameter values:	BC=UDI, LLC=V110/X30 asynchronous user rate 19,2 kbit/s	
Comments:	P104 TC11326	

110230	Ref. to ETS 300 102-1 [1], subclauses 4.5.5, 4.5.18	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/TC110230	
Selection criteria:	V.110/X.30 rate adaption	
Test purpose:	Support of terminal adaptors V.110/X.30: Ensure that BC and LLC information is transported transparently through the network and correctly delivered to the called user.	
Parameter values:	BC=LLC=V110/X30 asynchronous user rate 2,4 kbit/s	
Comments:		

110231	Ref. to ETS 300 102-1 [1], subclauses 4.5.5, 4.5.18	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/TC110231	
Selection criteria:	V.110/X.30 rate adaption	
Test purpose:	Support of terminal adaptors V.110/X.30: Ensure that BC and LLC information is transported transparently through the network and correctly delivered to the called user.	
Parameter values:	BC=LLC=V110/X30 asynchronous user rate 9,6 kbit/s	
Comments:		

110232	Ref. to ETS 300 102-1 [1], subclauses 4.5.5, 4.5.18	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/TC110232	
Selection criteria:	V.110/X.30 rate adaption	
Test purpose:	Support of terminal adaptors V.110/X.30: Ensure that BC and LLC information is transported transparently through the network and correctly delivered to the called user.	
Parameter values:	BC=LLC=V110/X30 asynchronous user rate 19,2 kbit/s	
Comments:		

110233	Ref. to ETS 300 102-1 [1], subclauses 4.5.5, 4.5.18	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/TC110232	
Selection criteria:	V.110/X.30 rate adaption	
Test purpose:	Support of terminal adaptors V.110/X.30: Ensure that the BC information is transported transparently through the network and correctly delivered to the called user.	
Parameter values:	BC=V110/X30 synchronous user rate 56 kbit/s, no LLC	
Comments:		

110234	Ref. to ETS 300 102-1 [1], subclauses 4.5.5, 4.5.18	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/TC110234	
Selection criteria:	V.110/X.30 rate adaption	
Test purpose:	Support of terminal adaptors V.110/X.30: Ensure that the LLC information is transported transparently through the network and correctly delivered to the called user.	
Parameter values:	BC=UDI, LLC=V110/X30 synchronous user rate 56 kbit/s	
Comments:		

110235	Ref. to ETS 300 102-1 [1], subclauses 4.5.5, 4.5.18	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/TC110235	
Selection criteria:	V.110/X.30 rate adaption	
Test purpose:	Support of terminal adaptors V.110/X.30: Ensure that BC and LLC information is transported transparently through the network and correctly delivered to the called user.	
Parameter values:	BC=LLC=V110/X30 synchronous user rate 56 kbit/s	
Comments:		

110240	Ref. to ETS 300 102-1 [1], subclause 4.5.16	Other relevant ref.: ETR 018 [28], subclause 7.1.3
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/TC110240	
Selection criteria:	Syntax-based videotex teleservice	
Test purpose:	Support of syntax-based videotex teleservice using end-to-end circuit connection: Ensure that the LLC and HLC information is transported transparently through the network and correctly delivered to the called user	
Parameter values:	BC=UDI, HLC=syntax-based videotex, LLC=telematic_term	
Comments:	P104 TC11309	

110250	Ref. to ETS 300 102-1 [1], subclause 4.5.16	Other relevant ref.: ETR 018 [28], subclause 6.3.7
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/TC110250	
Selection criteria:	FTAM teleservice	
Test purpose:	Support of file transfer & access management (FTAM) teleservice: Ensure that the LLC and HLC information is transported transparently through the network and correctly delivered to the called user	
Parameter values:	BC=UDI, HLC=FTAM, LLC=telematic_term	
Comments:	P104 TC11309	

110251	Ref. to ETS 300 102-1 [1], subclause 4.5.16	Other relevant ref.: ETR 018 [28], subclause 6.3.8
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/TC110251	
Selection criteria:	Eurofile transfer teleservice	
Test purpose:	Support of Eurofile transfer teleservice: Ensure that the LLC and HLC information is transported transparently through the network and correctly delivered to the called user	
Parameter values:	BC=UDI, HLC=Eurofile, LLC=telematic_term	
Comments:	P104 TC11309	

110301	Ref. to ETS 300 102-1 [1], subclause 5.1.5.1	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/Audio/TC110301	
Selection criteria:		
Test purpose:	Ensure that call establishment using en-bloc sending is performed correctly	
Parameter values:	BC=3,1 kHz audio, no HLC	
Comments:	P104 TC11201	

110302	Ref. to ETS 300 102-1 [1], subclause 5.1.5.2	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/Audio/TC110302	
Selection criteria:		
Test purpose:	Ensure that call establishment using overlap sending is performed correctly	
Parameter values:	BC=3,1 kHz audio, no HLC	
Comments:	P104 TC11202	

110303	Ref. to ETS 300 102-1 [1], subclause 5.3.3	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/Audio/TC110303	
Selection criteria:		
Test purpose:	Ensure that the call clearing procedure is performed correctly when the calling user clears after answer	
Parameter values:	BC=3,1 kHz audio, no HLC	
Comments:	P104 TC11203	

110304	Ref. to ETS 300 102-1 [1], subclause 5.3.3	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/Audio/TC110304	
Selection criteria:		
Test purpose:	Ensure that the call clearing procedure is performed correctly when the called user clears after answer	
Parameter values:	BC=3,1 kHz audio, no HLC	
Comments:	P104 TC11204	

110305	Ref. to ETS 300 102-1 [1], subclause 4.5.16	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/Audio/TC110305	
Selection criteria:	Telefax G2/G3 terminals	
Test purpose:	Support of Telefax G2/G3: Ensure that the HLC information is transported transparently through the network and correctly delivered to the called user.	
Parameter values:	BC=3,1 kHz audio, HLC=facsimile group 2/3	
Comments:	P104 TC11205	

110306	Ref. to ETS 300 102-1 [1], subclause 4.5.18	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/Audio/TC110306	
Selection criteria:	Voice band data via modem	
Test purpose:	Support of voice band data via modem: Ensure that the LLC information is transported transparently through the network and correctly delivered to the called user.	
Parameter values:	BC=3,1 kHz audio, LLC = voice band data via modem	
Comments:	P104 TC11206	

110401	Ref. to ETS 300 102-1 [1], subclause 5.1.5.1	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI-TA/TC110401	
Selection criteria:		
Test purpose:	Ensure that call establishment using en-bloc sending is performed correctly	
Parameter values:	BC=UDI/TA, no HLC	
Comments:	P104 TC11401	

110402	Ref. to ETS 300 102-1 [1], subclause 5.1.5.2	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI-TA/TC110402	
Selection criteria:		
Test purpose:	Ensure that call establishment using overlap sending is performed correctly	
Parameter values:	BC=UDI/TA, no HLC	
Comments:	P104 TC11402	

110403	Ref. to ETS 300 102-1 [1], subclause 5.3.3	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI-TA/TC110403	
Selection criteria:		
Test purpose:	Ensure that the call clearing procedure is performed correctly when the calling user clears after answer	
Parameter values:	BC=UDI/TA, no HLC	
Comments:	P104 TC11403	

110404	Ref. to ETS 300 102-1 [1], subclause 5.3.3	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI-TA/TC110404	
Selection criteria:		
Test purpose:	Ensure that the call clearing procedure is performed correctly when the called user clears after answer	
Parameter values:	BC=UDI/TA, no HLC	
Comments:	P104 TC11404	

110405	Ref. to ETS 300 267-1 [4], subclause 6.5.1	Other relevant ref.: ETR 018 [28], subclause 6.3.4
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI-TA/TC110405	
Selection criteria:	Telephony UDI-TA teleservice	
Test purpose:	Support of telephony UDI-TA teleservice: Ensure that the HLC information is transported transparently through the network and correctly delivered to the called user.	
Parameter values:	BC=UDI/TA, HLC=telephony, telephony 7 kHz fallback not allowed SETUP message	
Comments:	P104 TC11405	

110406	Ref. to ETS 300 267-1 [4], subclause 7.5.1	Other relevant ref.: ETR 018 [28], subclause 6.3.5
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI-TA/TC110406	
Selection criteria:	Videotelephony teleservice	
Test purpose:	Support of videotelephony teleservice: Ensure that the HLC information is transported transparently through the network and correctly delivered to the called user.	
Parameter values:	BC=UDI/TA, HLC = videotelephony_ic videotelephony fallback not allowed SETUP message	
Comments:		

120101	Ref. to ETS 300 102-1 [1], subclauses 5.1.4, G.1.1	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/Speech/TC120101	
Selection criteria:		
Test purpose:	Ensure that, when calling to unallocated number, the network initiate call clearing to the calling user with cause value #1 "unassigned number"	
Parameter values:	BC=speech	
Comments:	P104 TC12001	

120102	Ref. to ETS 300 102-1 [1], subclauses 5.2.5.1, G.1.7	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/Speech/TC120102	
Selection criteria:		
Test purpose:	Ensure that, when the called user is busy and responds with a RELEASE COMPLETE message indicating cause value #17 "user busy", the network transport the cause value to the calling user	
Parameter values:	BC=speech	
Comments:	P104 TC12002	

120103	Ref. to ETS 300 102-1 [1], subclauses 5.2.5.4, G.1.8	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/Speech/TC120103	
Selection criteria:		
Test purpose:	Ensure that when the called user is not responding, the network initiate call clearing to the calling user with cause value #18 "no user responding"	
Parameter values:	BC=speech	
Comments:	P104 TC12003	

120104	Ref. to ETS 300 102-1 [1], subclauses 5.2.5.4, G.1.9	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/Speech/TC120104	
Selection criteria:		
Test purpose:	Ensure that when no answer from the called user (but user alerted), the network initiate call clearing to the calling user and called user with cause value #19 "no user responding (user alerted)"	
Parameter values:	BC=speech	
Comments:	P104 TC12004	

120105	Ref. to ETS 300 102-1 [1], subclauses 5.1.9, 5.3.2, G.1.10	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/Speech/TC120105	
Selection criteria:		
Test purpose:	Ensure that when the called user rejects the call and responds with a RELEASE COMPLETE message indicating cause value #21 "call rejected", the network transport the cause value to the calling user	
Parameter values:	BC=speech	
Comments:	P104 TC12005	

120106	Ref. to ETS 300 102-1 [1], subclause G.1.13	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/Speech/TC120106	
Selection criteria:		
Test purpose:	Ensure that when the called user terminal is not connected, the network initiate call clearing to the calling user with cause value #27 "destination out of order"	
Parameter values:	BC=speech	
Comments:	P104 TC12006	

120107	Ref. to ETS 300 102-1 [1], subclauses 5.2.2, G.5.7	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/Speech/TC120107	
Selection criteria:		
Test purpose:	Ensure that when the called user is not compatible and responds with a RELEASE COMPLETE message indicating cause value #88 "called user not compatible", the network transport the cause value to the calling user	
Parameter values:	BC=speech	
Comments:	P104 TC12009	

120108	Ref. to ETS 300 102-1 [1], subclause G.1.6	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/Speech/TC120108	
Selection criteria:	Multipoint configuration for the called side	
Test purpose:	Ensure that when the calling user clears with cause value #16 "normal call clearing" before answer from called user, the network transport the cause value to the called user	
Parameter values:	BC=speech	
Comments:		

120109	Ref. to ETS 300 102-1 [1], subclause G.1.6	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/Speech/TC120109	
Selection criteria:	Point-to-point configuration for the called side	
Test purpose:	Ensure that when the calling user clears with cause value #16 "normal call clearing" before answer from called user, the network transport the cause value to the called user	
Parameter values:	BC=speech	
Comments:	P104 TC12010	

120201	Ref. to ETS 300 102-1 [1], subclauses 5.1.4, G.1.1	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/UDI/TC120201	
Selection criteria:		
Test purpose:	Ensure that, when calling to unallocated number, the network initiate call clearing to the calling user with cause value #1 "unassigned number"	
Parameter values:	BC=UDI	
Comments:		

120202	Ref. to ETS 300 102-1 [1], subclauses 5.2.5.1, G.1.7	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/UDI/TC120202	
Selection criteria:		
Test purpose:	Ensure that, when the called user is busy and responds with a RELEASE COMPLETE message indicating cause value #17 "user busy", the network transport the cause value to the calling user	
Parameter values:	BC=UDI	
Comments:		

120203	Ref. to ETS 300 102-1 [1], subclauses 5.2.5.4, G.1.8	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/UDI/TC120203	
Selection criteria:		
Test purpose:	Ensure that, when the called user is not responding, the network initiate call clearing to the calling user with cause value #18 "no user responding"	
Parameter values:	BC=UDI	
Comments:		

120204	Ref. to ETS 300 102-1 [1], subclauses 5.2.5.4, G.1.9	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/UDI/TC120204	
Selection criteria:		
Test purpose:	Ensure that when no answer from the called user (but user alerted), the network initiate call clearing to the calling user and called user with cause value #19 "no user responding (user alerted)"	
Parameter values:	BC=UDI	
Comments:		

120205	Ref. to ETS 300 102-1 [1], subclauses 5.1.9, 5.3.2, G.1.10	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/UDI/TC120205	
Selection criteria:		
Test purpose:	Ensure that when the called user rejects the call and responds with a RELEASE COMPLETE message indicating cause value #21 "call rejected", the network transport the cause value to the calling user	
Parameter values:	BC=UDI	
Comments:		

120206	Ref. to ETS 300 102-1 [1], subclause G.1.13	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/UDI/TC120206	
Selection criteria:		
Test purpose:	Ensure that when the called user terminal is not connected, the network initiate call clearing to the calling user with cause value #27 "destination out of order"	
Parameter values:	BC=UDI	
Comments:		

120207	Ref. to ETS 300 102-1 [1], subclauses 5.2.2, G.5.7	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/UDI/TC120207	
Selection criteria:		
Test purpose:	Ensure that when the called user is not compatible and responds with a RELEASE COMPLETE message indicating cause value #88 "called user not compatible", the network transport the cause value to the calling user	
Parameter values:	BC=UDI	
Comments:		

120208	Ref. to ETS 300 102-1 [1], subclause G.1.6	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/UDI/TC120208	
Selection criteria:	Multipoint configuration for the called side	
Test purpose:	Ensure that when the calling user clears with cause value #16 "normal call clearing" before answer from called user, the network transport the cause value to the called user	
Parameter values:	BC=UDI	
Comments:		

