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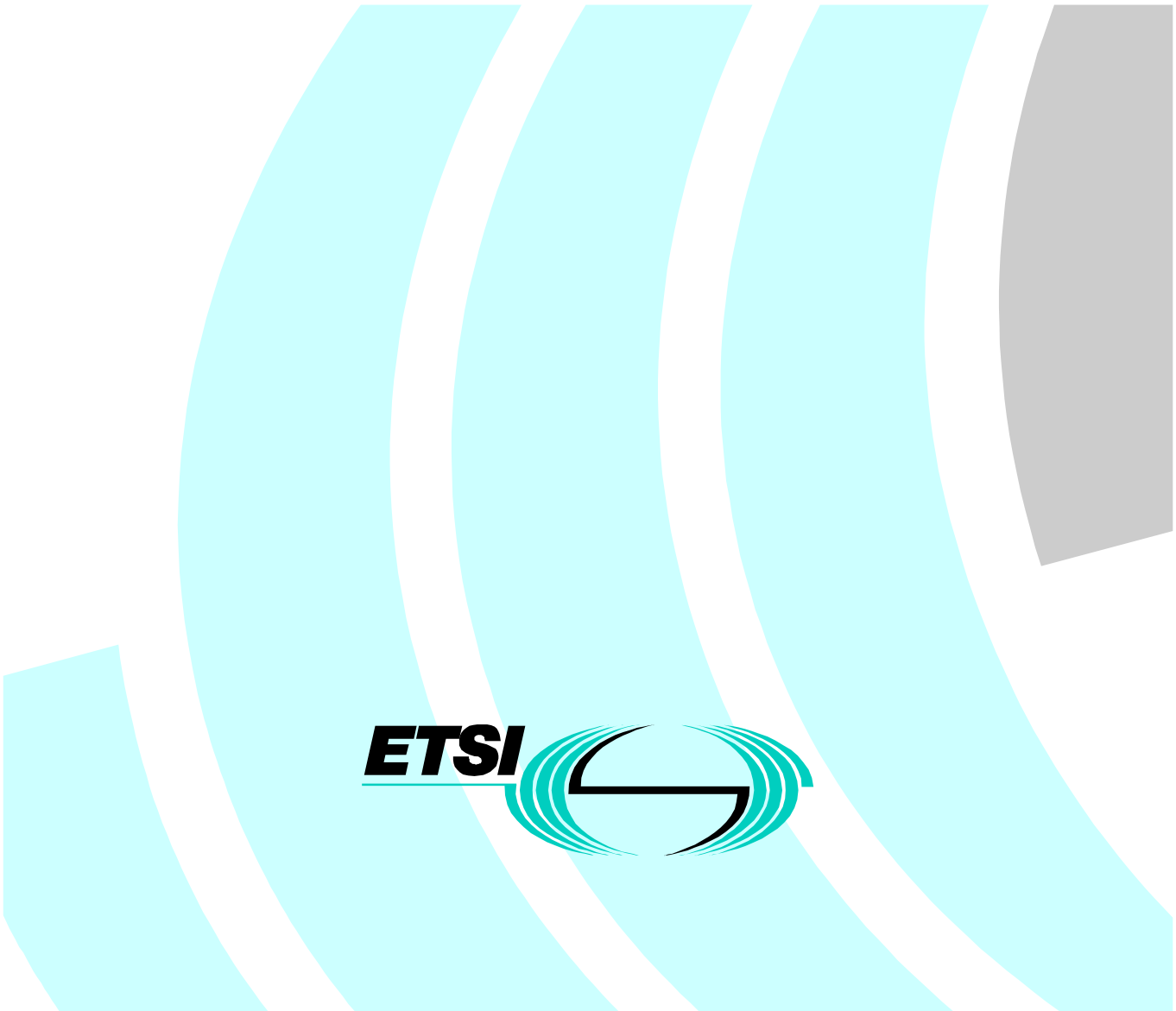
ETSI Guide

Integrated Services Digital Network (ISDN); Network Integration Testing (NIT); ISDN/PSTN end-to-end testing; Part 1: Test Suit Structure and Test Purposes (TSS&TP) specification



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Foreword

This ETSI Guide (EG) has been produced by ETSI Technical Committee Services and Protocols for Advanced Networks (SPAN), and is now submitted for the ETSI standards Membership Approval Procedure.

The present document is part 1 of a multi-part EG covering Integrated Services Digital Network (ISDN); Network Integration Testing (NIT); ISDN/PSTN end-to-end testing, as identified below:

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

Part 2: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma for the network".

Introduction

The present document contains the Test Suite Structure and Test Purposes (TSS&TP) list developed in the EURESCOM project P613 "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 and 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 P613 with additional test purposes for the basic call and supplementary services that are supported by the international 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 hours measurement period and target values used by ETSI for ONP 64 kbit/s leased line applications.

1 Scope

The present document 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 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

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies.
- A non-specific reference to an ETS shall also be taken to refer to later versions published as an EN with the same number.

[1] EN 300 403-1: "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; Signalling network layer for circuit-mode basic call control; Part 1: Protocol specification [ITU-T Recommendation Q.931 (1993), modified]".

[2] ETS 300 267-1: "Integrated Services Digital Network (ISDN); Telephony 7 kHz and videotelephony teleservices; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".

[3] ETS 300 080: "Integrated Services Digital Network (ISDN); ISDN lower layer protocols for telematic terminals".

[4] ETS 300 103: "Integrated Services Digital Network (ISDN); Support of CCITT Recommendation X.21, X.21 bis and X.20 bis based Data Terminal Equipments (DTEs) by an ISDN Synchronous and asynchronous terminal adaptation functions".

[5] ETS 300 092-1: "Integrated Services Digital Network (ISDN); Calling Line Identification Presentation (CLIP) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".

[6] ETS 300 093-1: "Integrated Services Digital Network (ISDN); Calling Line Identification Restriction (CLIR) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".

[7] ETS 300 097-1: "Integrated Services Digital Network (ISDN); Connected Line Identification Presentation (COLP) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".

[8] ETS 300 098-1: "Integrated Services Digital Network (ISDN); Connected Line Identification Restriction (COLR) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".

[9] ETS 300 138-1: "Integrated Services Digital Network (ISDN); Closed User Group (CUG) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".

[10] ETS 300 061-1: "Integrated Services Digital Network (ISDN); Subaddressing (SUB) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".

[11] ETS 300 055-1: "Integrated Services Digital Network (ISDN); Terminal Portability (TP) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".

[12] ETS 300 286-1: "Integrated Services Digital Network (ISDN); User-to-User Signalling (UUS) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".

[13] ETS 300 185-1: "Integrated Services Digital Network (ISDN); Conference call, add-on (CONF) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".

[14] ETS 300 207-1: "Integrated Services Digital Network (ISDN); Diversion supplementary services; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".

[15] ETS 300 210-1: "Integrated Services Digital Network (ISDN); Freephone (FPH) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".

[16] ETS 300 130-1: "Integrated Services Digital Network (ISDN); Malicious Call Identification (MCID) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".

[17] ETS 300 188-1: "Integrated Services Digital Network (ISDN); Three-Party (3PTY) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".

[18] ETS 300 141-1: "Integrated Services Digital Network (ISDN); Call Hold (HOLD) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".

[19] ETS 300 058-1: "Integrated Services Digital Network (ISDN); Call Waiting (CW) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".

[20] ETS 300 356-1: "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 1: Basic services [ITU-T Recommendations Q.761 to Q.764 (1993), modified]".

[21] ETS 300 369-1: "Integrated Services Digital Network (ISDN); Explicit Call Transfer (ECT) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".

[22] ETS 300 195-1: "ISDN Supplementary service interactions, DSS1 protocol.

[23] ETS 300 289: "Business TeleCommunications (BTC); 64 kbit/s digital unrestricted leased line with octet integrity (D64U); Connection characteristics".

[24] ITU-T Recommendation G.821: "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".

[25] CCITT Recommendation G.822 (1988): "Controlled slip rate objectives of an international digital connection".

[26] CCITT Recommendation O.152 (1988): "Error performance measuring equipment for 64 kbit/s paths".

[27] CCITT Recommendation I.112 (1988): "Vocabulary and terms for ISDNs".

[28] CCITT Recommendation I.210 (1988): "Principles of the telecommunication services supported by an ISDN and the means to describe them".

[29] CCITT Recommendation E.164 (1988): "Numbering plan for the ISDN era".

[30] ISO/IEC 9646-1: "Information Technology - OSI Conformance Testing Methodology and Framework - Part 1: General Concepts".

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

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

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

[34] ITU-T Recommendation F.182: "Guidelines for the support of the communication of documents using Group 3 facsimile between user terminals via public networks".

[35] ISO/IEC 7776: "Information technology - Telecommunications and information exchange between systems - High-level data link control procedures - Description of the X.25 LAPB-compatible DTE data link procedures".

[36] ISO/IEC 8208: "Information technology - Data communications - X.25 Packet Layer Protocol for Data Terminal Equipment".

[37] EG 201 018: "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".

[38] ETS 300 097-1/A1: "Integrated Services Digital Network (ISDN); Connected Line Identification Presentation (COLP) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".

[39] ITU-T Recommendation Q.737.1: "User-to-user signalling (UUS)".

[40] ITU-T Recommendation Q.699: "Interworking between ISDN access and non-ISDN access over ISDN User Part of Signalling System No. 7".

[41] ITU-T Recommendation Q.734.2: "Three-party service".

[42] EN 300 196-1: "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".

[43] EN 300 359-1: "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".

[44] EN 300 357: "Integrated Services Digital Network (ISDN); Completion of Calls to Busy Subscriber (CCBS) supplementary service; Service description".

[45] EN 301 065-1: "Integrated Services Digital Network (ISDN); Completion of Calls on No Reply (CCNR) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".

[46] ETS 300 001: "Attachments to the Public Switched Telephone Network (PSTN); General technical requirements for equipment connected to an analogue subscriber interface in the PSTN".

[47] ETS 300 648: "Public Switched Telephone Network (PSTN); Calling Line Identification Presentation (CLIP) supplementary service; Service description".

[48] ETS 300 659: "Public Switched Telephone Network (PSTN); Subscriber line protocol over the local loop for display (and related) services; Part 1: On hook data transmission".

[49] ITU-T Recommendation V.110: "Support by an ISDN of data terminal equipments with V-Series type interfaces".

[50] ITU-T Recommendation X.30: "Support of X.21, X.21 bis and X.20 bis based Data Terminal Equipments (DTEs) by an Integrated Services Digital Network (ISDN)".

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

NOTE: Not yet published.

3 Definitions

For the purposes of the present document, the following terms and definitions apply.

3.1 Definitions related to conformance testing

Abstract Test Suite: refer to ISO/IEC 9646-1 [30]

Implementation Under Test: refer to ISO/IEC 9646-1 [30]

Lower Tester: refer to ISO/IEC 9646-1 [30]

Implementation Conformance Statement (ICS) proforma: refer to ISO/IEC 9646-1 [30]

Implementation eXtra Information for Testing (IXIT) proforma: refer to ISO/IEC 9646-1 [30]

Point of Control and Observation: refer to ISO/IEC 9646-1 [30]

Protocol Implementation Conformance Statement: refer to ISO/IEC 9646-1 [30]

Protocol Implementation eXtra Information for Testing: refer to ISO/IEC 9646-1 [30]

System Under Test: refer to ISO/IEC 9646-1 [30]

Test Purpose: refer to ISO/IEC 9646-1 [30]

3.2 Definitions related to EN 300 403-1

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

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

Integrated Services Digital Network (ISDN): see CCITT Recommendation I.112 [27], subclause 2.2 definition 308

Service: telecommunications service: see CCITT Recommendation I.112 [27], subclause 2.2 definition 201

Supplementary service: see CCITT Recommendation I.210 [28], subclause 2.4

ISDN number: number conforming to the numbering and structure specified in CCITT Recommendation E.164 [29]

3.3 Definitions related to test purpose descriptions

BC = speech: bearer capability information element with its information transfer capability field set to "speech" and its user information layer one protocol field set to "G.711 [31] A-law"

BC = 3,1 kHz audio: 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 [31] A-law"

BC = UDI: bearer capability information element with its information transfer capability set to "unrestricted digital information"

BC = UDI/TA: 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 [32] and H.242 [51]"

BC = ITU-T Recommendation V.110 [49] / ITU-T Recommendation X.30 [50]: 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 ITU-T Recommendation V.110 [49] / ITU-T Recommendation X.30 [50]", including sync/async and user rate values

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

HLC = videotelephony_ic: High Layer compatibility information element with its high layer characteristics identification field set to "videotelephony (ITU-T Recommendation F.721 [33])" and its extended audiovisual characteristics field set to "capability set of initial channel of ITU-T Recommendation H.221 [32]"

HLC = facsimile group 2/3: High Layer compatibility information element with its high layer characteristics identification field set to "facsimile group 2/3 (ITU-T Recommendation F.182 [34])"

HLC = facsimile group 4: High Layer compatibility information element with its high layer characteristics identification field set to "facsimile group 4 class 1"

HLC = telex: High Layer compatibility information element with its high layer characteristics identification field set to "telex"

LLC = telematic_term: Low Layer compatibility information element with its user information layer 2 field indicating "ISO/IEC 7776 DTE-DTE [35] operation" and user information layer 3 field indicating "ISO/IEC 8208 [36]"

LLC = voice band data via modem: Low Layer compatibility information element with its user information layer 1 field indicating a "modem type" coding

LLC = ITU-T Recommendation V.110 [49] / ITU-T Recommendation X.30 [50]: a Low Layer compatibility information element with its user information layer 1 field indicating "CCITT standardized rate adaption ITU-T Recommendation V.110 [49] / ITU-T Recommendation X.30 [50]" and including sync/async and user rate values

t**elephony 7 kHz fallback not allowed SETUP message**: SETUP message containing a single BC = UDI/TA and a HLC = telephony

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

SI = UPVP: Screening Indicator forwarded to the served user coded as "User-provided, verified and passed"

SI = NP: Screening Indicator forwarded to the served user coded as "Network provided"

PI = PR: Presentation Indicator forwarded to the served user coded as "Presentation restricted"

TON = international: type of number forwarded to the served user coded as "international"

TON = unknown: type of number forwarded to the served user coded as "unknown"

NPI = unknown: numbering plan identification forwarded to the served user coded as "unknown"

CUG default request: calling user do not include in the outgoing SETUP message a explicit request for the CUG supplementary service

UI length = 32: length of the User information field of the User-user information element is 32 octets

CF active: call forwarding (U, B or NR) supplementary service is already activated with the address of user C

Unavailability period: period of time beginning at the first of 10 consecutive severely eroded seconds and ending immediately before the first following period of 10 consecutive seconds none of which are severely eroded

Eroded second: second with one or more bit errors

Severely eroded second: second where at least 0,1% of the bits are eroded (corresponds to a one-second interval with a bit-error ratio worse than $1x10^{-3}$)

Slip: one or more extra or missing consecutive unit intervals in the bit stream

Octet slip: slip of one complete octet

Eroded Seconds Ratio: ratio of eroded seconds over all seconds within a specified measuring period, where neither are counted during unavailability periods

Severely Eroded Seconds: ratio of severely eroded seconds over all seconds within a specified measuring period, where neither are counted during unavailability periods

PRBS = 2^{11}-1: pseudo random binary sequence according to O.152 [26] 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

4 Abbreviations

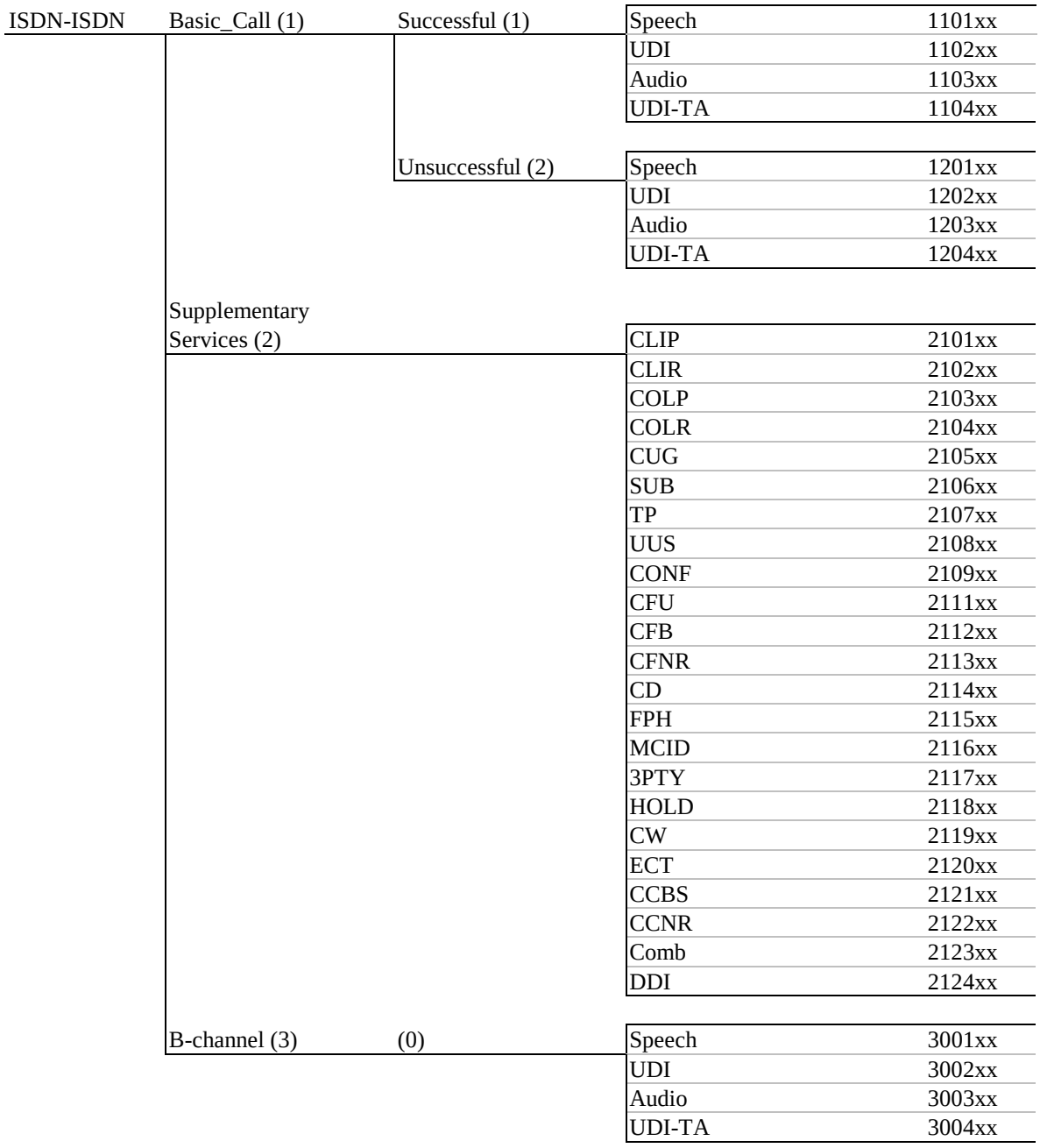
For the purposes of the present document, the following abbreviations apply:

ATS	Abstract Test Suite
BC	Bearer capability information element
CD	Call deflection
CFB	Call forwarding busy
CFNR	Call forwarding no response
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 (add-on)
CUG	Closed user group
CW	Call waiting
ECT	Explicit call transfer
ESR	Eroded Seconds Ratio
FPH	Freephone service
FTAM	File Transfer Access & Management
HLC	High layer compatibility information element
LLC	Low layer compatibility information element
MCID	Malicious call identification
NIT	Network Integration Testing
ONP	Open Network Provision
OSI	Open Systems Interconnection
PI	Presentation indicator
PICS	Protocol Implementation Conformance Statement
PIXIT	Protocol Implementation eXtra Information for Testing
P104	EURESCOM P104 ATS v1.2
SESR	Severely Eroded Seconds

SI	Screening indicator
TON	Type of number
TC	Test Case
TP	Terminal portability
TSS	Test Suite Structure
TSS&TP	Test Suite Structure and Test Purposes
UDI	Unrestricted digital information
UDI-TA	Unrestricted digital information with tones/announcements
SUB	Subaddressing
UUS	User-to-user signalling
UUS1	UUS service 1
UUS2	UUS service 2
UUS3	UUS service 3
3PTY	Three-party conference

5 Test Suite Structure (TSS)

5.1 ISDN-ISDN



5.2 ISDN-PSTN

ISDN-PSTN	Basic_Call (4)	Successful (1)	Speech	4101xx
			Audio	4102xx
			UDI -TA	4103xx
		Unsuccessful (2)	Speech	4201xx
			UDI	4202xx
			Audio	4203xx
			UDI -TA	4204xx
	Supplementary Services (5)		CLIP	5101xx
			CLIR	5102xx
			COLP	5103xx
			COLR	5104xx
			CUG	5105xx
			CFU	5106xx
			CFB	5107xx
			CFNR	5108xx
			UUS1	5109xx
			CCBS	5110xx
			CCNR	5111xx
			ECT	5112xx

5.3 PSTN-ISDN

PSTN-ISDN	Basic_Call (6)	Successful (1)		6101xx
		Unsuccessful (2)		6201xx
	Supplementary Services (7)		CLIP	7101xx
			CLIR	7102xx
			CFU	7103xx
			CFB	7104xx
			CFNR	7105xx
			MCID	7106xx
			CUG	7107xx
			CCBS	7108xx
			CCNR	7109xx
			DDI	7110xx
			ECT	7111xx

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 were the first figure identifies the Test Group, followed by a three figure number for subgroup and a two figures serial number, starting at 01, within each group/subgroup. Groups are organized according to the TSS. See Table 1 below.

Table 1: Test Purpose Identifier naming convention scheme

Identifier: TC <Test group > <Sub group> <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 EN 300 403-1 [1] and the applicable standards for supplementary services.

6.1.3 Test purpose structure

The Test Purposes are formatted as tables using the format shown in the following figure. The text in bold shows the text which is always present. The normal text provides explanation for each field.

Table 2: Format of a single Test Purpose

Identifier	**ISDN ref. to: EN 300 403-1 [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 explanation of abbreviations see clause 3.3	
Comments:		

6.1.4 Test strategy

As the base standards contained no explicit requirements for testing, the Test Purposes were generated as a result of an analysis of the base standards and PICS. The criteria applied included 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 [24] define performance objectives to be meet for each direction of a N x 64 kbit/s ($1 \leq N < 32$) circuit-switched connection used for voice or data-type traffic. The ITU-T Recommendation G.821 [24] error performance objectives for international ISDN connections are presented in the following Table 3. A measuring period of one month is suggested as a reference.

Table 3: ITU-T Recommendation G.821 [24] error performance objectives

Performance parameter	Objective
SESR	Fewer than 0,2% of one-second intervals to have a bit-error ratio worse than 1 x 10-3
ESR	Fewer than 8% of one-second intervals to have any errors

ETS 300 289 [23] specifies the technical requirements (and test principles) for the connection characteristics of 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 [24]: 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 [23] 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 (D64U), 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, for the performance of the end-to-end B-channel connection, it is proposed to adopt the performance objectives defined in ETS 300 289 [23] and presented in Table 4, using a 24 hours measurement period.

Table 4: B-channel performance objectives

Error parameters	Value
Octet slip	5 per 24 hours period
Eroded seconds	5324 per 24 hours period
Severely eroded seconds	105 per 24 hours period

Octet slip

Requirement: For at least one of two consecutive periods of 24 hours 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 [25], §2 and Table 1/G.822 [25].

Eroded seconds

Requirement: For at least one of two consecutive 24 hours measuring periods the number of eroded seconds shall be less than 5324.

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

Severely eroded seconds

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

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

6.2 Test Purposes

6.2.1 Test purposes for ISDN-ISDN, Basic call

6.2.1.1 Successful - Speech

Successful
Speech

110101	ISDN ref. to: EN 300 403-1 [1] subclause 5.1.5.1	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/Speech/110101	
Selection criteria:		
Test purpose:	Ensure that call establishment using en-bloc sending is performed correctly	
Parameter values:	BC = speech, no HLC	
Comments:		

110102	ISDN ref. to: EN 300 403-1 [1] subclause 5.1.5.2	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/Speech/110102	
Selection criteria:		
Test purpose:	Ensure that call establishment using overlap sending is performed correctly	
Parameter values:	BC = speech, no HLC	
Comments:		

110103	ISDN ref. to: EN 300 403-1 [1] subclause 5.3.3	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/Speech/110103	
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:		

110104	ISDN ref. to: EN 300 403-1 [1] subclause 5.3.3	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/Speech/110104	
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:		

110105	ISDN ref. to: EN 300 403-1 [1] subclause 4.5.16	Other relevant ref.: EG 201 018 [37], 6.3.1
TSS reference:	ISDN-ISDN/Basic_call/Successful/Speech/110105	
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:		

110106	ISDN ref. to: EN 300 403-1 [1] subclause 3.1.10, 5.2	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/Speech/110106	
Selection criteria:	Telephony 3,1 kHz teleservice	
Test purpose:	To verify that progress indicator information included in the ISDN - ALERT message can be transported correctly to the calling user.	
Parameter values:	A:! SETUP: BC = speech HLC = telephony A:? ALERT: progress indicator #2 "destination address is non-ISDN". B:? SETUP: BC = speech, HLC = telephony, B:! ALERT: progress indicator #2 "destination address is non-ISDN".	
Comments:		

110107	ISDN ref. to: EN 300 403-1 [1] subclause 3.1.10, 5.2	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/Speech/110107	
Selection criteria:	Telephony 3,1 kHz teleservice	
Test purpose:	To verify that progress indicator information included in the ISDN-CONNECT message can be transported correctly to the calling user.	
Parameter values:	A:! SETUP: BC = speech, HLC = telephony A:? CONNECT: progress indicator #2 "destination address is non-ISDN" B:? SETUP: BC = speech, HLC = telephony, B:! CONNECT: progress indicator #2 "destination address is non-ISDN".	
Comments:		

6.2.1.2 Successful - UDI

Successful
UDI

110201	ISDN ref. to: EN 300 403-1 [1] subclause 5.1.5.1	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/110201	
Selection criteria:		
Test purpose:	Ensure that call establishment using en-bloc sending is performed correctly	
Parameter values:	BC = UDI, no HLC	
Comments:		

110202	ISDN ref. to: EN 300 403-1 [1] subclause 5.1.5.2	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/110202	
Selection criteria:		
Test purpose:	Ensure that call establishment using overlap sending is performed correctly	
Parameter values:	BC = UDI, no HLC	
Comments:		

110203	ISDN ref. to: EN 300 403-1 [1] subclause 5.3.3	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/110203	
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:		

110204	ISDN ref. to: EN 300 403-1 [1] subclause 5.3.3	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/110204	
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:		

110205	ISDN ref. to: EN 300 403-1 [1] subclause 4.5.16	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/110205	
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:		

110206	ISDN ref. to: EN 300 403-1 [1] subclause 4.5.16, subclause 4.5.18	Other relevant ref.: ETS 300 080 [3] subclause 4.5.2.1, EG 201 018 [37], subclause 6.3.2
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/110206	
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:		

110207	ISDN ref. to: EN 300 403-1 [1] subclause 4.5.16	Other relevant ref.: EG 201 018 [37], subclause 7.1.3
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/110207	
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:		

110208	ISDN ref. to: EN 300 403-1 [1] subclause 4.5.16	Other relevant ref.: EG 201 018 [37] subclause 7.1.3
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/110208	
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:		

110209	ISDN ref. to: EN 300 403-1 [1] subclause 4.5.16	Other relevant ref.: EG 201 018 [37] subclause 7.1.3
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/110209	
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:		

110210	ISDN ref. to: EN 300 403-1 [1] subclause 4.5.16	Other relevant ref.: ETS 300 080 [3], subclause 4.5.2.1
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/110210	
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:		

110211	ISDN ref. to: EN 300 403-1 [1] subclause 4.5.16	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/110211	
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:		

110212	ISDN ref. to: EN 300 403-1 [1] subclause 4.5.16	Other relevant ref.: ETS 300 080 [3], subclause 4.5.2.1
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/110212	
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:		

110213	ISDN ref. to: EN 300 403-1 [1] subclause 4.5.16	Other relevant ref.: ETS 300 080 [3], subclause 4.5.2.1
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/110213	
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:		

110214	ISDN ref. to: EN 300 403-1 [1] subclause 4.5.16	Other relevant ref.: ETS 300 267-1 [2] subclause 7
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/110214	
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:		

110215	ISDN ref. to: EN 300 403-1 [1] subclause 4.5.5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/110215	
Selection criteria:	ITU-T Recommendation V.110 [49] / ITU-T Recommendation X.30 [50] rate adaption	
Test purpose:	Support of terminal adaptors ITU-T Recommendation V.110 [49] / ITU-T Recommendation X.30 [50]: Ensure that the BC information is transported transparently through the network and correctly delivered to the called user.	
Parameter values:	BC = ITU-T Recommendation V.110 [49] / ITU-T Recommendation X.30 [50] synchronous user rate 2,4 kbit/s, no LLC	
Comments:		

110216	ISDN ref. to: EN 300 403-1 [1] subclause 4.5.5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/110216	
Selection criteria:	ITU-T Recommendation V.110 [49] / ITU-T Recommendation X.30 [50] rate adaption	
Test purpose:	Support of terminal adaptors ITU-T Recommendation V.110 [49] / ITU-T Recommendation X.30 [50]: Ensure that the BC information is transported transparently through the network and correctly delivered to the called user.	
Parameter values:	BC = ITU-T Recommendation V.110 [49] / ITU-T Recommendation X.30 [50] synchronous user rate 9,6 kbit/s, no LLC	
Comments:		

110217	ISDN ref. to: EN 300 403-1 [1] subclause 4.5.5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/110217	
Selection criteria:	ITU-T Recommendation V.110 [49] / ITU-T Recommendation X.30 [50] rate adaption	
Test purpose:	Support of terminal adaptors ITU-T Recommendation V.110 [49] / ITU-T Recommendation X.30 [50]: Ensure that the BC information is transported transparently through the network and correctly delivered to the called user.	
Parameter values:	BC = ITU-T Recommendation V.110 [49] / ITU-T Recommendation X.30 [50] synchronous user rate 19,2 kbit/s, no LLC	
Comments:		

110218	ISDN ref. to: EN 300 403-1 [1] subclause 4.5.5, subclause 4.5.18	Other relevant ref.: ETS 300 103 [4], Annex I, EG 201 018 [37], subclause 7.1.1
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/110218	
Selection criteria:	ITU-T Recommendation V.110 [49] / ITU-T Recommendation X.30 [50] rate adaption	
Test purpose:	Support of terminal adaptors ITU-T Recommendation V.110 [49] / ITU-T Recommendation X.30 [50]: Ensure that the LLC information is transported transparently through the network and correctly delivered to the called user.	
Parameter values:	BC = UDI, LLC = ITU-T Recommendation V.110 [49] / ITU-T Recommendation X.30 [50] synchronous user rate 2,4 kbit/s	
Comments:		

110219	ISDN ref. to: EN 300 403-1 [1] subclause 4.5.18	Other relevant ref.: ETS 300 103 [4], Annex I, EG 201 018 [37], subclause 7.1.1
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/110219	
Selection criteria:	ITU-T Recommendation V.110 [49] / ITU-T Recommendation X.30 [50] rate adaption	
Test purpose:	Support of terminal adaptors ITU-T Recommendation V.110 [49] / ITU-T Recommendation X.30 [50]: Ensure that the LLC information is transported transparently through the network and correctly delivered to the called user.	
Parameter values:	BC = UDI, LLC = ITU-T Recommendation V.110 [49] / ITU-T Recommendation X.30 [50] synchronous user rate 9,6 kbit/s	
Comments:		

110220	ISDN ref. to: EN 300 403-1 [1] subclause 4.5.18	Other relevant ref.: ETS 300 103 [4], Annex I, EG 201 018 [37], subclause 7.1.1
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/110220	
Selection criteria:	ITU-T Recommendation V.110 [49] / ITU-T Recommendation X.30 [50] rate adaption	
Test purpose:	Support of terminal adaptors ITU-T Recommendation V.110 [49] / ITU-T Recommendation X.30 [50]: Ensure that the LLC information is transported transparently through the network and correctly delivered to the called user.	
Parameter values:	BC = UDI, LLC = ITU-T Recommendation V.110 [49] / ITU-T Recommendation X.30 [50] synchronous user rate 19,2 kbit/s	
Comments:		

110221	ISDN ref. to: EN 300 403-1 [1] subclause 4.5.5, subclause 4.5.18	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/110221	
Selection criteria:	ITU-T Recommendation V.110 [49] / ITU-T Recommendation X.30 [50] rate adaption	
Test purpose:	Support of terminal adaptors ITU-T Recommendation V.110 [49] / ITU-T Recommendation X.30 [50]: Ensure that BC and LLC information is transported transparently through the network and correctly delivered to the called user.	