120209	Ref. to ETS 300 102-1 [1], subclause G.1.6	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/UDI/TC120209	
Selection criteria:	Point-to-point configuration for the called side	
Test purpose:	Ensure that when the calling user clears with cause value #16 "normal call clearing" before answer from called user, the network transport the cause value to the called user	
Parameter values:	BC=UDI	
Comments:		

120301	Ref. to ETS 300 102-1 [1], subclauses 5.1.4, G.1.1	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/Audio/TC120301	
Selection criteria:		
Test purpose:	Ensure that, when calling to unallocated number, the network initiate call clearing to the calling user with cause value #1 "unassigned number"	
Parameter values:	BC=3,1 kHz audio	
Comments:		

120302	Ref. to ETS 300 102-1 [1], subclauses 5.2.5.1, G.1.7	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/Audio/TC120302	
Selection criteria:		
Test purpose:	Ensure that, when the called user is busy and responds with a RELEASE COMPLETE message indicating cause value #17 "user busy", the network transport the cause value to the calling user	
Parameter values:	BC=3,1 kHz audio	
Comments:		

120303	Ref. to ETS 300 102-1 [1], subclauses 5.2.5.4, G.1.8	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/Audio/TC120303	
Selection criteria:		
Test purpose:	Ensure that, when the called user is not responding, the network initiate call clearing to the calling user with cause value #18 "no user responding"	
Parameter values:	BC=3,1 kHz audio	
Comments:		

120304	Ref. to ETS 300 102-1 [1], subclauses 5.2.5.4, G.1.9	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/Audio/TC120304	
Selection criteria:		
Test purpose:	Ensure that when no answer from the called user (but user alerted), the network initiate call clearing to the calling user and called user with cause value #19 "no user responding (user alerted)"	
Parameter values:	BC=3,1 kHz audio	
Comments:		

120305	Ref. to ETS 300 102-1 [1], subclauses 5.1.9, 5.3.2, G.1.10	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/Audio/TC120305	
Selection criteria:		
Test purpose:	Ensure that when the called user rejects the call and responds with a RELEASE COMPLETE message indicating cause value #21 "call rejected", the network transport the cause value to the calling user	
Parameter values:	BC=3,1 kHz audio	
Comments:		

120306	Ref. to ETS 300 102-1 [1], subclause G.1.13	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/Audio/TC120306	
Selection criteria:		
Test purpose:	Ensure that when the called user terminal is not connected, the network initiate call clearing to the calling user with cause value #27 "destination out of order"	
Parameter values:	BC=3,1 kHz audio	
Comments:		

120307	Ref. to ETS 300 102-1 [1], subclauses 5.2.2, G.5.7	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/Audio/TC120307	
Selection criteria:		
Test purpose:	Ensure that when the called user is not compatible and responds with a RELEASE COMPLETE message indicating cause value #88 "called user not compatible", the network transport the cause value to the calling user	
Parameter values:	BC=3,1 kHz audio	
Comments:		

120308	Ref. to ETS 300 102-1 [1], subclause G.1.6	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/Audio/TC120308	
Selection criteria:	Multipoint configuration for the called side	
Test purpose:	Ensure that when the calling user clears with cause value #16 "normal call clearing" before answer from called user, the network transport the cause value to the called user	
Parameter values:	BC=3,1 kHz audio	
Comments:		

120309	Ref. to ETS 300 102-1 [1], subclause G.1.6	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/Audio/TC120309	
Selection criteria:	Point-to-point configuration for the called side	
Test purpose:	Ensure that when the calling user clears with cause value #16 "normal call clearing" before answer from called user, the network transport the cause value to the called user	
Parameter values:	BC=3,1 kHz audio	
Comments:		

120401	Ref. to ETS 300 102-1 [1], subclauses 5.1.4, G.1.1	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/UDI-TA/TC120401	
Selection criteria:		
Test purpose:	Ensure that, when calling to unallocated number, the network initiate call clearing to the calling user with cause value #1 "unassigned number"	
Parameter values:	BC=UDI/TA	
Comments:		

120402	Ref. to ETS 300 102-1 [1], subclauses 5.2.5.1, G.1.7	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/UDI-TA/TC120402	
Selection criteria:		
Test purpose:	Ensure that, when the called user is busy and responds with a RELEASE COMPLETE message indicating cause value #17 "user busy", the network transport the cause value to the calling user	
Parameter values:	BC=UDI/TA	
Comments:		

120403	Ref. to ETS 300 102-1 [1], subclauses 5.2.5.4, G.1.8	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/UDI-TA/TC120403	
Selection criteria:		
Test purpose:	Ensure that, when the called user is not responding, the network initiate call clearing to the calling user with cause value #18 "no user responding"	
Parameter values:	BC=UDI/TA	
Comments:		

120404	Ref. to ETS 300 102-1 [1], subclauses 5.2.5.4, G.1.9	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/UDI-TA/TC120404	
Selection criteria:		
Test purpose:	Ensure that when no answer from the called user (but user alerted), the network initiate call clearing to the calling user and called user with cause value #19 "no user responding (user alerted)"	
Parameter values:	BC=UDI/TA	
Comments:		

120405	Ref. to ETS 300 102-1 [1], subclauses 5.1.9, 5.3.2, G.1.10	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/UDI-TA/TC120405	
Selection criteria:		
Test purpose:	Ensure that when the called user rejects the call and responds with a RELEASE COMPLETE message indicating cause value #21 "call rejected", the network transport the cause value to the calling user	
Parameter values:	BC=UDI/TA	
Comments:		

120406	Ref. to ETS 300 102-1 [1], subclause G.1.13	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/UDI-TA/TC120406	
Selection criteria:		
Test purpose:	Ensure that when the called user terminal is not connected, the network initiate call clearing to the calling user with cause value #27 "destination out of order"	
Parameter values:	BC=UDI/TA	
Comments:		

120407	Ref. to ETS 300 102-1 [1], subclauses 5.2.2, G.5.7	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/UDI-TA/TC120407	
Selection criteria:		
Test purpose:	Ensure that when the called user is not compatible and responds with a RELEASE COMPLETE message indicating cause value #88 "called user not compatible", the network transport the cause value to the calling user	
Parameter values:	BC=UDI/TA	
Comments:		

120408	Ref. to ETS 300 102-1 [1], subclause G.1.6	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/UDI-TA/TC120408	
Selection criteria:	Multipoint configuration for the called side	
Test purpose:	Ensure that when the calling user clears with cause value #16 "normal call clearing" before answer from called user, the network transport the cause value to the called user	
Parameter values:	BC=UDI/TA	
Comments:		

120409	Ref. to ETS 300 102-1 [1], subclause G.1.6	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/UDI-TA/TC120409	
Selection criteria:	Point-to-point configuration for the called side	
Test purpose:	Ensure that when the calling user clears with cause value #16 "normal call clearing" before answer from called user, the network transport the cause value to the called user	
Parameter values:	BC=UDI/TA	
Comments:		

6.2.1.2 Test purposes for ISDN-ISDN, supplementary services

6.2.1.2.1 Bearer capability "speech"

210101	Ref. to ETS 300 092-1 [7], subclause 9.3	Other relevant ref.: ETS 300 102-1 [1], subclauses 4.5.10, 4.5.11
TSS reference:	ISDN-ISDN/Supplementary_services/Speech/CLIP/TC210101	
Selection criteria:	The called user is provided with CLIP	
Test purpose:	Ensure that when Calling party number is provided by the calling user, Type of number "subscriber number", with Calling party subaddress, the Calling party number and Calling party subaddress information elements are correctly delivered to the called (served) user.	
Parameter values:	BC=speech, SI=UPVP, TON=international	
Comments:		

210102	Ref. to ETS 300 092-1 [7], subclause 9.3	Other relevant ref.: ETS 300 102-1 [1], subclauses 4.5.10, 4.5.11
TSS reference:	ISDN-ISDN/Supplementary_services/Speech/CLIP/TC210102	
Selection criteria:	The called user is provided with CLIP	
Test purpose:	Ensure that when Calling party number is provided by the calling user, Type of number "national number", with Calling party subaddress, the Calling party number and Calling party subaddress information elements are correctly delivered to the called (served) user.	
Parameter values:	BC=speech, SI=UPVP, TON=international	
Comments:		

210103	Ref. to ETS 300 092-1 [7], subclause 9.3	Other relevant ref.: ETS 300 102-1 [1], subclauses 4.5.10, 4.5.11
TSS reference:	ISDN-ISDN/Supplementary_services/Speech/CLIP/TC210103	
Selection criteria:	The called user is provided with CLIP	
Test purpose:	Ensure that when Calling party number is provided by the calling user, Type of number "international number", with Calling party subaddress, the Calling party number and Calling party subaddress information elements are correctly delivered to the called (served) user.	
Parameter values:	BC=speech, SI=UPVP, TON=international	
Comments:		

210104	Ref. to ETS 300 092-1 [7], subclause 9.3	Other relevant ref.: ETS 300 102-1 [1], subclauses 4.5.10, 4.5.11
TSS reference:	ISDN-ISDN/Supplementary_services/Speech/CLIP/TC210104	
Selection criteria:	The called user is provided with CLIP	
Test purpose:	Ensure that when Calling party number is provided by the calling user, Type of number "unknown", with Calling party subaddress, the Calling party number and Calling party subaddress information elements are correctly delivered to the called (served) user.	
Parameter values:	BC=speech, SI=UPVP, TON=international	
Comments:	P104 TC20101*	

210105	Ref. to ETS 300 092-1 [7], subclause 9.3	Other relevant ref.: ETS 300 102-1 [1], subclause 4.5.10
TSS reference:	ISDN-ISDN/Supplementary_services/Speech/CLIP/TC210105	
Selection criteria:	The called user is provided with CLIP	
Test purpose:	Ensure that when no Calling party number information element is provided by the calling user, (and no Calling party subaddress), the Calling party number information element is network provided and correctly delivered to the called (served) user.	
Parameter values:	BC=speech, SI=NP, TON=international	
Comments:	P104 TC20102*	

210201	Ref. to ETS 300 093-1 [8], subclause 9.4.1	Other relevant ref.: ETS 300 092-1 [7], subclause A.2, figure 2
TSS reference:	ISDN-ISDN/Supplementary_services/Speech/CLIR/TC210201	
Selection criteria:	The calling user is provided with CLIR permanent mode subscription, the called user with CLIP	
Test purpose:	Ensure that when the Calling party number is provided by the calling user, with Calling party subaddress, the Calling party number information element is delivered to the called user without any digit information. The Calling party subaddress shall not be present	
Parameter values:	BC=speech, PI=PR, SI=NP, TON=unknown, NPI=unknown	
Comments:	P104 TC20201*	

210202	Ref. to ETS 300 093-1 [8], subclause 9.4.1	Other relevant ref.: ETS 300 092-1 [7], subclause A.2, figure 2
TSS reference:	ISDN-ISDN/Supplementary_services/Speech/CLIR/TC210202	
Selection criteria:	The calling user is provided with CLIR permanent mode subscription, the called user with CLIP	
Test purpose:	Ensure that when no Calling party number is provided by the calling user (and no Calling party subaddress), the Calling party number information element is network provided and delivered to the called user without any digit information.	
Parameter values:	BC=speech, PI=PR, SI=NP, TON=unknown, NPI=unknown	
Comments:		

210301	Ref. to ETS 300 097-1 [9], subclause 9.5.1	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/Speech/COLP/TC210301	
Selection criteria:	The calling user is provided with COLP	
Test purpose:	Ensure that when the Connected number is provided by the called user, Type of number "subscriber number", with Connected subaddress, the Connected number and Connected subaddress information elements are correctly delivered to the calling (served) user.	
Parameter values:	BC=speech, SI=UPVP, TON=international	
Comments:		

210302	Ref. to ETS 300 097-1 [9], subclause 9.5.1	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/Speech/COLP/TC210302	
Selection criteria:	The calling user is provided with COLP	
Test purpose:	Ensure that when the Connected number is provided by the called user, Type of number "national number", with Connected subaddress, the Connected number and Connected subaddress information elements are correctly delivered to the calling (served) user.	
Parameter values:	BC=speech, SI=UPVP, TON=international	
Comments:		

210303	Ref. to ETS 300 097-1 [9], subclause 9.5.1	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/Speech/COLP/TC210303	
Selection criteria:	The calling user is provided with COLP	
Test purpose:	Ensure that when the Connected number is provided by the called user, Type of number "international number", with Connected subaddress, the Connected number and Connected subaddress information elements are correctly delivered to the calling (served) user.	
Parameter values:	BC=speech, SI=UPVP, TON=international	
Comments:		

210304	Ref. to ETS 300 097-1 [9], subclause 9.5.1	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/Speech/COLP/TC210304	
Selection criteria:	The calling user is provided with COLP	
Test purpose:	Ensure that when the Connected number is provided by the called user, Type of number "unknown", with Connected subaddress, the Connected number and Connected subaddress information elements are correctly delivered to the calling (served) user.	
Parameter values:	BC=speech, SI=UPVP, TON=international	
Comments:	P104 TC20301*	

210305	Ref. to ETS 300 097-1 [9], subclause 9.5.1	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/Speech/COLP/TC210305	
Selection criteria:	Calling user is provided with COLP	
Test purpose:	Ensure that when no Connected number is provided by the called user (and no Connected subaddress), the Connected number information element is network provided and correctly delivered to the calling (served) user.	
Parameter values:	BC=speech, SI=NP, TON=international	
Comments:	P104 TC20302*	

210401	Ref. to ETS 300 098-1 [10], subclauses 9.3.1, 9.4.1	Other relevant ref.: ETS 300 097-1 [9], subclause A.1, figure 4
TSS reference:	ISDN-ISDN/Supplementary_services/Speech/COLR/TC210401	
Selection criteria:	The called (served) user is provided with COLR permanent mode subscription, the calling user with COLP	
Test purpose:	Ensure that when the Connected number is provided by the called user, with Connected subaddress, the Connected number information element is delivered to the calling user without any digit information. The Connected subaddress shall not be present	
Parameter values:	BC=speech, PI=PR, SI=NP, TON=unknown, NPI=unknown	
Comments:	P104 TC20401*	

210402	Ref. to ETS 300 098-1 [10], subclauses 9.3.1, 9.4.1	Other relevant ref.: ETS 300 097-1 [9], subclause A.2, figure 4
TSS reference:	ISDN-ISDN/Supplementary_services/Speech/COLR/TC210402	
Selection criteria:	The called (served) user is provided with COLR permanent mode subscription, the calling user with COLP	
Test purpose:	Ensure that when no Connected number is provided by the called user (and no Connected subaddress), the Connected number information element is network provided and delivered to the calling user without any digit information.	
Parameter values:	BC=speech, PI=PR, SI=NP, TON=unknown, NPI=unknown	
Comments:		

210501	Ref. to ETS 300 138-1 [11], subclauses 9.2.2, 9.2.4	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/Speech/CUG/TC210501	
Selection criteria:	Calling user and called user belong to the same (international) CUG	
Test purpose:	Ensure that when the calling user and called user belongs to the same (international) CUG, call establishment is possible	
Parameter values:	BC=speech, CUG default request	
Comments:	P104 TC20501	

210502	Ref. to ETS 300 138-1 [11], subclauses 9.2.2, 9.2.4	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/Speech/CUG/TC210502	
Selection criteria:	Calling user belongs to a CUG with outgoing access allowed and called user belongs to another CUG with incoming access allowed	
Test purpose:	Ensure that when the calling user belongs to a CUG with outgoing access allowed and the called user belongs to another CUG with incoming access allowed, the call establishment is possible	
Parameter values:	BC=speech, CUG default request	
Comments:	P104 TC20502	

210503	Ref. to ETS 300 138-1 [11], subclause 9.2.2	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/Speech/CUG/TC210503	
Selection criteria:	Calling user belongs to a CUG with outgoing access "allowed" and the called user is not a CUG subscriber	
Test purpose:	Ensure that when the calling user belongs to a CUG with outgoing access allowed and the called user is not a CUG subscriber, the call establishment is possible	
Parameter values:	BC=speech, CUG default request	
Comments:	P104 TC20503	

210504	Ref. to ETS 300 138-1 [11], subclause 9.2.3	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/Speech/CUG/TC210504	
Selection criteria:	Called user belong to a CUG with incoming access "not allowed" and calling user is not member of CUG	
Test purpose:	Ensure that when the called user belongs to a CUG with incoming access "not allowed" and the calling user is not member of CUG, call establishment is not possible and the network initiate call clearing to the calling user with cause value #87 "user not a member of CUG".	
Parameter values:	BC=speech	
Comments:	P104 TC12007	

210505	Ref. to ETS 300 138-1 [11], subclause 9.2.2	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/Speech/CUG/TC210505	
Selection criteria:	Calling user belong to a CUG with outgoing access "not allowed" and called user is not member of CUG	
Test purpose:	Ensure that when the calling user belong to CUG with outgoing access "not allowed" and the called user is not member of CUG, call establishment is not possible and the network initiate call clearing to the calling user with cause value #87 "user not a member of CUG".	
Parameter values:	BC=speech, CUG default request	
Comments:	P104 TC12008	

210601	Ref. to ETS 300 061-1 [12], subclause 9.2	Other relevant ref.: ETS 300 102-1 [1], subclause 4.5.9
TSS reference:	ISDN-ISDN/Supplementary_services/Speech/SUB/TC220601	
Selection criteria:	The called (served) user is provided with SUB	
Test purpose:	Ensure that when the Called party subaddress is provided by the calling user, the Called party subaddress is correctly delivered to the called (served) user	
Parameter values:	BC=speech	
Comments:	P104 TC20601	

210602	Ref. to ETS 300 061-1 [12], subclause 9.2	Other relevant ref.: ETS 300 102-1 [1], subclause 4.5.9
TSS reference:	ISDN-ISDN/Supplementary_services/Speech/SUB/TC210602	
Selection criteria:	The called (served) user is provided with SUB	
Test purpose:	Ensure that when the Called party subaddress is provided by the calling user with length=minimum, the Called party subaddress is correctly delivered to the called (served) user without any digit information	
Parameter values:	BC=speech	
Comments:		

210701	Ref. to ETS 300 055-1 [13], subclause 9.2.1	Other relevant ref.: ETS 300 102-1 [1], subclause 5.6
TSS reference:	ISDN-ISDN/Supplementary_services/Speech/TP/TC210701	
Selection criteria:	The calling user shall be a basic access	
Test purpose:	Ensure that the called user is notified of the call suspension and resumption by the calling user (no call identity is used)	
Parameter values:	BC=speech	
Comments:	P104 TC20701	

210702	Ref. to ETS 300 055-1 [13], subclause 9.2.1	Other relevant ref.: ETS 300 102-1 [1], subclause 5.6
TSS reference:	ISDN-ISDN/Supplementary_services/Speech/TP/TC210702	
Selection criteria:	The called user shall be a basic access	
Test purpose:	Ensure that the calling user is notified of the call suspension and resumption by the called user (no call identity is used)	
Parameter values:	BC=speech	
Comments:		

210703	Ref. to ETS 300 055-1 [13], subclause 9.2.2	Other relevant ref.: ETS 300 102-1 [1], subclause 5.6.5
TSS reference:	ISDN-ISDN/Supplementary_services/Speech/TP/TC210703	
Selection criteria:	The calling user shall be a basic access	
Test purpose:	Ensure that when the call is suspended, with the expiry of timer T307 before the call re-establishment, the network starts call clearing to the (still) active side with cause value #102 "recovery on timer expiry".	
Parameter values:	BC=speech	
Comments:		

210801	Ref. to ETS 300 286-1 [14], subclauses 9.1.1.1, 9.1.2.1	Other relevant ref.: ETS 300 102-1 [1], subclause 4.5.29
TSS reference:	ISDN-ISDN/Supplementary_services/Speech/UUS1/TC210801	
Selection criteria:	The calling (served) user is provided with UUS1 implicit request	
Test purpose:	Ensure that the network can transport a User-user information element included in the SETUP message sent from the calling user and delivered in the SETUP message sent by the network to the called user	
Parameter values:	BC=speech, UI length=32	
Comments:	P104 TC20801	

210802	Ref. to ETS 300 286-1 [14], subclause 9.1.2.1	Other relevant ref.: ETS 300 102-1 [1], subclause 4.5.29
TSS reference:	ISDN-ISDN/Supplementary_services/Speech/UUS1/TC210802	
Selection criteria:	The calling (served) user is provided with UUS1 implicit request	
Test purpose:	Ensure that after implicit activation of UUS1, the network can transport a User-user information element included in the ALERTING message sent from the called user to the calling user.	
Parameter values:	BC=speech, UI length=32	
Comments:	P104 TC20802	

210803	Ref. to ETS 300 286-1 [14], subclause 9.1.2.1	Other relevant ref.: ETS 300 102-1 [1], subclause 4.5.29
TSS reference:	ISDN-ISDN/Supplementary_services/Speech/UUS1/TC210803	
Selection criteria:	The calling (served) user is provided with UUS1 implicit request	
Test purpose:	Ensure that after implicit activation of UUS1, the network can transport a User-user information element included in the CONNECT message sent from the called user to the calling user	
Parameter values:	BC=speech, UI length=32	
Comments:	P104 TC20803	

210804	Ref. to ETS 300 286-1 [14], subclause 9.1.2.2.1a	Other relevant ref.: ETS 300 102-1 [1]
TSS reference:	ISDN-ISDN/Supplementary_services/Speech/UUS1/TC210804	
Selection criteria:	The calling (served) user is provided with UUS1 implicit request	
Test purpose:	Ensure that after implicit activation of UUS1 and with the call in the active state, the network can transport a User-user information element included in a call clearing DISCONNECT message sent from the calling user and delivered in the DISCONNECT message sent by the network to the called user.	
Parameter values:	BC=speech, UI length=32	
Comments:	P104 TC20804	

210805	Ref. to ETS 300 286-1 [14], subclause 9.1.2.2.1b	Other relevant ref.: ETS 300 102-1 [1]
TSS reference:	ISDN-ISDN/Supplementary_services/Speech/UUS1/TC210805	
Selection criteria:	The calling (served) user is provided with UUS1 implicit request	
Test purpose:	Ensure that after implicit activation of UUS1, the network can transport a User-user information element included in premature clearing RELEASE COMPLETE message sent from the called user and delivered in the DISCONNECT message sent by the network to the calling user	
Parameter values:	BC=speech, UI length=32	
Comments:		

210806	Ref. to ETS 300 286-1 [14], subclause 9.1.1.1.1	Other relevant ref.: ETS 300 102-1 [1], subclause 7.1.3.2
TSS reference:	ISDN-ISDN/Supplementary_services/Speech/UUS1/TC210806	
Selection criteria:	The calling (served) user is provided with UUS1 implicit request	
Test purpose:	Ensure that implicit activation of UUS1 with a User-user information element with the minimum length of three octets (without any user information), included in the SETUP message sent from the calling user, is supported.	
Parameter values:	BC=speech	
Comments:		

210807	Ref. to ETS 300 286-1 [14], subclause 9.1.2.2.1b	Other relevant ref.: ETS 300 102-1 [1]
TSS reference:	ISDN-ISDN/Supplementary_services/Speech/UUS1/TC210807	
Selection criteria:	The calling (served) user is provided with UUS1 implicit request	
Test purpose:	Ensure that after implicit activation of UUS1 and with the call in the active state, the network can transport a User-user information element included in a call clearing DISCONNECT message sent from the called user and delivered in the DISCONNECT message sent by the network to the calling user.	
Parameter values:	BC=speech, UI length=32	
Comments:		

210808	Ref. to ETS 300 286-1 [14], subclause 9.1.2.2.1b	Other relevant ref.: ETS 300 102-1 [1]
TSS reference:	ISDN-ISDN/Supplementary_services/Speech/UUS1/TC210808	
Selection criteria:	The calling (served) user is provided with UUS1 implicit request Multipoint configuration for the called side.	
Test purpose:	Ensure that after implicit activation of UUS1, the network can transport a User-user information element associated with the highest priority cause included in premature clearing RELEASE COMPLETE messages sent from the called users and delivered in the DISCONNECT message sent by the network to the calling user	
Parameter values:	BC=speech, UI length=32	
Comments:		

210809	Ref. to ETS 300 286-1 [14], subclause 9.1.2.2.1b	Other relevant ref.: ETS 300 102-1 [1]
TSS reference:	ISDN-ISDN/Supplementary_services/Speech/UUS1/TC210809	
Selection criteria:	The calling (served) user is provided with UUS1 implicit request.	
Test purpose:	Ensure that after implicit activation of UUS1, the network can transport a User-user information element included in a premature clearing DISCONNECT message sent from the called user and delivered in the DISCONNECT message sent by the network to the calling user	
Parameter values:	BC=speech, UI length=32	
Comments:		

210810	Ref. to ETS 300 286-1 [14], subclause 9.1.2.1	Other relevant ref.: ETS 300 102-1 [1], subclause 4.5.29
TSS reference:	ISDN-ISDN/Supplementary_services/Speech/UUS1/TC210810	
Selection criteria:	The calling (served) user is provided with UUS1 implicit request. Multipoint configuration for the called side.	
Test purpose:	Ensure that after implicit activation of UUS1, the network can transport a User-user information element included in the first received ALERTING message sent from the called users to the calling user in a ALERTING message	
Parameter values:	BC=speech, UI length=32	
Comments:	P104 TC20802	

210811	Ref. to ETS 300 286-1 [14], subclause 9.1.2.2.1b	Other relevant ref.: ETS 300 102-1 [1]
TSS reference:	ISDN-ISDN/Supplementary_services/Speech/UUS1/TC210811	
Selection criteria:	The calling (served) user is provided with UUS1 implicit request. Multipoint configuration for the called side.	
Test purpose:	Ensure that after implicit activation of UUS1, the network can transport a User-user information element associated with the highest priority cause included in premature clearing DISCONNECT messages sent from the called users and delivered in the DISCONNECT message sent by the network to the calling user	
Parameter values:	BC=speech, UI length=32	
Comments:		

210831	Ref. to ETS 300 286-1 [14], subclause 9.1.1.2.2	Other relevant ref.: ETS 300 102-1 [1], subclause 7.1.3.6
TSS reference:	ISDN-ISDN/Supplementary_services/Speech/UUS1/TC210831	
Selection criteria:	The calling (served) user is provided with UUS1 explicit request	
Test purpose:	Ensure that after explicit request of UUS1 indicating "required", if the called user rejects the call with a RELEASE COMPLETE message indicating cause value #29 "facility rejected", the network transport the cause value to the calling user. A UUS1 rejection with Error value "rejectedByUser" shall be included in the message	
Parameter values:	BC=speech	
Comments:	P104 TC12011	

210832	Ref. to ETS 300 286-1 [14], subclause 9.1.1.2.2	Other relevant ref.: ETS 300 102-1 [1], subclause 7.1.3.6
TSS reference:	ISDN-ISDN/Supplementary_services/Speech/UUS1/TC210832	
Selection criteria:	The calling (served) user is provided with UUS1 explicit request	
Test purpose:	Ensure that after explicit request of UUS1 indicating "required", if the destination network rejects the UUS1 request, the network initiates call clearing to the calling user with cause value #69 "requested facility not implemented" or cause value #29 "facility rejected". A UUS1 rejection with the Error value "rejectedByUser" shall be included in the message.	
Parameter values:	BC=speech	
Comments:	P104 TC12012*	

210833	Ref. to ETS 300 286-1 [14], subclause 9.1.1.2.1	Other relevant ref.: ETS 300 102-1 [1], subclause 7.1.3.2
TSS reference:	ISDN-ISDN/Supplementary_services/Speech/UUS1/TC210833	
Selection criteria:	The calling (served) user is provided with UUS1 explicit request	
Test purpose:	Ensure that with the explicit request of UUS1 indicating "preferred", the network can transport a User-user information element included in the SETUP message sent from the calling user and delivered in the SETUP message sent by the network to the called user, and return the explicit service acceptance from the called user	
Parameter values:	BC=speech, UI length=32	
Comments:	P104 TC20805	

210851	Ref. to ETS 300 286-1 [14], subclause 9.2.2.1	Other relevant ref.: ETS 300 102-1 [1], subclause 7.1.4.4
TSS reference:	ISDN-ISDN/Supplementary_services/Speech/UUS2/TC210851	
Selection criteria:	The calling (served) user is provided with UUS2. Point-to-point configuration for the called side	
Test purpose:	Ensure that after activation of UUS2 indicating "preferred", the network can transport two USER INFORMATION messages in each direction, between the ALERTING and the CONNECT messages.	
Parameter values:	BC=speech, UI length=32	
Comments:	P104 TC20806	

210852	Ref. to ETS 300 286-1 [14], subclause 9.2.1.2	Other relevant ref.: ETS 300 102-1 [1], subclause 7.1.4.3
TSS reference:	ISDN-ISDN/Supplementary_services/Speech/UUS2/TC210852	
Selection criteria:	The calling (served) user is provided with UUS2. Point-to-point configuration for the called side.	
Test purpose:	Ensure that after activation of UUS2 indicating "preferred", if the network does not receive an explicit acceptance or rejection in the ALERTING message from the called user, a UUS2 rejection with the Error value "rejected by the user, it is returned to the calling user in a ALERTING message sent from the network and the call can be established.	
Parameter values:	BC=speech	
Comments:	P104 TC20807	