Parameter values:	BC = LLC = ITU-T Recommendation V.110 [49] / ITU-T Recommendation X.30 [50] synchronous user rate 2,4 kbit/s
Comments:	

110222	ISDN ref. to: EN 300 403-1 [1] subclause 4.5.5, subclause 4.5.18	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/110222	
Selection criteria:	ITU-T Recommendation V.110 [49] / ITU-T Recommendation X.30 [50] rate adaption	
Test purpose:	Support of terminal adaptors ITU-T Recommendation V.110 [49] / ITU-T Recommendation X.30 [50]: Ensure that BC and LLC information is transported transparently through the network and correctly delivered to the called user.	
Parameter values:	BC = LLC = ITU-T Recommendation V.110 [49] / ITU-T Recommendation X.30 [50] synchronous user rate 9,6 kbit/s	
Comments:		

110223	ISDN ref. to: EN 300 403-1 [1] subclause 4.5.5, subclause 4.5.18	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/110223	
Selection criteria:	ITU-T Recommendation V.110 [49] / ITU-T Recommendation X.30 [50] rate adaption	
Test purpose:	Support of terminal adaptors ITU-T Recommendation V.110 [49] / ITU-T Recommendation X.30 [50]: Ensure that BC and LLC information is transported transparently through the network and correctly delivered to the called user.	
Parameter values:	BC = LLC = ITU-T Recommendation V.110 [49] / ITU-T Recommendation X.30 [50] synchronous user rate 19,2 kbit/s	
Comments:		

110224	ISDN ref. to: EN 300 403-1 [1] subclause 4.5.5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/110224	
Selection criteria:	ITU-T Recommendation V.110 [49] / ITU-T Recommendation X.30 [50] rate adaption	
Test purpose:	Support of terminal adaptors ITU-T Recommendation V.110 [49] / ITU-T Recommendation X.30 [50]: Ensure that the BC information is transported transparently through the network and correctly delivered to the called user.	
Parameter values:	BC = ITU-T Recommendation V.110 [49] / ITU-T Recommendation X.30 [50] asynchronous user rate 2,4 kbit/s, no LLC	
Comments:		

110225	ISDN ref. to: EN 300 403-1 [1] subclause 4.5.5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/110225	
Selection criteria:	ITU-T Recommendation V.110 [49] / ITU-T Recommendation X.30 [50] rate adaption	
Test purpose:	Support of terminal adaptors ITU-T Recommendation V.110 [49] / ITU-T Recommendation X.30 [50]: Ensure that the BC information is transported transparently through the network and correctly delivered to the called user.	
Parameter values:	BC = ITU-T Recommendation V.110 [49] / ITU-T Recommendation X.30 [50] asynchronous user rate 9,6 kbit/s, no LLC	
Comments:		

110226	ISDN ref. to: EN 300 403-1 [1] subclause 4.5.5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/110226	
Selection criteria:	ITU-T Recommendation V.110 [49] / ITU-T Recommendation X.30 [50] rate adaption	
Test purpose:	Support of terminal adaptors ITU-T Recommendation V.110 [49] / ITU-T Recommendation X.30 [50]: Ensure that the BC information is transported transparently through the network and correctly delivered to the called user.	
Parameter values:	BC = ITU-T Recommendation V.110 [49] / ITU-T Recommendation X.30 [50] asynchronous user rate 19,2 kbit/s, no LLC	
Comments:		

110227	ISDN ref. to: EN 300 403-1 [1] subclause 4.5.18	Other relevant ref.: ETS 300 103 [4], Annex I, EG 201 018 [37], subclause 7.1.1
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/110227	
Selection criteria:	ITU-T Recommendation V.110 [49] / ITU-T Recommendation X.30 [50] rate adaption	
Test purpose:	Support of terminal adaptors ITU-T Recommendation V.110 [49] / ITU-T Recommendation X.30 [50]: Ensure that the LLC information is transported transparently through the network and correctly delivered to the called user.	
Parameter values:	BC = UDI, LLC = ITU-T Recommendation V.110 [49] / ITU-T Recommendation X.30 [50] asynchronous user rate 2,4 kbit/s	
Comments:		

110228	ISDN ref. to: EN 300 403-1 [1] subclause 4.5.18	Other relevant ref.: ETS 300 103 [4], Annex I, EG 201 018 [37], subclause 7.1.1
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/110228	
Selection criteria:	ITU-T Recommendation V.110 [49] / ITU-T Recommendation X.30 [50] rate adaption	
Test purpose:	Support of terminal adaptors ITU-T Recommendation V.110 [49] / ITU-T Recommendation X.30 [50]: Ensure that the LLC information is transported transparently through the network and correctly delivered to the called user.	
Parameter values:	BC = UDI, LLC = ITU-T Recommendation V.110 [49] / ITU-T Recommendation X.30 [50] asynchronous user rate 9,6 kbit/s	
Comments:		

110229	ISDN ref. to: EN 300 403-1 [1] subclause 4.5.18	Other relevant ref.: ETS 300 103 [4], Annex I, EG 201 018 [37], subclause 7.1.1
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/110229	
Selection criteria:	ITU-T Recommendation V.110 [49] / ITU-T Recommendation X.30 [50] rate adaption	
Test purpose:	Support of terminal adaptors ITU-T Recommendation V.110 [49] / ITU-T Recommendation X.30 [50]: Ensure that the LLC information is transported transparently through the network and correctly delivered to the called user.	
Parameter values:	BC = UDI, LLC = ITU-T Recommendation V.110 [49] / ITU-T Recommendation X.30 [50] asynchronous user rate 19,2 kbit/s	
Comments:		

110230	ISDN ref. to: EN 300 403-1 [1] subclause 4.5.5, subclause 4.5.18	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/110230	
Selection criteria:	ITU-T Recommendation V.110 [49] / ITU-T Recommendation X.30 [50] rate adaption	
Test purpose:	Support of terminal adaptors ITU-T Recommendation V.110 [49] / ITU-T Recommendation X.30 [50]: Ensure that BC and LLC information is transported transparently through the network and correctly delivered to the called user.	
Parameter values:	BC = LLC = ITU-T Recommendation V.110 [49] / ITU-T Recommendation X.30 [50] asynchronous user rate 2,4 kbit/s	
Comments:		

110231	ISDN ref. to: EN 300 403-1 [1] subclause 4.5.5, subclause 4.5.18	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/110231	
Selection criteria:	ITU-T Recommendation V.110 [49] / ITU-T Recommendation X.30 [50] rate adaption	
Test purpose:	Support of terminal adaptors ITU-T Recommendation V.110 [49] / ITU-T Recommendation X.30 [50]: Ensure that BC and LLC information is transported transparently through the network and correctly delivered to the called user.	
Parameter values:	BC = LLC = ITU-T Recommendation V.110 [49] / ITU-T Recommendation X.30 [50] asynchronous user rate 9,6 kbit/s	
Comments:		

110232	ISDN ref. to: EN 300 403-1 [1] subclause 4.5.5, subclause 4.5.18	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/110232	
Selection criteria:	ITU-T Recommendation V.110 [49] / ITU-T Recommendation X.30 [50] rate adaption	
Test purpose:	Support of terminal adaptors ITU-T Recommendation V.110 [49] / ITU-T Recommendation X.30 [50]: Ensure that BC and LLC information is transported transparently through the network and correctly delivered to the called user.	
Parameter values:	BC = LLC = ITU-T Recommendation V.110 [49] / ITU-T Recommendation X.30 [50] asynchronous user rate 19,2 kbit/s	
Comments:		

110233	ISDN ref. to: EN 300 403-1 [1] subclause 4.5.5, subclause 4.5.18	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/110232	
Selection criteria:	ITU-T Recommendation V.110 [49] / ITU-T Recommendation X.30 [50] rate adaption	
Test purpose:	Support of terminal adaptors ITU-T Recommendation V.110 [49] / ITU-T Recommendation X.30 [50]: Ensure that the BC information is transported transparently through the network and correctly delivered to the called user.	
Parameter values:	BC = ITU-T Recommendation V.110 [49] / ITU-T Recommendation X.30 [50] synchronous user rate 56 kbit/s, no LLC	
Comments:		

110234	ISDN ref. to: EN 300 403-1 [1] subclause 4.5.5, subclause 4.5.18	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/110234	
Selection criteria:	ITU-T Recommendation V.110 [49] / ITU-T Recommendation X.30 [50] rate adaption	
Test purpose:	Support of terminal adaptors ITU-T Recommendation V.110 [49] / ITU-T Recommendation X.30 [50]: Ensure that the LLC information is transported transparently through the network and correctly delivered to the called user.	
Parameter values:	BC = UDI, LLC = ITU-T Recommendation V.110 [49] / ITU-T Recommendation X.30 [50] synchronous user rate 56 kbit/s	
Comments:		

110235	ISDN ref. to: EN 300 403-1 [1] subclause 4.5.5, subclause 4.5.18	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/110235	
Selection criteria:	ITU-T Recommendation V.110 [49] / ITU-T Recommendation X.30 [50] rate adaption	
Test purpose:	Support of terminal adaptors ITU-T Recommendation V.110 [49] / ITU-T Recommendation X.30 [50]: Ensure that BC and LLC information is transported transparently through the network and correctly delivered to the called user.	
Parameter values:	BC = LLC = ITU-T Recommendation V.110 [49] / ITU-T Recommendation X.30 [50] synchronous user rate 56 kbit/s	
Comments:		

110240	ISDN ref. to: EN 300 403-1 [1] subclause 4.5.16	Other relevant ref.: EG 201 018 7.1.3
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/110240	
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:		

110250	ISDN ref. to: EN 300 403-1 [1] subclause 4.5.16	Other relevant ref.: EG 201 018 [37] subclause 6.3.7
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/110250	
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:		

110251	ISDN ref. to: EN 300 403-1 [1] subclause 4.5.16	Other relevant ref.: EG 201 018 [37] subclause 6.3.8
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI/110251	
Selection criteria:	Eurofile transfer teleservice	
Test purpose:	Support of Euro file 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:		

6.2.1.3 Successful - Audio

Successful

3,1 kHz audio

110301	ISDN ref. to: EN 300 403-1 [1] subclause 5.1.5.1	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/Audio/110301	
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:		

110302	ISDN ref. to: EN 300 403-1 [1] subclause 5.1.5.2	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/Audio/110302	
Selection criteria:		
Test purpose:	Ensure that call establishment using overlap sending is performed correctly	
Parameter values:	BC = 3,1 kHz audio, no HLC	
Comments:		

110303	ISDN ref. to: EN 300 403-1 [1] subclause 5.3.3	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/Audio/110303	
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:		

110304	ISDN ref. to: EN 300 403-1 [1] subclause 5.3.3	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/Audio/110304	
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:		

110305	ISDN ref. to: EN 300 403-1 [1] subclause 4.5.16	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/Audio/110305	
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:		

110306	ISDN ref. to: EN 300 403-1 [1] subclause 5.1.6	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/Audio/110306	
Selection criteria:		
Test purpose:	To verify that progress information in the SETUP can be transported correctly to the called user	
Parameter values:	BC = 3,1 kHz audio, progress value #3 "origination address is non ISDN"	
Comments:		

110307	ISDN ref. to: EN 300 403-1 [1] subclause 5.1.6	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/Audio/110307	
Selection criteria:		
Test purpose:	To verify that progress information in the ALERT IE can be transported correctly to the calling user	
Parameter values:	A:! SETUP: BC = 3,1 kHz audio A:? ALERT: progress indicator #2 "destination address is non-ISDN". B:? BC = 3,1 kHz audio, B:! ALERT: progress indicator #2 "destination address is non-ISDN".	
Comments:		

110308	ISDN ref. to: EN 300 403-1 [1] subclause 5.1.6	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/Audio/110308	
Selection criteria:		
Test purpose:	To verify that progress information in the CONNECT IE can be transported correctly to the calling user	
Parameter values:	A:! SETUP: BC = 3,1 kHz audio A:? CONNECT: progress indicator #2 "destination address is non-ISDN". B:? BC = 3,1 kHz audio, B:! CONNECT: progress indicator #2 "destination address is non-ISDN".	
Comments:		

110309	ISDN ref. to: EN 300 403-1 [1] subclause 4.5.18	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/Audio/110309	
Selection criteria:	Bearer service 3,1 kHz audio	
Test purpose:	Support of voice band data via modem. Ensure that the BC = 3,1 kHz audio information and the LLC = 3,1 kHz audio, voice band data via modem, synchronous mode, user rate 2,4 kbit/s is correctly delivered to the called user.	
Parameter values:	BC = 3,1 kHz audio, LLC = 3,1 kHz audio, voice band data via modem, synchronous mode, user rate 2,4 kbit/s	
Comments:		

110310	ISDN ref. to: EN 300 403-1 [1] subclause 4.5.18	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/Audio/110310	
Selection criteria:	Bearer service 3,1 kHz audio	
Test purpose:	Support of voice band data via modem. Ensure that the BC = 3,1 kHz audio is correctly mapped to the called user and the LLC = 3,1 kHz audio, voice band data via modem, synchronous mode, user rate 9,6 kbit/s is correctly delivered to the called user.	
Parameter values:	BC = 3,1 kHz audio, LLC = 3,1 kHz audio, voice band data via modem, synchronous mode, user rate 9,6 kbit/s	
Comments:		

110311	ISDN ref. to: EN 300 403-1 [1] subclause 4.5.18	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/Audio/110311	
Selection criteria:	Bearer service 3,1 kHz audio	
Test purpose:	Support of voice band data via modem. Ensure that the BC = 3,1 kHz audio is correctly mapped to the called user and the LLC = 3,1 kHz audio, voice band data via modem, synchronous mode, user rate 56 kbit/s is correctly delivered to the called user.	
Parameter values:	BC = 3,1 kHz audio, LLC = 3,1 kHz audio, voice band data via modem, synchronous mode, user rate 56 kbit/s	
Comments:		

110312	ISDN ref. to: EN 300 403-1 [1] subclause 4.5.18	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/Audio/110312	
Selection criteria:	Bearer service 3,1 kHz audio	
Test purpose:	Support of voice band data via modem. Ensure that the BC = 3,1 kHz audio, voice band data via modem, synchronous mode, user rate 2,4 kbit/s and the LLC = 3,1 kHz audio, voice band data via modem, synchronous mode, user rate 2,4 kbit/s are correctly delivered to the called user.	
Parameter values:	BC = LLC = 3,1 kHz audio, voice band data via modem, synchronous mode, user rate 2,4 kbit/s	
Comments:		

110313	ISDN ref. to: EN 300 403-1 [1] subclause 4.5.18	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/Audio/110313	
Selection criteria:	Bearer service 3,1 kHz audio	
Test purpose:	Support of voice band data via modem. Ensure that the BC = 3,1 kHz audio voice band data via modem, synchronous mode, user rate 9,6 kbit/s is correctly mapped and the LLC = 3,1 kHz audio, voice band data via modem, synchronous mode, user rate 9,6 kbit/s is correctly delivered to the called user.	
Parameter values:	BC = LLC = 3,1 kHz audio, voice band data via modem, synchronous mode, user rate 9,6 kbit/s	
Comments:		

110314	ISDN ref. to: EN 300 403-1 [1] subclause 4.5.18	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/Audio/110314	
Selection criteria:	Bearer service 3,1 kHz audio	
Test purpose:	Support of voice band data via modem. Ensure that the BC = 3,1 kHz audio voice band data via modem, synchronous mode, user rate 56 kbit/s is correctly mapped and the LLC = 3,1 kHz audio, voice band data via modem, synchronous mode, user rate 56 kbit/s is correctly delivered to the called user.	
Parameter values:	BC = LLC = 3,1 kHz audio, voice band data via modem, synchronous mode, user rate 56 kbit/s	
Comments:		

110315	ISDN ref. to: EN 300 403-1 [1] subclause 4.5.18	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/Audio/110315	
Selection criteria:	Bearer service 3,1 kHz audio	
Test purpose:	Support of voice band data via modem. Ensure that the BC = 3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s is correctly delivered to the called user.	
Parameter values:	BC = 3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s, no LLC	
Comments:		

110316	ISDN ref. to: EN 300 403-1 [1] subclause 4.5.18	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/Audio/110316	
Selection criteria:	Bearer service 3,1 kHz audio	
Test purpose:	Support of voice band data via modem. Ensure that the BC = 3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 4,8 kbit/s is correctly delivered to the called user.	
Parameter values:	BC = 3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 4,8 kbit/s, no LLC	
Comments:		

110317	ISDN ref. to: EN 300 403-1 [1] subclause 4.5.18	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/Audio/110317	
Selection criteria:	Bearer service 3,1 kHz audio	
Test purpose:	Support of voice band data via modem. Ensure that the BC = 3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 19,2 kbit/s is correctly delivered to the called user.	
Parameter values:	BC = 3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 19,2 kbit/s, no LLC	
Comments:		

110318	ISDN ref. to: EN 300 403-1 [1] subclause 4.5.18	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/Audio/110318	
Selection criteria:	Bearer service 3,1 kHz audio	
Test purpose:	Support of voice band data via modem. Ensure that the BC = 3,1 kHz audio information and the LLC = 3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s are correctly delivered to the called user.	
Parameter values:	BC = 3,1 kHz audio, LLC = 3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s	
Comments:		

110319	ISDN ref. to: EN 300 403-1 [1] subclause 4.5.18	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/Audio/110319	
Selection criteria:	Bearer service 3,1 kHz audio	
Test purpose:	Support of voice band data via modem. Ensure that the BC = 3,1 kHz audio information and the LLC = 3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 4,8 kbit/s information is correctly delivered to the called user.	
Parameter values:	BC = 3,1 kHz audio, LLC = 3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 4,8 kbit/s	
Comments:		

110320	ISDN ref. to: EN 300 403-1 [1] subclause 4.5.18	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/Audio/110320	
Selection criteria:	Bearer service 3,1 kHz audio	
Test purpose:	Support of voice band data via modem. Ensure that the BC = 3,1 kHz audio is correctly mapped to the called user and the LLC = 3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 19,2 kbit/s is correctly delivered to the called user.	
Parameter values:	BC = 3,1 kHz audio, LLC = 3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 19,2 kbit/s	
Comments:		

110321	ISDN ref. to: EN 300 403-1 [1] subclause 4.5.18	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/Audio/110321	
Selection criteria:	Bearer service 3,1 kHz audio	
Test purpose:	Support of voice band data via modem. Ensure that the BC = 3,1 kHz, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s audio and the LLC = 3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s are correctly delivered to the called user.	
Parameter values:	BC = LLC = 3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s	
Comments:		

110322	ISDN ref. to: EN 300 403-1 [1] subclause 4.5.18	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/Audio/110322	
Selection criteria:	Bearer service 3,1 kHz audio	
Test purpose:	Support of voice band data via modem. Ensure that the BC = 3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 4,8 kbit/s and the LLC = 3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 4,8 kbit/s are correctly delivered to the called user.	
Parameter values:	BC = LLC = 3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 4,8 kbit/s	
Comments:		

110323	ISDN ref. to: EN 300 403-1 [1] subclause 4.5.18	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/Audio/110323	
Selection criteria:	Bearer service 3,1 kHz audio	
Test purpose:	Support of voice band data via modem. Ensure that the BC = 3,1 kHz audio voice band data via modem, asynchronous mode, user rate 19,2 kbit/s and the LLC = 3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 19,2 kbit/s are correctly delivered to the called user.	
Parameter values:	BC = LLC = 3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 19,2 kbit/s	
Comments:		

6.2.1.4 Successful - UDI/TA

Successful
UDI/TA

110401	ISDN ref. to: EN 300 403-1 [1] subclause 5.1.5.1	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI-TA/110401	
Selection criteria:		
Test purpose:	Ensure that call establishment using en-bloc sending is performed correctly	
Parameter values:	BC = UDI/TA, no HLC	
Comments:		

110402	ISDN ref. to: EN 300 403-1 [1] subclause 5.1.5.2	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI-TA/110402	
Selection criteria:		
Test purpose:	Ensure that call establishment using overlap sending is performed correctly	
Parameter values:	BC = UDI/TA, no HLC	
Comments:		

110403	ISDN ref. to: EN 300 403-1 [1] subclause 5.3.3	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI-TA/110403	
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:		

110404	ISDN ref. to: EN 300 403-1 [1] subclause 5.3.3	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI-TA/110404	
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:		

110405	ISDN ref. to: ETS 300 267-1 [2] subclause 6.5.1	Other relevant ref.: EG 201 018 [37] subclause 6.3.4
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI-TA/110405	
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	
Comments:	**telephony 7 kHz fallback not allowed SETUP message**: A SETUP message containing a single BC = UDI/TA and a single HLC = telephony	

110406	ISDN ref. to: ETS 300 267-1 [2] subclause 7.5.1	Other relevant ref.: EG 201 018 [37] subclause 6.3.5
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI-TA/110406	
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	
Comments:	**videotelephony fallback not allowed SETUP message:** A SETUP message containing a single BC = UDI/TA and a single HLC = videotelephony_ic	

110407	ISDN ref. to: ETS 300 267-1 [2] subclause 6.5.2	Other relevant ref.: EG 201 018 [37] subclause 6.3.5
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI-TA/110407	
Selection criteria:	• Telephony UDI-TA teleservice; • Fallback allowed	
Test purpose:	Support of telephony UDI-TA teleservice: Ensure that a telephony 7 kHz fallback allowed SETUP message is transported transparently through the network and on receipt of a CONNECT message, not containing a BC assumes that the fallback to the telephony 3,1 kHz teleservice has acured.	
Parameter values:	! SETUP ? CONNECT BC1 = speech BC2 = UDI with TA HLC = telephony	
Comments:	**telephony 7 kHz fallback allowed SETUP message**: A SETUP message containing two BCs, with the first BC = speech and the second BC = UDI/TA, a HLC = telephony	

110408	ISDN ref. to: ETS 300 267-1 [2] subclause 6.5.2	Other relevant ref.: EG 201 018 [37] subclause 6.3.5
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI-TA/110408	
Selection criteria:	• Telephony UDI-TA teleservice; • Fallback allowed	
Test purpose:	Support of telephony UDI-TA teleservice: Ensure that a telephony 7 kHz fallback allowed SETUP message is transported transparently through the network and on receipt of a CONNECT message, containing a BC = speech assumes that the fallback to the telephony 3,1 kHz teleservice has acured.	
Parameter values:	! SETUP BC1 = speech BC2 = UDI with TA HLC = telephony	? CONNECT BC = speech
Comments:	**telephony 7 kHz fallback allowed SETUP message**: A SETUP message containing two BCs, with the first BC = speech and the second BC = UDI/TA, a HLC = telephony	

110409	ISDN ref. to: ETS 300 267-1 [2] subclause 6.5.2	Other relevant ref.: EG 201 018 [37] subclause 6.3.5
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI-TA/110409	
Selection criteria:	• Telephony UDI-TA teleservice; • Fallback allowed	
Test purpose:	Support of telephony UDI-TA teleservice: Ensure that a telephony 7 kHz fallback allowed SETUP message is transported transparently through the network and on receipt of a CONNECT message, containing a BC = UDI/TA assumes that the fallback has not occurred.	
Parameter values:	! SETUP BC1 = speech BC2 = UDI with TA HLC = telephony	? CONNECT UDI with TA
Comments:	**telephony 7 kHz fallback allowed SETUP message**: A SETUP message containing two BCs, with the first BC = speech and the second BC = UDI/TA, a HLC = telephony	

110410	ISDN ref. to: ETS 300 267-1 [2] subclause 6.5.2	Other relevant ref.: EG 201 018 [37] subclause 6.3.5
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI-TA/110410	
Selection criteria:	• Telephony UDI-TA teleservice; • Fallback allowed • T reference point at the destination interface	
Test purpose:	Support of telephony UDI-TA teleservice: Ensure that a telephony 7 kHz fallback allowed SETUP message is transported transparently through the network and on receipt of a CALL PROCEEDING message containing a PI = #5 and a BC = speech assumes that the fallback to the telephony 3,1 kHz teleservice has acured.	
Parameter values:	! SETUP BC1 = speech BC2 = UDI with TA HLC = telephony	? CALL PROCEEDING BC = speech PI = #5
Comments:	**telephony 7 kHz fallback allowed SETUP message**: A SETUP message containing two BCs, with the first BC = speech and the second BC = UDI/TA, a HLC = telephony	

110411	ISDN ref. to: ETS 300 267-1 [2] subclause 6.5.2	Other relevant ref.: EG 201 018 [37] subclause 6.3.5
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI-TA/110411	
Selection criteria:	• Telephony UDI-TA teleservice; • Fallback allowed • T reference point at the destination interface	
Test purpose:	Support of telephony UDI-TA teleservice: Ensure that a telephony 7 kHz fallback allowed SETUP message is transported transparently through the network and on receipt of a CALL PROCEEDING message followed by a PROGRESS message containing a PI = #5 and a BC = speech assumes that the fallback to the telephony 3,1 kHz teleservice has acured.	
Parameter values:	! SETUP BC1 = speech BC2 = UDI with TA HLC = telephony	? PROGRESS BC = speech PI = #5
Comments:	**telephony 7 kHz fallback allowed SETUP message**: A SETUP message containing two BCs, with the first BC = speech and the second BC = UDI/TA, a HLC = telephony	

110412	ISDN ref. to: ETS 300 267-1 [2] subclause 6.5.2	Other relevant ref.: EG 201 018 [37] subclause 6.3.5
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI-TA/110412	
Selection criteria:	• Telephony UDI-TA teleservice; • Fallback allowed • T reference point at the destination interface	
Test purpose:	Support of telephony UDI-TA teleservice: Ensure that a telephony 7 kHz fallback allowed SETUP message is transported transparently through the network and on receipt of an ALERTING message containing a PI = #5 and a BC = speech assumes that the fallback to the telephony 3,1 kHz teleservice has acured.	
Parameter values:	! SETUP BC1 = speech BC2 = UDI with TA HLC = telephony	? ALERT BC = speech PI = #5
Comments:	**telephony 7 kHz fallback allowed SETUP message**: A SETUP message containing two BCs, with the first BC = speech and the second BC = UDI/TA, a HLC = telephony	

110413	ISDN ref. to: ETS 300 267-1 [2] subclause 6.5.2	Other relevant ref.: EG 201 018 [37] subclause 6.3.5
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI-TA/110413	
Selection criteria:	• Videotelephony teleservice; • Fallback allowed	
Test purpose:	Support of videotelephony teleservice: Ensure that a videotelephony 7 kHz fallback allowed SETUP message is transported transparently through the network and on receipt of a CONNECT message, containing a BC = UDI/TA and a HLC = videotelephony_ic assumes that fallback has not occurred.	
Parameter values:	! SETUP BC1 = speech BC2 = UDI with TA HLC1 = telephony HLC2 = videotelephony_ic	? CONNECT BC = UDI with TA HLC = videotelephony_ic
Comments:	**videotelephony 7 kHz fallback allowed SETUP message**: A SETUP message containing two BCs, with the first BC = speech and the second BC = UDI/TA, and two HLCs, with first HLC = telephony and the second HLC = videotelephony_ic and not containing a LLC.	

110414	ISDN ref. to: ETS 300 267-1 [2] subclause 6.5.2	Other relevant ref.: EG 201 018 [37] subclause 6.3.5
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI-TA/110414	
Selection criteria:	• Videotelephony teleservice; • Fallback allowed	
Test purpose:	Support of videotelephony teleservice: Ensure that a videotelephony 7 kHz fallback allowed SETUP message is transported transparently through the network and on receipt of a CONNECT message, containing a BC = UDI/TA and a HLC = telephony assumes that fallback to telephony 7 kHz has occurred.	
Parameter values:	! SETUP BC1 = speech BC2 = UDI with TA HLC1 = telephony HLC2 = videotelephony_ic	? CONNECT BC = UDI with TA HLC = telephony
Comments:	**videotelephony 7 kHz fallback allowed SETUP message**: A SETUP message containing two BCs, with the first BC = speech and the second BC = UDI/TA, and two HLCs, with first HLC = telephony and the second HLC = videotelephony_ic and not containing a LLC.	

110415	ISDN ref. to: ETS 300 267-1 [2] subclause 6.5.2	Other relevant ref.: EG 201 018 [37] subclause 6.3.5
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI-TA/110415	
Selection criteria:	• Videotelephony teleservice; • Fallback allowed	
Test purpose:	Support of videotelephony teleservice: Ensure that a videotelephony 7 kHz fallback allowed SETUP message is transported transparently through the network and on receipt of a CONNECT message, containing a BC = speech and a HLC = telephony assumes that fallback to telephony 3,1 kHz has occurred.	
Parameter values:	! SETUP BC1 = speech BC2 = UDI with TA HLC1 = telephony HLC2 = videotelephony_ic	? CONNECT BC = speech HLC = telephony
Comments:	**videotelephony 7 kHz fallback allowed SETUP message**: A SETUP message containing two BCs, with the first BC = speech and the second BC = UDI/TA, and two HLCs, with first HLC = telephony and the second HLC = videotelephony_ic and not containing a LLC.	

110416	ISDN ref. to: ETS 300 267-1 [2] subclause 6.5.2	Other relevant ref.: EG 201 018 [37] subclause 6.3.5
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI-TA/110416	
Selection criteria:	• Videotelephony teleservice; • Fallback allowed • T reference point at the destination interface	
Test purpose:	Support of videotelephony teleservice: Ensure that a videotelephony 7 kHz fallback allowed SETUP message is transported transparently through the network and on receipt o CALL PROCEEDINGmessage containing a PI = #5 and a BC = speech, and a HLC = Telephony or no assumes that fallback to telephony 3,1 kHz has occurred.	
Parameter values:	! SETUP BC1 = speech BC2 = UDI with TA HLC1 = telephony HLC2 = videotelephony_ic	? CALL PROCEEDING BC = speech HLC = telephony PI = #5
	videotelephony 7 kHz fallback allowed SETUP message: A SETUP message containing two BCs, with the first BC = speech and the second BC = UDI/TA, and two HLCs, with first HLC = telephony and the second HLC = videotelephony_ic and not containing a LLC.	

110417	ISDN ref. to: ETS 300 267-1 [2] subclause 6.5.2	Other relevant ref.: EG 201 018 [37] subclause 6.3.5
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI-TA/110417	
Selection criteria:	• Videotelephony teleservice; • Fallback allowed • T reference point at the destination interface	
Test purpose:	Support of videotelephony teleservice: Ensure that a videotelephony 7 kHz fallback allowed SETUP message is transported transparently through the network and on receipt o CALL PROCEEDING followed by a PROGRESS message containing a PI = #5 and a BC = speech, and a HLC = Telephony or no assumes that fallback to telephony 3,1 kHz has occurred.	
Parameter values:	! SETUP BC1 = speech BC2 = UDI with TA HLC1 = telephony HLC2 = videotelephony_ic	? PROGRESS BC = speech HLC = telephony PI = #5
Comments:	**videotelephony 7 kHz fallback allowed SETUP message**: A SETUP message containing two BCs, with the first BC = speech and the second BC = UDI/TA, and two HLCs, with first HLC = telephony and the second HLC = videotelephony_ic and not containing a LLC.	

110418	ISDN ref. to: ETS 300 267-1 [2] subclause 6.5.2	Other relevant ref.: EG 201 018 [37] subclause 6.3.5
TSS reference:	ISDN-ISDN/Basic_call/Successful/UDI-TA/110418	
Selection criteria:	• Videotelephony teleservice; • Fallback allowed • T reference point at the destination interface	
Test purpose:	Support of videotelephony teleservice: Ensure that a videotelephony 7 kHz fallback allowed SETUP message is transported transparently through the network and on receipt on a ALERTING message containing a PI = #5 and a BC = speech, and a HLC = Telephony or no assumes that fallback to telephony 3,1 kHz has occurred.	
Parameter values:	! SETUP BC1 = speech BC2 = UDI with TA HLC1 = telephony HLC2 = videotelephony_ic	? ALERT BC = speech HLC = telephony PI = #5
Comments:	**videotelephony 7 kHz fallback allowed SETUP message**: A SETUP message containing two BCs, with the first BC = speech and the second BC = UDI/TA, and two HLCs, with first HLC = telephony and the second HLC = videotelephony_ic and not containing a LLC.	

6.2.1.5 Unsuccessful- Speech

Unsuccessful

Speech

120101	ISDN ref. to: EN 300 403-1 [1] subclause 5.1.4, G.1.1	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/Speech/120101	
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:		

120102	ISDN ref. to: EN 300 403-1 [1] subclause 5.2.5.1, G.1.7	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/Speech/120102	
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:		

120103	ISDN ref. to: EN 300 403-1 [1] subclause 5.2.5.4, G.1.8	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/Speech/120103	
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:		

120104	ISDN ref. to: EN 300 403-1 [1] subclause 5.2.5.4, G.1.9	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/Speech/120104	
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:		

120105	ISDN ref. to: EN 300 403-1 [1] subclause 5.1.9, 5.3.2, G.1.10	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/Speech/120105	
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:		

120106	ISDN ref. to: EN 300 403-1 [1] G.1.13	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/Speech/120106	
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:		

120107	ISDN ref. to: EN 300 403-1 [1] subclause 5.2.2, G.5.7	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/Speech/120107	
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:		

120108	ISDN ref. to: EN 300 403-1 [1] G.1.6	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/Speech/120108	
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	ISDN ref. to: EN 300 403-1 [1] G.1.6	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/Speech/120109	
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:		

6.2.1.6 Unsuccessful - UDI

Unsuccessful

UDI

120201	ISDN ref. to: EN 300 403-1 [1] subclause 5.1.4, G.1.1	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/UDI/120201	
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	ISDN ref. to: EN 300 403-1 [1] subclause 5.2.5.1, G.1.7	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/UDI/120202	
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	ISDN ref. to: EN 300 403-1 [1] subclause 5.2.5.4, G.1.8	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/UDI/120203	
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	ISDN ref. to: EN 300 403-1 [1] subclause 5.2.5.4, G.1.9	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/UDI/120204	
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	ISDN ref. to: EN 300 403-1 [1] subclause 5.1.9, 5.3.2, G.1.10	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/UDI/120205	
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	ISDN ref. to: EN 300 403-1 [1] G.1.13	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/UDI/120206	
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	ISDN ref. to: EN 300 403-1 [1] 5.2.2, G.5.7	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/UDI/120207	
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	ISDN ref. to: EN 300 403-1 [1] G.1.6	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/UDI/120208	
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	ISDN ref. to: EN 300 403-1 [1] G.1.6	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/UDI/120209	
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:		

6.2.1.7 Unsuccessful- Audio

Unsuccessful

3,1 kHz audio

120301	ISDN ref. to: EN 300 403-1 [1] subclause 5.1.4, G.1.1	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/Audio/120301	
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	ISDN ref. to: EN 300 403-1 [1] subclause 5.2.5.1, G.1.7	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/Audio/120302	
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	ISDN ref. to: EN 300 403-1 [1] subclause 5.2.5.4, G.1.8	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/Audio/120303	
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	ISDN ref. to: EN 300 403-1 [1] subclause 5.2.5.4, G.1.9	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/Audio/120304	
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	ISDN ref. to: EN 300 403-1 [1] subclause 5.1.9, 5.3.2, G.1.10	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/Audio/120305	
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	ISDN ref. to: EN 300 403-1 [1] G.1.13	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/Audio/120306	
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	ISDN ref. to: EN 300 403-1 [1] subclause 5.2.2, G.5.7	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/Audio/120307	
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	ISDN ref. to: EN 300 403-1 [1] G.1.6	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/Audio/120308	
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	ISDN ref. to: EN 300 403-1 [1] G.1.6	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/Audio/120309	
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:		

6.2.1.8 Unsuccessful - UDI-TA

Unsuccessful

UDI/TA

120401	ISDN ref. to: EN 300 403-1 [1] subclause 5.1.4, G.1.1	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/UDI-TA/120401	
Selection criteria:		
Test purpose:	Ensure that, when calling to unallocated number, the network initiate call clearing to the calling user sending a DISCONNECT message containing a PI#8 and the cause value #1 "unassigned number"	
Parameter values:	BC = UDI/TA	
Comments:		

120402	ISDN ref. to: EN 300 403-1 [1] subclause 5.2.5.1, G.1.7	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/UDI-TA/120402	
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 initiate call clearing to the calling user sending a DISCONNECT message containing a PI#8 and the cause #17 "user busy".	
Parameter values:	BC = UDI/TA	
Comments:		

120403	ISDN ref. to: EN 300 403-1 [1] subclause 5.2.5.4, G.1.8	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/UDI-TA/120403	
Selection criteria:		
Test purpose:	Ensure that, when the called user is not responding, the network initiate call clearing to the calling user sending a DISCONNECT message containing a PI#8 and cause value #18 "no user responding"	
Parameter values:	BC = UDI/TA	
Comments:		

120404	ISDN ref. to: EN 300 403-1 [1] subclause 5.2.5.4, G.1.9	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/UDI-TA/120404	
Selection criteria:		
Test purpose:	Ensure that when no answer from the called user (but user alerted), the network initiate call clearing sending a DISCONNECT message containing a PI#8 and to the calling user and called user with cause value #19 "no user responding (user alerted)"	
Parameter values:	BC = UDI/TA	
Comments:		

120405	ISDN ref. to: EN 300 403-1 [1] subclause 5.1.9, subclause 5.3.2, G.1.10	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/UDI-TA/120405	
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 initiate call clearing to the calling user sending a DISCONNECT message containing a PI#8 and the cause value #21 "call rejected" to the calling user	
Parameter values:	BC = UDI/TA	
Comments:		

120406	ISDN ref. to: EN 300 403-1 [1] G.1.13	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/UDI-TA/120406	
Selection criteria:		
Test purpose:	Ensure that when the called user terminal is not connected, the network initiate call clearing to the calling user sending a DISCONNECT message containing a PI#8 and the cause value #27 "destination out of order"	
Parameter values:	BC = UDI/TA	
Comments:		

120407	ISDN ref. to: EN 300 403-1 [1] subclause 5.2.2, G.5.7	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/UDI-TA/120407	
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	ISDN ref. to: EN 300 403-1 [1] G.1.6	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/UDI-TA/120408	
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 the network initiate call clearing to the calling user sending a DISCONNECT message containing a PI#8 and the cause value #16 "normal call clearing" to the called user.	
Parameter values:	BC = UDI/TA	
Comments:		

120409	ISDN ref. to: EN 300 403-1 [1] G.1.6	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/UDI-TA/120409	
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 initiate call clearing to the calling user sending a DISCONNECT message containing a PI#8 and the cause value #16 "normal call clearing" to the called user.	
Parameter values:	BC = UDI/TA	
Comments:		

6.2.2 Test purposes for ISDN-ISDN, Supplementary services

6.2.2.1 CLIP

210101	ISDN ref. to: ETS 300 092-1 [5] subclause 9.3	Other relevant ref.: EN 300 403-1 [1] subclause 4.5.10, subclause 4.5.11
TSS reference:	ISDN-ISDN/Supplementary_services/CLIP/210101	
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 = PIXIT, SI = UPVP, N = international (or N = unknown)	
Comments:		

210102	ISDN ref. to: ETS 300 092-1 [5] subclause 9.3	Other relevant ref.: EN 300 403-1 [1] subclause 4.5.10, subclause 4.5.11
TSS reference:	ISDN-ISDN/Supplementary_services/CLIP/210102	
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 = PIXIT, SI = UPVP, N = international (or N = unknown)	
Comments:		

210103	ISDN ref. to: ETS 300 092-1 [5] subclause 9.3	Other relevant ref.: EN 300 403-1 [1] subclause 4.5.10, subclause 4.5.11
TSS reference:	ISDN-ISDN/Supplementary_services/CLIP/210103	
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 = PIXIT, SI = UPVP, N = international (or N = unknown)	
Comments:		

210104	ISDN ref. to: ETS 300 092-1 [5] subclause 9.3	Other relevant ref.: EN 300 403-1 [1] subclause 4.5.10, subclause 4.5.11
TSS reference:	ISDN-ISDN/Supplementary_services/CLIP/210104	
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 = PIXIT, SI = UPVP, N = international (or N = unknown)	
Comments:		

210105	ISDN ref. to: ETS 300 092-1 [5] subclause 9.3	Other relevant ref.: EN 300 403-1 [1] subclause 4.5.10
TSS reference:	ISDN-ISDN/Supplementary_services/CLIP/210105	
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 = PIXIT, SI = NP, N = international (or N = unknown)	
Comments:		

210106	ISDN ref. to: ETS 300 092-1 [5]	Other relevant ref.: EN 300 403-1 [1] subclause 4.5.10, subclause 4.5.11
TSS reference:	ISDN-ISDN/Supplementary_services/CLIP/210106	
Selection criteria:	• The called user is provided with CLIP • Special arrangement applies	
Test purpose:	Ensure that when a **special arrangement applies** and a Calling party number information element and a valid calling number is provided by the calling user, the Calling party number information element with the calling number, presentation is allowed and the screening indicator is set to "user-provided, not screened" immediately followed by a second Calling party number information element with the default number of the access of the calling user, the screening indicator is set to "network-provided" are delivered to the called (served) user.	
Parameter values:	BC = PIXIT	
Comments:		

210107	ISDN ref. to: ETS 300 092-1 [5]	Other relevant ref.: EN 300 403-1 [1] subclause 4.5.10, subclause 4.5.11
TSS reference:	ISDN-ISDN/Supplementary_services/CLIP/210107	
Selection criteria:	• The called user is provided with CLIP • Special arrangement applies	
Test purpose:	Ensure that when a **special arrangement applies** and a Calling party subaddress information element is provided by the calling user, the Calling party number information element with the default number of the access of the calling user, the screening indicator is set to "network-provided, with the Calling party subaddress information element are delivered to the called (served) user.	
Parameter values:	BC = PIXIT	
Comments:		

210108	ISDN ref. to: ETS 300 092-1 [5] subclause 9.3	Other relevant ref.: EN 300 403-1 [1] subclause 4.5.10, subclause 4.5.11
TSS reference:	ISDN-ISDN/Supplementary_services/CLIP/210108	
Selection criteria:	• The called user is provided with CLIP • Special arrangement applies	
Test purpose:	Ensure that when a **special arrangement applies** and no Calling party number information element is provided by the calling user, the Calling party number information element the with the default number of the access of the calling user, the screening indicator is set to "network-provided is delivered to the called (served) user.	
Parameter values:	BC = PIXIT	
Comments:		

210109	ISDN ref. To: ETS 300 092-1 [5] subclause 9.3	Other relevant ref.: EN 300 403-1 [1] subclause 4.5.10, subclause 4.5.11
TSS reference:	ISDN-ISDN/Supplementary_services/CLIP/210109	
Selection criteria:	• The called user is provided with CLIP and the two delivery option does not apply • Special arrangement applies	
Test purpose:	Ensure that when a **special arrangement applies** and a Calling party number information element and a valid calling number is provided by the calling user, the Calling party number information element with the calling number, presentation is allowed and the screening indicator is set to "user-provided, not screened" is delivered to the called (served) user.	
Parameter values:	BC = PIXIT	
Comments:		

6.2.2.2 CLIR

210201	ISDN ref. To: ETS 300 093-1 [6] subclause 9.4.1	Other relevant ref.: ETS 300 092-1 [5] subclause /A2 Fig 2
TSS reference:	ISDN-ISDN/Supplementary_services/CLIR/210201	
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 = PIXIT, PI = PR, SI = NP, N = unknown, NPI = unknown	
Comments:		

210202	ISDN ref. To: ETS 300 093-1 [6] subclause 9.4.1	Other relevant ref.: ETS 300 092-1 [5] subclause /A2 Fig 2
TSS reference:	ISDN-ISDN/Supplementary_services/CLIR/210202	
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 = PIXIT, PI = PR, SI = NP, N = unknown, NPI = unknown	
Comments:		

210203	ISDN ref. To: ETS 300 093-1 [6] subclause 9.4.1	Other relevant ref.: ETS 300 092-1 [5] subclause /A2 Fig 2
TSS reference:	ISDN-ISDN/Supplementary_services/CLIR/210203	
Selection criteria:	• The calling user is provided with CLIR temporary mode subscription • The called user is provided with CLIP • Special arrangement applies	
Test purpose:	Ensure that when a **special arrangement applies** and a Calling party number information element and a valid calling number with presentation in not allowed is provided by the calling user, the Calling party number information element with the presentation indicator set to "presentation restricted", the screening indicator is set to "network-provided" is delivered to the called user.	
Parameter values:	BC = PIXIT	
Comments:		

6.2.2.3 COLP

210301	ISDN ref. To: ETS 300 097-1 [7], subclause 9.5.1	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/COLP/210301	
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 = PIXIT, SI = UPVP, N = international (or N = unknown)	
Comments:		

210302	ISDN ref. To: ETS 300 097-1 [7], subclause 9.5.1	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/COLP/210302	
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 = PIXIT, SI = UPVP, N = international (or N = unknown)	
Comments:		

210303	ISDN ref. To: ETS 300 097-1 [7], subclause 9.5.1	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/COLP/210303	
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 = PIXIT, SI = UPVP, N = international (or N = unknown)	
Comments:		

210304	ISDN ref. To: ETS 300 097-1 [7], subclause 9.5.1	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/COLP/210304	
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 information element with the with the Screening indicator value "user provided" and Connected subaddress information element correctly delivered to the calling (served) user.	
Parameter values:	BC = PIXIT, SI = UPVP, N = international (or N = unknown)	
Comments:		

210305	ISDN ref. To: ETS 300 097-1 [7], subclause 9.5.1	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/COLP/210305	
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 = PIXIT, SI = NP, N = international (or N = unknown)	
Comments:		

210306	ISDN ref. To: ETS 300 097-1 [7], subclause 9.5.1	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/COLP/210306	
Selection criteria:	Calling user is provided with COLP	
Test purpose:	Ensure that when an **incorrect** 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 = PIXIT, SI = NP, N = international (or N = unknown)	
Comments:		

210307	ISDN ref. To: ETS 300 097-1 [7]	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/COLP/210307	
Selection criteria:	• Calling user is provided with COLP • Special arrangement applies	
Test purpose:	Ensure that when a **special arrangement applies** and when a Connected number with a Screening indicator value is provided by the called user in the CONNECT message, (the Network shall discard the Screening indicator value) the Connected number information element with the Screening indicator value "user-provided, not screened" is delivered to the calling user.	
Parameter values:		
Comments:		

210308	ISDN ref. To: ETS 300 097-1 [7]	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/COLP/210308	
Selection criteria:	• Calling user is provided with COLP • Special arrangement applies	
Test purpose:	Ensure that when a **special arrangement applies** and when a Connected number with the Typ of number coded **other** than "national number" or "international number" is provided by the called user in the CONNECT message, (the Network shall discard the Connected number information element) the Connected number information element with the Screening indicator value "network provided" is delivered to the calling (served) user.	
Parameter values:		
Comments:		

210309	ISDN ref. To: ETS 300 097-1 [7], subclause 9.5.1	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/COLP/210309	
Selection criteria:	• Calling user is provided with COLP • Special arrangement applies	
Test purpose:	Ensure that when a **special arrangement applies** and when no Connected number is provided by the called user in the CONNECT message, the Connected number information element with the Screening indicator value "network provided" is delivered to the calling (served) user.	
Parameter values:	BC = PIXIT, SI = NP,	
Comments:		

210310	ISDN ref. To: ETS 300 097-1 [7], subclause 9.5.1	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/COLP/210310	
Selection criteria:	• Calling user is provided with COLP • special arrangement applies	
Test purpose:	Ensure that when a **special arrangement applies** and when a Connected number information element and a Connected subadress information element is provided by the called user in the CONNECT message, the Connected number information element with the Screening indicator value "user-provided, not screened" and a Connected subaddress information element is delivered to the calling (served) user.	
Parameter values:	BC = PIXIT	
Comments:		

6.2.2.4 COLR

210401	ISDN ref. To: ETS 300 098-1 [8], subclause 9.3.1, subclause 9.4.1	Other relevant ref.: ETS 300 097/A1 [38] - subclause 1, Fig 4
TSS reference:	ISDN-ISDN/Supplementary_services/COLR/210401	
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 = PIXIT, PI = PR, SI = NP, N = unknown, NPI = unknown	
Comments:		

210402	ISDN ref. To: ETS 300 098-1 [8], subclause 9.3.1, subclause 9.4.1	Other relevant ref.: ETS 300 097-1/A2 Fig 4
TSS reference:	ISDN-ISDN/Supplementary_services /COLR/210402	
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 = PIXIT, PI = PR, SI = NP, N = unknown, NPI = unknown	
Comments:		

210403	ISDN ref. To: ETS 300 098-1 [8], subclause 9.3.1, subclause 9.4.1	Other relevant ref.: ETS 300 097-1/A2 Fig 4
TSS reference:	ISDN-ISDN/Supplementary_services /COLR/210403	
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, with Connected subaddress, the Connected number and Connected subaddress information elements are correctly delivered to the calling user.	
Parameter values:	BC = PIXIT, PI = PR, SI = NP, N = unknown, NPI = unknown	
Comments:		

210404	ISDN ref. To: ETS 300 098-1 [8], subclause 9.3.1, 9.4.1	Other relevant ref.: ETS 300 097-1/A1 [38], Fig 4
TSS reference:	ISDN-ISDN/Supplementary_services/COLR/210404	
Selection criteria:	The called (served) user is provided with COLR permanent mode subscription, the calling user with COLP	
Test purpose:	Ensure that when a **special arrangement applies** and when no Connected number is provided by the called user in the CONNECT message, the Connected number information element with Presentation indicator value "presentation restricted" and without connected party number is delivered to the calling (served) user.	
Parameter values:	BC = PIXIT	
Comments:		

210405	ISDN ref. To: ETS 300 098-1 [8], subclause 9.3.1, subclause 9.4.1	Other relevant ref.: ETS 300 097-1/A1 [38] -subclause 1, Fig 4
TSS reference:	ISDN-ISDN/Supplementary_services/COLR/210404	
Selection criteria:	The called (served) user is provided with COLR permanent mode subscription, the calling user with COLP	
Test purpose:	Ensure that when a **special arrangement applies** and when the Connected number with the Presentation indicator "presentation restricted" is provided by the called user in the CONNECT message, the Connected number information element with Presentation indicator value "presentation restricted" and without connected party number is delivered to the calling (served) user.	
Parameter values:	BC = PIXIT	
Comments:		

6.2.2.5 CUG

210501	ISDN ref. To: ETS 300 138-1 [9] subclause 9.2.2, subclause 9.2.4	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CUG/210501	
Selection criteria:	Orign.:CUG supplementary options: not OA; not ocb; not Pref. CUG Term.: calling user and called user belong to the same CUG; CUG supplementary options: IA; not ICB	
Test purpose:	Ensure that when the calling user belongs to a CUG with outgoing access is not allowed, not outgoing calls barred within the CUG and not preferential CUG and the called user belongs to the same CUG with incoming access allowed and not incoming calls barred within the CUG, after the receipt of a SETUP message with a Facility IE containing a cUGCall invoke component with OARequested set to TRUE, CUG Index included, the called user receives a SETUP message with a Facility IE which contains an CUG index associated with the invoked CUG.	
Parameter values:	BC = PIXIT; Facility IE with cUGCall invoke component: OARequested set to TRUE CUG Index included	
Comments:		

210502	ISDN ref. To: ETS 300 138-1 [9] subclause 9.2.2, subclause 9.2.4	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CUG/210502	
Selection criteria:	Orign.: The calling user belongs to a CUG with the following CUG supplementary options: OA; not ocb; not Pref. CUG Term.: The called user belongs to the same CUG with the following CUG supplementary options: IA; not ICB	
Test purpose:	Ensure that when the calling user belongs to a CUG with outgoing access allowed, not outgoing calls barred within the CUG and not preferential CUG and the called user belongs to the same CUG with incoming access allowed and not incoming calls barred within the CUG, after the receipt of a SETUP message with a Facility IE containing a cUGCall invoke component with OARequested set to TRUE, CUG Index included, the called user receives a SETUP message with a Facility IE which contains an CUG index associated with the invoked CUG.	
Parameter values:	BC = PIXIT; Facility IE with cUGCall invoke component: OARequested set to TRUE CUG Index included	
Comments:		

210503	ISDN ref. To: ETS 300 138-1 [9] subclause 9.2.2, subclause 9.2.4	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CUG/210503	
Selection criteria:	Orign.: The calling user belongs to a CUG with the following CUG supplementary options: OA; not ocb; not Pref. CUG Term.: The called user belongs to the same CUG with the following CUG supplementary options: IA; ICB	
Test purpose:	Ensure that when the calling user belongs to a CUG with outgoing access is allowed, not outgoing calls barred within the CUG and not preferential CUG and the called user belongs to the same CUG with incoming access allowed and incoming calls barred within the CUG, after the receipt of a SETUP message with a Facility IE containing a cUGCall invoke component with OARequested set to TRUE, CUG Index included, the network initiate call clearing to the calling user with cause value # 29 "Facility rejected", return error value "incoming CallsBarredWithinCUG".	
Parameter values:	BC = PIXIT; Facility IE with cUGCall invoke component: OARequested set to TRUE CUG Index included	
Comments:		

210504	ISDN ref. to: ETS 300 138-1 [9] subclause 9.2.2, subclause 9.2.4	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CUG/210504	
Selection criteria:	Orign.: The calling user belongs to a CUG with the following CUG supplementary options: OA; not ocb; not Pref. CUG Term.: The called user belongs to the same CUG with the following CUG supplementary options: IA; not ICB	
Test purpose:	Ensure that when the calling user belongs to a CUG with outgoing access is allowed, not outgoing calls barred within the CUG and not preferential CUG and the called user belongs to the same CUG with incoming access allowed and not incoming calls barred within the CUG, after the receipt of a SETUP message with a Facility IE containing a cUGCall invoke component with OARequested set to TRUE, CUG Index not included, the called user receives a SETUP message.	
Parameter values:	BC = PIXIT; Facility IE with cUGCall invoke component: OARequested set to TRUE CUG Index not included	
Comments:		

210505	ISDN ref. to: ETS 300 138-1 [9] subclause 9.2.2, subclause 9.2.4	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CUG/210505	
Selection criteria:	Orign.: The calling user belongs to a CUG with the following CUG supplementary options: OA; not ocb; not Pref. CUG Term.: The called user is not a CUG subscriber	
Test purpose:	Ensure that when the calling user belongs to a CUG with outgoing access is allowed, not outgoing calls barred within the CUG and not preferential CUG and the called user belongs to the same CUG with incoming access allowed and not incoming calls barred within the CUG, after the receipt of a SETUP message with a Facility IE containing a cUGCall invoke component with OARequested set to TRUE, CUG Index not included, the called user receives a SETUP message.	
Parameter values:	BC = PIXIT; Facility IE with cUGCall invoke component: OARequested set to TRUE CUG Index not included	
Comments:		

210506	ISDN ref. to: ETS 300 138-1 [9] subclause 9.2.2, subclause 9.2.4	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CUG/210506	
Selection criteria:	Orign.: The calling user belongs to a CUG with the following CUG supplementary options: OA; not ocb; not Pref. CUG Term.: The called user is not a CUG subscriber	
Test purpose:	Ensure that when the calling user belongs to a CUG with outgoing access is allowed, not outgoing calls barred within the CUG and not preferential CUG and the called user belongs not to a CUG, after the receipt of a SETUP message with a Facility IE containing a cUGCall invoke component with OARequested set to TRUE, CUG Index included, the network initiate call clearing to the calling user with cause value # 29 "Facility rejected", return error value "userNotMemberOfCUG".	
Parameter values:	BC = PIXIT; Facility IE with cUGCall invoke component: OARequested set to TRUE CUG Index included	
Comments:		