210871	Ref. to ETS 300 286-1 [14], subclause 9.3.1.1	Other relevant ref.: ETS 300 102-1 [1], subclause 7.1.5.2
TSS reference:	ISDN-ISDN/Supplementary_services/Speech/UUS3/TC210871	
Selection criteria:	The calling (served) user is provided with UUS3	
Test purpose:	Ensure that after activation of UUS3 during call establishment indicating "preferred", the network can transport USER INFORMATION messages in both directions during the Active state of the call	
Parameter values:	BC=speech, UI length=32	
Comments:	P104 TC20808	

210872	Ref. to ETS 300 286-1 [14], subclause 9.3.1.1.2	Other relevant ref.: ETS 300 102-1 [1], subclause 7.1.5.3
TSS reference:	ISDN-ISDN/Supplementary_services/Speech/UUS3/TC210872	
Selection criteria:	The calling (served) user is provided with UUS3	
Test purpose:	Ensure that after the calling user request UUS3 during call establishment indicating "preferred", if the network does not receive an explicit acceptance or rejection in the CONNECT message from the called user, a UUS3 rejection with the Error value "rejected by the user" is included in the CONNECT message sent to the calling user.	
Parameter values:	BC=speech	
Comments:	P104 TC20809	

210873	Ref. to ETS 300 286-1 [14], subclause 9.3.1.1	Other relevant ref.: ETS 300 102-1 [1], subclause 7.1.5.2
TSS reference:	ISDN-ISDN/Supplementary_services/Speech/UUS3/TC210873	
Selection criteria:	The calling (served) user is provided with UUS3	
Test purpose:	Ensure that after activation of UUS3 during call establishment indicating "required", the network can transport USER INFORMATION messages in both directions during the Active state of the call	
Parameter values:	BC=speech, UI length=32	
Comments:	P104 TC20810	

210874	Ref. to ETS 300 286-1 [14], subclause 9.3.1.2.1	Other relevant ref.: ETS 300 102-1 [1], subclause 7.1.5.4
TSS reference:	ISDN-ISDN/Supplementary_services/Speech/UUS3/TC210874	
Selection criteria:	The calling (served) user is provided with UUS3	
Test purpose:	Ensure that after activation of UUS3 during the Active call state indicating "preferred", the network can transport USER INFORMATION messages in both directions during the Active state of the call	
Parameter values:	BC=speech, UI length=32	
Comments:	P104 TC20811	

210875	Ref. to ETS 300 286-1 [14], subclause 9.3.1.2.2	Other relevant ref.: ETS 300 102-1 [1], subclause 7.1.5.5
TSS reference:	ISDN-ISDN/Supplementary_services/Speech/UUS3/TC210875	
Selection criteria:	The calling (served) user is provided with UUS3	
Test purpose:	Ensure that after the calling user request UUS3 during the Active call state indicating "preferred", if the called user rejects the service 3 request, the network can transport the FACILITY message including a UUS3 rejection with the Error value "rejected by the user" from the called user to the calling user.	
Parameter values:	BC=speech	
Comments:	P104 TC20812	

210901	Ref. to ETS 300 185-1 [15], subclause 9.2.2	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/Speech/CONF/TC210901	
Selection criteria:	The user A is in network N1 and is provided with CONF. The user B and user C are in network N2.	
Test purpose:	Ensure that user A can establish a conference call with user B and user C, and the remote parties are notified of the conference call progress related to Establish, Isolate, Reattach, Drop and Disconnect actions.	
Parameter values:	BC=speech	
Comments:		

211101	Ref. to ETS 300 207-1 [16], subclause 9.2.2, 9.2.5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/Speech/CFU/TC211101	
Selection criteria:	The user A and the user C are in network N1. The user B is in network N2 and is provided with CFU ("calling user is notified of call diversion"=Yes, with diverted-to number, "diverting number is released to the diverted-to user"=Yes).	
Test purpose:	Ensure that when user A calls user B, the call is forwarded to user C, user A is notified of call diversion and informed of the diverted-to number (user C has presentation allowed - no COLR) and user C is informed of the forwarding number (user B has presentation allowed).	
Parameter values:	BC=speech, CF active	
Comments:		

211102	Ref. to ETS 300 207-1 [16], subclauses 9.2.2, 9.2.5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/Speech/CFU/TC211102	
Selection criteria:	The user A and the user C are in network N1 and user C is provided with COLR. The user B is in network N2 and is provided with CFU ("calling user is notified of call diversion"=Yes, with diverted-to number, "diverting number is released to the diverted-to user"=No).	
Test purpose:	Ensure that when user A calls user B, the call is forwarded to user C, user A is notified of call diversion and not informed of the diverted-to number (user C has presentation not allowed - COLR) and user C is not informed of the forwarding number (user B has presentation not allowed).	
Parameter values:	BC=speech, CF active	
Comments:		

211201	Ref. to ETS 300 207-1 [16], subclauses 9.2.2, 9.2.4.3, 9.2.5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/Speech/CFB/TC211201	
Selection criteria:	The user A and the user C are in network N1. The user B is in network N2 and is provided with CFB ("calling user is notified of call diversion"=Yes, with diverted-to number, "diverting number is released to the diverted-to user"=Yes).	
Test purpose:	Ensure that when user A calls busy user B, the call is forwarded to user C, user A is notified of call diversion and informed of the diverted-to number (user C has presentation allowed - no COLR) and user C is informed of the forwarding number (user B has presentation allowed).	
Parameter values:	BC=speech, CF active	
Comments:		

211202	Ref. to ETS 300 207-1 [16], subclauses 9.2.2, 9.2.4.3, 9.2.5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/Speech/CFB/TC211202	
Selection criteria:	The user A and the user C are in network N1 and user C is provided with COLR. The user B is in network N2 and is provided with CFB ("calling user is notified of call diversion"=Yes, with diverted-to number, "diverting number is released to the diverted-to user"=No).	
Test purpose:	Ensure that when user A calls busy user B, the call is forwarded to user C, user A is notified of call diversion and not informed of the diverted-to number (user C has presentation not allowed - COLR) and user C is not informed of the forwarding number (user B has presentation not allowed).	
Parameter values:	BC=speech, CF active	
Comments:		

211301	Ref. to ETS 300 102-1 [1], subclauses 9.2.2, 9.2.4.4, 9.2.5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/Speech/CFNR/TC211301	
Selection criteria:	The user A and the user C are in network N1. The user B is in network N2 and is provided with CFNR ("calling user is notified of call diversion"=Yes, with diverted-to number, "diverting number is released to the diverted-to user"=Yes).	
Test purpose:	Ensure that when user A calls user B, if unanswered, the call is forwarded to user C, user A is notified of call diversion and informed of the diverted-to number (user C has presentation allowed - no COLR) and user C is informed of the forwarding number (user B has presentation allowed).	
Parameter values:	BC=speech, CF active	
Comments:		

211302	Ref. to ETS 300 102-1 [1], subclauses 9.2.2, 9.2.4.4, 9.2.5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/Speech/CFNR/TC211302	
Selection criteria:	The user A and the user C are in network N1 and user C is provided with COLR. The user B is in network N2 and is provided with CFNR ("calling user is notified of call diversion"=Yes, with diverted-to number, "diverting number is released to the diverted-to user"=No).	
Test purpose:	Ensure that when user A calls user B, if unanswered the call is forwarded to user C, user A is notified of call diversion and not informed of the diverted-to number (user C has presentation not allowed - COLR) and user C is not informed of the forwarding number (user B has presentation not allowed).	
Parameter values:	BC=speech, CF active	
Comments:		

211401	Ref. to ETS 300 207-1 [16], subclauses 9.2.2, 9.2.4.5, 9.2.5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/Speech/CD/TC211401	
Selection criteria:	The user A and the user C are in network N1. The user B is in network N2 and is provided with CD ("calling user is notified of call diversion"=Yes, with diverted-to number, "diverting number is released to the diverted-to user"=Yes).	
Test purpose:	Ensure that when user A calls user B and user B invoke CD (with the address of user C) during the alerting phase, the call is deflected to user C, user A is notified of call diversion and informed of the diverted-to number (user C has presentation allowed - no COLR) and user C is informed of the forwarding number (user B has presentation allowed).	
Parameter values:	BC=speech	
Comments:	P104 TC21301	

211402	Ref. to ETS 300 207-1 [16], subclauses 9.2.2, 9.2.4.5, 9.2.5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/Speech/CD/TC211402	
Selection criteria:	The user A and the user C are in network N1. The user B is in network N2 and is provided with CD ("calling user is notified of call diversion"=Yes, with diverted-to number, "diverting number is released to the diverted-to user"=Yes).	
Test purpose:	Ensure that when user A calls user B and user B invoke CD (with the address of user C) during call present state, the call is deflected to user C, user A is notified of call diversion and informed of the diverted-to number (user C has presentation allowed - no COLR) and user C is informed of the forwarding number (user B has presentation allowed).	
Parameter values:	BC=speech	
Comments:	P104 TC21302	

211501	Ref. to ETS 300 210-1 [17], subclause 9.2.2.1	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/Speech/FPH/TC211501	
Selection criteria:	The called (served) user is a freephone subscriber	
Test purpose:	Ensure that call establishment to a Freephone subscriber is possible and that the calling user is not charged. Verify that the free phone indication is delivered correctly to the called user.	
Parameter values:	BC=speech	
Comments:	P104 TC21401	

211601	Ref. to ETS 300 130-1 [18], subclause 9.2.1	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/Speech/MCID/TC211601	
Selection criteria:	The called (served) user is provided with MCID	
Test purpose:	Ensure that if MCID is invoked by the called user in the Active call state, the call is registered.	
Parameter values:	BC=speech	
Comments:	P104 TC21501	

211602	Ref. to ETS 300 130-1 [18], subclause 9.2.1	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/Speech/MCID/TC211602	
Selection criteria:	The called user is provided with MCID	
Test purpose:	Ensure that if MCID is invoked by the called user in the Disconnect Indication call state, the call is registered.	
Parameter values:	BC=speech	
Comments:	P104 TC21502	

211701	Ref. to ETS 300 188-1 [19], subclause 9.2	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/Speech/3PTY/TC211701	
Selection criteria:	The user A is in network N1 and is provided with 3PTY. The user B and user C are in the network N2.	
Test purpose:	Ensure that user A can establish a three-way conversation call with user B and user C, and the remote parties are notified of the three-way conversation establishment and disconnection.	
Parameter values:	BC=speech	
Comments:	P104 TC21601	

211801	Ref. to ETS 300 141-1 [20], clause 7	Other relevant ref.: ETS 300 196-1 [25], subclause 7.1
TSS reference:	ISDN-ISDN/Supplementary_services/Speech/HOLD/TC211801	
Selection criteria:	The calling user is provided with HOLD	
Test purpose:	Ensure that the remote user is notified of the call hold and retrieval	
Parameter values:	BC=speech	
Comments:	P104 TC21701	

211901	Ref. to ETS 300 058-1 [21], clause 7	Other relevant ref.: ETS 300 102-1 [1], subclause 4.5.2.1
TSS reference:	ISDN-ISDN/Supplementary_services/Speech/CW/TC211901	
Selection criteria:	The called user is provided with CW, notification allowed	
Test purpose:	Ensure that when all B-channels are busy at the called side, the calling user is notified of the call waiting.	
Parameter values:	BC=speech	
Comments:	P104 TC21801	

212101	Ref. to ETS 300 369-1 [23], subclauses 9.2.1, 9.2.3, 9.2.4	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/Speech/ECT/TC212101	
Selection criteria:	The user A is in network N1 and is provided with ECT. The user B and user C are in network N2.	
Test purpose:	Ensure that when user A invoke ECT (using implicit linkage) with a call to user B held and a call to user C in the Active state, both calls are released and a connection is established between user B and user C. A notification of call transfer is sent to user B and user C with information of the transferred-to number (user B and user C have presentation allowed - no COLR).	
Parameter values:	BC=speech	
Comments:		

212102	Ref. to ETS 300 369-1 [23], subclauses 9.2.1, 9.2.3, 9.2.4	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/Speech/ECT/TC212102	
Selection criteria:	The user A is in network N1 and is provided with ECT. The user B and user C are in network N2 and are provided with COLR.	
Test purpose:	Ensure that when user A invoke ECT (using implicit linkage) with a call to user B held and a call to user C in the Active state, both calls are released and a connection is established between user B and user C. A notification of call transfer is sent to user B and user C without information of the transferred-to number (user B and user C have presentation restricted - COLR).	
Parameter values:	BC=speech	
Comments:		

213001	Ref. to ETS 300 195-1 [24], clause 5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/Speech/Comb/TC213001	
Selection criteria:	The calling user is provided with COLP, UUS1 implicit request and belong to a CUG with outgoing access allowed, the called user is provided with CLIP and SUB	
Test purpose:	Ensure that when Calling party number is provided by the calling user with Calling party subaddress, Called party subaddress and User-user information elements, all the information elements are correctly delivered to the called user in the SETUP message sent by the network to the called user and when the Connected number is provided by the called user with Connected subaddress and User-user information elements, all the information elements are correctly delivered in the CONNECT message sent by the network to the calling user	
Parameter values:	BC=speech, HLC=telephony, UI length=32, SI=UPVP	
Comments:	P104 TC22101*	

213002	Ref. to ETS 300 195-1 [24], subclauses 5.29, 5.27	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/Speech/Comb/TC213002	
Selection criteria:	The calling user is provided with COLP, UUS1 implicit request , the called user is provided with CLIP and CFU, the forwarded-to user is provided with CLIP	
Test purpose:	Ensure that when Calling party number is provided by the calling user with Calling party subaddress and User-user information elements, all the information elements are correctly transferred to the forwarded-to user and delivered in the SETUP message sent by the network to the forwarded-to user without any bearer/teleservice change, and when the Connected number is provided by the forwarded-to user with Connected subaddress and User-user information elements, all the information elements are correctly delivered in the CONNECT message sent by the network to the calling user	
Parameter values:	BC=speech, HLC=telephony, UI length=32, SI=UPVP	
Comments:	P104 TC22102*	

213003	Ref. to ETS 300 195-1 [24], clause 5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/Speech/Comb/TC213003	
Selection criteria:	The called user is Freephone subscriber provided with CLIP	
Test purpose:	Ensure that when Calling party number is provided by the calling user, the Calling party number information element is delivered correctly to the called user	
Parameter values:	BC=speech, SI=UPVP	
Comments:	P104 TC22103	