210507	ISDN ref. to: ETS 300 138-1 [9] subclause 9.2.2, subclause 9.2.4	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CUG/210507	
Selection criteria:	Orign.: Calling user is not member of CUG Term.: The called user belongs to CUG with the following CUG supplementary options: not IA; not ICB	
Test purpose:	Ensure that when the calling user has not subscribed to the CUG and the called user belongs to a CUG with incoming access not allowed and not incoming calls barred within the CUG, after the receipt of a SETUP message without Facility IE containing a cUGCall invoke component the network initiate call clearing to the calling user with cause value # "87 user not a member of CUG".	
Parameter values:		
Comments:		

210508	ISDN ref. to: ETS 300 138-1 [9] subclause 9.2.2, subclause 9.2.4	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CUG/210508	
Selection criteria:	Orign.: The calling user belongs to a CUG with the following CUG supplementary options: not OA; not ocb; not Pref. CUG Term.: The called user is not member of CUG.	
Test purpose:	Ensure that when the calling user belongs to a CUG with outgoing access is not allowed, not outgoing calls barred within the CUG and not preferential CUG and the called user belongs not to a CUG, after the receipt of a SETUP message with a Facility IE containing a cUGCall invoke component with OARequested set to TRUE, CUG Index included, call establishment is not possible and the network initiate call clearing to the calling user with cause value 29 "Facility rejected", return error value "userNotMemberOfCUG".	
Parameter values:	BC = PIXIT; Facility IE with cUGCall invoke component: OARequested set to TRUE CUG Index included	
Comments:		

210509	ISDN ref. to: ETS 300 138-1 [9] subclause 9.2.2, subclause 9.2.4	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CUG/210509	
Selection criteria:	Orign.: The calling user belongs to a CUG with the following CUG supplementary options: OA; not ocb; not Pref. CUG Term.: The called user belongs to the same CUG with the following CUG supplementary options: not IA; ICB	
Test purpose:	Ensure that when the calling user belongs to a CUG with outgoing access is allowed, not outgoing calls barred within the CUG and not preferential CUG and the called user belongs to the same CUG with incoming access is not allowed and incoming calls barred within the CUG, after the receipt of a SETUP message with a Facility IE containing a cUGCall invoke component with OARequested set to FALSE, CUG Index included, call establishment is not possible and the network initiate call clearing to the calling user with cause value # 29 "Facility rejected", return error value "incoming CallsBarredWithinCUG"	
Parameter values:	BC = PIXIT; Facility IE with cUGCall invoke component: OARequested set to FALSE CUG Index included	
Comments:		

210510	ISDN ref. to: ETS 300 138-1 [9] subclause 9.2.2, subclause 9.2.4	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CUG/210510	
Selection criteria:	Orign.: The calling user belongs to a CUG with the following CUG supplementary options: OA; not ocb; not Pref. CUG Term.: The called user belongs to the same CUG with the following CUG supplementary options: IA; ICB	
Test purpose:	Ensure that when the calling user belongs to a CUG with outgoing access is allowed, not outgoing calls barred within the CUG and not preferential CUG and the called user belongs to the same CUG with incoming access allowed and incoming calls barred within the CUG, after the receipt of a SETUP message with a Facility IE containing a cUGCall invoke component with OARequested set to FALSE, CUG Index included, call establishment is not possible and the network initiate call clearing to the calling us er with cause value # 29 "Facility rejected", return error value "incoming CallsBarredWithinCUG".	
Parameter values:	BC = PIXIT; Facility IE with cUGCall invoke component: OARequested set to FALSE CUG Index included	
Comments:		

210511	ISDN ref. to: ETS 300 138-1 [9] subclause 9.2.2, subclause 9.2.4	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CUG/210511	
Selection criteria:	Orign.: CUG supplementary options: not OA; not OCB; not Pref. CUG Term.: Calling user and called user belong to the same CUG; CUG supplementary options: IA; not ICB	
Test purpose:	Ensure that when the calling user belongs to a CUG with outgoing access not allowed, not outgoing calls barred within the CUG and not preferential CUG and the called user belongs to the same CUG with incoming access allowed and not incoming calls barred within the CUG, after the receipt of a SETUP message with a Facility IE containing a cUGCall invoke component with OARequested set to FALSE, CUG Index included, the called user receives a SETUP message with a Facility IE which contains a CUG index associated with the invoked CUG.	
Parameter values:	BC = PIXIT; Facility IE with cUGCall invoke component: OARequested set to FALSE CUG Index included	
Comments:		

210512	ISDN ref. to: ETS 300 138-1 [9] subclause 9.2.2, subclause 9.2.4	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CUG/210512	
Selection criteria:	Orign.: CUG supplementary options: not OA; not OCB; not Pref. CUG Term.: Calling user not member of the same CUG with the following CUG supplementary options: IA; not ICB	
Test purpose:	Ensure that when the calling user belongs to a CUG with outgoing access not allowed, not outgoing calls barred within the CUG and not preferential CUG and the called user belongs not to the same CUG with incoming access allowed and not incoming calls barred within the CUG, after the receipt of a SETUP message with a Facility IE containing a cUGCall invoke component with OARequested set to FALSE, CUG Index included, call establishment is not possible and the network initiate call clearing to the calling user with cause value 29 "Facility rejected", return error value "userNotMemberOfCUG".	
Parameter values:	BC = PIXIT; Facility IE with cUGCall invoke component: OARequested set to FALSE CUG Index included	
Comments:		

210513	ISDN ref. to: ETS 300 138-1 [9] subclause 9.2.2, subclause 9.2.4	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CUG/210513	
Selection criteria:	Orign.: CUG supplementary options: OA; not OCB; not Pref. CUG Term.: Calling user not member of the same CUG with the following CUG supplementary options: IA; not ICB	
Test purpose:	Ensure that when the calling user belongs to a CUG with outgoing access allowed, not outgoing calls barred within the CUG and not preferential CUG and the called user belongs not to the same CUG with incoming access allowed and not incoming calls barred within the CUG, after the receipt of a SETUP message with a Facility IE containing a cUGCall invoke component with OARequested set to FALSE, CUG Index included, call establishment is not possible and the network initiate call clearing to the calling user with cause value 29 "Facility rejected", return error value "userNotMemberOfCUG".	
Parameter values:	BC = PIXIT; Facility IE with cUGCall invoke component: OARequested set to FALSE CUG Index included	
Comments:		

210514	ISDN ref. to: ETS 300 138-1 [9] subclause 9.2.2, subclause 9.2.4	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CUG/210514	
Selection criteria:	Orign.: CUG supplementary options: OA; not OCB; not Pref. CUG Term.: Calling user not member of the same CUG with the following CUG supplementary options: not IA; not ICB	
Test purpose:	Ensure that when the calling user belongs to a CUG with outgoing access allowed, not outgoing calls barred within the CUG and not preferential CUG and the called user belongs not to the same CUG with incoming access not allowed and not incoming calls barred within the CUG, after the receipt of a SETUP message with a Facility IE containing a cUGCall invoke component with OARequested set to FALSE, CUG Index included, call establishment is not possible and the network initiate call clearing to the calling user with cause value 29 "Facility rejected", return error value "userNotMemberOfCUG".	
Parameter values:	BC = PIXIT; Facility IE with cUGCall invoke component: OARequested set to FALSE CUG Index included	
Comments:		

210515	ISDN ref. to: ETS 300 138-1 [9] subclause 9.2.2, subclause 9.2.4	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CUG/210515	
Selection criteria:	Orign.: Calling user is not member of CUG Term.: The called user belongs to CUG with the following CUG supplementary options: IA; not ICB	
Test purpose:	Ensure that when the calling user has not subscribed to the CUG and the called user belongs to a CUG with incoming access allowed and not incoming calls barred within the CUG, after the receipt of a SETUP message without Facility IE containing a cUGCall invoke component the network the called user receives a SETUP message.	
Parameter values:		
Comments:		

6.2.2.6 SUB

210601	ISDN ref. to: ETS 300 061-1 [10] subclause 9.2	Other relevant ref.: EN 300 403-1 [1] subclause 4.5.9
TSS reference:	ISDN-ISDN/Supplementary_services/SUB/220601	
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 = PIXIT	
Comments:		

210602	ISDN ref. to: ETS 300 061-1 [10] subclause 9.2	Other relevant ref.: EN 300 403-1 4.5.9
TSS reference:	ISDN-ISDN/Supplementary_services/SUB/210602	
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 = PIXIT	
Comments:		

6.2.2.7 TP

210701	ISDN ref. to: ETS 300 055-1 [11], subclause 9.2.1	Other relevant ref.: EN 300 403-1 [1] subclause 5.6
TSS reference:	ISDN-ISDN/Supplementary_services/TP/210701	
Selection criteria:	The calling user must 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:		

210702	ISDN ref. to: ETS 300 055-1 [11], subclause 9.2.1	Other relevant ref.: EN 300 403-1 [1] subclause 5.6
TSS reference:	ISDN-ISDN/Supplementary_services/TP/210702	
Selection criteria:	The called user must 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	ISDN ref. to: ETS 300 055-1 [11], subclause 9.2.2	Other relevant ref.: EN 300 403-1 [1] subclause 5.6.5
TSS reference:	ISDN-ISDN/Supplementary_services/TP/210703	
Selection criteria:	The calling user must 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:		

6.2.2.8 UUS1i

210801	ISDN ref. to: ETS 300 286-1 [12] subclause 9.1.1.1, subclause 9.1.2.1	Other relevant ref.: EN 300 403-1 [1] subclause 4.5.29
TSS reference:	ISDN-ISDN/Supplementary_services/UUS1i/210801	
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 = PIXIT, UI length = 32	
Comments:		

210802	ISDN ref. to: ETS 300 286-1 [12] subclause 9.1.2.1	Other relevant ref.: EN 300 403-1 [1] subclause 4.5.29
TSS reference:	ISDN-ISDN/Supplementary_services/UUS1i/210802	
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 = PIXIT, UI length = 32	
Comments:		

210803	ISDN ref. to: ETS 300 286-1 [12] subclause 9.1.2.1	Other relevant ref.: EN 300 403-1 [1] subclause 4.5.29
TSS reference:	ISDN-ISDN/Supplementary_services/UUS1i/210803	
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 = PIXIT, UI length = 32	
Comments:		

210804	ISDN ref. to: ETS 300 286-1 [12] subclause 9.1.2.2.1a	Other relevant ref.: EN 300 403-1 [1]
TSS reference:	ISDN-ISDN/Supplementary_services/UUS1i/210804	
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 = PIXIT, UI length = 32	
Comments:		

210805	ISDN ref. to: ETS 300 286-1 [12] subclause 9.1.2.2.1b	Other relevant ref.: EN 300 403-1 [1]
TSS reference:	ISDN-ISDN/Supplementary_services/UUS1i/210805	
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 = PIXIT, UI length = 32	
Comments:		

210806	ISDN ref. to: ETS 300 286-1 [12] subclause 9.1.1.1.1	Other relevant ref.: EN 300 403-1 [1] subclause 7.1.3.2
TSS reference:	ISDN-ISDN/Supplementary_services/UUS1i/210806	
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 = PIXIT	
Comments:		

210807	ISDN ref. to: ETS 300 286-1 [12] subclause 9.1.2.2.1b	Other relevant ref.: EN 300 403-1 [1]
TSS reference:	ISDN-ISDN/Supplementary_services/UUS1i/210807	
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 = PIXIT, UI length = 32	
Comments:		

210808	ISDN ref. to: ETS 300 286-1 [12] subclause 9.1.2.2.1b	Other relevant ref.: EN 300 403-1 [1]
TSS reference:	ISDN-ISDN/Supplementary_services/UUS1i/210808	
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 UUS1i, 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 = PIXIT, UI length = 32	
Comments:		

210809	ISDN ref. to: ETS 300 286-1 [12] subclause 9.1.2.2.1b	Other relevant ref.: EN 300 403-1 [1]
TSS reference:	ISDN-ISDN/Supplementary_services/UUS1i/210809	
Selection criteria:	The calling (served) user is provided with UUS1 implicit request.	
Test purpose:	Ensure that after implicit activation of UUS1i, 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 = PIXIT, UI length = 32	
Comments:		

210810	ISDN ref. to: ETS 300 286-1 [12] subclause 9.1.2.2.1b	Other relevant ref.: EN 300 403-1 [1]
TSS reference:	ISDN-ISDN/Supplementary_services/UUS1i/210810	
Selection criteria:	orig.: The calling (served) user is provided with UUS1 implicit request. term.: UUI1i can be implicitly discarded by the network	
Test purpose:	The requested UUS is not supported in Network B. Verify that implicit activation of UUI1i can be implicitly discarded by the network without disrupting normal call handling	
Parameter values:	BC = PIXIT, UI length = 32	
Comments:		

6.2.2.9 UUS explicit

210831	ISDN ref. to: ETS 300 286-1 [12] subclause 9.1.1.2.1	Other relevant ref.: EN 300 403-1 [1] subclause 7.1.3.2
TSS reference:	ISDN-ISDN/Supplementary_services/UUS1/210831	
Selection criteria:	The calling (served) user is provided with UUS1 explicit request	
Test purpose:	Ensure that with the explicit request of UUS1 indicating "preferred" (not-essential), 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 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 = PIXIT, UI length = 32	
Comments:		

210832	ISDN ref. to: ETS 300 286-1 [12] subclause 9.1.1.2.1	Other relevant ref.: EN 300 403-1 [1] subclause 7.1.3.2
TSS reference:	ISDN-ISDN/Supplementary_services/UUS1/210831	
Selection criteria:	The calling (served) user is provided with UUS1 explicit request	
Test purpose:	Ensure that with the explicit request of UUS1 indicating "required" (essential), 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 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 = PIXIT, UI length = 32	
Comments:		

210833	ISDN ref. to: ETS 300 286-1 [12] subclause 9.1.1.2.2	Other relevant ref.: EN 300 403-1 [1] subclause 7.1.3.6 Q.737.1 [39], subclause 1.1.5.2.5.2.2
TSS reference:	ISDN-ISDN/Supplementary_services/UUS1/210833	
Selection criteria:	The calling (served) user is provided with UUS1 explicit request The requested UUS is not supported in Network B.	
Test purpose:	Ensure that after explicit request of UUS1 indicating "preferred", the destination network rejects implicit the UUS1 request without disrupting normal call handling. The calling network shall include a service 1 rejection with the error value "rejectedByNetwork" in the CONNECT message sent to the calling user.	
Parameter values:	BC = PIXIT, UI length = 32	
Comments:	If the network does not understand the explicit service 1 request or the terminating call control does not indicate acceptance or rejection then none of the address complete, call progress, answer, connect or release messages returned to the originating exchange shall include either a service 1 acceptance or rejection. This type of response will be taken as an implicit rejection of service 1. If the calling network does not receive an explicit service 1 acceptance or rejection either in the alerting or the connect indication from the called network, the following procedures shall apply: - if the service 1 had been requested as "preferred", the calling network shall include a service 1 rejection with the error value "rejectedByNetwork" in the CONNECT message sent to the calling user.	

210834	ISDN ref. to: ETS 300 286-1 [12] subclause 9.1.1.2.2	Other relevant ref.: EN 300 403-1 [1] subclause 7.1.3.6 Q.737.1 [39], subclause 1.1.5.2.5.2.2 Q.699 [40], subclause 2.1.2.15.2 Table 55
TSS reference:	ISDN-ISDN/Supplementary_services/UUS1/210834	
Selection criteria:	The calling (served) user is provided with UUS1 explicit request	
Test purpose:	Ensure that after explicit request of UUS1 indicating "preferred", the destination **network** rejects explicit the UUS1 request without disrupting normal call handling. The calling network shall include a service 1 rejection with the error value "rejectedByUser" in a CALL PROCEEDING, PROGRESS, ALERTING or CONNECT message to the calling user.	
Parameter values:	BC = PIXIT, UI length = 32	
Comments:	If the network already has or has obtained the knowledge that the network itself or the called user cannot support service 1 and it was explicitly requested as non-essential, a "service 1 not provided" indication is returned in the user-to-user indicators parameter in the address complete, call progress, answer, connect, or release messages.	

210835	ISDN ref. to: ETS 300 286-1 [12] subclause 9.1.1.2.2	Other relevant ref.: EN 300 403-1 [1] subclause 7.1.3.6
TSS reference:	ISDN-ISDN/Supplementary_services/UUS1/210835	
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. The calling network shall include the cause value and the error value received from the called network in the DISCONNECT message sent to the calling user.	
Parameter values:	BC = PIXIT	
Comments:	If the called user wants to reject the service 1 request, and it was requested as "required", the called user shall send a RELEASE COMPLETE or DISCONNECT message with cause #29 "facility rejected" to the called network. A service 1 rejection with the error value "rejectedByUser" shall also be included in the message.	

210836	ISDN ref. to: ETS 300 286-1 [12] subclause 9.1.1.2.2	Other relevant ref.: EN 300 403-1 [1] subclause 7.1.3.6
TSS reference:	ISDN-ISDN/Supplementary_services/UUS1/210836	
Selection criteria:	The calling (served) user is provided with UUS1 explicit request	
Test purpose:	Ensure that after explicit request of UUS1 indicating "required", the called network receives an ALERTING message from the called user including an explicit service 1 rejection the called network shall clear the call towards the calling network indicating cause #69 "requested facility not implemented" and the error value "rejectedByUser". In addition, the called network shall send a DISCONNECT message with cause #31 "normal, unspecified" The calling network shall include the cause value and the error value received from the Called network in the DISCONNECT message sent to the calling user.	
Parameter values:	BC = PIXIT	
Comments:		

210837	ISDN ref. To: ETS 300 286-1 [12] subclause 9.1.1.2.2	Other relevant ref.: EN 300 403-1 [1] subclause 7.1.3.6
TSS reference:	ISDN-ISDN/Supplementary_services/UUS1/210837	
Selection criteria:	The calling (served) user is provided with UUS1 explicit request	
Test purpose:	Ensure that after explicit request of UUS1 indicating "required", the called network receives an CONNECT message from the called user including an explicit service 1 rejection the called network shall clear the call towards the calling network indicating cause #69 "requested facility not implemented" and the error value "rejectedByUser". In addition, the called network shall send a DISCONNECT message with cause #31 "normal, unspecified" The calling network shall include the cause value and the error value received from the called network in the DISCONNECT message sent to the calling user.	
Parameter values:	BC = PIXIT	
Comments:		

210838	ISDN ref. to: ETS 300 286-1 [12] subclause 9.1.1.2.2	Other relevant ref.: EN 300 403-1 [1] subclause 7.1.3.6
TSS reference:	ISDN-ISDN/Supplementary_services/UUS1/210838	
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 network does not receive an explicit service 1 acceptance or rejection either in the ALERTING or in the CONNECT message the called network shall clear the call towards the calling network indicating cause #69 "requested facility not implemented" and a service 1 rejection with the error value "rejectedByUser". The calling network shall include the received cause value and error value in the DISCONNECT message sent to the calling user. Furthermore, the called network shall send a DISCONNECT message with cause #31 "normal, unspecified" to the called user.	
Parameter values:	BC = PIXIT	
Comments:		

210839	ISDN ref. to: ETS 300 286-1 [12] subclause 9.1.1.2.2	Other relevant ref.: EN 300 403-1 [1] subclause 7.1.3.6 Q.737.1 [39], subclause 1.1.5.2.5.2.2 Q.699 [40], subclause 2.1.2.15.2 Table 54
TSS reference:	ISDN-ISDN/Supplementary_services/UUS1/210839	
Selection criteria:	The calling (served) user is provided with UUS1 explicit request	
Test purpose:	Ensure that after explicit request of UUS1 indicating "required", and the called network already has obtained knowledge that **the network itself cannot support** service 1 a DISCONNECT message is sent with cause value 29, "facility rejected" with the service 1 rejection with the error value "rejectedByNetwork".	
Parameter values:	BC = PIXIT	
Comments:		

210840	ISDN ref. to: ETS 300 286-1 [12] subclause 9.1.1.2.2	Other relevant ref.: EN 300 403-1 [1] subclause 7.1.3.6
TSS reference:	ISDN-ISDN/Supplementary_services/UUS1/210840	
Selection criteria:	The calling (served) user is provided with UUS1 explicit request	
Test purpose:	If the called user wants to reject the service 1 request, and it was requested as "preferred", the called user shall include a service 1 rejection with the error value "rejectedByUser" in the ALERTING message sent to the called network. The called network shall include the error value in the alerting indication sent to the calling network. The calling network shall also include this rejection in the corresponding ALERTING message sent to the calling user.	
Parameter values:	BC = PIXIT, UI length = 32	
Comments:		

210841	ISDN ref. to: ETS 300 286-1 [12] subclause 9.1.1.2.2	Other relevant ref.: EN 300 403-1 [1] subclause 7.1.3.6
TSS reference:	ISDN-ISDN/Supplementary_services/UUS1/210841	
Selection criteria:	The calling (served) user is provided with UUS1 explicit request	
Test purpose:	If the called user wants to reject the service 1 request, and it was requested as "preferred", the called user shall include a service 1 rejection with the error value "rejectedByUser" in the CONNECT message sent to the called network. The called network shall include the error value in the connect indication sent to the calling network. The calling network shall also include this rejection in the corresponding CONNECT message sent to the calling user.	
Parameter values:	BC = PIXIT, UI length = 32	
Comments:		

210851	ISDN ref. to: ETS 300 286-1 [12] subclause 9.2.2.1	Other relevant ref.: EN 300 403-1 [1] subclause 7.1.4.4
TSS reference:	ISDN-ISDN/Supplementary_services/UUS2/210851	
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 = PIXIT, UI length = 32	
Comments:		

210852	ISDN ref. to: ETS 300 286-1 [12] subclause 9.2.1.2	Other relevant ref.: EN 300 403-1 [1] subclause 7.1.4.3
TSS reference:	ISDN-ISDN/Supplementary_services/UUS2/210852	
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 = PIXIT	
Comments:		

210871	ISDN ref. to: ETS 300 286-1 [12] subclause 9.3.1.1	Other relevant ref.: EN 300 403-1 [1] subclause 7.1.5.2
TSS reference:	ISDN-ISDN/Supplementary_services/UUS3/210871	
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 = PIXIT, UI length = 32	
Comments:		

210872	ISDN ref. to: ETS 300 286-1 [12] subclause 9.3.1.1.2	Other relevant ref.: EN 300 403-1 [1] subclause 7.1.5.3
TSS reference:	ISDN-ISDN/Supplementary_services/UUS3/210872	
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 = PIXIT	
Comments:		

210873	ISDN ref. to: ETS 300 286-1 [12] subclause 9.3.1.1	Other relevant ref.: EN 300 403-1 [1] subclause 7.1.5.2
TSS reference:	ISDN-ISDN/Supplementary_services/UUS3/210873	
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 = PIXIT, UI length = 32	
Comments:		

210874	ISDN ref. to: ETS 300 286-1 [12] subclause 9.3.1.2.1	Other relevant ref.: EN 300 403-1 [1] subclause 7.1.5.4
TSS reference:	ISDN-ISDN/Supplementary_services/UUS3/210874	
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 = PIXIT, UI length = 32	
Comments:		

210875	ISDN ref. to: ETS 300 286-1 [12] subclause 9.3.1.2.2	Other relevant ref.: EN 300 403-1 [1] subclause 7.1.5.5
TSS reference:	ISDN-ISDN/Supplementary_services/UUS3/210875	
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 = PIXIT	
Comments:		

6.2.2.10 CONF

210901	**ISDN ref. to:** ETS 300 185-1 [13], subclause 9.2.2, Annex A, Figure A.1	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CONF/210901	
Selection criteria:	CONF	
Test purpose:	Ensure that user A can establish conference call from the Null call state.	
Parameter values:	BC = speech	
Comments:	The user A is in network N1 and is provided with CONF. User B is in network N2. User A sends a SETUP message including a Facility IE which shall contain a BeginCONF invoke component to the network. The network shall respond with a CALL PROCEEDING and a CONNECT message which shall include a BeginCONF return result component in a Facility IE [in the (Active, Idle) state]. After the reception off the CONNECT message, user A is initiating the call hold procedure, the call is an Active-Held connection. User A sends a SETUP message to user C. After the call establishment, user A sends a FACILITY message to the network indicating the call reference of the call to be added (CRy) including an **AddCONF** invoke component. The network shall send a DISCONNECT message (with CRy) to user A with a Facility IE with an **AddCONF** return result component. User A sends RELEASE for CRy. The network response with RELEASE COMPLETE. User B shall receive a NOTIFY message with a Notification indicator IE indicating that the user B has been added to the conference ("Conference established"). To terminate the conference, the served user shall clear the connection to the network by using the basic call clearing procedures. On receiving the DISCONNECT message, the network shall make the conference unavailable, i.e. all subsequent operations invoked for this conference by the user shall be responded to with the appropriate return error component specifying "notActive" or "IllConferenceId" depending on the operation requested. On sending or receiving the RELEASE COMPLETE message associated with clearing the connection, the network shall release the PartyId associated with each remote user, and shall release the ConferenceId associated with the clearing of the connection. The ConferenceId shall be available for re-use on other conferences.	

210902	**ISDN ref. to:** ETS 300 185-1 [13], subclause 9.2.2, Annex A, Figure A.2	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CONF/210902	
Selection criteria:	CONF	
Test purpose:	Ensure that user A can establish a conference from the Active call state.	
Parameter values:	BC = speech	
Comments:	The user A is in network N1 and is provided with CONF. The user B is in network N2. User A calls user B (with CRx). After the call establishment [in the (Active, Idle) state] user A sends a FACILITY message including a Facility IE which shall contain a **BeginCONF** invoke component indicating the call reference of the call to be added (CRx). The network shall respond to user A with a FACILITY message including a Facility IE witch shall contain a BeginCONF return result component in a Facility IE. User B shall receive a NOTIFY message with a Notification indicator IE indicating that the user B has been added to the conference ("Conference established"). To terminate the conference, the served user shall clear the connection to the network by using the basic call clearing procedures. On receiving the DISCONNECT message, the network shall make the conference unavailable, i.e. all subsequent operations invoked for this conference by the user shall be responded to with the appropriate return error component specifying "notActive" or "IllConferenceId" depending on the operation requested. On sending or receiving the RELEASE COMPLETE message associated with clearing the connection, the network shall release the PartyId associated with each remote user, and shall release the ConferenceId associated with the clearing of the connection. The ConferenceId shall be available for re-use on other conferences.	

210903	**ISDN ref. to:** ETS 300 185-1 [13], subclause 9.2.2, Annex A, Figure A.3	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CONF/210903	
Selection criteria:	CONF	
Test purpose:	Ensure that user A can add an existing call to the conference.	
Parameter values:	BC = speech	
Comments:	The user A is in network N1 and is provided with CONF. User B and C are in network N2. User A calls user B (with CRx). After the call establishment [in the (Active, Idle) state] user A sends a FACILITY message including a Facility IE which shall contain a **BeginCONF** invoke component indicating the call reference of the call to be added (CRx). The network shall respond to user A with a FACILITY message including a Facility IE witch shall contain a BeginCONF return result component in a Facility IE. User B shall receive a NOTIFY message with a Notification indicator IE indicating that the user B has been added to the conference ("Conference established"). After initiating of call hold, the call (CRx) is in an Active-Held connection. User A sends a SETUP message to user C. After the call establishment [in the (Active, Idle) state] user A sends a FACILITY message to the network indicating the call reference of the call to be added (CRy) including an **AddCONF** invoke component. The network shall send a DISCONNECT message (with CRy) to user A with a Facility IE with an **AddCONF** return result component. User A sends RELEASE for CRy. The network response with RELEASE COMPLETE. User C shall receive a NOTIFY message with a Notification indicator IE indicating that the user C has been added to the conference ("Conference established"). User B shall receive a NOTIFY message with a Notification indicator IE indicating that a new remote user has been added to the conference ("Other party added"). To terminate the conference, the served user shall clear the connection to the network by using the basic call clearing procedures. On receiving the DISCONNECT message, the network shall make the conference unavailable, i.e. all subsequent operations invoked for this conference by the user shall be responded to with the appropriate return error component specifying "notActive" or "IllConferenceId" depending on the operation requested. On sending or receiving the RELEASE COMPLETE message associated with clearing the connection, the network shall release the PartyId associated with each remote user, and shall release the ConferenceId associated with the clearing of the connection. The ConferenceId shall be available for re-use on other conferences.	

210904	**ISDN ref. to:** ETS 300 185-1 [13], subclause 9.2.2, Annex A, Figure A.6	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CONF/210904	
Selection criteria:	CONF	
Test purpose:	Ensure that user A can add an incoming call to the conference.	
Parameter values:	BC = speech	
Comments:	The user A is in network N1 and is provided with CONF. User B and C are in network N2. User A calls user B (with CRx). After the call establishment [in the (Active, Idle) state] user A sends a FACILITY message including a Facility IE which shall contain a **BeginCONF** invoke component indicating the call reference of the call to be added (CRx). The network shall respond to user A with a FACILITY message including a Facility IE witch shall contain a BeginCONF return result component in a Facility IE. User B shall receive a NOTIFY message with a Notification indicator IE indicating that the user B has been added to the conference ("Conference established"). User C is calling user A. User A receives a SETUP (with CRy) message. User A answers with a ALERTING message and initiates the call hold procedure, the call A-B is in the Active, Call Held state. After the call establishment [in the (Active, Idle) state] user A sends a FACILITY message to the network indicating the call reference of the call to be added (CRy) including an **AddCONF** invoke component. The network shall send a DISCONNECT message (with CRy) to user A with a Facility IE with an **AddCONF** return result component. User A sends RELEASE for CRy. The network response with RELEASE COMPLETE. User C shall receive a NOTIFY message with a Notification indicator IE indicating that the user C has been added to the conference ("Conference established"). User B shall receive a NOTIFY message with a Notification indicator IE indicating that a new remote user has been added to the conference ("Other party added"). To terminate the conference, the served user shall clear the connection to the network by using the basic call clearing procedures. On receiving the DISCONNECT message, the network shall make the conference unavailable, i.e. all subsequent operations invoked for this conference by the user shall be responded to with the appropriate return error component specifying "notActive" or "IllConferenceId" depending on the operation requested. On sending or receiving the RELEASE COMPLETE message associated with clearing the connection, the network shall release the PartyId associated with each remote user, and shall release the ConferenceId associated with the clearing of the connection. The ConferenceId shall be available for re-use on other conferences.	

210905	**ISDN ref. to:** ETS 300 185-1 [13], subclause 9.2.2, Annex A, Figure A.7-A.8	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CONF/210905	
Selection criteria:	CONF	
Test purpose:	Ensure that user A can establish a conference call with user B and user C and isolate and reattach user B.	
Parameter values:	BC = speech	
Comments:	The user A is in network N1 and is provided with CONF. User B and C are in network N2. User A calls user B (with CRx). After the call establishment [in the (Active, Idle) state] user A sends a FACILITY message including a Facility IE which shall contain a **BeginCONF** invoke component indicating the call reference of the call to be added (CRx). The network shall respond to user A with a FACILITY message including a Facility IE witch shall contain a BeginCONF return result component in a Facility IE. User B shall receive a NOTIFY message with a Notification indicator IE indicating that the user B has been added to the conference ("Conference established"). After initiating of call hold, the call (CRx) is in an Active-Held connection. User A sends a SETUP message to user C. After the call establishment [in the (Active, Idle) state] user A sends a FACILITY message to the network indicating the call reference of the call to be added (CRy) including an **AddCONF** invoke component. The network shall send a DISCONNECT message (with CRy) to user A with a Facility IE with an **AddCONF** return result component. User A sends RELEASE for CRy. The network response with RELEASE COMPLETE. User C shall receive a NOTIFY message with a Notification indicator IE indicating that the user C has been added to the conference ("Conference established"). User B shall receive a NOTIFY message with a Notification indicator IE indicating that a new remote user has been added to the conference ("Other party added"). User A sends a FACILITY message with a Facility IE including a IsolateCONF invoke component to request the isolation of the remote user B. The network shall send a FACILITY message with a Facility IE including a IsolateCONF return result component. User C shall receive a NOTIFY message with a Notification indicator IE indicating that the user B has been reattached to the conference ("other party reattached"). User B shall receive a NOTIFY message with a Notification indicator IE indicating that user B is reattached to the conference("reattached").User A sends a FACILITY message with a Facility IE including a ReattachCONF invoke component to request the reattachment of the remote user B. The network shall send a FACILITY message with a Facility IE including a ReattachCONF return result component.	

210906	**ISDN ref. to:** ETS 300 185-1 [13], subclause 9.2.2, Annex A, Figure A.9	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CONF/210906	
Selection criteria:	CONF	
Test purpose:	Ensure that user A can establish a conference call with user B and user C and verify that one party can be splited.	
Parameter values:	BC = speech	
Comments:	The user A is in network N1 and is provided with CONF. User B and C are in network N2. User A calls user B (with CRx). After the call establishment [in the (Active, Idle) state] user A sends a FACILITY message including a Facility IE which shall contain a **BeginCONF** invoke component indicating the call reference of the call to be added (CRx). The network shall respond to user A with a FACILITY message including a Facility IE witch shall contain a BeginCONF return result component in a Facility IE. User B shall receive a NOTIFY message with a Notification indicator IE indicating that the user B has been added to the conference ("Conference established"). After initiating of call hold, the call (CRx) is in an Active-Held connection. User A sends a SETUP message (CRy) to user C. After the call establishment [in the (Active, Idle) state] User A sends a FACILITY message to the network indicating the call reference of the call to be added (CRy) including an **AddCONF** invoke component. The network shall send a DISCONNECT message (with CRy) to user A with a Facility IE with an **AddCONF** return result component. User A sends RELEASE for CRy. The network response with RELEASE COMPLETE. User C shall receive a NOTIFY message with a Notification indicator IE indicating that the user C has been added to the conference ("Conference established"). User B shall receive a NOTIFY message with a Notification indicator IE indicating that a new remote user has been added to the conference ("Other party added"). User A sends a SETUP message including a Facility IE which shall contain SplitCONF invoke component to request the splitting of the remote user B. The network shall send a CALL PROCEEDING, ALERTING without Channelid IE and a CONNECT message with a SplitCONF return component. User C shall receive a NOTIFY message with a Notification indicator IE indicating that the user B has been split from the conference ("other party splited"). User B shall receive a NOTIFY message with a Notification indicator IE indicating that user B is disconnected from the conference ("conference disconnected").	

210907	**ISDN ref. to:** ETS 300 185-1 [13], subclause 9.2.2, Annex A, Figure A.10-A.12	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CONF/210907	
Selection criteria:	CONF	
Test purpose:	The user A is in network N1 and is provided with CONF. User B and C are in network N2. Ensure that user A can establish a conference call with user B and user C. Verify that user B can be disconnected from user A (with a DropCONF invoke component in a FACILITY message) from the conference and that user A can terminate the conference using the basic call clear procedure.	
Parameter values:	BC = speech	
Comments:	The user A is in network N1 and is provided with CONF. User B and C are in network N2. User A calls user B (with CRx). After the call establishment [in the (Active, Idle) state] user A sends a FACILITY message including a Facility IE which shall contain a **BeginCONF** invoke component indicating the call reference of the call to be added (CRx). The network shall respond to user A with a FACILITY message including a Facility IE witch shall contain a BeginCONF return result component in a Facility IE. User B shall receive a NOTIFY message with a Notification indicator IE indicating that the user B has been added to the conference ("Conference established"). After initiating of call hold, the call (CRx) is in an Active-Held connection. User A sends a SETUP message (CRy) to user C. After the call establishment [in the (Active, Idle) state] user A sends a FACILITY message to the network indicating the call reference of the call to be added (CRy) including an **AddCONF** invoke component. The network shall send a DISCONNECT message (with CRy) to user A with a Facility IE with an **AddCONF** return result component. User A sends RELEASE for CRy. The network response with RELEASE COMPLETE. User C shall receive a NOTIFY message with a Notification indicator IE indicating that the user C has been added to the conference ("Conference established"). User B shall receive a NOTIFY message with a Notification indicator IE indicating that a new remote user has been added to the conference ("Other party added"). User A sends a FACILITY message with a Facility IE including a DropCONF invoke component to request to disconnect the remote user B. The network shall send a FACILITY message with a Facility IE including a DropCONF return result component. User B shall be disconnected from the call with the normal call clearing procedures. User C shall receive a NOTIFY message with a Notification indicator IE indicating that the user B has been disconnected from the conference ("other party disconnected").User A is terminating the conference sending a DISCONNECT message, the network response with RELEASE and the user with RELEASE COMPLETE. User C shall be disconnected from the network with the normal call clearing procedures.	

210908	**ISDN ref. to:** ETS 300 185-1 [13], subclause 9.2.2, Annex A, Figure A.11-A.12	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CONF/210908	
Selection criteria:	CONF	
Test purpose:	Ensure that user A can establish a conference call with user B and user C. The remote user B can disconnect the conference and that user A can terminate the conference using the basic call clear procedure.	
Parameter values:	BC = speech	
Comments:	The user A is in network N1 and is provided with CONF. User B is in network N2. User A calls user B (with CRx). After the call establishment [in the (Active, Idle) state] user A sends a FACILITY message including a Facility IE which shall contain a **BeginCONF** invoke component indicating the call reference of the call to be added (CRx). The network shall respond to user A with a FACILITY message including a Facility IE witch shall contain a BeginCONF return result component in a Facility IE. User B shall receive a NOTIFY message with a Notification indicator IE indicating that the user B has been added to the conference ("Conference established"). After initiating of call hold, the call (CRx) is in an Active-Held connection. User A sends a SETUP message (CRy) to user C. After the call establishment [in the (Active, Idle) state] user A sends a FACILITY message to the network indicating the call reference of the call to be added (CRy) including an **AddCONF** invoke component. The network shall send a DISCONNECT message (with CRy) to user A with a Facility IE with an **AddCONF** return result component. User A sends RELEASE for CRy. The network response with RELEASE COMPLETE. User C shall receive a NOTIFY message with a Notification indicator IE indicating that the user C has been added to the conference ("Conference established"). User B shall receive a NOTIFY message with a Notification indicator IE indicating that a new remote user has been added to the conference ("Other party added"). User B send a DISCONNECT message, the network shall send to user A a FACILITY message with a Facility IE including a PartyDISC invoke component with a parameter indicating the PartyId associated with the disconnected remote user. User C shall receive a NOTIFY message with a Notification indicator IE indicating that the user B disconnected from the conference ("other remote user disconnected").User A is terminating the conference sending a DISCONNECT message, the network response with RELEASE and the user with RELEASE COMPLETE. User C shall be disconnected from the network with the normal call clearing procedures.	

210909	**ISDN ref. to:** ETS 300 185-1 [13], subclause 9.2.2, Annex A, Figure A.2	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CONF/210909	
Selection criteria:	CONF	
Test purpose:	The ISDN user B is in network N2 and is provided with CONF. The user A and user C are in network N2. Ensure that user A calls user B. User B can establish a conference from the Active call state to user C.	
Parameter values:	BC = speech	
Comments:	User A calls user B. After the call establishment [in the (Active, Idle) state] user B sends a FACILITY message including a Facility IE which shall contain a **BeginCONF** invoke component indicating the call reference of the call to be added. The network shall respond to user B with a FACILITY message including a Facility IE witch shall contain a BeginCONF return result component in a Facility IE.	

6.2.2.11 CFU

211101	ISDN ref. to: ETS 300 207-1 [14] subclause 6.1, subclause 9.2.2, subclause 9.2.5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CFU/211101	
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, "served user receives notification that the call has been forwarded" = 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 = PIXIT, CF active	
Comments:		

211102	ISDN ref. to: ETS 300 207-1 [14] subclause 9.2.2, subclause 9.2.5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CFU/211102	
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, "served user receives notification that the call has been forwarded" = 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). User B is not notified of call diversion.	
Parameter values:	BC = PIXIT, CF active	
Comments:		

211103	ISDN ref. to: ETS 300 207-1 [14] subclause 9.2.2, subclause 9.2.5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CFU/TC211103	
ISDN selection criteria:	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, "served user receives notification that the call has been forwarded" = Yes).	
Test purpose:	To verify that a call is released correctly if CFU was not successful. User A calls user B, the call is forwarded to user C who is user determined user busy. User A is notified of call diversion and user C is informed of the forwarding number (user B has presentation allowed).	
ISDN parameter values:	CFU active	
Comments:		

211104	ISDN ref. to: ETS 300 207-1 [14] subclause 10.5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CFU/TC211104	
Selection criteria:	The user B is in network N2. Partial rerouting provided in PTNX in case of CFU ("calling user is Notified of call diversion" = Yes, "diverting number is released to the diverted-to user" = Yes)	
Test purpose:	User A calls user B. The public network acts on the call rerouting invocation request from the private network (NT2) and performs rerouting towards the indicated address (user C). The CallRerouteing invoke component shall contain the lastRerouteingNr with the "presentationAllowedNumber" and the subscriptionOption parameter with the value "calling user is notified of diversion". User A is notified of call diversion and user C is informed of the forwarding number (user B has presentation allowed).	
ISDN parameter values:	CFU – partial rerouting	
Comments:		

211105	ISDN ref. to: ETS 300 207-1 [14] subclause 10.5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CFU/TC211105	
ISDN selection criteria:	The user B is in network N2. Partial rerouting provided in PTNX in case of CFU ("calling user is Notified of call diversion" = No, "diverting number is released to the diverted-to user" = No)	
Test purpose:	User A calls user B. The public network acts on the call rerouting invocation request from the private network (NT2) and performs rerouting towards the indicated address (user C). User A is not notified of call diversion and user C is not informed of the forwarding number.	
ISDN parameter values:	CFU – partial rerouting	
Comments:	The CallRerouteing invoke component shall contain the lastRerouteingNr with the "presentationRestricted" and the subscriptionOption parameter with the value "calling user is notified of diversion" is not included.	

6.2.2.12 CFB

211201	ISDN ref. to: ETS 300 207-1 [14] subclause 9.2.2, subclause 9.2.4.3, subclause 9.2.5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CFB/211201	
Selection criteria:	The user B is in network N2 and is provided with CFB-UDUB ("calling user is notified of call diversion" = Yes, with diverted-to number, "diverting number is released to the diverted-to user " = Yes, "served user receives notification that the call has been forwarded" = 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). User B is notified of call diversion with a FACILITY message (DCR) about the telecommunications service information, user-to-user information, served user B's subaddress and the calling party A´s address.	
Parameter values:	CF active	
Comments:		

211202	ISDN ref. to: ETS 300 207-1 [14] subclause 9.2.2, subclause 9.2.4.3, subclause 9.2.5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CFB/211202	
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-UDUB ("calling user is notified of call diversion" = Yes, with diverted-to number, "diverting number is released to the diverted-to User" = No, "served user receives notification that the call has been forwarded" = 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:	CF active	
Comments:		

211203	ISDN ref. to: ETS 300 207-1 [14] subclause 9.2.2, subclause 9.2.4.3, subclause 9.2.5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CFB/211203	
Selection criteria:	The user B is in network N2 and is provided with CFB-NDUB("calling user is notified of call diversion" = Yes, with diverted-to number, "diverting number is released to the diverted-to user " = Yes, "served user receives notification that the call has been forwarded" = 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). User B is notified of call diversion with a FACILITY message (DCR) about the telecommunications service information, user-to-user information, served user B's subaddress and the calling party A´s address.	
Parameter values:	CF active	
Comments:		

211204	ISDN ref. to: ETS 300 207-1 [14] subclause 9.2.2, subclause 9.2.4.3, subclause 9.2.5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CFB/211204	
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-NDUB ("calling user is notified of call diversion" = Yes, with diverted-to number, "diverting number is released to the diverted-to User" = No, "served user receives notification that the call has been forwarded" = 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:	CF active	
Comments:		

211205	ISDN ref. to: ETS 300 207-1 [14] subclause 9.2.2, subclause 9.2.4.3, subclause 9.2.5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CFB/211205	
Selection criteria:	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, "served user receives notification that the call has been forwarded" = Yes).	
Test purpose:	To verify that a call is released correctly if CFB was not successful. User A calls busy termination B (that one B-channel is free), the call is forwarded to user C who is user determined user busy.	
Parameter values:	CFB active, User B is in the UDUB condition	
Comments:		

211206	ISDN ref. to: ETS 300 207-1 [14] subclause 9.2.2, subclause 9.2.4.3, subclause 9.2.5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CFB/211206	
Selection criteria:	The user B is in network N2. Partial rerouting provided in PTNX in case of CFB configured for subscription option "served user receives notification that a call has been forwarded" set to "yes", with call offering information and DDI provided, to indicate that the call to the served user is forwarded on network determined user busy. "calling user is notified of call diversion" = Yes, "diverting number is released to the diverted-to User" = Yes	
Test purpose:	User A calls user B. The public network acts on the call rerouting invocation request from the private network (NT2) and performs rerouting towards the indicated address (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:	CFB – partial rerouting	
Comments:	The CallRerouteing invoke component shall contain the lastRerouteingNr with the "presentationAllowedNumber" and the subscriptionOption parameter with the value "calling user is notified of diversion".	

211207	ISDN ref. to: ETS 300 207-1 [14] subclause 9.2.2, subclause 9.2.4.3, subclause 9.2.5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CFB/211207	
Selection criteria:	The user B is in network N2. Partial rerouting provided in PTNX in case of CFB configured for subscription option "served user receives notification that a call has been forwarded" set to "yes", with call offering information and DDI provided, to indicate that the call to the served user is forwarded on network determined user busy. "calling user is notified of call diversion" = No, "diverting number is released to the diverted-to User" = No	
Test purpose:	User A calls user B. The public network acts on the call rerouting invocation request from the private network (NT2) and performs rerouting towards the indicated address (user C). User A is not notified of call diversion and not informed of the diverted-to number and user C is not informed of the forwarding number.	
Parameter values:	CFB – partial rerouting	
Comments:	The CallRerouteing invoke component shall contain the lastRerouteingNr with the "presentationRestricted" and the subscriptionOption parameter with the value "calling user is notified of diversion" is not included.	

6.2.2.13 CFNR

211301	ISDN ref. to: EN 300 403-1 [1] subclause 9.2.2, subclause 9.2.4.4, subclause 9.2.5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CFNR/211301	
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 (option A, late release) ("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:	CF active	
Comments:	Network provider option "served user call retention on invocation of diversion " is "retain call until alerting begins at diverting to user".	

211302	ISDN ref. to: EN 300 403-1 [1] subclause 9.2.2, subclause 9.2.4.4, subclause 9.2.5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CFNR/211302	
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 (option A, late release) ("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:	CF active	
Comments:	Network provider option "served user call retention on invocation of diversion " is "retain call until alerting begins at diverting to user".	

211303	ISDN ref. to: EN 300 403-1 [1] subclause 9.2.2, subclause 9.2.4.4, subclause 9.2.5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CFNR/211303	
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 (option B, immediate release) ("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:	CFNR active	
Comments:	Network provider option "served user call retention on invocation of diversion " is "clear call on invocation".	

211304	ISDN ref. to: EN 300 403-1 [1] subclause 9.2.2, subclause 9.2.4.4, subclause 9.2.5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CFNR/211304	
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 (option B, immediate release) ("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:	CFNR active	
Comments:	Network provider option "served user call retention on invocation of diversion " is "clear call on invocation".	

211305	ISDN ref. to: EN 300 403-1 [1] subclause 9.2.2, subclause 9.2.4.4, subclause 9.2.5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CFNR/211305	
Selection criteria:	The user B is in network N2 and is provided with CFNR (option B, immediate release) ("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 released correctly if CFNR was not successful. Ensure that when user A calls user B, if unanswered, the call is forwarded to user C who is user determined user busy.	
Parameter values:	CFNR active	
Comments:	Network provider option "served user call retention on invocation of diversion " is "clear call on invocation".	

211306	ISDN ref. to: EN 300 403-1 [1] subclause 9.2.2, subclause 10.5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CFNR/TC211306	
Selection criteria:	The user B is in network N2. Partial rerouting provided in PTNX in case of CFNR (option A, late release) ("calling user is Notified of call diversion" = Yes, "diverting number is released to the diverted-to User" = Yes)	
Test purpose:	User A calls user B. The public network acts on the call rerouting invocation request from the private network (NT2) and performs rerouting towards the indicated address (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).	
ISDN parameter values:	CFNR – partial rerouting	
Comments:	• Network provider option "served user call retention on invocation of diversion " is "retain call until alerting begins at diverting to user". • The CallRerouteing invoke component shall contain the lastRerouteingNr with the "presentationAllowedNumber" and the subscriptionOption parameter with the value "calling user is notified of diversion".	

211307	ISDN ref. to: EN 300 403-1 [1] subclause 9.2.2, subclause 10.5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CFNR/TC211307	
Selection criteria:	The user B is in network N2. Partial rerouting provided in PTNX in case of CFNR (option A, late release) ("calling user is Notified of call diversion" = No, "diverting number is released to the diverted-to User" = No)	
Test purpose:	User A calls user B. The public network acts on the call rerouting invocation request from the private network (NT2) and performs rerouting towards the indicated address (user C). User A is not notified of call diversion and not informed of the diverted-to number (user C has presentation allowed – no COLR) and user C is not informed of the forwarding number (user B has presentation not allowed).	
ISDN parameter values:	CFNR – partial rerouting	
Comments:	• Network provider option "served user call retention on invocation of diversion " is "retain call until alerting begins at diverting to user". • The CallRerouteing invoke component shall contain the lastRerouteingNr with the "presentationRestricted" and the subscriptionOption parameter with the value "calling user is notified of diversion" is not included.	

211308	ISDN ref. to: EN 300 403-1 [1] subclause 9.2.2, subclause 9.2.4.4, subclause 9.2.5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CFNR/TC211308	
Selection criteria:	The user B is in network N2. Partial rerouting provided in PTNX in case of CFNR (option B, immediate release). ("calling user is Notified of call diversion" = Yes, "diverting number is released to the diverted-to User" = Yes)	
Test purpose:	User A calls user B. The public network acts on the call rerouting invocation request from the private network (NT2) and performs rerouting towards the indicated address (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).	
ISDN parameter values:	CFNR – partial rerouting	
Comments:	• Network provider option "served user call retention on invocation of diversion " is "clear call on invocation". • The CallRerouteing invoke component shall contain the lastRerouteingNr with the "presentationAllowedNumber" and the subscriptionOption parameter with the value "calling user is notified of diversion".	

211309	ISDN ref. to: EN 300 403-1 [1] subclause 9.2.2, subclause 9.2.4.4, subclause 9.2.5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CFNR/TC211309	
Selection criteria:	The user B is in network N2. Partial rerouting provided in PTNX in case of CFNR (option B, immediate release). ("calling user is Notified of call diversion" = No, "diverting number is released to the diverted-to User" = No)	
Test purpose:	User A calls user B. The public network acts on the call rerouting invocation request from the private network (NT2) and performs rerouting towards the indicated address (user C). User A is not notified of call diversion and not informed of the diverted-to number and user C is not informed of the forwarding number.	
ISDN parameter values:	CFNR – partial rerouting	
Comments:	• Network provider option "served user call retention on invocation of diversion " is "clear call on invocation". • The CallRerouteing invoke component shall contain the lastRerouteingNr with the "presentationRestricted" and the subscriptionOption parameter with the value "calling user is notified of diversion" is not included.	

6.2.2.14 CD

211401	ISDN ref. to: ETS 300 207-1 [14] subclause 9.2.2, subclause 9.2.4.5, subclause 9.2.5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CD/211401	
Selection criteria:	CD; Network provider option "served user call retention on invocation of diversion" is "clear call on invocation". 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 Call Received call state N07, 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 = PIXIT	
Comments:		

211402	ISDN ref. to: ETS 300 207-1 [14] subclause 9.2.2, subclause 9.2.4.5, subclause 9.2.5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CD/211402	
Selection criteria:	CD; Network provider option "served user call retention on invocation of diversion" is "clear call on invocation". 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" = No, with diverted-to number, "diverting number is released to the diverted-to user" = No).	
Test purpose:	Ensure that when user A calls user B and user B invoke CD (with the address of user C) during the Call Received call state N07, the call is deflected to user C, user A is notified of call diversion and not informed of the diverted-to number and user C is not informed of the forwarding number.	
Parameter values:	BC = PIXIT	
Comments:		

211403	ISDN ref. to: ETS 300 207-1 [14], subclause 9.2.2, subclause 9.2.4.5, subclause 9.2.5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CD/211403	
Selection criteria:	CD; Network provider option "served user call retention on invocation of diversion" is "clear call on invocation". 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 Proceeding call state N09, 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 = PIXIT	
Comments:		

211404	ISDN ref. to: ETS 300 207-1 [14], subclause 9.2.2, subclause 9.2.4.5, subclause 9.2.5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CD/211404	
Selection criteria:	CD; Network provider option "served user call retention on invocation of diversion" is "clear call on invocation". 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 Overlap Receiving call state N25, 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 = PIXIT	
Comments:		

211405	ISDN ref. to: ETS 300 207-1 [14], subclause 9.2.2, subclause 9.2.4.5, subclause 9.2.5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CD/211405	
Selection criteria:	CD; Network provider option "served user call retention on invocation of diversion" is "retain call until alerting begins at diverted-to user". 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 Received call state N07, 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 = PIXIT	
Comments:		

211406	ISDN ref. to: ETS 300 207-1 [14], subclause 9.2.2, subclause 9.2.4.5, subclause 9.2.5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CD/211406	
Selection criteria:	CD; Network provider option "served user call retention on invocation of diversion" is "retain call until alerting begins at diverted-to user". 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" = No, with diverted-to number, "diverting number is released to the diverted-to user" = No).	
Test purpose:	Ensure that when user A calls user B and user B invoke CD (with the address of user C) during Call Received call state N07, the call is deflected to user C, user A is notified of call diversion and not informed of the diverted-to number and user C is not informed of the forwarding number.	
Parameter values:	BC = PIXIT	
Comments:		

211407	ISDN ref. to: ETS 300 207-1 [14], subclause 9.2.2, subclause 9.2.4.5, subclause 9.2.5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CD/211407	
Selection criteria:	CD; Network provider option "served user call retention on invocation of diversion" is "retain call until alerting begins at diverted-to user". 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 Incoming Call Proceeding call state N09, 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 = PIXIT	
Comments:		

211408	ISDN ref. to: ETS 300 207-1 [14], subclause 9.2.2, subclause 9.2.4.5, subclause 9.2.5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CD/211408	
Selection criteria:	CD; Network provider option "served user call retention on invocation of diversion" is "retain call until alerting begins at diverted-to user". 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 Overlap Receiving call state N25, 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 = PIXIT	
Comments:		

211409	ISDN ref. to: ETS 300 207-1 [14], subclause 9.2.2, subclause 9.2.4.5, subclause 9.2.5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CD/211409	
Selection criteria:	CD; Network provider option "served user call retention on invocation of diversion" is "clear call on invocation".	
Test purpose:	Ensure that when user A calls user B, the call is released correctly if CD was not successful. User A calls user B, and user B invoke CD (with the address of user C) during Call Received call state N07, the call is deflected to user C who is user determined user busy.	
Parameter values:	BC = PIXIT	
Comments:		

211410	ISDN ref. to: ETS 300 207-1 [14], subclause 9.2.2, subclause 9.2.4.5, subclause 9.2.5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CD/211410	
Selection criteria:	CD; Network provider option "served user call retention on invocation of diversion" is "clear call on invocation".	
Test purpose:	Ensure that when user A calls user B, the call is released correctly if CD was not successful. User A calls user B, and user B invoke CD (with the address of user C) during Incoming Call Proceeding call state N09, the call is deflected to user C who is user determined user busy.	
Parameter values:	BC = PIXIT	
Comments:		

211411	ISDN ref. to: ETS 300 207-1 [14], subclause 9.2.2, subclause 9.2.4.5, subclause 9.2.5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CD/211411	
Selection criteria:	CD; Network provider option "served user call retention on invocation of diversion" is "clear call on invocation".	
Test purpose:	Ensure that when user A calls user B, the call is released correctly if CD was not successful. User A calls user B, and user B invoke CD (with the address of user C) during Overlap Receiving call state N25, the call is deflected to user C who is user determined user busy.	
Parameter values:	BC = PIXIT	
Comments:		

211412	ISDN ref. to: ETS 300 207-1 [14], subclause 9.2.2, subclause 9.2.4.5, subclause 9.2.5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CD/211412	
Selection criteria:	CD; Network provider option "served user call retention on invocation of diversion" is "retain call until alerting begins at diverted-to user".	
Test purpose:	Ensure that when user A calls user B, the call is released correctly if CD was not successful. User A calls user B, and user B invoke CD (with the address of user C) during Call Received call state N07, the call is deflected to user C who is user determined user busy.	
Parameter values:	BC = PIXIT	
Comments:		

211413	ISDN ref. to: ETS 300 207-1 [14], subclause 9.2.2, subclause 9.2.4.5, subclause 9.2.5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CD/211413	
Selection criteria:	CD; Network provider option "served user call retention on invocation of diversion" is "retain call until alerting begins at diverted-to user".	
Test purpose:	Ensure that when user A calls user B, the call is released correctly if CD was not successful. User A calls user B, and user B invoke CD (with the address of user C) during Incoming Call Proceeding call state N09, the call is deflected to user C who is user determined user busy.	
Parameter values:	BC = PIXIT	
Comments:		

211414	ISDN ref. to: ETS 300 207-1 [14], subclause 9.2.2, subclause 9.2.4.5, subclause 9.2.5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CD/211414	
Selection criteria:	CD; Network provider option "served user call retention on invocation of diversion" is "retain call until alerting begins at diverted-to user".	
Test purpose:	Ensure that when user A calls user B, the call is released correctly if CD was not successful. User A calls user B, and user B invoke CD (with the address of user C) during Overlap Receiving call state N25, the call is deflected to user C who is user determined user busy.	
Parameter values:	BC = PIXIT	
Comments:		

6.2.2.15 FPH

211501	ISDN ref. to: ETS 300 210-1 [15], subclause 9.2.2.1	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/FPH/211501	
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 = PIXIT	
Comments:		

6.2.2.16 MCID

211601	ISDN ref. to: ETS 300 130-1 [16], subclause 9.2.1	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/MCID/211601	
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 = PIXIT	
Comments:		

211602	ISDN ref. to: ETS 300 130-1 [16], subclause 9.2.1	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/MCID/211602	
Selection criteria:	The called user is provided with MCID	
Test purpose:	Ensure that if MCID in invoked by the called user in the Disconnect Indication call state, the call is registered.	
Parameter values:	BC = PIXIT	
Comments:		

6.2.2.17 3PTY

211701	ISDN ref. to: ETS 300 188-1 [17], subclause 9.2	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/3PTY/211701	
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 release the Active-Idle connection (A-C). After the completion of the Retrieve function, the call clearing procedure is performed from user A.	
Parameter values:	BC = speech	
Comments:	User A calls user B (with CRx). After initiating of call hold, the call A-B has an Active-Held connection. User A is calling user C (with the CRy). The call (A-C) has an Active-Idle connection. When user A sends a FACILITY message for CRx containing a facility IE with a Begin3PTY invoke component the network shall respond with a FACILITY message containing a facility IE with a Begin3PTY return result component for CRx. User B and C shall receive a NOTIFY message containing a Notification Indicator IE with a notification description of "Conference established". The three-way bridge is established. On receipt of a DISCONNECT message from the user A relating to the Active-Idle connection (CRy) the network shall clear the call to user C with a DISCONNECT message. After the release of the three-way bridge the network is sending to the remote user B the notification "Remote hold". When user A sends a RETRIEVE message for CRx the network shall send a NOTIFY message to user B containing a Notification indicator IE with a notification description of "Conference disconnected". User A shall receive a RETRIEVE ACKNOWLEDGE message. The call A-B has an Active-Idle connection. The call clearing procedure is performed from user A with a DISCONNECT message.	