6.2.1.2.2 Bearer capability "unrestricted digital information"

220101	Ref. to ETS 300 092-1 [7], subclause 9.3	Other relevant ref.: ETS 300 102-1 [1], subclauses 4.5.10, 4.5.11
TSS reference:	ISDN-ISDN/Supplementary_services/UDI/CLIP/TC220101	
Selection criteria:	The called user is provided with CLIP	
Test purpose:	Ensure that when Calling party number is provided by the calling user, Type of number "subscriber number", with Calling party subaddress, the Calling party number and Calling party subaddress information elements are correctly delivered to the called (served) user.	
Parameter values:	BC=UDI, SI=UPVP, TON=international	
Comments:		

220102	Ref. to ETS 300 092-1 [7], subclause 9.3	Other relevant ref.: ETS 300 102-1 [1], subclauses 4.5.10, 4.5.11
TSS reference:	ISDN-ISDN/Supplementary_services/UDI/CLIP/TC220102	
Selection criteria:	The called user is provided with CLIP	
Test purpose:	Ensure that when Calling party number is provided by the calling user, Type of number "national number", with Calling party subaddress, the Calling party number and Calling party subaddress information elements are correctly delivered to the called (served) user.	
Parameter values:	BC=UDI, SI=UPVP, TON=international	
Comments:		

220103	Ref. to ETS 300 092-1 [7], subclause 9.3	Other relevant ref.: ETS 300 102-1 [1], subclauses 4.5.10, 4.5.11
TSS reference:	ISDN-ISDN/Supplementary_services/UDI/CLIP/TC220103	
Selection criteria:	The called user is provided with CLIP	
Test purpose:	Ensure that when Calling party number is provided by the calling user, Type of number "international number", with Calling party subaddress, the Calling party number and Calling party subaddress information elements are correctly delivered to the called (served) user.	
Parameter values:	BC=UDI, SI=UPVP, TON=international	
Comments:		

220104	Ref. to ETS 300 092-1 [7], subclause 9.3	Other relevant ref.: ETS 300 102-1 [1], subclauses 4.5.10, 4.5.11
TSS reference:	ISDN-ISDN/Supplementary_services/UDI/CLIP/TC220104	
Selection criteria:	The called user is provided with CLIP	
Test purpose:	Ensure that when Calling party number is provided by the calling user, Type of number "unknown", with Calling party subaddress, the Calling party number and Calling party subaddress information elements are correctly delivered to the called (served) user.	
Parameter values:	BC=UDI, SI=UPVP, TON=international	
Comments:		

220105	Ref. to ETS 300 092-1 [7], subclause 9.3	Other relevant ref.: ETS 300 102-1 [1], subclause 4.5.10
TSS reference:	ISDN-ISDN/Supplementary_services/UDI/CLIP/TC220105	
Selection criteria:	The called user is provided with CLIP	
Test purpose:	Ensure that when no Calling party number information element is provided by the calling user, (and no Calling party subaddress), the Calling party number information element is network provided and correctly delivered to the called (served) user.	
Parameter values:	BC=UDI, SI=NP, TON=international	
Comments:		

220201	Ref. to ETS 300 093-1 [8], subclause 9.4.1	Other relevant ref.: ETS 300 092-1 [7], subclause 9.5.1
TSS reference:	ISDN-ISDN/Supplementary_services/UDI/CLIR/TC220201	
Selection criteria:	The calling user is provided with CLIR permanent mode subscription, the called user with CLIP	
Test purpose:	Ensure that when the Calling party number is provided by the calling user, with Calling party subaddress, the Calling party number information element is delivered to the called party without any digit information. The Calling party subaddress shall not be present	
Parameter values:	BC=UDI, PI=PR, SI=NP, TON=unknown, NPI=unknown	
Comments:		

220202	Ref. to ETS 300 093-1 [8], subclause 9.4.1	Other relevant ref.: ETS 300 092-1 [7], subclause 9.5.1
TSS reference:	ISDN-ISDN/Supplementary_services/UDI/CLIR/TC220202	
Selection criteria:	The calling user is provided with CLIR permanent mode subscription, the called user with CLIP	
Test purpose:	Ensure that when no Calling party number is provided by the calling user (and no Calling party subaddress), the Calling party number information element is network provided and delivered to the called user without any digit information.	
Parameter values:	BC=UDI, PI=PR, SI=NP, TON=unknown, NPI=unknown	
Comments:		

220301	Ref. to ETS 300 097-1 [9], subclause 9.5.1	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/UDI/COLP/TC220301	
Selection criteria:	The calling user is provided with COLP	
Test purpose:	Ensure that when the Connected number is provided by the called user, Type of number "subscriber number", with Connected subaddress, the Connected number and Connected subaddress information elements are correctly delivered to the calling (served) user.	
Parameter values:	BC=UDI, SI=UPVP, TON=international	
Comments:		

220302	Ref. to ETS 300 097-1 [9], subclause 9.5.1	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/UDI/COLP/TC220302	
Selection criteria:	The calling user is provided with COLP	
Test purpose:	Ensure that when the Connected number is provided by the called user, Type of number "national number", with Connected subaddress, the Connected number and Connected subaddress information elements are correctly delivered to the calling (served) user.	
Parameter values:	BC=UDI, SI=UPVP, TON=international	
Comments:		

220303	Ref. to ETS 300 097-1 [9], subclause 9.5.1	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/UDI/COLP/TC220303	
Selection criteria:	The calling user is provided with COLP	
Test purpose:	Ensure that when the Connected number is provided by the called user, Type of number "international number", with Connected subaddress, the Connected number and Connected subaddress information elements are correctly delivered to the calling (served) user.	
Parameter values:	BC=UDI, SI=UPVP, TON=international	
Comments:		

220304	Ref. to ETS 300 097-1 [9], subclause 9.5.1	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/UDI/COLP/TC220304	
Selection criteria:	The calling user is provided with COLP	
Test purpose:	Ensure that when the Connected number is provided by the called user, Type of number "unknown", with Connected subaddress, the Connected number and Connected subaddress information elements are correctly delivered to the calling (served) user.	
Parameter values:	BC=UDI, SI=UPVP, TON=international	
Comments:		

220305	Ref. to ETS 300 097-1 [9], subclause 9.5.1	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/UDI/COLP/TC220305	
Selection criteria:	Calling user is provided with COLP	
Test purpose:	Ensure that when no Connected number is provided by the called user (and no Connected subaddress), the Connected number information element is network provided and correctly delivered to the calling (served) user.	
Parameter values:	BC=UDI, SI=NP, TON=international	
Comments:		

220401	Ref. to ETS 300 098-1 [10], subclauses 9.3.1, 9.4.1	Other relevant ref.: ETS 300 097-1 [9], subclause 9.5.1
TSS reference:	ISDN-ISDN/Supplementary_services/UDI/COLR/TC220401	
Selection criteria:	The called (served) user is provided with COLR permanent mode subscription, the calling user with COLP	
Test purpose:	Ensure that when the Connected number is provided by the called user, with Connected subaddress, the Connected number information element is delivered to the calling user without any digit information. The Connected subaddress shall not be present	
Parameter values:	BC=UDI, PI=PR, SI=NP, TON=unknown, NPI=unknown	
Comments:		

220402	Ref. to ETS 300 098-1 [10], subclauses 9.3.1, 9.4.1	Other relevant ref.: ETS 300 097-1 [9], subclause 9.5.1
TSS reference:	ISDN-ISDN/Supplementary_services/UDI/COLR/TC220402	
Selection criteria:	The called (served) user is provided with COLR permanent mode subscription, the calling user with COLP	
Test purpose:	Ensure that when no Connected number is provided by the called user (and no Connected subaddress), the Connected number information element is network provided and delivered to the Calling party without any digit information.	
Parameter values:	BC=UDI, PI=PR, SI=NP, TON=unknown, NPI=unknown	
Comments:		

220501	Ref. to ETS 300 138-1 [11], subclauses 9.2.2, 9.2.4	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/UDI/CUG/TC220501	
Selection criteria:	Calling user and called user belong to the same (international) CUG	
Test purpose:	Ensure that when the calling user and called user belongs to the same (international) CUG, call establishment is possible	
Parameter values:	BC=UDI, CUG default request	
Comments:		

220502	Ref. to ETS 300 138-1 [11], subclauses 9.2.2, 9.2.4	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/UDI/CUG/TC220502	
Selection criteria:	Calling user belongs to a CUG with outgoing access allowed and called user belongs to another CUG with incoming access allowed	
Test purpose:	Ensure that when the calling user belongs to a CUG with outgoing access allowed and the called user belongs to another CUG with incoming access allowed, the call establishment is possible	
Parameter values:	BC=UDI, CUG default request	
Comments:		

220503	Ref. to ETS 300 138-1 [11], subclause 9.2.2	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/UDI/CUG/TC220503	
Selection criteria:	Calling user belongs to a CUG with outgoing access "allowed" and the called user is not a CUG subscriber	
Test purpose:	Ensure that when the calling user belongs to a CUG with outgoing access allowed and the called user is not a CUG subscriber, the call establishment is possible	
Parameter values:	BC=UDI, CUG default request	
Comments:		

220504	Ref. to ETS 300 138-1 [11], subclause 9.2.3	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/UDI/CUG/TC220504	
Selection criteria:	Called user belong to a CUG with incoming access "not allowed" and calling user is not member of CUG	
Test purpose:	Ensure that when the called user belongs to a CUG with incoming access "not allowed", call establishment is not possible and the network initiate call clearing to the calling user with cause value #87 "user not a member of CUG".	
Parameter values:	BC=UDI	
Comments:		

220505	Ref. to ETS 300 138-1 [11], subclause 9.2.2	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/UDI/CUG/TC220505	
Selection criteria:	Calling user belong to a CUG with outgoing access "not allowed" and called user is not member of CUG	
Test purpose:	Ensure that when the calling user belong to CUG with outgoing access "not allowed", call establishment is not possible and the network initiate call clearing to the calling user with cause value #87 "user not a member of CUG".	
Parameter values:	BC=UDI, CUG default request	
Comments:		

220601	Ref. to ETS 300 061-1 [12], subclause 9.2	Other relevant ref.: ETS 300 102-1 [1], subclause 4.5.9
TSS reference:	ISDN-ISDN/Supplementary_services/UDI/SUB/TC220601	
Selection criteria:	The called (served) user is provided with SUB	
Test purpose:	Ensure that when the Called party subaddress is provided by the calling user, the Called party subaddress is correctly delivered to the called (served) user	
Parameter values:	BC=UDI	
Comments:		

220602	Ref. to ETS 300 061-1 [12], 9.2	Other relevant ref.: ETS 300 102-1 [1], 4.5.9
TSS reference:	ISDN-ISDN/Supplementary_services/UDI/SUB/TC220602	
Selection criteria:	The called (served) user is provided with SUB	
Test purpose:	Ensure that when the Called party subaddress is provided by the calling user with length=minimum, the Called party subaddress is correctly delivered to the called (served) user without any digit information	
Parameter values:	BC=UDI	
Comments:		

220701	Ref. to ETS 300 055-1 [13], subclause 9.2.1	Other relevant ref.: ETS 300 102-1 [1], subclause 5.6
TSS reference:	ISDN-ISDN/Supplementary_services/UDI/TP/TC220701	
Selection criteria:	The calling user shall be a basic access	
Test purpose:	Ensure that the called user is notified of the call suspension and resumption by the calling user (no call identity is used)	
Parameter values:	BC=UDI	
Comments:		

220702	Ref. to ETS 300 055-1 [13], subclause 9.2.1	Other relevant ref.: ETS 300 102-1 [1], subclause 5.6
TSS reference:	ISDN-ISDN/Supplementary_services/UDI/TP/TC220702	
Selection criteria:	The called user shall be a basic access	
Test purpose:	Ensure that the calling user is notified of the call suspension and resumption by the called user (no call identity is used)	
Parameter values:	BC=UDI	
Comments:		

220703	Ref. to ETS 300 055-1 [13], subclause 9.2.2	Other relevant ref.: ETS 300 102-1 [1], subclause 5.6.5
TSS reference:	ISDN-ISDN/Supplementary_services/UDI/TP/TC220703	
Selection criteria:	The calling user shall be a basic access	
Test purpose:	Ensure that when the call is suspended, with the expiry of timer T307 before the call re-establishment, the network starts call clearing to the (still) active side with cause value #102 "recovery on timer expiry".	
Parameter values:	BC=UDI	
Comments:		

220801	Ref. to ETS 300 286-1 [14], subclauses 9.1.1.1, 9.1.2.1	Other relevant ref.: ETS 300 102-1 [1], subclause 4.5.29
TSS reference:	ISDN-ISDN/Supplementary_services/UDI/UUS1/TC220801	
Selection criteria:	The calling (served) user is provided with UUS1 implicit request	
Test purpose:	Ensure that the network can transport a User-user information element included in the SETUP message sent from the calling user and delivered in the SETUP message sent by the network to the called user	
Parameter values:	BC=UDI, UI length=32	
Comments:		

220802	Ref. to ETS 300 286-1 [14], subclause 9.1.2.1	Other relevant ref.: ETS 300 102-1 [1], subclause 4.5.29
TSS reference:	ISDN-ISDN/Supplementary_services/UDI/UUS1/TC220802	
Selection criteria:	The calling (served) user is provided with UUS1 implicit request	
Test purpose:	Ensure that after implicit activation of UUS1, the network can transport a User-user information element included in the ALERTING message sent from the called user to the calling user.	
Parameter values:	BC=UDI, UI length=32	
Comments:		

220803	Ref. to ETS 300 286-1 [14], subclause 9.1.2.1	Other relevant ref.: ETS 300 102-1 [1], subclause 4.5.29
TSS reference:	ISDN-ISDN/Supplementary_services/UDI/UUS1/TC220803	
Selection criteria:	The calling (served) user is provided with UUS1 implicit request	
Test purpose:	Ensure that after implicit activation of UUS1, the network can transport a User-user information element included in the CONNECT message sent from the called user to the calling user	
Parameter values:	BC=UDI, UI length=32	
Comments:		

220804	Ref. to ETS 300 286-1 [14], subclause 9.1.2.2.1a	Other relevant ref.: ETS 300 102-1 [1]
TSS reference:	ISDN-ISDN/Supplementary_services/UDI/UUS1/TC220804	
Selection criteria:	The calling (served) user is provided with UUS1 implicit request	
Test purpose:	Ensure that after implicit activation of UUS1 and with the call in the active state, the network can transport a User-user information element included in a call clearing DISCONNECT message sent from the calling user and delivered in the DISCONNECT message sent by the network to the called user.	
Parameter values:	BC=UDI, UI length=32	
Comments:		