211702	ISDN ref. to: ETS 300 188-1 [17], subclause 9.2, Figure A.2	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/3PTY/211702	
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 release the Active-Held connection (A-B). The call clearing procedure is performed from user A.	
Parameter values:	BC = speech	
Comments:	User A calls user B (with CRx). After initiating of call hold, the call A-B has an Active-Held connection. User A is calling user C (with the CRy). The call (A-C) has an Active-Idle connection. When user A sends a FACILITY message for CRx containing a facility IE with a Begin3PTY invoke component the network shall respond with a FACILITY message containing a facility IE with a Begin3PTY return result component for CRx. User B and C shall receive a NOTIFY message containing a Notification Indicator IE with a notification description of "Conference established". The three-way bridge is established. On receipt of a DISCONNECT message from the user A relating to the Active-Held connection (CRx) the network shall clear the call to user B with a DISCONNECT message. After the release of the three-way bridge the network is sending to the remote user C a NOTIFY message containing a Notification indicator IE with a notification description of "Conference disconnected". The call A-C has an Active-Idle connection. The call clearing procedure is performed from user A with a DISCONNECT message.	

211703	ISDN ref. to: ETS 300 188-1 [17], subclause 9.2	Other relevant ref.: Figure 2-8/Q.734.2 [41] – User B disconnects
TSS reference:	ISDN-ISDN/Supplementary_services/3PTY/211703	
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 user B sends disconnect during the Three-Party communication.	
Parameter values:	BC = speech	
Comments:		

211704	ISDN ref. to: ETS 300 188-1 [17], subclause 9.2	Other relevant ref.: Figure 2-9/Q.734.2 [41] – User C disconnects
TSS reference:	ISDN-ISDN/Supplementary_services/3PTY/211704	
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 user C sends disconnect during the Three-Party communication.	
Parameter values:	BC = speech	
Comments:		

211705	ISDN ref. to: ETS 300 188-1 [17], subclause 9.2	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/3PTY/211705	
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 release of both remote users, user C is released first.	
Parameter values:	BC = speech	
Comments:	User A calls user B (with CRx). After initiating of call hold, the call A-B has an Active-Held connection. User A is calling user C (with the CRy). The call (A-C) has an Active-Idle connection. When user A sends a FACILITY message for CRx containing a facility IE with a Begin3PTY invoke component the network shall respond with a FACILITY message containing a facility IE with a Begin3PTY return result component for CRx. User B an C receive a NOTIFY message containing a Notification Indicator IE with a notification description of "Conference established". The three-way bridge is established. On receipt of a DISCONNECT message from the user A relating to the Active-Idl connection (CRy) the network shall clear the call to user C with a DISCONNECT message. After the release of the three-way bridge the network is sending to the remote user B the notification "Remote hold". On receipt of a DISCONNECT message from the user A relating to the Active-Held connection (CRx) the network shall clear the call to user B with a DISCONNECT message.	

211706	ISDN ref. to: ETS 300 188-1 [17], subclause 9.2	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/3PTY/211706	
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 create a private communication with user B. The call clearing procedure is performed from user A	
Parameter values:	BC = speech	
Comments:	User A calls user B (with CRx). After initiating of call hold, the call A-B has an Active-Held connection. User A is calling user C (with the CRy). The call (A-C) has an Active-Idle connection. When user A sends a FACILITY message for CRx containing a facility IE with a Begin3PTY invoke component the network shall respond with a FACILITY message containing a facility IE with a Begin3PTY return result component for CRx. User B an C receive a NOTIFY message containing a Notification Indicator IE with a notification description of "Conference established". The three-way bridge is established. The served user shall send an End3PTY invoke component to the network in a FACILITY message with that CRx. On receiving such an invoke component in a FACILITY message, the network shall: i) remove the three-way bridge from both the Active-Idle connection and the Active-Held connection; ii) release the three-way bridge; iii) return to the served user an End3PTY return result component, within a FACILITY message using the CRx of the Active-Held connection; iv) send a NOTIFY message to the remote user with which private communication is required containing a Notification indicator information element with a notification description of "Remote hold"; and, v) send a NOTIFY message to the other remote user containing a Notification indicator information element with a notification description of "Conference disconnected". When the served user receives a correctly encoded End3PTY return result component, within a FACILITY message, the user shall accept the provided information and shall: i) use the CR relating to the Active-Idle connection, perform the Hold function ii) use the CR relating to the Active-Held connection, perform the Retrieve function The network shall complete the Hold and Retrieve functions. On successful completion of the Hold function (i.e. the HOLD ACKNOWLEDGE message is sent) the network shall send a NOTIFY message, to the remote user that is not to be included in the private communication, containing a Notification indicator information element with a notification description of "Remote hold". On successful completion of the Retrieve function (i.e. RETRIEVE ACKNOWLEDGE message is sent) the network shall send a NOTIFY message, to the remote user for whom private communication is desired, containing a Notification indicator information element with a notification description of "Conference disconnected". (A Notification indicator information element with a notification description of "Remote retrieval" is not sent to the remote user under these circumstances.) As a result of the procedures of this item of this subclause, the call state of the connections, at both the network and the served user, is unchanged. The auxiliary state of the connection of the private communication changes from Call Held to Idle. The auxiliary state of the other connection changes from Idle to Call Held. The call clearing procedure is performed from user A with a DISCONNECT message.	

211707	ISDN ref. to: ETS 300 188-1 [17], subclause 9.2	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/3PTY/211707	
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 create a private communication with user C. The call clearing procedure is performed from user A	
Parameter values:	BC = speech	
Comments:	User A calls user B (with CRx). After initiating of call hold, the call A-B has an Active-Held connection. User A is calling user C (with the CRy). The call (A-C) has an Active-Idle connection. When user A sends a FACILITY message for CRx containing a facility IE with a Begin3PTY invoke component the network shall respond with a FACILITY message containing a facility IE with a Begin3PTY return result component for CRx. User B and C receive a NOTIFY message containing a Notification Indicator IE with a notification description of "Conference established". The three-way bridge is established. If the remote user, for which a private communication is required, is identified at the served user by the CRy relating to the Active-Idle connection, the served user shall send an End3PTY invoke component to the network in a FACILITY message with that CRy. On receiving such an invoke component in a FACILITY message, the network shall: i) remove the three-way bridge from both the Active-Idle connection and the Active-Held connection; ii) release the three-way bridge; iii) return to the served user an End3PTY return result component, within a FACILITY message, using the CRy of the Active-Idle connection; iv) send a NOTIFY message to both remote users containing a Notification indicator information element with a notification description of "Conference disconnected"; and, v) send to the remote user for which private communication is not required, either in the same NOTIFY message as (iv), or in a subsequent NOTIFY message, a Notification indicator information element with a notification description of "Remote hold". If any intervening protocol between the network of the served user and the network of the remote user does not support transmission of two notification descriptions in the same message, then this should be mapped at that point to a message containing a single notification description of "Conference disconnected", and a subsequent message containing a notification description of "Remote hold". When the served user receives a correctly encoded End3PTY return result component, within a FACILITY message, the user shall accept the provided information and take no further action. As a result of the procedures of this item of this subclause, the call state and the auxiliary state of the connections, at both the network and the served user, are unchanged. The call clearing procedure is performed from user A with a DISCONNECT message	

6.2.2.18 HOLD

211801	ISDN ref. to: ETS 300 141-1 [18], subclause 7	Other relevant ref.: ETS 300 196-1 [42], subclause 7.1
TSS reference:	ISDN-ISDN/Supplementary_services/HOLD/211801	
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:		

211802	ISDN ref. to: ETS 300 141-1 [18], subclause 7	Other relevant ref.: ETS 300 196-1 [42], subclause 7.1
TSS reference:	ISDN-ISDN/Supplementary_services/HOLD/211802	
Selection criteria:	The calling user is provided with HOLD	
Test purpose:	Ensure that the calling user can initiate Call Hold, the called remote user is notified of call hold and that the call can be released from the calling user during the held state.	
Parameter values:	BC = speech	
Comments:		

211803	ISDN ref. to: ETS 300 141-1 [18], subclause 7	Other relevant ref.: ETS 300 196-1 [42], subclause 7.1
TSS reference:	ISDN-ISDN/Supplementary_services/HOLD/211803	
Selection criteria:	The calling user is provided with HOLD	
Test purpose:	Ensure that the calling user can initiate Call Hold, the called remote user is notified of call hold and that the call can be released from the called user in the held state.	
Parameter values:	BC = speech	
Comments:		

6.2.2.19 CW

211901	ISDN ref. to: ETS 300 058-1 [19], subclause 7	Other relevant ref.: EN 300 403-1 [1] subclause 4.5.2.1
TSS reference:	ISDN-ISDN/Supplementary_services/CW/211901	
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 = PIXIT	
Comments:		

211902	ISDN ref. to: ETS 300 058-1 [19], subclause 7	Other relevant ref.: EN 300 403-1 [1] subclause 4.5.2.1
TSS reference:	ISDN-ISDN/Supplementary_services/CW/211902	
Selection criteria:	The called user is provided with CW, notification allowed	
Test purpose:	Ensure that the Waiting call is released with "call rejected"	
Parameter values:	BC = PIXIT	
Comments:		

211903	ISDN ref. to: ETS 300 058-1 [19], subclause 7	Other relevant ref.: EN 300 403-1 [1] subclause 4.5.2.1
TSS reference:	ISDN-ISDN/Supplementary_services/CW/211903	
Selection criteria:	The called user is provided with CW, notification allowed	
Test purpose:	Ensure that the Waiting call is released at the terminating exchange after timer expired	
Parameter values:	BC = PIXIT	
Comments:		

6.2.2.20 ECT

212001	ISDN ref. to: ETS 300 369-1 [21], subclause 9.2.1, subclause 9.2.3, subclause 9.2.4	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/ECT/212001	
Selection criteria:	ECT using implicit linkage, (A-B Active, Call Held) – Transfer after answer	
Test purpose:	User A is in network N1 and is provided with ECT using implicit linkage. User B and user C are in network N2. Ensure that when user A invokes ECT in which the call **A-B** is in the **Active call state – Call Held auxiliary state** and the call **A-C** is in the **Active call state** a connection between user B and user C is established and the calls A-B and A-C are released. The call clearing procedure of the B-C connection is performed from user B. (user B and user C have presentation allowed – no COLR) –	
Parameter values:	BC = PIXIT	
Comments:	In order to transfer the two calls into one call between user B and user C using the implicit linkage procedure, the call **A-B** is in the **Active call state – Call Held auxiliary state** and the call **A-C** is in the **Active call state** User A shall send a FACILITY message with the call reference of the call in the Call Held auxiliary state and with a Facility information element containing an EctExecute invoke component. If the request for call transfer is accepted, network A shall: - through-connect between the networks of user B and user C; - send a DISCONNECT message with the call reference of the call on which the EctExecute invoke component was received, and with a Facility information element containing an EctExecute return result component. When call transfer is indicated to the remote networks while the call to user C is in the Active call state: - network C shall send a FACILITY message to user C with a Notification indicator information element carrying information about the transfer and a Redirection number information element containing the ISDN number of user B (subject to restriction) and a Facility information element containing a RequestSubaddress invoke component. The network B shall send a FACILITY message to user B with a Notification indicator information element carrying information about the transfer and a Redirection number information element containing the ISDN number of user C (subject to restriction) and a Facility information element containing a RequestSubaddress invoke component. When user C receives a RequestSubaddress invoke component, user C may send a FACILITY message to network C with a Facility information element containing the C user's subaddress in a SubaddressTransfer invoke component. This indication shall be passed by network C to network B. On receipt of this indication, network B shall send a FACILITY message to user B with a Facility information element containing the SubaddressTransfer invoke component, with user C's subaddress. When user B receives a RequestSubaddress invoke component, user B may send a FACILITY message to network B with a Facility information element containing the B user's subaddress in a SubaddressTransfer invoke component. This indication shall be passed by network B to network C. On receipt of this indication, network C shall send a FACILITY message to user C with a Facility information element containing the SubaddressTransfer invoke component, with user B's subaddress.	

212002	ISDN ref. To: ETS 300 369-1 [21], subclause 9.2.1, subclause 9.2.3, subclause 9.2.4	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/ECT/212002	
Selection criteria:	ECT using implicit linkage, (A-C Active, Call Held) – Transfer after answer	
Test purpose:	User A is in network N1 and is provided with ECT using implicit linkage. User B and user C are in network N2. Ensure that when user A invokes ECT in which the call **A-B** is in the **Active call sate** and the call **A-C** is in the **Active call state – Call Held auxiliary state,** a connection between user B and user C is established and the calls A-B and A-C are released. The call clearing procedure of the B-C connection is performed from user C. (user B and user C have presentation restricted – COLR).	
Parameter values:	BC = PIXIT	
Comments:	In order to transfer the two calls into one call between user B and user C using the implicit linkage procedure, **A-B** is in the **Active call sate** and the call **A-C** is in the **Active call state – Call Held auxiliary state.** User A shall send a FACILITY message with the call reference of the call in the Call Held auxiliary state and with a Facility information element containing an EctExecute invoke component. If the request for call transfer is accepted, network A shall: - through-connect between the networks of user B and user C; - send a DISCONNECT message with the call reference of the call on which the EctExecute invoke component was received, and with a Facility information element containing an EctExecute return result component. When call transfer is indicated to the remote networks while the call to user B is in the Active call state: - network B shall send a FACILITY message to user B with a Notification indicator information element carrying information about the transfer and a Redirection number information element containing the ISDN number of user C (subject to restriction) and a Facility information element containing a RequestSubaddress invoke component. The network C shall send a FACILITY message to user C with a Notification indicator information element carrying information about the transfer and a Redirection number information element containing the ISDN number of user B (subject to restriction) and a Facility information element containing a RequestSubaddress invoke component. When user B receives a RequestSubaddress invoke component, user B may send a FACILITY message to network C with a Facility information element containing the B user's subaddress in a SubaddressTransfer invoke component. This indication shall be passed by network B to network C. On receipt of this indication, network C shall send a FACILITY message to user C with a Facility information element containing the SubaddressTransfer invoke component, with user B's subaddress. When user C receives a RequestSubaddress invoke component, user C may send a FACILITY message to network C with a Facility information element containing the C user's subaddress in a SubaddressTransfer invoke component. This indication shall be passed by network C to network B. On receipt of this indication, network B shall send a FACILITY message to user B with a Facility information element containing the SubaddressTransfer invoke component, with user C's subaddress.	

212003	ISDN ref. To: ETS 300 369-1 [21], subclause 9	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/ECT/212003	
Selection criteria:	ECT using implicit linkage, (A-C Alerting) – Transfer while alerting	
Test purpose:	User A is in network N1 and is provided with ECT using implicit linkage. User B and user C are in network N2. Ensure that when user A invokes ECT in which the call **A-B** is in the **Active call state – Call Held auxiliary state** and the call **A-C** is in the **Call Delivered State** a connection between user B and user C is established and the calls A-B and A-C are released. When network C receives a CONNECT message from user C, network C shall proceed with the basic call procedure for the user C. The call clearing procedure of the B-C connection is performed from user B.	
Parameter values:	BC = PIXIT	
Comments:	When call transfer is indicated to the remote networks while the call to user C is in the Call Delivered call state: - network B shall send a FACILITY message to user B, with a Notification indicator information element carrying information about the transfer and a Facility information element containing a RequestSubaddress invoke component. - network C shall send a NOTIFY message to user C, with a Notification indicator information element carrying information about the transfer and a Redirection number information element containing the ISDN number of user B (subject to restriction). If a point-to-multipoint configuration exists at user C's interface, the network shall send a NOTIFY message to each responding user. When user B receives a RequestSubaddress invoke component, user B may send a FACILITY message to network B with a Facility information element containing the B user's subaddress in a SubaddressTransfer invoke component. This indication shall be passed by network B to network C. On receipt of this indication, network C shall send a FACILITY message according to the procedures of subclause 8.3.1.1 of EN 300 196-1 [42] to user C with a Facility information element containing the SubaddressTransfer invoke component with user B's subaddress. If a point-to-multipoint configuration exists at user C's interface, network C shall send a FACILITY message to each responding user. When network C receives a CONNECT message from user C, network C shall proceed with basic call procedures for user C. On receipt of the indication that the call to user C has been established, network B shall: - if user C has provided a subaddress and the address is not subject to restriction, network B shall send a FACILITY message to user B with a Notification indicator information element carrying information about the transfer, a Redirection number information element containing the ISDN number of user C and a Facility information element containing the SubaddressTransfer invoke component with user C's subaddress. If user C has not provided a subaddress, or the address is subject to restriction, network B shall send a NOTIFY message to user B with a Notification indicator information element carrying information about the transfer, and a Redirection number information element containing the ISDN number of user C information (subject to restriction).	

212004	ISDN ref. to: ETS 300 369-1 [21], subclause 9	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/ECT/212004	
Selection criteria:	ECT using implicit linkage, (A-C Alerting, Call Held) – Transfer while alerting	
Test purpose:	User A is in network N1 and is provided with ECT using implicit linkage. User B and user C are in network N2. Ensure that when user A invokes ECT in which the call **A-B** is in the **Active call state** and the call **A-C** is in the **Call Delivered State – Call Held auxiliary state,** a connection between user B and user C is established and the calls A-B and A-C are released. When network C receives a CONNECT message from user C, network C shall proceed with the basic call procedure for the user C. The call clearing procedure of the B-C connection is performed from user C.	
Parameter values:	BC = PIXIT	
Comments:		

212005	ISDN ref. to: ETS 300 369-1 [21], subclause 9.2.1, subclause 9.2.3, subclause 9.2.4	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/ECT/212005	
Selection criteria:	ECT using **explicit linkage,** (A-B Active, Call Held) – Transfer after answer	
Test purpose:	User A is in network N1 and is provided with ECT using explicit linkage. User B and user C are in network N2. Ensure that when user A invokes ECT in which the call **A-B** is in the **Active call state - Call Held auxiliary state** and the call **A-C** is in the **Active call state** a connection between user B and user C is established and the calls A-B and A-C are released. The call clearing procedure of the B-C connection is performed from user B. (user B and user C have presentation allowed - no COLR)	
Parameter values:	BC = PIXIT	
Comments:		

212006	ISDN ref. to: ETS 300 369-1 [21], subclause 9	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/ECT/212006	
Selection criteria:	ECT using explicit linkage (A-C Alerting) – Transfer while alerting	
Test purpose:	User A is in network N1 and is provided with ECT using explicit linkage. User B and user C are in network N2. Ensure that when user A invokes ECT in which the call **A-B** is in the **Active call state - Call Held auxiliary state** and the call **A-C** is in the **Call Delivered State** a connection between user B and user C is established and the calls A-B and A-C are released. When network C receives a CONNECT message from user C, network C shall proceed with the basic call procedure for the user C. The call clearing procedure of the B-C connection is performed from user B.	
Parameter values:	BC = PIXIT	
Comments:		

212007	ISDN ref. to: ETS 300 369-1 [21], subclause 9	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/ECT/212007	
Selection criteria:	ECT using explicit linkage, (A-C Alerting, Call Held) – Transfer while alerting	
Test purpose:	User A is in network N1 and is provided with ECT using explicit linkage. User B and user C are in network N2. Ensure that when user A invokes ECT in which the call **A-B** is in the **Active call state** and the call **A-C** is in the **Call Delivered State – Call Held auxiliary state,** a connection between user B and user C is established and the calls A-B and A-C are released. When network C receives a CONNECT message from user C, network C shall proceed with the basic call procedure for the user C. The call clearing procedure of the B-C connection is performed from user C.	
Parameter values:	BC = PIXIT	
Comments:		

212008	ISDN ref. to: ETS 300 369-1 [21], subclause 10, Figure A.11	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/ECT/212008	
Selection criteria:	• ECT • Served user in private ISDN, Call transfer performed in the public ISDN after answer	
Test purpose:	User A is in the private network, Call transfer performed in the public N1 provided with ECT. User B and user C are in network N2. Ensure that when user A invokes ECT in which the calls **A-B** and **A-C** are in the **Active call state** a connection between user B and user C is established and the calls A-B and A-C are released. The call clearing procedure of the B-C connection is performed from user B.	
Parameter values:	BC = PIXIT	
Comments:		

212009	ISDN ref. to: ETS 300 369-1 [21], subclause 10, Figure A.12	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/ECT/212009	
Selection criteria:	• ECT • Served user in private ISDN, Call transfer performed in the public ISDN	
Test purpose:	User A is in the private network, Call transfer performed in the public N1 provided with ECT. User B and user C are in network N2. Ensure that when user A invokes ECT in which the call **A-B** is in the **Active call state** and the call **A-C** is in the **Call Delivered State** a connection between user B and user C is established and the calls A-B and A-C are released. When network C receives a CONNECT message from user C, network C shall proceed with the basic call procedure for the user C. The call clearing procedure of the B-C connection is performed from user B.	
Parameter values:	BC = PIXIT	
Comments:		

212010	ISDN ref. to: ETS 300 369-1 [21], subclause 10	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/ECT/212010	
Selection criteria:	• ECT (A-B Active, Call Held) – Transfer after answer • The serverd user A and the remote user C belongs to a private ISDN	
Test purpose:	User A and use C are in network N1. User A is provided with ECT. User B is in network N2. Ensure that when user A invokes ECT in which the calls **A-B** and **A-C** are in the **Active call state** a connection between user B and user C is established and the calls A-B and A-C are released. The call clearing procedure of the B-C connection is performed from user B.	
Parameter values:	BC = PIXIT	
Comments:		

212011	ISDN ref. to: ETS 300 369-1 [21], §10	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/ECT/212011	
Selection criteria:	• ECT using implicit linkage, (A-C Active, Call Held) – Transfer after answer • User B and C are connected to a private ISDN	
Test purpose:	User A is in network N1 and is provided with ECT using implicit linkage. User B and user C are in network N2. Ensure that when user A invokes ECT in which the call **A-B** is in the **Active call sate** and the call **A-C** is in the **Active call state – Call Held auxiliary state,** a connection between user B and user C is established and the calls A-B and A-C are released. The call clearing procedure of the B-C connection is performed from user C.	
Parameter values:	BC = PIXIT	
Comments:	After transfer, the public network shall send a FACILITY message to the private network using the call reference of the call to the private network user. The FACILITY message shall contain a Facility information element with an EctInform invoke component indicating other call is "active" and containing the redirectionNumber parameter. If the private network wants to send its user's subaddress to the other user, the private network shall send a FACILITY message with a Facility information element containing the SubaddressTransfer invoke component with the subaddress to the public network. The public network shall convey the subaddress to the other user by sending a FACILITY message that user or to the private network depending on the user's location. If transfer occurs before call completion, then when the public network is informed that the other remote user has answered the call, the public network shall send a FACILITY message to the private network using the call reference of the call to the remote user. The FACILITY message shall contain: - a Facility information element with an EctInform invoke component indicating the other call is "active" and containing the redirectionNumber parameter; - a Facility information element with a SubaddressTransfer invoke component indicating the subaddress supplied by the other user, if available and not restricted. When the public network includes an EctInform invoke component containing a redirectionNumber parameter, the field shall be processed as defined for the equivalent fields in the Calling party number information element.	

212012	ISDN ref. to: ETS 300 369-1 [21], subclause 9	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/ECT/212012	
Selection criteria:	• ECT using implicit linkage, (A-C Alerting) – Transfer while alerting • User B and C are connected to a private ISDN	
Test purpose:	User A is in network N1 and is provided with ECT using implicit linkage. User B and user C are in network N2. Ensure that when user A invokes ECT in which the call **A-B** is in the **Active call state – Call Held auxiliary state** and the call **A-C** is in the **Call Delivered State** a connection between user B and user C is established and the calls A-B and A-C are released. When network C receives a CONNECT message from user C, network C shall proceed with the basic call procedure for the user C. The call clearing procedure of the B-C connection is performed from user B.	
Parameter values:	BC = PIXIT	
Comments:		

6.2.2.21 CCBS

212101	ISDN ref. to: EN 300 359-1 [43]	Other relevant ref.: ETS 300 356-1 [20]
TSS reference:	ISDN-ISDN/Supplementary_services/CCBS/212101	
Selection criteria:	• OLE and DLE are supporting the CCBS supplementary service and this supplementary service is available to user A • Signalling procedures at the coincident S and T reference point • recall option = PIXIT • User A is in network N1, user B is in network N2.	
Test purpose:	Ensure that user A can establish a successful CCBS call setup if a multipoint configuration exits.	
Parameter values:	BC = PIXIT	
Comments:	The network N1 in the Disconnect Indication call state N12 and CCBS Idle state and Retention Active state for CCBS, on receipt of a FACILITY message containing a Facility information element with a CCBSRequest invoke component including the CallLinkageID, sends a FACILITY message containing a Facility information element with a CCBSRequest return result component including the CCBSReference and recallMode. The network N1 in the Null call state N00 and CCBS Activated state in order to indicate that it is prepared for establishment of the requested call, sends a FACILITY message (UI frame) containing a Facility information element with a CCBSRemoteUserFree invoke component including the recallMode, cCBSReference, addressOfB and q931InfoElement. The network in the Null call state N00 and CCBS Free state, on receipt of a SETUP message containing Bearer capability information element(s) from the original call and a Facility information element with a CCBSCall invoke component including the CCBSReference from the previously sent CCBSRemoteUserFree invoke component, continues en-bloc basic call procedures using the retained call information and moves to call state N01.	

212102	ISDN ref. to: EN 300 359-1 [43], subclause 9.4.3.1, subclause 9.4.4.1	Other relevant ref.: ETS 300 356-1 [20]
TSS reference:	ISDN-ISDN/Supplementary_services/CCBS/212102	
Selection criteria:	- OLE and DLE are supporting the CCBS supplementary service and this supplementary service is available to user A - Signalling procedures at the coincident S and T reference point - User A is in network N1, user B is in network N2.	
Test purpose:	Ensure that user A in the call proceeding call state and in the CCBS Call init state, when user B has responded to the call with a ALERTING message User A receives an ALERTING message followed by a FACILITY message containing a Facility information element with a cCBSErase invoke indication cCBSEraseReason "normal-unspecified".	
Parameter values:	BC = PIXIT	
Comments:	The network N1 in the Outgoing call proceeding call state N03 and CCBS Call Init state, to indicate that user B has responded to the call with an ALERTING message, sends an ALERTING message followed by a FACILITY message containing a Facility information element with a cCBSErase invoke indicating cCBSEraseReason "normal-unspecified" and enters the call state N04.	

212103	ISDN ref. to: EN 300 359-1 [43], subclause 9.4.3.1, subclause 9.4.4.1	Other relevant ref.: ETS 300 356-1 [20]
TSS reference:	ISDN-ISDN/Supplementary_services/CCBS/212103	
Selection criteria:	• OLE and DLE are supporting the CCBS supplementary service and this supplementary service is available to user A • Signalling procedures at the coincident S and T reference point • User A is in network N1, user B is in network N2.	
Test purpose:	Ensure that user A in the call proceeding call state and in the CCBS Call init state, when user B has responded to the call with a CONNECT message, user A receives a CONNECT message followed by a FACILITY message containing a Facility information element with a cCBSErase invoke indication cCBSEraseReason "normal-unspecified.	
Parameter values:	BC = PIXIT	
Comments:	The network N1 in the Outgoing call proceeding call state N03 and CCBS Call Init state, to indicate that user B has responded to the call with a CONNECT message, sends a CONNECT message followed by a FACILITY message containing a Facility information element with a cCBSErase invoke indicating cCBSEraseReason "normal-unspecified" and enters the call state N10.	

212104	ISDN ref. to: EN 300 359-1 [43], subclause 9.2.1, subclause 9.4.4.1	Other relevant ref.: ETS 300 356-1 [20]
TSS reference:	ISDN-ISDN/Supplementary_services/CCBS/212104	
Selection criteria:	• OLE and DLE are supporting the CCBS supplementary service and this supplementary service is available to user A • Signalling procedures at the coincident S and T reference point • User A is in network N1, user B is in network N2.	
Test purpose:	Ensure that when the network A is in the call state N00 and **CCBS Activated state** the user can initiate the user can initiate the deactivation procedure.	
Parameter values:	BC = PIXIT	
Comments:	Ensure that the user (when the network A is in the call state N00 and **CCBS Activated state**), on receipt of a FACILITY message containing a Facility information element with a CCBSDeactivate invoke component including the correct CCBSReference parameter, sends to user A a FACILITY message containing a Facility information element with a CCBSDeactivate return result component with CCBSEraseReason indicating "normal-unspecified" and a Facility message containing a Facility information element with a CCBSerase invoke component.	

212105	ISDN ref. to: EN 300 359-1 [43]	Other relevant ref.: ETS 300 356-1 [20]
TSS reference:	ISDN-ISDN/Supplementary_services/CCBS/212105	
Selection criteria:	• OLE and DLE are supporting the CCBS supplementary service and this supplementary service is available to user A • Signalling procedures at the coincident S and T reference point • User A is in network N1, user B is in network N2.	
Test purpose:	Ensure that when the network A is in the call state N00 and **CCBS free state** the user can initiate the deactivation procedure.	
Parameter values:	BC = PIXIT	
Comments:	Ensure that the user (when the network A is in the call state N00 and **CCBS free state**), on receipt of a FACILITY message containing a Facility information element with a CCBSDeactivate invoke component including the correct CCBSReference parameter, sends to user A a FACILITY message containing a Facility information element with a CCBSDeactivate return result component with CCBSEraseReason indicating "normal-unspecified" and a Facility message containing a Facility information element with a CCBSerase invoke component.	