220805	Ref. to ETS 300 286-1 [14], subclause 9.1.2.2.1b	Other relevant ref.: ETS 300 102-1 [1]
TSS reference:	ISDN-ISDN/Supplementary_services/UDI/UUS1/TC220805	
Selection criteria:	The calling (served) user is provided with UUS1 implicit request.	
Test purpose:	Ensure that after implicit activation of UUS1, the network can transport a User-user information element included in premature clearing RELEASE COMPLETE message sent from the called user and delivered in the DISCONNECT message sent by the network to the calling user	
Parameter values:	BC=UDI, UI length=32	
Comments:		

220806	Ref. to ETS 300 286-1 [14], subclause 9.1.1.1.1	Other relevant ref.: ETS 300 102-1 [1], subclause 7.1.3.2
TSS reference:	ISDN-ISDN/Supplementary_services/UDI/UUS1/TC220806	
Selection criteria:	The calling (served) user is provided with UUS1 implicit request	
Test purpose:	Ensure that implicit activation of UUS1 with a User-user information element with the minimum length of three octets (without any user information), included in the SETUP message sent from the calling user, is supported	
Parameter values:	BC=UDI	
Comments:		

220807	Ref. to ETS 300 286-1 [14], subclause 9.1.2.2.1b	Other relevant ref.: ETS 300 102-1 [1]
TSS reference:	ISDN-ISDN/Supplementary_services/UDI/UUS1/TC220807	
Selection criteria:	The calling (served) user is provided with UUS1 implicit request	
Test purpose:	Ensure that after implicit activation of UUS1 and with the call in the active state, the network can transport a User-user information element included in a call clearing DISCONNECT message sent from the called user and delivered in the DISCONNECT message sent by the network to the calling user.	
Parameter values:	BC=UDI, UI length=32	
Comments:		

220808	Ref. to ETS 300 286-1 [14], subclause 9.1.2.2.1b	Other relevant ref.: ETS 300 102-1 [1]
TSS reference:	ISDN-ISDN/Supplementary_services/UDI/UUS1/TC220808	
Selection criteria:	The calling (served) user is provided with UUS1 implicit request Multipoint configuration for the called side.	
Test purpose:	Ensure that after implicit activation of UUS1, the network can transport a User-user information element associated with the highest priority cause included in premature clearing RELEASE COMPLETE messages sent from the called users and delivered in the DISCONNECT message sent by the network to the calling user	
Parameter values:	BC=UDI, UI length=32	
Comments:		

220809	Ref. to ETS 300 286-1 [14], subclause 9.1.2.2.1b	Other relevant ref.: ETS 300 102-1 [1]
TSS reference:	ISDN-ISDN/Supplementary_services/UDI/UUS1/TC220809	
Selection criteria:	The calling (served) user is provided with UUS1 implicit request.	
Test purpose:	Ensure that after implicit activation of UUS1, the network can transport a User-user information element in premature clearing DISCONNECT message sent from the called user and delivered in the DISCONNECT message sent by the network to the calling user	
Parameter values:	BC=UDI, UI length=32	
Comments:		

220810	Ref. to ETS 300 286-1 [14], subclause 9.1.2.1	Other relevant ref.: ETS 300 102-1 [1], subclause 4.5.29
TSS reference:	ISDN-ISDN/Supplementary_services/UDI/UUS1/TC220810	
Selection criteria:	The calling (served) user is provided with UUS1 implicit request. Multipoint configuration for the called side.	
Test purpose:	Ensure that after implicit activation of UUS1, the network can transport a User-user information element included in the first received ALERTING message sent from the called users to the calling user in a ALERTING message	
Parameter values:	BC=UDI, UI length=32	
Comments:		

220811	Ref. to ETS 300 286-1 [14], subclause 9.1.2.2.1b	Other relevant ref.: ETS 300 102-1
TSS reference:	ISDN-ISDN/Supplementary_services/UDI/UUS1/TC220811	
Selection criteria:	The calling (served) user is provided with UUS1 implicit request. Multipoint configuration for the called side.	
Test purpose:	Ensure that after implicit activation of UUS1, the network can transport a User-user information element associated with the highest priority cause included in premature clearing DISCONNECT messages sent from the called users and delivered in the DISCONNECT message sent by the network to the calling user	
Parameter values:	BC=UDI, UI length=32	
Comments:		

220831	Ref. to ETS 300 286-1 [14], subclause 9.1.1.2.2	Other relevant ref.: ETS 300 102-1 [1], subclause 7.1.3.6
TSS reference:	ISDN-ISDN/Supplementary_services/UDI/UUS1/TC220831	
Selection criteria:	The calling (served) user is provided with UUS1 explicit request	
Test purpose:	Ensure that after explicit request of UUS1 indicating "required", if the called user rejects the call with a RELEASE COMPLETE message indicating cause value #29 "facility rejected", the network transport the cause value to the calling user. A UUS1 rejection with Error value "rejectedByUser" shall be included in the message	
Parameter values:	BC=UDI	
Comments:		

220832	Ref. to ETS 300 286-1 [14], subclause 9.1.1.2.2	Other relevant ref.: ETS 300 102-1 [1], subclause 7.1.3.6
TSS reference:	ISDN-ISDN/Supplementary_services/UDI/UUS1/TC220832	
Selection criteria:	The calling (served) user is provided with UUS1 explicit request	
Test purpose:	Ensure that after explicit request of UUS1 indicating "required", if the destination network rejects the UUS1 request, the network initiates call clearing to the calling user with cause value #69 "requested facility not implemented" or cause value #29 "facility rejected". A UUS1 rejection with the Error value "rejectedByUser" shall be included in the message.	
Parameter values:	BC=UDI	
Comments:		

220833	Ref. to ETS 300 286-1 [14], subclause 9.1.1.2.1	Other relevant ref.: ETS 300 102-1 [1], subclause 7.1.3.2
TSS reference:	ISDN-ISDN/Supplementary_services/UDI/UUS1/TC220833	
Selection criteria:	The calling (served) user is provided with UUS1 explicit request	
Test purpose:	Ensure that with the explicit request of UUS1 indicating "preferred", the network can transport a User-user information element included in the SETUP message sent from the calling user and delivered in the SETUP message sent by the network to the called user, and return the explicit service acceptance from the called user	
Parameter values:	BC=UDI, UI length=32	
Comments:		

220851	Ref. to ETS 300 286-1 [14], subclause 9.2.2.1	Other relevant ref.: ETS 300 102-1 [1], subclause 7.1.4.4
TSS reference:	ISDN-ISDN/Supplementary_services/UDI/UUS2/TC220851	
Selection criteria:	The calling (served) user is provided with UUS2. Point-to-point configuration for the called side.	
Test purpose:	Ensure that after activation of UUS2 indicating "preferred", the network can transport two USER INFORMATION messages in each direction, between the ALERTING and the CONNECT messages.	
Parameter values:	BC=UDI, UI length=32	
Comments:		

220852	Ref. to ETS 300 286-1 [14], subclause 9.2.1.2	Other relevant ref.: ETS 300 102-1 [1], subclause 7.1.4.3
TSS reference:	ISDN-ISDN/Supplementary_services/UDI/UUS2/TC220852	
Selection criteria:	The calling (served) user is provided with UUS2. Point-to-point configuration for the called side.	
Test purpose:	Ensure that after activation of UUS2 indicating "preferred", if the network does not receive an explicit acceptance or rejection in the ALERTING message from the called user, a UUS2 rejection with the Error value "rejected by the user, it is returned to the calling user in a ALERTING message sent from the network and the call can be established.	
Parameter values:	BC=UDI	
Comments:		

220871	Ref. to ETS 300 286-1 [14], subclause 9.3.1.1	Other relevant ref.: ETS 300 102-1 [1], subclause 7.1.5.2
TSS reference:	ISDN-ISDN/Supplementary_services/UDI/UUS3/TC220871	
Selection criteria:	The calling (served) user is provided with UUS3	
Test purpose:	Ensure that after activation of UUS3 during call establishment indicating "preferred", the network can transport USER INFORMATION messages in both directions during the Active state of the call	
Parameter values:	BC=UDI, UI length=32	
Comments:		

220872	Ref. to ETS 300 286-1 [14], subclause 9.3.1.1.2	Other relevant ref.: ETS 300 102-1 [1], subclause 7.1.5.3
TSS reference:	ISDN-ISDN/Supplementary_services/UDI/UUS3/TC220872	
Selection criteria:	The calling (served) user is provided with UUS3	
Test purpose:	Ensure that after the calling user request UUS3 during call establishment indicating "preferred", if the network does not receive an explicit acceptance or rejection in the CONNECT message from the called user, a UUS3 rejection with the Error value "rejected by the user" is included in the CONNECT message sent to the calling user.	
Parameter values:	BC=UDI	
Comments:		

220873	Ref. to ETS 300 286-1 [14], subclause 9.3.1.1	Other relevant ref.: ETS 300 102-1 [1], subclause 7.1.5.2
TSS reference:	ISDN-ISDN/Supplementary_services/UDI/UUS3/TC220873	
Selection criteria:	The calling (served) user is provided with UUS3	
Test purpose:	Ensure that after activation of UUS3 during call establishment indicating "required", the network can transport USER INFORMATION messages in both directions during the Active state of the call	
Parameter values:	BC=UDI, UI length=32	
Comments:		

220874	Ref. to ETS 300 286-1 [14], subclause 9.3.1.2.1	Other relevant ref.: ETS 300 102-1 [1], subclause 7.1.5.4
TSS reference:	ISDN-ISDN/Supplementary_services/UDI/UUS3/TC220874	
Selection criteria:	The calling (served) user is provided with UUS3	
Test purpose:	Ensure that after activation of UUS3 during the Active call state indicating "preferred", the network can transport USER INFORMATION messages in both directions during the Active state of the call	
Parameter values:	BC=UDI, UI length=32	
Comments:		

220875	Ref. to ETS 300 286-1 [14], subclause 9.3.1.2.2	Other relevant ref.: ETS 300 102-1 [1], subclause 7.1.5.5
TSS reference:	ISDN-ISDN/Supplementary_services/UDI/UUS3/TC220875	
Selection criteria:	The calling (served) user is provided with UUS3	
Test purpose:	Ensure that after the calling user request UUS3 during the Active call state indicating "preferred", if the called user rejects the service 3 request, the network can transport the FACILITY message including a UUS3 rejection with the Error value "rejected by the user" from the called user to the calling user.	
Parameter values:	BC=UDI	
Comments:		

221101	Ref. to ETS 300 207-1 [16], subclauses 9.2.2, 9.2.5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/UDI/CFU/TC221101	
Selection criteria:	The user A and the user C are in network N1. The user B is in network N2 and is provided with CFU ("calling user is notified of call diversion"=Yes, with diverted-to number, "diverting number is released to the diverted-to user"=Yes).	
Test purpose:	Ensure that when user A calls user B, the call is forwarded to user C, user A is notified of call diversion and informed of the diverted-to number (user C has presentation allowed - no COLR) and user C is informed of the forwarding number (user B has presentation allowed).	
Parameter values:	BC=UDI, CF active	
Comments:		

221102	Ref. to ETS 300 207-1 [16], subclauses 9.2.2, 9.2.5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/UDI/CFU/TC221102	
Selection criteria:	The user A and the user C are in network N1 and user C is provided with COLR. The user B is in network N2 and is provided with CFU ("calling user is notified of call diversion"=Yes, with diverted-to number, "diverting number is released to the diverted-to user"=No).	
Test purpose:	Ensure that when user A calls user B, the call is forwarded to user C, user A is notified of call diversion and not informed of the diverted-to number (user C has presentation not allowed - COLR) and user C is not informed of the forwarding number (user B has presentation not allowed).	
Parameter values:	BC=UDI, CF active	
Comments:		

221201	Ref. to ETS 300 207-1 [16], subclauses 9.2.2, 9.2.4.3, 9.2.5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/UDI/CFB/TC221201	
Selection criteria:	The user A and the user C are in network N1. The user B is in network N2 and is provided with CFB ("calling user is notified of call diversion"=Yes, with diverted-to number, "diverting number is released to the diverted-to user"=Yes).	
Test purpose:	Ensure that when user A calls busy user B, the call is forwarded to user C, user A is notified of call diversion and informed of the diverted-to number (user C has presentation allowed - no COLR) and user C is informed of the forwarding number (user B has presentation allowed).	
Parameter values:	BC=UDI, CF active	
Comments:		

221202	Ref. to ETS 300 207-1 [16], subclauses 9.2.2, 9.2.4.3, 9.2.5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/UDI/CFB/TC221202	
Selection criteria:	The user A and the user C are in network N1 and user C is provided with COLR. The user B is in network N2 and is provided with CFB ("calling user is notified of call diversion"=Yes, with diverted-to number, "diverting number is released to the diverted-to user"=No).	
Test purpose:	Ensure that when user A calls busy user B, the call is forwarded to user C, user A is notified of call diversion and not informed of the diverted-to number (user C has presentation not allowed - COLR) and user C is not informed of the forwarding number (user B has presentation not allowed).	
Parameter values:	BC=UDI, CF active	
Comments:		

221301	Ref. to ETS 300 102-1 [1], subclauses 9.2.2, 9.2.4.4, 9.2.5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/UDI/CFNR/TC221301	
Selection criteria:	The user A and the user C are in network N1. The user B is in network N2 and is provided with CFNR ("calling user is notified of call diversion"=Yes, with diverted-to number, "diverting number is released to the diverted-to user"=Yes).	
Test purpose:	Ensure that when user A calls user B, if unanswered the call is forwarded to user C, user A is notified of call diversion and informed of the diverted-to number (user C has presentation allowed - no COLR) and user C is informed of the forwarding number (user B has presentation allowed).	
Parameter values:	BC=UDI, CF active	
Comments:		

221302	Ref. to ETS 300 102-1 [1], subclauses 9.2.2, 9.2.4.4, 9.2.5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/UDI/CFNR/TC221302	
Selection criteria:	The user A and the user C are in network N1 and user C is provided with COLR. The user B is in network N2 and is provided with CFNR ("calling user is notified of call diversion"=Yes, with diverted-to number, "diverting number is released to the diverted-to user"=No).	
Test purpose:	Ensure that when user A calls user B, if unanswered the call is forwarded to user C, user A is notified of call diversion and not informed of the diverted-to number (user C has presentation not allowed - COLR) and user C is not informed of the forwarding number (user B has presentation not allowed).	
Parameter values:	BC=UDI, CF active	
Comments:		