212106	ISDN ref. to: EN 300 357 [44], subclause 6.3.1.1 EN 300 359-1 [43], subclause 9.1.2	Other relevant ref.: ETS 300 356-1 [20]
TSS reference:	ISDN-ISDN/Supplementary_services/CCBS/212106	
Selection criteria:	• OLEand DLE are supporting the CCBS supplementary service and this supplementary service is available to user A • Signalling procedures at the coincident S and T reference point • User A is in network N1, user B is in network N2.	
Test purpose:	Ensure that network A cannot accept the CCBS request because the CCBS supplementary service is not available to the destination. The user A receives a FACILITY message containing a Facility information element with a CCBSRequest return error component indicating "longTermDenial".	
Parameter values:	BC = PIXIT	
Comments:	In the Disconnect call state and CCBS Idle state and Retain Active State, on receipt of a FACILITY message containing a Facility information element with a CCBSRequest invoke component including the CallLinkageID, but CCBS is not available to the destination, the user A receives a FACILITY message containing a Facility information element with a CCBSRequest return error component indicating "longTermDenial".	

212107	ISDN ref. to: EN 300 357 [44], subclause 6.3.1.1 EN 300 359, subclause 9.1.2	Other relevant ref.: ETS 300 356-1 [20]
TSS reference:	ISDN-ISDN/Supplementary_services/CCBS/212107	
Selection criteria:	• OLEand DLE are supporting the CCBS supplementary service and this supplementary service is available to user A • Signalling procedures at the coincident S and T reference point • User A is in network N1, user B is in network N2.	
Test purpose:	Ensure that network A cannot accept the CCBS request because the CCBS supplementary service is not available to the destination at this time.	
Parameter values:	BC = PIXIT	
Comments:	In the Disconnect call state and CCBS Idle state and Retain Active State, on receipt of a FACILITY message containing a Facility information element with a CCBSRequest invoke component including the CallLinkageID, but CCBS is not available to the destination at this time, the user A receives a FACILITY message containing a Facility information element with a CCBSRequest return error component indicating "shortTermDenial".	

212108	ISDN ref. to: EN 300 359-1 [43]	Other relevant ref.: ETS 300 356-1 [20]
TSS reference:	ISDN-ISDN/Supplementary_services/CCBS/212108	
Selection criteria:	• Network A and network B are supporting the CCBS supplementary service and this supplementary service is available to user A. • Signalling procedures at the coincident S and T reference point	
Test purpose:	Ensure that if network A is informed that user B is not busy and user A is busy, the network A shall inform user A by sending a CCBSFree invoke component to user A and suspend CCBS processing.	
Parameter values:	BC = PIXIT	
Comments:		

212109	ISDN ref. to: EN 300 359-1 [43]	Other relevant ref.: ETS 300 356-1 [20]
TSS reference:	ISDN-ISDN/Supplementary_services/CCBS/212109	
Selection criteria:	• Network A and network B are supporting the CCBS supplementary service and this supplementary service is available to user A. • Signalling procedures at the coincident S and T reference point • Recall option = PIXIT.	
Test purpose:	Ensure that if network A cannot accept the request because no B-cannel can be selected, network A shall suspend the CCBS request at network B.	
Parameter values:	BC = PIXIT	
Comments:	Ensure that network A in the CCBS free state on receipt of SETUP message containing Bearer capability information element from the original call and a Facility information element with a CCBSCall invoke component including the CCBSReference from the previously sent CCBSRemoteUserFree invoke component, when no B-channels can be selected, the network A sends to user a RELEASE COMPLETE with the cause #34 or #43 and moves to call state N00. Furthermore, network A shall suspend the CCBS request at network B.	

212110	ISDN ref. to: EN 300 359-1 [43]	Other relevant ref.: ETS 300 356-1 [20]
TSS reference:	ISDN-ISDN/Supplementary_services/CCBS/212110	
Selection criteria:	• Network A and network B are supporting the CCBS supplementary service and this supplementary service is available to user A. • Signalling procedures at the coincident S and T reference point • The network option "CCBS request retention" is set to "yes"	
Test purpose:	Ensure that if network B cannot establish the call because user B is busy again, network B is proceeding with normal call clearing and Network B shall resume monitoring user B for being not busy.	
Parameter values:	BC = PIXIT	
Comments:	Ensure that the network A in the Outgoing Call Proceeding state and CCBS Call Init State, if network B cannot establish the call because user B is busy again, the network A sends to user A a DISCONNECT not containing a Facility information element with a CCBSErase invoke component. Network B shall resume monitoring user B for being not busy.	

212111	ISDN ref. to: EN 300 359-1 [43]	Other relevant ref.: ETS 300 356-1 [20]
TSS reference:	ISDN-ISDN/Supplementary_services/CCBS/212111	
Selection criteria:	• Network A and network B are supporting the CCBS supplementary service and this supplementary service is available to user A. • Signalling procedures at the coincident S and T reference point • Network option "CCBS request retention" is set to "no" • multipoint configuration	
Test purpose:	Ensure that if network B cannot establish the call because user B is busy again, network B is proceeding with normal call clearing User A can activate the CCBS supplementary service again.	
Parameter values:	BC = PIXIT	
Comments:	Ensure that the network A in the Outgoing Call Proceeding state and CCBS Call Init State, where a **multipoint configuration exists,** if network B cannot establish the call because user B is busy again, the network A sends to user A a DISCONNECT or RELEASE COMPLETE message containing a Facility information element with a CallInfoRetain invoke component including a CallLinkageID sends a FACILITY message (UI frame) containing a Facility information element with a CCBSErase invoke component including CCBSEraseREason encoded as "basic-call-failed. User A can activate the CCBS supplementary service again.	

212112	ISDN ref. to: EN 300 359-1 [43]	Other relevant ref.: ETS 300 356-1 [20]
TSS reference:	ISDN-ISDN/Supplementary_services/CCBS/212112	
Selection criteria:	• Network A and network B are supporting the CCBS supplementary service and this supplementary service is available to user A. • Signalling procedures at the coincident S and T reference point • Network option "CCBS request retention" is set to "no" • multipoint configuration	
Test purpose:	Ensure that the network A in the Outgoing Call Proceeding state and CCBS Call Init State, where a **multipoint configuration exists**, if network B cannot establish the call for **any reason other than the called user is busy,** the network A sends to user A a DISCONNECT message containing a Facility information element with a CallInfoRetain invoke component including a CallLinkageID sends a FACILITY message (UI frame) containing a Facility information element with a CCBSErase invoke component including CCBSEraseREason encoded as "basic-call-failed. User A can activate the CCBS supplementary service again.	
Parameter values:	BC = PIXIT	
Comments:		

212113	ISDN ref. to: EN 300 359-1 [43]	Other relevant ref.: ETS 300 356-1 [20]
TSS reference:	ISDN-ISDN/Supplementary_services/CCBS/212113	
Selection criteria:	• Network A and network B are supporting the CCBS supplementary service and this supplementary service is available to user A. • Signalling procedures at the coincident S and T reference point	
Test purpose:	Ensure that the network A in the Outgoing Call Proceeding state and CCBS Call Init State, where a multipoint configuration exists, on receipt of a DISCONNECT message from the served user the network A sends to user A a RELEASE COMPLETE message and a FACILITY message (UI frame) containing a Facility information element with a CCBSErase invoke component including CCBSEraseREason encoded as "basic-call-failed.	
Parameter values:	BC = PIXIT	
Comments:		

212114	ISDN ref. to: EN 300 359-1 [43],	Other relevant ref.: ETS 300 356-1 [20]
TSS reference:	ISDN-ISDN/Supplementary_services/CCBS/212114	
Selection criteria:	• Network A and network B are supporting the CCBS supplementary service and this supplementary service is available to user A. • Signalling procedures at the coincident S and T reference point	
Test purpose:	Ensure that the network A in the Null call state and CCBS Free state, where a multipoint configuration exists, and the T-CCBS3 expires the network A sends to user A a FACILITY message (UI frame) containing a Facility information element with a CCBSErase invoke component including CCBSEraseREason encoded as "t-CCBS3-timout".	
Parameter values:	BC = PIXIT	
Comments:		

212115	ISDN ref. to: EN 300 359-1 [43]	Other relevant ref.: ETS 300 356-1 [20]
TSS reference:	ISDN-ISDN/Supplementary_services/CCBS/212115	
Selection criteria:	• Network A and network B are supporting the CCBS supplementary service and this supplementary service is available to user A. • Signalling procedures at the **T** reference point at both ends	
Test purpose:	Ensure that network A can initiate a CCBS call to Network B.	
Parameter values:	BC = PIXIT	
Comments:	Ensure that the network A (in the in the Outgoing Call Proceeding and in the CCBS Idle state Null call state) to indicate that user B is busy sends to user A DISCONNECT (or RELEASE COMPLETE) message with cause #17 or #34, containing a Facility information element with CCBS-T-Available invoke component. The network A on receipt of a REGISTER message containing a Facility information element with a CCBS-T-Request invoke component including the retentionSupported parameter set to TRUE receives a FACILITY message with a Facility information element with a CCBS-T-Request return result component including the parameter retentionSupported set to TRUE. To indicate that the destination has become not busy user A receives a FACILITY containing a Facility information element with a CCBS-T-RemoteUserFree invoke component. On receipt of SETUP message containing Bearer capability information element from the original call and a Facility information element with a CCBSCall invoke component including the CCBSReference from the previously sent CCBS-T-RemoteUserFree invoke component, the Network A shall initiate a CCBS call to Network B.	

212116	ISDN ref. to: EN 300 359-1 [43]	Other relevant ref.: ETS 300 356-1 [20]
TSS reference:	ISDN-ISDN/Supplementary_services/CCBS/212116	
Selection criteria:	• Network A and network B are supporting the CCBS supplementary service and this supplementary service is available to user A. • Signalling procedures at the T reference point at both ends	
Test purpose:	Ensure that the public network cannot accept the CCBS request because CCBS is not available to the destination at this time.	
Parameter values:	BC = PIXIT	
Comments:	Ensure that the network A (in the in the Outgoing Call Proceeding and in the CCBS Idle state Null call state) to indicate that user B is busy sends to user A DISCONNECT (or RELEASE COMPLETE) message with cause #17 or #34, containing a Facility information element with CCBS-T-Available invoke component at this time On receipt of a (network A is in the call state N00, CCBS Idle state) REGISTER message containing a Facility information element with a CCBS-T-Request invoke component but the supplementary service CCBS is not available at this time to the destination The user A receives a FACILITY message containing a Facility information element with a CCBSRequest return error component indicating "shortTermDenial" and then receives RELEASE message with cause #31 to clear the signalling connection Or. Receives a RELEASE message with cause #31 containing a Facility information element with a CCBSRequest return error component indicating "shortTermDenial".	

212117	ISDN ref. to: EN 300 359-1 [43]	Other relevant ref.: ETS 300 356-1 [20]
TSS reference:	ISDN-ISDN/Supplementary_services/CCBS/212117	
Selection criteria:	• Network A and network B are supporting the CCBS supplementary service and this supplementary service is available to user A. • Signalling procedures at the T reference point at both ends	
Test purpose:	Ensure that the public network cannot accept the CCBS request because CCBS is not available to the destination.	
Parameter values:	BC = PIXIT	
Comments:	Ensure that the network A (in the in the Outgoing Call Proceeding and in the CCBS Idle state Null call state) to indicate that user B is busy sends to user A DISCONNECT (or RELEASE COMPLETE) message with cause #17 or #34, containing a Facility information element with CCBS-T-Available invoke component. On receipt of a (network A is in the call state N00, CCBS Idle state) REGISTER message containing a Facility information element with a CCBS-T-Request invoke component but the supplementary service CCBS is not available to the destination The user A receives a FACILITY message containing a Facility information element with a CCBSRequest return error component indicating "longTermDenial" and then receives RELEASE message with cause #31 to clear the signalling connection Or Receives a RELEASE message with cause #31 containing a Facility information element with a CCBSRequest return error component indicating "longTermDenial".	

212118	ISDN ref. to: EN 300 359-1 [43]	Other relevant ref.: ETS 300 356-1 [20]
TSS reference:	ISDN-ISDN/Supplementary_services/CCBS/212118	
Selection criteria:	• Network A and network B are supporting the CCBS supplementary service and this supplementary service is available to user A. • Signalling procedures at the T reference point at both ends	
Test purpose:	Ensure that the user in network A which is the CCBS Activated state, in order to deactivate the CCBS request sends a RELEASE message with cause value #31.	
Parameter values:	BC = PIXIT	
Comments:		

212119	ISDN ref. to: EN 300 359-1 [43]	Other relevant ref.: ETS 300 356-1 [20]
TSS reference:	ISDN-ISDN/Supplementary_services/CCBS/212119	
Selection criteria:	• OLE and DLE are supporting the CCBS supplementary service and this supplementary service is available to user A • Signalling procedures at the T reference point at both ends	
Test purpose:	Ensure that user A in the call proceeding call state and in the CCBS Call init state, when user B has responded to the call with a ALERTING followed by a CONNECT message user A receives an ALERTING message followed by a CONNECT message.	
Parameter values:	BC = PIXIT	
Comments:		

212120	ISDN ref. to: EN 300 359-1 [43]	Other relevant ref.: ETS 300 356-1 [20]
TSS reference:	ISDN-ISDN/Supplementary_services/CCBS/212120	
Selection criteria:	• Network A and network B are supporting the CCBS supplementary service and this supplementary service is available to user A. • Signalling procedures at the T reference point at both ends • The network option "CCBS request retention" is set to "yes"	
Test purpose:	Ensure that if network B cannot establish the call because user B is busy again, network B is proceeding with normal call clearing and Network B shall resume monitoring user B for being not busy.	
Parameter values:	BC = PIXIT	
Comments:	Ensure that the network A in the Outgoing Call Proceeding state and CCBS Call Init State, if network B cannot establish the call because user B is busy again, the network A sends to user A a DISCONNECT containing a CCBS-T-Available invoke component. Network B shall resume monitoring user B for being not busy.	

212121	ISDN ref. to: EN 300 359-1 [43]	Other relevant ref.: ETS 300 356-1 [20]
TSS reference:	ISDN-ISDN/Supplementary_services/CCBS/212121	
Selection criteria:	• Network A and network B are supporting the CCBS supplementary service and this supplementary service is available to user A. • Signalling procedures at the T reference point at both ends • Network option "CCBS request retention" is set to "no"	
Test purpose:	Ensure that if network B cannot establish the call because user B is busy again, network B is proceeding with normal call clearing User A can activate the CCBS supplementary service again.	
Parameter values:	BC = PIXIT	
Comments:	Ensure that the network A in the Outgoing Call Proceeding state and CCBS Call Init State, if network B cannot establish the call because user B is busy again, the network A sends to user A a DISCONNECT message containing a Facility information element with a CCBS-T-Available invoke component	

6.2.2.22 CCNR

212201	ISDN ref. to: EN 301 065-1 [45]	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CCNR/212201	
Selection criteria:	• OLE and DLE are supporting the CCNR supplementary service and this supplementary service is available to user A • Signalling procedures at the coincident S and T reference point • recall option = PIXIT • Point-to-multipoint configuration applies	
Test purpose:	Ensure that when user A has an ALERTING indication received from user B, user A can activate CCNR and establish a successful CCNR call setup if a point-to-multipoint configuration applies.	
Parameter values:	BC = PIXIT	
Comments:	User A has an ALERTING indication received from user B. Network A shall retain the CCNR available indication determined by user B. (The network is in the call state N4 and in the Retain Active and CCNR Idle state) On receipt of FACILITY message containing a Facility information element with a CCNRRequest invoke component including the callLinkageID parameter The network sends a DISCONNECT message containing a Cause information element indicating cause value #31 "normal unspecified" and a FACILITY message with the dummy call reference containing a Facility information element with CCNRRrequest return result component. (The network is in the CCNR Activated state) Is user A neither busy nor CCBS busy on receipt of a RemoteUserFree invoke component from the network B, the Network A shall send to user A a FACILITY message containing a Facility information element with a CCBSremoteUserFree invoke component (the network is in the CCNR free state). On receipt of SETUP message containing Bearer capability information element(s) from the original call and a Facility information element with a CCBSCall invoke component including the CCBSReference from the previously sent CCBSRemoteUserFree invoke component the network A sends to user A a FACILITY message (UI frame) containing a Facility information element with a CCBSStopAlerting invoke component including the CCBSReference followed by a CALL PROCEEDING message.	

212202	ISDN ref. to: EN 301 065-1 [45]	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CCNR/212202	
Selection criteria:	• OLE and DLE are supporting the CCNR supplementary service and this supplementary service is available to user A • Signalling procedures at the coincident S and T reference point • recall option = PIXIT • point-to-multipoint configuration applies	
Test purpose:	Ensure that when CCNR supplementary service is not activated and the call is cleared after ALERTING has been sent to user A, user A can activate CCNR and establish a successful CCNR call setup if a point-to-multipoint configuration applies.	
Parameter values:	BC = PIXIT	
Comments:	The network A in the call state N0 and in the Retain Active and CCNR Idle state) on receipt of FACILITY message containing a Facility information element with a CCNRRequest invoke component including the callLinkageID parameter sends a FACILITY message with the dummy call reference containing a Facility information element with CCNRRrequest return result component. (The network is in the call state N0 and CCNR Activated state) Is user A neither busy nor CCBS busy on receipt of a RemoteUserFree invoke component from the network B, the Network A shall send to user A a FACILITY message containing a Facility information element with a CCBSremoteUserFree invoke component (the network is in the CCNR free state). On receipt of SETUP message containing Bearer capability information element(s) from the original call and a Facility information element with a CCBSCall invoke component including the CCBSReference from the previously sent CCBSRemoteUserFree invoke component the network A sends to user A a FACILITY message (UI frame) containing a Facility information element with a CCBSStopAlerting invoke component including the CCBSReference followed by a CALL PROCEEDING. message.	

212203	ISDN ref. to: EN 301 065-1 [45]	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CCNR/212203	
Selection criteria:	• OLE and DLE are supporting the CCNR supplementary service and this supplementary service is available to user A • Signalling procedures at the coincident S and T reference point	
Test purpose:	Ensure that user A in the call proceeding call state and in the CCNR Call init state, when user B has responded to the call with a CONNECT message, user A receives a CONNECT message. Has the CCNR request not been deactivated, the user receives a FACILITY message containing a Facility information element with a cCBSErase invoke indication cCBSEraseReason "normal-unspecified".	
Parameter values:	BC = PIXIT	
Comments:		

212204	ISDN ref. to: EN 301 065-1 [45]	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CCNR/212204	
Selection criteria:	• OLE and DLE are supporting the CCBS supplementary service and this supplementary service is available to user A • Signalling procedures at the coincident S and T reference point	
Test purpose:	Ensure that when the network A is in the call state N00 and **CCNR Activated state,** the user can initiate the deactivation procedure.	
Parameter values:	BC = PIXIT	
Comments:	Ensure that the user (when the network A is in the call state N00 and CCNR Activated state), on receipt of a FACILITY message containing a Facility information element with a CCBSDeactivate invoke component including the correct CCBSReference parameter, sends to user A a FACILITY message containing a Facility information element with a CCBSDeactivate return result component.	

212205	ISDN ref. to: EN 301 065-1 [45]	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CCNR/212205	
Selection criteria:	• OLEand DLE are supporting the CCBS supplementary service and this supplementary service is available to user A • Signalling procedures at the coincident S and T reference point	
Test purpose:	Ensure that network A cannot accept the CCNR request because the CCBS supplementary service is not available to the destination.	
Parameter values:	BC = PIXIT	
Comments:	In the Disconnect call state and CCNR Idle state and Retain Active State, on receipt of a FACILITY message containing a Facility information element with a CCNRRequest invoke component including the CallLinkageID, but CCBS is not available to the destination, the user A receives a FACILITY message containing a Facility information element with a CCBSRequest return error component indicating "shortTermDenial" or "longTermDenial".	

212206	ISDN ref. to: EN 301 065-1 [45]	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CCNR/212206	
Selection criteria:	• Network A and network B are supporting the CCBS supplementary service and this supplementary service is available to user A. • Signalling procedures at the coincident S and T reference point	
Test purpose:	Ensure that if network A is informed that user B is not busy and user A is busy, the network A shall inform user A by sending a CCBSFree invoke component to user A and suspend CCNR processing.	
Parameter values:	BC = PIXIT	
Comments:		

212207	ISDN ref. to: EN 301 065-1 [45]	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CCNR/212207	
Selection criteria:	• Network A and network B are supporting the CCBS supplementary service and this supplementary service is available to user A. • Signalling procedures at the coincident S and T reference point • Recall option = PIXIT	
Test purpose:	Ensure that if network A cannot accept the request because no B-cannel can be selected, network A shall suspend the CCNR request at network B.	
Parameter values:	BC = PIXIT	
Comments:	Ensure that network A in the CCNR free state on receipt of SETUP message containing Bearer capability information element from the original call and a Facility information element with a CCBSCall invoke component including the CCBSReference from the previously sent CCBSRemoteUserFree invoke component, when no B-channels can be selected, the network A sends to user a RELEASE COMPLETE with the cause #34 or #43 and moves to call state N00. Furthermore, network A shall suspend the CCNR request at network B.	

212208	ISDN ref. to: EN 301 065-1 [45]	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CCNR/212208	
Selection criteria:	• Network A and network B are supporting the CCBS supplementary service and this supplementary service is available to user A. • Signalling procedures at the coincident S and T reference point • The network option "CCBS request retention" is set to "yes"	
Test purpose:	Ensure that if network B cannot establish the call because user B is busy again, network B is proceeding with normal call clearing and Network B shall resume monitoring user B for being not busy.	
Parameter values:	BC = PIXIT	
Comments:	Ensure that the network A in the Outgoing Call Proceeding state and CCBS Call Init State, if network B cannot establish the call because user B is busy again, the network A sends to user A a DISCONNECT not containing a Facility information element with a CCBSErase invoke component. Network B shall resume monitoring user B for being not busy.	

212209	ISDN ref. to: EN 301 065-1 [45]	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CCNR/212209	
Selection criteria:	• Network A and network B are supporting the CCBS supplementary service and this supplementary service is available to user A. • Signalling procedures at the coincident S and T reference point • Network option "CCBS request retention" is set to "no"	
Test purpose:	Ensure that if network B cannot establish the call because user B is busy again, network B is proceeding with normal call clearing User A can activate the CCNR supplementary service again.	
Parameter values:	BC = PIXIT	
Comments:	Ensure that the network A in the Outgoing Call Proceeding state and CCNR Call Init State, if network B cannot establish the call because user B is busy again, the network A sends to user A a DISCONNECT message containing a Facility information element with a CallInfoRetain invoke component including a CallLinkageID sends a FACILITY message containing a Facility information element with a CCBSErase invoke component including CCBSEraseReason encoded as "basic-call-failed. User A can activate the CCNR supplementary service again.	

212210	ISDN ref. to: ETS 300 138-1 [9], subclause 9.4.1.2	Other relevant ref.: ETS 300 356-1 [20]
TSS reference:	ISDN-ISDN/Supplementary_services/CCNR/212210	
Selection criteria:	• Network A and network B are supporting the CCNR supplementary service and this supplementary service is available to user A. • Signalling procedures at the coincident S and T reference point	
Test purpose:	Ensure that the network A in the Null call state and CCNR Free state and the T-CCBS3 expires the network A sends to user A a FACILITY message containing a Facility information element with a CCBSErase invoke component including CCBSEraseREason encoded as "t-CCBS3-timout"	
Parameter values:	BC = PIXIT	
Comments:		

212211	ISDN ref. to: ETS 300 138-1 [9], subclause 10.2.2	Other relevant ref.: ETS 300 356-1 [20]
TSS reference:	ISDN-ISDN/Supplementary_services/CCNR/212211	
Selection criteria:	• Network A and network B are supporting the CCBS supplementary service and this supplementary service is available to user A. • Signalling procedures at the **T** reference point at both ends	
Test purpose:	Ensure that network A can initiate a CCNR call to Network B.	
Parameter values:	BC = PIXIT	
Comments:	Ensure that the network A (in the in the Outgoing Call Proceeding and in the CCBS Idle state Null call state) to indicate that user reached the alerting state B sends user A a ALERTING message, containing a Facility information element with CCBS-T-Available invoke component. The network A on receipt of a REGISTER message containing a Facility information element with a CCNR-T-Request invoke component including the retentionSupported parameter set to TRUE receives a FACILITY message with a Facility information element with a CCNR-T-Request return result component including the parameter retentionSupported set to TRUE. To indicate that the destination has become not busy user A receives a FACILITY containing a Facility information element with a CCBS-T-RemoteUserFree invoke component. On receipt of SETUP message containing Bearer capability information element from the original call and a Facility information element with a CCBSCall invoke component including the CCBSReference from the previously sent CCBS-T-RemoteUserFree invoke component, the Network A shall initiate a CCBS call to Network B and sends a CALL PROCEEEDING.	

212212	ISDN ref. to: ETS 300 138-1 [9], subclause 10.1.2.2	Other relevant ref.: ETS 300 356-1 [20]
TSS reference:	ISDN-ISDN/Supplementary_services/CCNR/212212	
Selection criteria:	• Network A and network B are supporting the CCNR supplementary service and this supplementary service is available to user A. • Signalling procedures at the T reference point at both ends	
Test purpose:	Ensure that the public network cannot accept the CCNR request because CCNR is not available to the destination at this time.	
Parameter values:	BC = PIXIT	
Comments:	Ensure that the network A (in the in the Outgoing Call Proceeding and in the CCBS Idle state Null call state) to indicate that user reached the alerting state B sends user A a ALERTING message, containing a Facility information element with CCBS-T-Available invoke component. The network A on receipt of a REGISTER message containing a Facility information element with a CCNR-T-Request invoke component but the supplementary service CCNR is not available at this time to the destination The user A receives a RELEASE message containing a Facility information element with a CCNRRequest return error component indicating "shortTermDenial".	

212213	ISDN ref. to: ETS 300 138-1 [9], subclause 10.1.2.2	Other relevant ref.: ETS 300 356-1 [20]
TSS reference:	ISDN-ISDN/Supplementary_services/CCNR/212213	
Selection criteria:	• Network A and network B are supporting the CCNR supplementary service and this supplementary service is available to user A. • Signalling procedures at the T reference point at both ends	
Test purpose:	Ensure that the public network cannot accept the CCNR request because CCNR is not available to the destination	
Parameter values:	BC = PIXIT	
Comments:	Ensure that the network A (in the in the Outgoing Call Proceeding and in the CCBS Idle state Null call state) to indicate that user reached the alerting state B sends user A a ALERTING message, containing a Facility information element with CCBS-T-Available invoke component. The network A on receipt of a REGISTER message containing a Facility information element with a CCNR-T-Request invoke component but the supplementary service CCNR is not available at this time to the destination The user A receives a RELEASE message containing a Facility information element with a CCNRRequest return error component indicating "longTermDenial".	

212214	ISDN ref. to: EN 301 065-1 [45] subclause 10.1.7.1	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CCNR/212214	
Selection criteria:	• Network A and network B are supporting the CCNR supplementary service and this supplementary service is available to user A. • Signalling procedures at the T reference point at both ends	
Test purpose:	Ensure that user A receiving a FACILITY message containing a Facility information element with a CCBS-T-RemoteUserFree invoke component, in order to deactivate the CCNR sends a RELEASE message with cause value #31.	
Parameter values:	BC = PIXIT	
Comments:		

212215	ISDN ref. to: EN 301 065-1 [45], subclause 10.1.6.2	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CCNR/212215	
Selection criteria:	• Network A and network B are supporting the CCBS supplementary service and this supplementary service is available to user A. • Signalling procedures at the T reference point at both ends • The network option "CCBS request retention" is set to "yes"	
Test purpose:	Ensure that if network B cannot establish the call because user B is busy again, network B is proceeding with normal call clearing and Network B shall resume monitoring user B for being not busy.	
Parameter values:	BC = PIXIT	
Comments:		

212216	ISDN ref. to: EN 301 065-1 [45], subclause 10.1.6.2	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/CCNR/212216	
Selection criteria:	• Network A and network B are supporting the CCNR supplementary service and this supplementary service is available to user A. • Signalling procedures at the T reference point at both ends • Network option "CCBS request retention" is set to "no"	
Test purpose:	Ensure that if network B cannot establish the call because user B is busy again, network B is proceeding with normal call clearing User A can activate the CCNR supplementary service again.	
Parameter values:	BC = PIXIT	
Comments:		

6.2.2.23 Comb

212301	ISDN ref. to: ETS 300 195-1 [22], subclause 5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/Comb/212301	
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:		

212302	ISDN ref. to: ETS 300 195-1 [22], subclause 5.29, subclause 5.27	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/Comb/212302	
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:		

212303	ISDN ref. to: ETS 300 195-1 [22], subclause 5	Other relevant ref.:
TSS reference:	ISDN-ISDN/Supplementary_services/Comb/212303	
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:		

6.2.2.24 DDI

212401	ISDN ref. to: EN 300 403-1 [1] subclause 5.1.5.1	Other relevant ref.:
TSS reference:	ISDN-ISDN/ Supplementary_services /DDI/212401	
Selection criteria:	• en-bloc sending at user A • DDI at user B	
Test purpose:	Ensure that call establishment using en-bloc sending is performed correctly when user B supports DDI.	
Parameter values:	BC = PIXIT	
Comments:	The network in the Null call state N00, to indicate an incoming call and **the full ISDN number** is available, transmits to user B SETUP message with a valid Called party number information element with the numbering plan Identification field set to "ISDN/telephony numbering plan" and type of number field set to "unknown" with the DDI digits contained in the number digits field.	