221401	Ref. to ETS 300 207-1 [16], subclauses 9.2.2, 9.2.4.5, 9.2.5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/UDI/CD/TC221401	
Selection criteria:	The user A and the user C are in network N1. The user B is in network N2 and is provided with CD ("calling user is notified of call diversion"=Yes, with diverted-to number, "diverting number is released to the diverted-to user"=Yes).	
Test purpose:	Ensure that when user A calls user B and user B invoke CD (with the address of user C) during the alerting phase, the call is deflected to user C, user A is notified of call diversion and informed of the diverted-to number (user C has presentation allowed - no COLR) and user C is informed of the forwarding number (user B has presentation allowed).	
Parameter values:	BC=UDI	
Comments:		

221402	Ref. to ETS 300 207-1 [16], subclauses 9.2.2, 9.2.4.5, 9.2.5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/UDI/CD/TC221402	
Selection criteria:	The user A and the user C are in network N1. The user B is in network N2 and is provided with CD ("calling user is notified of call diversion"=Yes, with diverted-to number, "diverting number is released to the diverted-to user"=Yes).	
Test purpose:	Ensure that when user A calls user B and user B invoke CD (with the address of user C) during call present state, the call is deflected to user C, user A is notified of call diversion and informed of the diverted-to number (user C has presentation allowed - no COLR) and user C is informed of the forwarding number (user B has presentation allowed).	
Parameter values:	BC=UDI	
Comments:		

221501	Ref. to ETS 300 210-1 [17], subclause 9.2.2.1	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/UDI/FPH/TC221501	
Selection criteria:	The called (served) user is a freephone subscriber	
Test purpose:	Ensure that call establishment to a Freephone subscriber is possible and that the calling user is not charged. Verify that the free phone indication is delivered correctly to the called user.	
Parameter values:	BC=UDI	
Comments:		

221601	Ref. to ETS 300 130-1 [18], subclause 9.2.1	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/UDI/MCID/TC221601	
Selection criteria:	The called (served) user is provided with MCID	
Test purpose:	Ensure that if MCID is invoked by the called user in the Active call state, the call is registered.	
Parameter values:	BC=UDI	
Comments:		

221602	Ref. to ETS 300 130-1 [18], subclause 9.2.1	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/UDI/MCID/TC221602	
Selection criteria:	The called user is provided with MCID	
Test purpose:	Ensure that if MCID is invoked by the called user in the Disconnect Indication call state, the call is registered.	
Parameter values:	BC=UDI	
Comments:		

221801	Ref. to ETS 300 141-1 [20], clause 7	Other relevant ref.: ETS 300 196-1 [25], subclause 7.1
TSS reference:	ISDN-ISDN/Supplementary_services/UDI/HOLD/TC221801	
Selection criteria:	The calling user is provided with HOLD	
Test purpose:	Ensure that the remote user is notified of the call hold and retrieval	
Parameter values:	BC=UDI	
Comments:		

221901	Ref. to ETS 300 058-1 [21], clause 7	Other relevant ref.: ETS 300 102-1 [1], subclause 4.5.2.1
TSS reference:	ISDN-ISDN/Supplementary_services/UDI/CW/TC221901	
Selection criteria:	The called user is provided with CW, notification allowed	
Test purpose:	Ensure that when all B-channels are busy at the called side, the calling user is notified of the call waiting.	
Parameter values:	BC=UDI	
Comments:		

222101	Ref. to ETS 300 369-1 [23], subclauses 9.2.1, 9.2.3, 9.2.4	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/UDI/ECT/TC222101	
Selection criteria:	The user A is in network N1 and is provided with ECT. The user B and user C are in network N2.	
Test purpose:	Ensure that when user A invoke ECT (using implicit linkage) with a call to user B held and a call to user C in the Active state, both calls are released and a connection is established between user B and user C. A notification of call transfer is sent to user B and user C with information of the transferred-to number (user B and user C have presentation allowed - no COLR).	
Parameter values:	BC=UDI	
Comments:		

222102	Ref. to ETS 300 369-1 [23], subclauses 9.2.1, 9.2.3, 9.2.4	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/UDI/ECT/TC222102	
Selection criteria:	The user A is in network N1 and is provided with ECT. The user B and user C are in network N2 and are provided with COLR.	
Test purpose:	Ensure that when user A invoke ECT (using implicit linkage) with a call to user B held and a call to user C in the Active state, both calls are released and a connection is established between user B and user C. A notification of call transfer is sent to user B and user C without information of the transferred-to number (user B and user C have presentation restricted - COLR).	
Parameter values:	BC=UDI	
Comments:		

223001	Ref. to ETS 300 195-1 [24], clause 5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/UDI/Comb/TC223001	
Selection criteria:	The calling user is provided with COLP, UUS1 implicit request and belong to a CUG with outgoing access allowed, the called user is provided with CLIP and SUB	
Test purpose:	Ensure that when Calling party number is provided by the calling user with Calling party subaddress, Called party subaddress and User-user information elements, all the information elements are correctly delivered to the called user in the SETUP message sent by the network to the called user and when the Connected number is provided by the called user with Connected subaddress and User-user information elements, all the information elements are correctly delivered in the CONNECT message sent by the network to the calling user	
Parameter values:	BC=UDI, HLC=facsimile group 4, LLC=telematic_term, UI length=32, SI=UPVP	
Comments:		

223002	Ref. to ETS 300 195-1 [24], subclauses 5.29, 5.27	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/UDI/Comb/TC223002	
Selection criteria:	The calling user is provided with COLP, UUS1 implicit request , the called user is provided with CLIP and CFU, the forwarded-to user is provided with CLIP	
Test purpose:	Ensure that when Calling party number is provided by the calling user with Calling party subaddress and User-user information elements, all the information elements are correctly transferred to the forwarded-to user and delivered in the SETUP message sent by the network to the forwarded-to user without any bearer/teleservice change, and when the Connected number is provided by the forwarded-to user with Connected subaddress and User-user information elements, all the information elements are correctly delivered in the CONNECT message sent by the network to the calling user	
Parameter values:	BC=UDI, HLC=facsimile group 4, LLC=telematic_term, UI length=32, SI=UPVP	
Comments:		

223003	Ref. to ETS 300 195-1 [24], clause 5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/UDI/Comb/TC223003	
Selection criteria:	The called user is Freephone subscriber provided with CLIP	
Test purpose:	Ensure that when Calling party number is provided by the calling user, Type of number "unknown", the Calling party number information element is delivered correctly to the called user	
Parameter values:	BC=UDI, SI=UPVP	
Comments:		

6.2.1.3 Test purposes for ISDN-ISDN, B-channel end-to-end performance

300101	Ref. to ETS 300 102-1 [1]	Other relevant ref.:
TSS reference:	ISDN-ISDN/B-channel/Speech/TC300101	
Selection criteria:		
Test purpose:	To ensure that speech transfer on the B-channel is performed correctly.	
Parameter values:	BC=speech	
Comments:		

300201	Ref. to ETS 300 102-1 [1]	Other relevant ref.: ETS 300 289 [26]
TSS reference:	ISDN-ISDN/B-channel/UDI/TC300201	
Selection criteria:		
Test purpose:	To verify compliance with the requirements for error and octet slip for the first or the last continuous 24 hour period: - the number of errored seconds shall be less than 5 324; - the number of severely errored seconds shall be less than 105; - the number of octet slips shall be less than 5.	
Parameter values:	BC=UDI, PRBS=2 ¹¹ -1	
Comments:	Each direction shall be tested separately	

300301	Ref. to ETS 300 102-1 [1]	Other relevant ref.:
TSS reference:	ISDN-ISDN/B-channel/Audio/TC300301	
Selection criteria:		
Test purpose:	To ensure that 3,1 kHz signal transfer on the B-channel is performed correctly.	
Parameter values:	BC=3,1 kHz audio	
Comments:		

300401	Ref. to ETS 300 102-1 [1]	Other relevant ref.: ETS 300 289 [26]
TSS reference:	ISDN-ISDN/B-channel/UDI-TA/TC300401	
Selection criteria:		
Test purpose:	To verify compliance with the requirements for error and octet slip for the first or the last continuous 24 hour period: - the number of errored seconds shall be less than 5 324; - the number of severely errored seconds shall be less than 105; - the number of octet slips shall be less than 5.	
Parameter values:	BC=UDI/TA, PRBS=2 ¹¹ -1	
Comments:	Each direction shall be tested separately	

6.2.2 Test purposes for ISDN-PSTN

6.2.2.1 Test purposes for ISDN-PSTN, basic call

410101	Ref. to ETS 300 102-1 [1], subclause 5.1.6	Other relevant ref.:
TSS reference:	ISDN-PSTN/Basic_call/Successful/Speech/TC410101	
Selection criteria:		
Test purpose:	Ensure that the call establishment using en-bloc sending is performed correctly. During call establishment a Progress indicator information element shall be returned to the calling user with progress description value #1 "call is not end-to-end ISDN" or #2 "destination address is non-ISDN"	
Parameter values:	BC=speech, no HLC	
Comments:	P104 TC31101	

410102	Ref. to ETS 300 102-1 [1], subclause 5.1.6	Other relevant ref.:
TSS reference:	ISDN-PSTN/Basic_call/Successful/Speech/TC410102	
Selection criteria:		
Test purpose:	Ensure that the call establishment using overlap sending is performed correctly. During call establishment a Progress indicator information element shall be returned to the calling user with progress description value #1 "call is not end-to-end ISDN" or #2 "destination address is non-ISDN"	
Parameter values:	BC=speech, no HLC	
Comments:	P104 TC31102	

410103	Ref. to ETS 300 102-1 [1], subclause 5.3.3	Other relevant ref.:
TSS reference:	ISDN-PSTN/Basic_call/Successful/Speech/TC410103	
Selection criteria:		
Test purpose:	Ensure that the clearing procedure is performed correctly when the calling user clears after answer	
Parameter values:	BC=speech, no HLC	
Comments:	P104 TC31103	

410104	Ref. to ETS 300 102-1 [1], subclause 5.3.3	Other relevant ref.:
TSS reference:	ISDN-PSTN/Basic_call/Successful/Speech/TC410104	
Selection criteria:		
Test purpose:	Ensure that the clearing procedure is performed correctly when the called user clears after answer	
Parameter values:	BC=speech, no HLC	
Comments:	P104 TC31104	

410105	Ref. to ETS 300 102-1 [1],	Other relevant ref.:
TSS reference:	ISDN-PSTN/Basic_call/Successful/Speech/TC410105	
Selection criteria:		
Test purpose:	Ensure that the re-answer procedure is performed correctly when the called user clears and re-answers	
Parameter values:	BC=speech, no HLC	
Comments:	P104 TC31105	

410106	Ref. to ETS 300 102-1 [1], subclauses 4.5.16, 5.1.6	Other relevant ref.:
TSS reference:	ISDN-PSTN/Basic_call/Successful/Speech/TC410106	
Selection criteria:		
Test purpose:	Support of telephony 3,1 kHz teleservice: Ensure that call establishment can be done with HLC. During call establishment a Progress indicator information element shall be returned to the calling user with progress description value #1 "call is not end-to-end ISDN" or #2 "destination address is non-ISDN"	
Parameter values:	BC=speech, HLC=telephony	
Comments:	P104 TC31106	

410301	Ref. to ETS 300 102-1 [1], subclause 5.1.6	Other relevant ref.:
TSS reference:	ISDN-PSTN/Basic_call/Successful/Audio/TC410301	
Selection criteria:		
Test purpose:	Ensure that the call establishment using en-bloc sending is performed correctly. During call establishment a Progress indicator information element shall be returned to the calling user with progress description value #1 "call is not end-to-end ISDN" or #2 "destination address is non-ISDN"	
Parameter values:	BC=3,1 kHz audio, no HLC	
Comments:	P104 TC31201	

410302	Ref. to ETS 300 102-1 [1], subclause 5.1.6	Other relevant ref.:
TSS reference:	ISDN-PSTN/Basic_call/Successful/Audio/TC410302	
Selection criteria:		
Test purpose:	Ensure that the call establishment using overlap sending is performed correctly. During call establishment a Progress indicator information element shall be returned to the calling user with progress description value #1 "call is not end-to-end ISDN" or #2 "destination address is non-ISDN"	
Parameter values:	BC=3,1 kHz audio, no HLC	
Comments:	P104 TC31202	

410303	Ref. to ETS 300 102-1 [1], subclause 5.3.3	Other relevant ref.:
TSS reference:	ISDN-PSTN/Basic_call/Successful/Audio/TC410303	
Selection criteria:		
Test purpose:	Ensure that the clearing procedure is performed correctly when the calling user clears after answer	
Parameter values:	BC=3,1 kHz audio, no HLC	
Comments:	P104 TC31203	

410304	Ref. to ETS 300 102-1 [1], subclause 5.3.3	Other relevant ref.:
TSS reference:	ISDN-PSTN/Basic_call/Successful/Audio/TC410304	
Selection criteria:		
Test purpose:	Ensure that the clearing procedure is performed correctly when the called user clears after answer	
Parameter values:	BC=3,1 kHz audio, no HLC	
Comments:	P104 TC31204	

410305	Ref. to ETS 300 102-1 [1], subclauses 4.5.16, 5.1.6	Other relevant ref.:
TSS reference:	ISDN-PSTN/Basic_call/Successful/Audio/TC410305	
Selection criteria:		
Test purpose:	Support of Telefax G2/G3: Ensure that call establishment can be done with HLC. During call establishment a Progress indicator information element shall be returned to the calling user with progress description value #1 "call is not end-to-end ISDN" or #2 "destination address is non-ISDN"	
Parameter values:	BC=3,1 kHz audio, HLC=facsimile group 2/3	
Comments:	P104 TC31205	

410306	Ref. to ETS 300 102-1 [1], subclause 4.5.18	Other relevant ref.:
TSS reference:	ISDN-PSTN/Basic_call/Successful/Audio/TC410306	
Selection criteria:		
Test purpose:	Support of voice band data via modem: Ensure that call establishment can be done with LLC. During call establishment a Progress indicator information element shall be returned to the calling user with progress description value #1 "call is not end-to-end ISDN" or #2 "destination address is non-ISDN"	
Parameter values:	BC=3,1 kHz audio, LLC=voice band data via modem	
Comments:	P104 TC31206	

420101	Ref. to ETS 300 102-1 [1]	Other relevant ref.:
TSS reference:	ISDN-PSTN/Basic_call/Unsuccessful/Speech/TC420101	
Selection criteria:		
Test purpose:	Ensure that when the called PSTN user is busy the network transport the cause value #17 "user busy" to the calling user	
Parameter values:	BC=speech	
Comments:	P104 TC32001	

420102	Ref. to ETS 300 102-1 [1]	Other relevant ref.:
TSS reference:	ISDN-PSTN/Basic_call/Unsuccessful/Speech/TC420102	
Selection criteria:		
Test purpose:	Ensure that when calling to a unallocated PSTN number, the network initiate call clearing to the calling user with cause value #1 "unassigned number"	
Parameter values:	BC=speech	
Comments:	P104 TC32002	

420103	Ref. to ETS 300 102-1 [1]	Other relevant ref.:
TSS reference:	ISDN-PSTN/Basic_call/Unsuccessful/Speech/TC420103	
Selection criteria:		
Test purpose:	Ensure that when the calling user clears with cause value #16 "normal call clearing" before answer from the called PSTN user, the call is cleared	
Parameter values:	BC=speech	
Comments:	P104 TC32003	

420104	Ref. to ETS 300 102-1 [1]	Other relevant ref.:
TSS reference:	ISDN-PSTN/Basic_call/Unsuccessful/Speech/TC420104	
Selection criteria:		
Test purpose:	Ensure that when the called PSTN user is ringing but not answering, the network initiate call clearing to the calling user with cause value #18 "no user responding" or cause value #19 "no answer from user (user alerted)"	
Parameter values:	BC=speech	
Comments:	P104 TC32004	

420201	Ref. to ETS 300 102-1 [1]	Other relevant ref.:
TSS reference:	ISDN-PSTN/Basic_call/Unsuccessful/UDI /TC420201	
Selection criteria:		
Test purpose:	Ensure that when the calling user requests digital connectivity for a call to a PSTN user, the network initiate call clearing to the calling user with cause value #88 "incompatible destination".	
Parameter values:	BC=UDI	
Comments:		

420301	Ref. to ETS 300 102-1 [1]	Other relevant ref.:
TSS reference:	ISDN-PSTN/Basic_call/Unsuccessful/UDI/TC420301	
Selection criteria:		
Test purpose:	Ensure that when the called PSTN user is busy the network transport the cause value #17 "user busy" to the calling user	
Parameter values:	BC=3,1 kHz audio	
Comments:		

420302	Ref. to ETS 300 102-1 [1]	Other relevant ref.:
TSS reference:	ISDN-PSTN/Basic_call/Unsuccessful/UDI/TC420302	
Selection criteria:		
Test purpose:	Ensure that when calling to a unallocated PSTN number, the network initiate call clearing to the calling user with cause value #1 "unassigned number"	
Parameter values:	BC=3,1 kHz audio	
Comments:		

420303	Ref. to ETS 300 102-1 [1]	Other relevant ref.:
TSS reference:	ISDN-PSTN/Basic_call/Unsuccessful/UDI/TC420303	
Selection criteria:		
Test purpose:	Ensure that when the calling user clears with cause value #16 "normal call clearing" before answer from the called PSTN user, the call is cleared	
Parameter values:	BC=3,1 kHz audio	
Comments:		

420304	Ref. to ETS 300 102-1 [1]	Other relevant ref.:
TSS reference:	ISDN-PSTN/Basic_call/Unsuccessful/UDI/TC420304	
Selection criteria:		
Test purpose:	Ensure that when the called PSTN user is ringing but not answering, the network initiate call clearing to the calling user with cause value #18 "no user responding" or cause value #19 "no answer from user (user alerted)"	
Parameter values:	BC=3,1 kHz audio	
Comments:		

6.2.2.2 Test purposes for ISDN-PSTN, supplementary services

510001	Ref. to ETS 300 286-1 [14], subclauses 11.2, 9.1.1.1.2	Other relevant ref.:
TSS reference:	ISDN-PSTN/Supplementary_services/Speech/UUS1/TC510001	
Selection criteria:	The calling (served) user is provided with UUS1 implicit request	
Test purpose:	Ensure that when a User-user information element is included in the SETUP message sent from the calling user, call establishment can be done without User-user information.	
Parameter values:	BC=speech	
Comments:	P104 TC40001	

510002	Ref. to ETS 300 097-1 [9], subclauses 9.5.1, 11	Other relevant ref.:
TSS reference:	ISDN-PSTN/Supplementary_services/Speech/COLP/TC510002	
Selection criteria:	The calling user is provided with COLP	
Test purpose:	Ensure that the Connected number information element is network provided and correctly delivered to the calling user or, if the PSTN does not support this service, the presentation indicator indicate "number not available due to interworking"	
Parameter values:	BC=speech, SI=NP	
Comments:	P104 TC40002	

510003	Ref. to ETS 300 098-1 [10], subclauses 9.3.1, 9.4.1, 11	Other relevant ref.: ETS 300 097-1 [9], subclause 9.5.1
TSS reference:	ISDN-PSTN/Supplementary_services/Speech/COLR/TC510003	
Selection criteria:	The called PSTN user is provided with COLR, the calling user is provided with COLP	
Test purpose:	Ensure that the Connected number information element is network provided and delivered to the calling user without any digit information or, if the PSTN does not support this service, the presentation indicator indicate "number not available due to interworking"	
Parameter values:	BC=speech, (PI=PR), SI=NP, TON=unknown, NPI=unknown	
Comments:	P104 TC40003	

510005	Ref. to ETS 300 138-1 [11]	Other relevant ref.:
TSS reference:	ISDN-PSTN/Supplementary_services/Speech/CUG/TC510005	
Selection criteria:	The calling user belongs to a CUG with outgoing access allowed and called PSTN user is not member of the CUG	
Test purpose:	Ensure that when the calling user belongs to a CUG with outgoing access "allowed", call establishment to a PSTN user is possible	
Parameter values:	BC=speech, CUG default request	
Comments:	P104 TC40005	

510006	Ref. to ETS 300 207-1 [16]	Other relevant ref.:
TSS reference:	ISDN-PSTN/Supplementary_services/Speech/CFU/TC510006	
Selection criteria:	The user A and the user C are in the ISDN. The user B is in the PSTN and is provided with CFU.	
Test purpose:	Ensure that when user A calls user B, the call is forwarded to user C and user A is notified of call diversion.	
Parameter values:	BC=speech, CF active	
Comments:	P104 TC40006	

510007	Ref. to ETS 300 210-1 [17]	Other relevant ref.:
TSS reference:	ISDN-PSTN/Supplementary_services/Speech/FPH/TC510007	
Selection criteria:	Called user is Freephone subscriber in PSTN	
Test purpose:	Ensure that call establishment to a PSTN Freephone subscriber is possible, and that the calling user is not charged. During call establishment a Progress indicator information element shall be received by the calling user with progress description #1 "call is not end-to-end ISDN" or #2 "destination address is non-ISDN"	
Parameter values:	BC=speech	
Comments:	P104 TC40007	

510008	Ref. to ETS 300 138-1 [11], subclauses 9.2.2.2, 11	Other relevant ref.:
TSS reference:	ISDN-PSTN/Supplementary_services/Speech/CUG/TC510008	
Selection criteria:	Calling user belongs to a CUG with outgoing access not allowed and called PSTN user is not member of the CUG	
Test purpose:	Ensure when the calling user belongs to a CUG with outgoing access "not allowed" and called PSTN user is not member of the CUG, call establishment is not possible and the network initiate call clearing to the calling user indicating cause value #87 "user not a member of CUG".	
Parameter values:	BC=speech, CUG default request	
Comments:	P104 TC32005	

510009	Ref. to ETS 300 286-1 [14], subclauses 11.2, 9.1.1.2.2	Other relevant ref.: ETS 300 102-1 [1], subclause 7.1.3.6
TSS reference:	ISDN-PSTN/Supplementary_services/Speech/UUS1/TC510009	
Selection criteria:	The calling (served) user is provided with UUS1 explicit request	
Test purpose:	Ensure that when the calling user explicit request UUS1 indicating "required", the network initiate call clearing to the calling user indicating cause value #69 "requested facility not implemented" or cause value #29 "facility rejected", and a UUS service 1 rejection with Error value "rejectedByUser".	
Parameter values:	BC=speech	
Comments:	P104 TC32006	

6.2.3 Test purposes for PSTN-ISDN

6.2.3.1 Test purposes for PSTN-ISDN, basic call

610101	Ref. to ETS 300 102-1 [1], subclauses 5.2.6, B.4	Other relevant ref.:
TSS reference:	PSTN-ISDN/Basic_call/Successful/TC610101	
Selection criteria:		
Test purpose:	Ensure that call is delivered to the called ISDN user with the Bearer capability information element indicating "3,1 kHz audio". During call establishment a Progress indicator information element shall be included in the SETUP message sent to the called user with progress description value #1 "call is not end-to-end ISDN" or #3 "origination address is non-ISDN"	
Parameter values:		
Comments:	P104 TC51001	

610102	Ref. to ETS 300 102-1 [1]	Other relevant ref.:
TSS reference:	PSTN-ISDN/Basic_call/Successful/TC610102	
Selection criteria:		
Test purpose:	Ensure that the clearing procedure is performed correctly when the calling user clears the call after answering.	
Parameter values:		
Comments:	P104 TC51002	

610103	Ref. to ETS 300 102-1 [1]	Other relevant ref.:
TSS reference:	PSTN-ISDN/Basic_call/Successful/TC610103	
Selection criteria:		
Test purpose:	Ensure that the clearing procedure is performed correctly when the called ISDN user clears the call after answering	
Parameter values:		
Comments:	P104 TC51003	

620101	Ref. to ETS 300 102-1 [1]	Other relevant ref.:
TSS reference:	PSTN-ISDN/Basic_call/Unsuccessful/TC620101	
Selection criteria:		
Test purpose:	Ensure that when the called ISDN user is busy, the calling user receives in-band information that the called user is busy	
Parameter values:		
Comments:	P104 TC52001	

620102	Ref. to ETS 300 102-1 [1]	Other relevant ref.:
TSS reference:	PSTN-ISDN/Basic_call/Unsuccessful/TC620102	
Selection criteria:		
Test purpose:	Ensure that when the called ISDN user terminal is not connected, the calling user receives in-band announcement that the destination is out of order	
Parameter values:		
Comments:	P104 TC52002	

620103	Ref. to ETS 300 102-1 [1]	Other relevant ref.:
TSS reference:	PSTN-ISDN/Basic_call/Unsuccessful/TC620103	
Selection criteria:		
Test purpose:	Ensure that when calling to unallocated ISDN number, the calling user receives in-band information that the called number is unallocated	
Parameter values:		
Comments:	P104 TC52003	

620104	Ref. to ETS 300 102-1 [1]	Other relevant ref.:
TSS reference:	PSTN-ISDN/Basic_call/Unsuccessful/TC620104	
Selection criteria:	Multipoint configuration for the called side.	
Test purpose:	Ensure that when the calling user clears before answer from the called ISDN user in a point-to-multipoint access configuration, the call is cleared	
Parameter values:		
Comments:	P104 TC52004	

620106	Ref. to ETS 300 102-1 [1]	Other relevant ref.:
TSS reference:	PSTN-ISDN/Basic_call/Unsuccessful/TC620106	
Selection criteria:	Point-to-point configuration for the called side.	
Test purpose:	Ensure that when the calling user clears before answer from the called ISDN user in a point-to-point access configuration, the call is cleared	
Parameter values:		
Comments:		

620105	Ref. to ETS 300 102-1 [1]	Other relevant ref.:
TSS reference:	PSTN-ISDN/Basic_call/Unsuccessful/TC620105	
Selection criteria:		
Test purpose:	Ensure that when the called ISDN user is alerted by not answering before timer Q118 expires, the network initiate call clearing.	
Parameter values:		
Comments:	P104 TC52005	

6.2.3.2 Test purposes for PSTN-ISDN, supplementary services

710001	Ref. to ETS 300 092-1 [7], subclauses 9.5.1, 11	Other relevant ref.:
TSS reference:	PSTN-ISDN/Supplementary_services/CLIP/TC710001	
Selection criteria:	The called (served) user is provided with CLIP	
Test purpose:	Ensure that the Calling party number information element is network provided and correctly delivered to the called ISDN user or, if the PSTN does not support this service, the presentation indicator indicates "number not available due to interworking"	
Parameter values:	SI=NP	
Comments:	P104 TC53001	

710002	Ref. to ETS 300 093-1 [8], subclause 9.4.1	Other relevant ref.: ETS 300 092-1 [7], 9.5.1
TSS reference:	PSTN-ISDN/Supplementary_services/CLIR/TC710002	
Selection criteria:	The calling (served) user is provided with CLIR, the called user with CLIP	
Test purpose:	Ensure that the Calling party number information element is network provided and correctly delivered to the called user without any digit information or, if the PSTN does not support this service, the presentation indicator indicates "number not available due to interworking"	
Parameter values:	SI=NP, (PI=PR), TON=unknown, NPI=unknown	
Comments:	P104 TC53002	

710004	Ref. to ETS 300 207-1 [16]	Other relevant ref.:
TSS reference:	PSTN-ISDN/Supplementary_services/CFU/TC710004	
Selection criteria:	The user A and the user C are in PSTN. The user B is in the ISDN and is provided with CFU.	
Test purpose:	Ensure that when user A calls user B, the call is forwarded to user C.	
Parameter values:	CF active	
Comments:	P104 TC53004 (or TC60004)	

710005	Ref. to ETS 300 130-1 [18]	Other relevant ref.:
TSS reference:	PSTN-ISDN/Supplementary_services/MCID/TC710005	
Selection criteria:	Called user is provided with MCID	
Test purpose:	Ensure that the call to an ISDN user is registered when the MCID service is requested by the called user in the Active call state	
Parameter values:		
Comments:	P104 TC53005	

710006	Ref. to ETS 300 210-1 [17]	Other relevant ref.:
TSS reference:	PSTN-ISDN/Supplementary_services/FPH/TC710006	
Selection criteria:	Called user is Freephone subscriber	
Test purpose:	Ensure that call establishment to an ISDN Freephone subscriber is possible, and that the calling user is not charged. During call establishment a Progress indicator information element shall be included in the SETUP message sent to the called user with progress description #1 "call is not end-to-end ISDN" or #3 "origination address is non-ISDN"	
Parameter values:		
Comments:	P104 TC53006	

710007	Ref. to ETS 300 138-1 [11], subclause 9.2.3	Other relevant ref.:
TSS reference:	PSTN-ISDN/Supplementary_services/CUG/TC710007	
Selection criteria:	Called user belongs to a CUG with incoming access not allowed and calling user is not member of the CUG	
Test purpose:	Ensure that when the called ISDN user belongs to a CUG with incoming access "not allowed" and calling user is not member of the CUG, the call is not established	
Parameter values:		
Comments:	P104 TC52006	

History

Document history	
September 1996	First Edition