212402	ISDN ref. to: EN 300 403-1 [1] subclause 5.1.5.2	Other relevant ref.:
TSS reference:	ISDN-ISDN/ Supplementary_services /DDI/212402	
Selection criteria:	• overlap sending at user A • DDI at user B	
Test purpose:	Ensure that call establishment using overlap sending is performed correctly when user B supports DDI.	
Parameter values:	BC = PIXIT	
Comments:	The network in the call state N25 to indicate that an INFORMATION message received from the originating network contained a Called party number information element with **the full ISDN number including DDI digits and a Sending complete information element** is to be sent to the called user, transmits to user B an INFORMATION message with a valid Called party number information element with the numbering plan identification field set to "ISDN/telephony numbering plan" and type of number field set to "national number", "international number" or "subscriber number" with the full ISDN number including DDI digits contained in the number digits field.	

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

300101	ISDN ref. to: EN 300 403-1 [1]	Other relevant ref.:
TSS reference:	ISDN-ISDN/B-channel/Speech/300101	
Selection criteria:		
Test purpose:	To ensure that speech transfer on the B-channel is performed correctly.	
Parameter values:	BC = speech	
Comments:		

300201	ISDN ref. to: EN 300 403-1 [1]	Other relevant ref.: ETS 300 289 [23]
TSS reference:	ISDN-ISDN/B-channel/UDI/300201	
Selection criteria:		
Test purpose:	To verify compliance with the requirements for error and octet slip for the first or the last continuous 24 hours period: - the number of eroded seconds shall be less than 5324 - the number of severely eroded seconds shall be less than 105 - the number of octet slips shall be less than 5	
Parameter values:	BC = UDI, PRBS = 211-1	
Comments:	Each direction shall be tested separately	

300301	ISDN ref. to: EN 300 403-1 [1]	Other relevant ref.:
TSS reference:	ISDN-ISDN/B-channel/Audio/300301	
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	ISDN ref. to: EN 300 403-1 [1]	Other relevant ref.: ETS 300 289 [23]
TSS reference:	ISDN-ISDN/B-channel/UDI-TA/300401	
Selection criteria:		
Test purpose:	To verify compliance with the requirements for error and octet slip for the first or the last continuous 24 hours period: - the number of eroded seconds shall be less than 5324 - the number of severely eroded seconds shall be less than 105 - the number of octet slips shall be less than 5	
Parameter values:	BC = UDI/TA, PRBS = 211-1	
Comments:	Each direction shall be tested separately	

6.2.4 Test purposes for ISDN-PSTN, Basic call

6.2.4.1 Successful-Speech

Successful Speech

410101	ISDN ref. to: EN 300 403-1 [1] subclause 5.1.6	Other relevant ref.:
TSS reference:	ISDN-PSTN/Basic_call/Successful/Speech/410101	
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:		

410102	ISDN ref. to: EN 300 403-1 [1] subclause 5.1.6	Other relevant ref.:
TSS reference:	ISDN-PSTN/Basic_call/Successful/Speech/410102	
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:		

410103	ISDN ref. to: EN 300 403-1 [1] subclause 5.3.3	Other relevant ref.:
TSS reference:	ISDN-PSTN/Basic_call/Successful/Speech/410103	
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:		

410104	ISDN ref. to: EN 300 403-1 [1] subclause 5.3.3	Other relevant ref.:
TSS reference:	ISDN-PSTN/Basic_call/Successful/Speech/410104	
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:		

410105	ISDN ref. to: EN 300 403-1 [1]	Other relevant ref.:
TSS reference:	ISDN-PSTN/Basic_call/Successful/Speech/410105	
Selection criteria:		
Test purpose:	Ensure that the reanswer procedure is performed correctly when the called user clears and reanswers	
Parameter values:	BC = speech, no HLC	
Comments:		

410106	ISDN ref. to: EN 300 403-1 [1] subclause 4.5.16, subclause 5.1.6	Other relevant ref.:
TSS reference:	ISDN-PSTN/Basic_call/Successful/Speech/410106	
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:		

6.2.4.2 Successful-Audio

Successful
3,1 kHz audio

410201	ISDN ref. to: EN 300 403-1 [1] subclause 5.1.6	Other relevant ref.:
TSS reference:	ISDN-PSTN/Basic_call/Successful/Audio/410201	
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:		

410202	ISDN ref. to: EN 300 403-1 [1] subclause 5.1.6	Other relevant ref.:
TSS reference:	ISDN-PSTN/Basic_call/Successful/Audio/410202	
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:		

410203	ISDN ref. to: EN 300 403-1 [1] subclause 5.3.3	Other relevant ref.:
TSS reference:	ISDN-PSTN/Basic_call/Successful/Audio/410203	
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:		

410204	ISDN ref. to: EN 300 403-1 [1] subclause 5.3.3	Other relevant ref.:
TSS reference:	ISDN-PSTN/Basic_call/Successful/Audio/410204	
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:		

410205	ISDN ref. to: EN 300 403-1 [1] subclause 4.5.16, subclause 5.1.6	Other relevant ref.:
TSS reference:	ISDN-PSTN/Basic_call/Successful/Audio/410205	
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:		

410206	ISDN ref. to: EN 300 403-1 [1] subclause 4.5.18	Other relevant ref.:
TSS reference:	ISDN-PSTN/Basic_call/Successful/Audio/410206	
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:		

6.2.4.3 Successful-UDI/TA

Successful UDI/TA

410301	ISDN ref. to: ETS 300 267-1 [2] subclause 6.5.2	Other relevant ref.: EG 201 018 [37] subclause 6.3.5
TSS reference:	ISDN-PSTN/Basic_call/Successful/UDI-TA/410301	
Selection criteria:	• Telephony UDI-TA teleservice; • Fallback allowed	
Test purpose:	Ensure that the call establishment is performed correctly when a telephony 7 kHz fallback allowed SETUP message is sent and interworking with PSTN accur	
Parameter values:	! SETUP BC1 = speech BC2 = UDI with TA HLC = telephony	
Comments:	**telephony 7 kHz fallback allowed SETUP message**: A SETUP message containing two BCs, with the first BC = speech and the second BC = UDI/TA, a HLC = telephony	

410302	ISDN ref. to: ETS 300 267-1 [2] subclause 6.5.2	Other relevant ref.: EG 201 018 [37] subclause 6.3.5
TSS reference:	ISDN-PSTN/Basic_call/Successful/UDI-TA/410302	
Selection criteria:	• Videotelephony teleservice;; • Fallback allowed	
Test purpose:	Ensure that the call establishment is performed correctly when a videotelephony 7 kHz fallback allowed SETUP message is sent and interworking with PSTN accur	
Parameter values:	! SETUP BC1 = speech BC2 = UDI with TA HLC1 = telephony HLC2 = videotelephony_ic	
Comments:	**videotelephony 7 kHz fallback allowed SETUP message**: A SETUP message containing two BCs, with the first BC = speech and the second BC = UDI/TA, and two HLCs, with first HLC = telephony and the second HLC = videotelephony_ic and not containing a LLC.	

6.2.4.4 Unsuccessful-Speech

Unsuccessful

Speech

420101	ISDN ref. to: EN 300 403-1 [1]	Other relevant ref.:
TSS reference:	ISDN-PSTN/Basic_call/Unsuccessful/Speech/420101	
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:		

420102	ISDN ref. to: EN 300 403-1 [1]	Other relevant ref.:
TSS reference:	ISDN-PSTN/Basic_call/Unsuccessful/Speech/420102	
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:		

420103	ISDN ref. to: EN 300 403-1 [1]	Other relevant ref.:
TSS reference:	ISDN-PSTN/Basic_call/Unsuccessful/Speech/420103	
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:		

420104	ISDN ref. to: EN 300 403-1 [1]	Other relevant ref.:
TSS reference:	ISDN-PSTN/Basic_call/Unsuccessful/Speech/420104	
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:		

6.2.4.5 Unsuccessful-UDI

Unsuccessful

UDI

420201	ISDN ref. to: EN 300 403-1 [1]	Other relevant ref.:
TSS reference:	ISDN-PSTN/Basic_call/Unsuccessful/UDI /420201	
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 #63 "service or option not available, unspecified" or cause value #65 "bearer capability not implemented".	
Parameter values:	BC = UDI	
Comments:		

6.2.4.6 Unsuccessful-audio

Unsuccessful

3,1 kHz audio

420301	ISDN ref. to: EN 300 403-1 [1]	Other relevant ref.:
TSS reference:	ISDN-PSTN/Basic_call/Unsuccessful/ Audio /420301	
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	ISDN ref. to: EN 300 403-1 [1]	Other relevant ref.:
TSS reference:	ISDN-PSTN/Basic_call/Unsuccessful/ Audio/420302	
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	ISDN ref. to: EN 300 403-1 [1]	Other relevant ref.:
TSS reference:	ISDN-PSTN/Basic_call/Unsuccessful/ Audio/420303	
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	ISDN ref. to: EN 300 403-1 [1]	Other relevant ref.:
TSS reference:	ISDN-PSTN/Basic_call/Unsuccessful/ Audio/420304	
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:		

6.2.4.7 Unsuccessful-UDI/TA

Unsuccessful

UDI/TA

420401	ISDN ref. to: ETS 300 267-1 [2] subclause 6.5.2	Other relevant ref.: EG 201 018 [37] subclause 6.3.5
TSS reference:	ISDN-PSTN/Basic_call/Unsuccessful/UDI-TA/420401	
Selection criteria:	• Telephony UDI-TA teleservice; • Fallback allowed	
Test purpose:	Ensure that when a telephony 7 kHz fallback not allowed SETUP message is sent to the network, the network shall initiate call clearing to the calling user with cause value #65 "bearer capability not implemented"	
Parameter values:		
Comments:	**telephony 7 kHz fallback allowed SETUP message**: A SETUP message containing a single BCs with the BC = UDI/TA and a single HLC = telephony	

420402	ISDN ref. to: ETS 300 267-1 [2] subclause 6.5.2	Other relevant ref.: EG 201 018 [37] subclause 6.3.5
TSS reference:	ISDN-PSTN/Basic_call/Unsuccessful/UDI-TA/420402	
Selection criteria:	• Videotelephony teleservice; • Fallback allowed	
Test purpose:	Ensure that when a videotelephony 7 kHz fallback not allowed SETUP message is sent to the network, the network shall initiate call clearing to the calling user with cause value #65 "bearer capability not implemented"	
Parameter values:		
Comments:	**videotelephony 7 kHz fallback not allowed SETUP message**: A SETUP message containing a single BC = UDI/TA and a single HLC = videotelephony_ic	

420403	ISDN ref. to: EN 300 403-1 [1] subclause 5.1.4, G.1.1	Other relevant ref.:
TSS reference:	ISDN-PSTN/Basic_call/Unsuccessful/UDI-TA/420403	
Selection criteria:	• Telephony UDI-TA teleservice; • Fallback allowed	
Test purpose:	Ensure that, when calling to unallocated number, the network initiate call clearing to the calling user sending a DISCONNECT message containing a PI#8 and the cause value #1 "unassigned number"	
Parameter values:	BC = UDI/TA, HLC = telephony	
Comments:		

420404	ISDN ref. to: EN 300 403-1 [1] subclause 5.2.5.1, G.1.7	Other relevant ref.:
TSS reference:	ISDN-PSTN/Basic_call/Unsuccessful/UDI-TA/420404	
Selection criteria:	• Telephony UDI-TA teleservice; • Fallback allowed	
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 initiate call clearing to the calling user sending a DISCONNECT message containing a PI#8 and the cause #17 "user busy".	
Parameter values:	BC = UDI/TA, HLC = telephony	
Comments:		

420405	ISDN ref. to: EN 300 403-1 [1] subclause 5.2.5.4, G.1.8	Other relevant ref.:
TSS reference:	ISDN-PSTN/Basic_call/Unsuccessful/UDI-TA/420405	
Selection criteria:	• Telephony UDI-TA teleservice; • Fallback allowed	
Test purpose:	Ensure that, when the called user is not responding, the network initiate call clearing to the calling user sending a DISCONNECT message containing a PI#8 and cause value #18 "no user responding"	
Parameter values:	BC = UDI/TA, HLC = telephony	
Comments:		

420406	ISDN ref. to: EN 300 403-1 [1] subclause 5.2.5.4, G.1.9	Other relevant ref.:
TSS reference:	ISDN-PSTN/Basic_call/Unsuccessful/UDI-TA/420406	
Selection criteria:	• Telephony UDI-TA teleservice; • Fallback allowed	
Test purpose:	Ensure that when no answer from the called user (but user alerted), the network initiate call clearing sending a DISCONNECT message containing a PI#8 and to the calling user and called user with cause value #19 "no user responding (user alerted)"	
Parameter values:	BC = UDI/TA, HLC = telephony	
Comments:		

420407	ISDN ref. to: EN 300 403-1 [1] subclause 5.1.9, subclause 5.3.2, G.1.10	Other relevant ref.:
TSS reference:	ISDN-PSTN/Basic_call/Unsuccessful/UDI-TA/420407	
Selection criteria:	• Telephony UDI-TA teleservice; • Fallback allowed	
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 initiate call clearing to the calling user sending a DISCONNECT message containing a PI#8 and the cause value #21 "call rejected" to the calling user	
Parameter values:	BC = UDI/TA, HLC = telephony	
Comments:		

420408	ISDN ref. to: EN 300 403-1 [1] G.1.13	Other relevant ref.:
TSS reference:	ISDN-PSTN/Basic_call/Unsuccessful/UDI-TA/420408	
Selection criteria:	• Telephony UDI-TA teleservice; • Fallback allowed	
Test purpose:	Ensure that when the called user terminal is not connected, the network initiate call clearing to the calling user sending a DISCONNECT message containing a PI#8 and the cause value #27 "destination out of order"	
Parameter values:	BC = UDI/TA, HLC = telephony	
Comments:		

420409	ISDN ref. to: EN 300 403-1 [1] subclause 5.2.2, G.5.7	Other relevant ref.:
TSS reference:	ISDN-PSTN/Basic_call/Unsuccessful/UDI-TA/420409	
Selection criteria:	• Telephony UDI-TA teleservice; • Fallback allowed	
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, HLC = telephony	
Comments:		

420410	ISDN ref. to: EN 300 403-1 [1] G.1.6	Other relevant ref.:
TSS reference:	ISDN-ISDN/Basic_call/Unsuccessful/UDI-TA/420410	
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 the network initiate call clearing to the calling user sending a DISCONNECT message containing a PI#8 and the cause value #16 "normal call clearing" to the called user.	
Parameter values:	BC = UDI/TA, HLC = telephony	
Comments:		

6.2.5 Test purposes for ISDN-PSTN, Supplementary services

6.2.5.1 CLIP

510101	ISDN ref. to: EN 300 403-1 [1]	Other relevant ref.: ETS 300 001 [46] ETS 300 648 [47] ETS 300 659 [48]
TSS reference:	ISDN-PSTN/Supplementary_services/CLIP/TC510101	
Selection criteria:	The called user is provided with CLIP	
Test purpose:	Ensure that when the Calling party subaddress is provided by the calling user, the Calling party number is correctly delivered to the called (served) user.	
Parameter values:	BC = PIXIT, Calling party subaddress	
Comments:		

510102	ISDN ref. to: EN 300 403-1 [1]	Other relevant ref.: ETS 300 001 [46] ETS 300 648 [47] ETS 300 659 [48]
TSS reference:	ISDN-PSTN/Supplementary_services/CLIP/TC510102	
Selection criteria:	The called user is provided with CLIP	
Test purpose:	Ensure that when no Calling party subaddress is provided by the calling user, the Calling party number information element is network provided and correctly delivered to the called (served) user.	
Parameter values:	BC = PIXIT	
Comments:		

6.2.5.2 CLIR

510201	ISDN ref. to: EN 300 403-1 [1]	Other relevant ref.: ETS 300 001 [46] ETS 300 648 [47] ETS 300 659 [48]
TSS reference:	ISDN-PSTN/Supplementary_services/CLIP/TC510201	
Selection criteria:	• the called user is provided with CLIP, • the calling user is provided with CLIR	
Test purpose:	The calling user is provided with CLIR permanent mode subscription Ensure that when the Calling party subaddress is provided by the calling user the Calling party number is not delivered to the called user.	
Parameter values:	BC = PIXIT, Calling party subaddress	
Comments:		

510202	ISDN ref. to: EN 300 403-1 [1]	Other relevant ref.: ETS 300 001 [46] ETS 300 648 [47] ETS 300 659 [48]
TSS reference:	ISDN-PSTN/Supplementary_services/CLIP/TC510202	
Selection criteria:	• the called user is provided with CLIP, • the calling user is provided with CLIR	
Test purpose:	The calling user is provided with CLIR permanent mode subscription Ensure that when No Calling party subaddress is provided by the calling user the Calling party number is not delivered to the called user.	
Parameter values:	BC = PIXIT	
Comments:		

6.2.5.3 COLP

510301	ISDN ref. to: ETS 300 097-1 [7], subclause 9.5.1, 11	Other relevant ref.:
TSS reference:	ISDN-PSTN/Supplementary_services/COLP/510301	
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 = PIXIT, SI = NP	
Comments:		

6.2.5.4 COLR

510401	ISDN ref. to: ETS 300 098-1 [8] subclause 9.3.1, 9.4.1, 11	Other relevant ref.: ETS 300 097-1 [7], 9.5.1
TSS reference:	ISDN-PSTN/Supplementary_services/COLR/510401	
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 = PIXIT, (PI = PR), SI = NP, N = unknown, NPI = unknown	
Comments:		

6.2.5.5 CUG

510501	ISDN ref. to: ETS 300 138-1 [9] subclause 9.2.2, subclause 9.2.4	Other relevant ref.:
TSS reference:	ISDN-PSTN/Supplementary_services/CUG/510501	
Selection criteria:	Orign.:CUG supplementary options: not OA; not ocb; not Pref. CUG Term.: PSTN user is not member of a CUG	
Test purpose:	Ensure that when the calling user belongs to a CUG with outgoing access is not allowed, not outgoing calls barred within the CUG and not preferential CUG and the called PSTN user is not member of a CUG call establishment is not possible and the network initiate call clearing to the calling user with cause value 29 "Facility rejected", return error value "userNotMemberOfCUG".	
Parameter values:	Orign.: BC = PIXIT; Facility IE with cUGCall invoke component: OARequested set to TRUE CUG Index included	
Comments:		

510502	ISDN ref. to: ETS 300 138-1 [9] subclause 9.2.2, subclause 9.2.4	Other relevant ref.:
TSS reference:	ISDN-PSTN/Supplementary_services/CUG/510502	
Selection criteria:	Orign.: The calling user belongs to a CUG with the following CUG supplementary options: OA; not ocb; not Pref. CUG Term.: PSTN user is not member of a CUG	
Test purpose:	Ensure that when the calling user belongs to a CUG with outgoing access allowed, not outgoing calls barred within the CUG and not preferential CUG and the called PSTN user is not member of a CUG call establishment is not possible and the network initiate call clearing to the calling user with cause value 29 "Facility rejected", return error value "userNotMemberOfCUG".	
Parameter values:	BC = PIXIT; Facility IE with cUGCall invoke component: OARequested set to TRUE CUG Index included	
Comments:		

510503	ISDN ref. to: ETS 300 138-1 [9] subclause 9.2.2, subclause 9.2.4	Other relevant ref.:
TSS reference:	ISDN-PSTN/Supplementary_services/CUG/5100503	
Selection criteria:	Orign.: The calling user belongs to a CUG with the following CUG supplementary options: OA; not ocb; not Pref. CUG Term.: PSTN user is not member of a CUG	
Test purpose:	Ensure that when the calling user belongs to a CUG with outgoing access is allowed, not outgoing calls barred within the CUG and not preferential CUG and the and the called PSTN user is not member of a CUG, call establishment to a PSTN user is possible.	
Parameter values:	BC = PIXIT; Facility IE with cUGCall invoke component: OARequested set to TRUE CUG Index not included	
Comments:		

6.2.5.6 CFU

510601	ISDN ref. to: ETS 300 207-1 [14]	Other relevant ref.:
TSS reference:	ISDN-PSTN/Supplementary_services/CFU/510601	
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 and user C is informed of the forwarding number (user B has presentation allowed).	
Parameter values:	BC = PIXIT, CFU active	
Comments:	The stage 1, 2 and 3 specifications of the PSTN supplementary services are network operator specific. It is assumed that the PSTN subscriber acts like an ISDN-subscriber.	

510602	ISDN ref. to: ETS 300 207-1 [14]	Other relevant ref.:
TSS reference:	ISDN-PSTN/Supplementary_services/CFU/510602	
Selection criteria:	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 = PIXIT, CFU active	
Comments:	The stage 1, 2 and 3 specifications of the PSTN supplementary services are network operator specific. It is assumed that the PSTN subscriber acts like an ISDN-subscriber.	

510603	ISDN ref. to: ETS 300 207-1 [14]	Other relevant ref.:
TSS reference:	ISDN-PSTN/Supplementary_services/CFU/510603	
Selection criteria:	The user B is in network N2 and is provided with CFU ("calling user is notified of call diversion" = No, 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 and use C are not notified of call diversion.	
Parameter values:	BC = PIXIT, CFU active	
Comments:	The stage 1, 2 and 3 specifications of the PSTN supplementary services are network operator specific. It is assumed that the PSTN subscriber acts like an ISDN-subscriber.	

6.2.5.7 CFB

510701	ISDN ref. to: ETS 300 207-1 [14]	Other relevant ref.:
TSS reference:	ISDN-PSTN/Supplementary_services/CFB/510701	
Selection criteria:	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 and user C is informed of the forwarding number (user B has presentation allowed).	
Parameter values:	BC = PIXIT, CFB active	
Comments:	The stage 1, 2 and 3 specifications of the PSTN supplementary services are network operator specific. It is assumed that the PSTN subscriber acts like an ISDN-subscriber.	

510702	ISDN ref. to: ETS 300 207-1 [14]	Other relevant ref.:
TSS reference:	ISDN-PSTN/Supplementary_services/CFB/510702	
Selection criteria:	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 = PIXIT, CFB active	
Comments:	The stage 1, 2 and 3 specifications of the PSTN supplementary services are network operator specific. It is assumed that the PSTN subscriber acts like an ISDN-subscriber.	

510703	ISDN ref. to: ETS 300 207-1 [14]	Other relevant ref.:
TSS reference:	ISDN-PSTN/Supplementary_services/CFB/510703	
Selection criteria:	The user B is in network N2 and is provided with CFB ("calling user is notified of call diversion" = No, 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 and C are not notified of call diversion.	
Parameter values:	BC = PIXIT, CFB active	
Comments:	The stage 1, 2 and 3 specifications of the PSTN supplementary services are network operator specific. It is assumed that the PSTN subscriber acts like an ISDN-subscriber.	

6.2.5.8 CFNR

510801	ISDN ref. to: ETS 300 207-1 [14]	Other relevant ref.:
TSS reference:	ISDN-PSTN/Supplementary_services/CFNR/510801	
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 = PIXIT, CFNR active	
Comments:	The stage 1, 2 and 3 specifications of the PSTN supplementary services are network operator specific. It is assumed that the PSTN subscriber acts like an ISDN-subscriber.	

510802	ISDN ref. to: ETS 300 207-1 [14]	Other relevant ref.:
TSS reference:	ISDN-PSTN/Supplementary_services/CFNR/510802	
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 = PIXIT, CFNR active	
Comments:	The stage 1, 2 and 3 specifications of the PSTN supplementary services are network operator specific. It is assumed that the PSTN subscriber acts like an ISDN-subscriber.	

510803	ISDN ref. to: ETS 300 207-1 [14]	Other relevant ref.:
TSS reference:	ISDN-PSTN/Supplementary_services/CFNR/510803	
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" = No, 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 snd user C are not notified of call diversion.	
Parameter values:	BC = PIXIT, CFNR active	
Comments:	The stage 1, 2 and 3 specifications of the PSTN supplementary services are network operator specific. It is assumed that the PSTN subscriber acts like an ISDN-subscriber.	

6.2.5.9 UUS1

510901	ISDN ref. to: ETS 300 286-1 [12] subclause 11.2, subclause 9.1.1.1.2	Other relevant ref.:
TSS reference:	ISDN-PSTN/Supplementary_services/UUS1/510901	
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 = PIXIT	
Comments:		

510902	ISDN ref. to: ETS 300 286-1 [12] subclause 11.2, subclause 9.1.1.2.2	Other relevant ref.: EN 300 403-1 [1] subclause 7.1.3.6
TSS reference:	ISDN-PSTN/Supplementary_services/UUS1/510902	
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 = PIXIT	
Comments:		

6.2.5.10 CCBS

511001	ISDN ref. to: ETS 300 138-1 [9]	Other relevant ref.: ETS 300 356-1 [20]
TSS reference:	ISDN-PSTN/Supplementary_services/CCBS/511001	
Selection criteria:	• OLE and DLE are supporting the CCBS supplementary service and this supplementary service is available to user A • Signalling procedures at the coincident S and T reference point • recall option = PIXIT	
Test purpose:	Ensure that user A can establish a successful CCBS call setup a multipoint configuration exits.	
Parameter values:	BC = PIXIT	
Comments:		

511002	ISDN ref. to: ETS 300 138-1 [9]	Other relevant ref.: ETS 300 356-1 [20]
TSS reference:	ISDN-PSTN/Supplementary_services/CCBS/511002	
Selection criteria:	• OLE and DLE are supporting the CCBS supplementary service and this supplementary service is available to user A • Signalling procedures at the coincident S and T reference point	
Test purpose:	Ensure that user A in the call proceeding call state and in the CCBS Call init state, when network B responds to the call with an ALERTING indication user A receives an ALERTING message followed by a FACILITY message containing a Facility information element with a cCBSErase invoke indication cCBSEraseReason "normal-unspecified".	
Parameter values:	BC = PIXIT	
Comments:		

511003	ISDN ref. to: ETS 300 138-1 [9] subclause 9.2.1	Other relevant ref.: ETS 300 356-1 [20]
TSS reference:	ISDN-PSTN/Supplementary_services/CCBS/511003	
Selection criteria:	• OLE and DLE are supporting the CCBS supplementary service and this supplementary service is available to user A • Signalling procedures at the coincident S and T reference point	
Test purpose:	Ensure that when the network A is in the call state N00 and **CCBS Activated state** the user can initiate the deactivation procedure.	
Parameter values:	BC = PIXIT	
Comments:	Ensure that the user (when the network A is in the call state N00 and **CCBS Activated state**), on receipt of a FACILITY message containing a Facility information element with a CCBSDeactivate invoke component including the correct CCBSReference parameter, sends to user A a FACILITY message containing a Facility information element with a CCBSDeactivate return result component with CCBSEraseReason indicating "normal-unspecified" and a Facility message containing a Facility information element with a CCBSerase invoke component.	

511004	ISDN ref. to: ETS 300 138-1 [9], subclause 9.1.4.2	Other relevant ref.: ETS 300 356-1 [20]
TSS reference:	ISDN-PSTN/Supplementary_services/CCBS/511004	
Selection criteria:	• OLE and DLE are supporting the CCBS supplementary service and this supplementary service is available to user A • Signalling procedures at the coincident S and T reference point	
Test purpose:	Ensure that when the network A is in the call state N00 and **CCBS free state** the user can initiate the deactivation procedure.	
Parameter values:	BC = PIXIT	
Comments:	Ensure that the user (when the network A is in the call state N00 and **CCBS free state**), on receipt of a FACILITY message containing a Facility information element with a CCBSDeactivate invoke component including the correct CCBSReference parameter, sends to user A a FACILITY message containing a Facility information element with a CCBSDeactivate return result component with CCBSEraseReason indicating "normal-unspecified" and a Facility message containing a Facility information element with a CCBSerase invoke component.	

511005	ISDN ref. to: ETS 300 138-1 [9]	Other relevant ref.: ETS 300 356-1 [20]
TSS reference:	ISDN-PSTN/Supplementary_services/CCBS/511005	
Selection criteria:	• OLEand DLE are supporting the CCBS supplementary service and this supplementary service is available to user A • Signalling procedures at the coincident S and T reference point	
Test purpose:	Ensure that network A cannot accept the CCBS request because the CCBS supplementary service is not available to the destination	
Parameter values:	BC = PIXIT	
Comments:	In the Disconnect call state and CCBS Idle state and Retain Active State, on receipt of a FACILITY message containing a Facility information element with a CCBSRequest invoke component including the CallLinkageID, but CCBS is not available to the destination, the user A receives a FACILITY message containing a Facility information element with a CCBSRequest return error component indicating "shortTermDenial".	

511006	ISDN ref. to: ETS 300 138-1 [9]	Other relevant ref.: ETS 300 356-1 [20]
TSS reference:	ISDN-PSTN/Supplementary_services/CCBS/511006	
Selection criteria:	• Network A and network B are supporting the CCBS supplementary service and this supplementary service is available to user A. • Signalling procedures at the coincident S and T reference point	
Test purpose:	Ensure that if network A is informed that user B is not busy and user A is busy, the network A shall inform user A by sending a CCBSFree invoke component to user A and suspend CCBS processing.	
Parameter values:	BC = PIXIT	
Comments:		

511007	ISDN ref. to: ETS 300 138-1 [9] subclause 9.4.2.2	Other relevant ref.: ETS 300 356-1 [20]
TSS reference:	ISDN-PSTN/Supplementary_services/CCBS/511007	
Selection criteria:	• Network A and network B are supporting the CCBS supplementary service and this supplementary service is available to user A. • Signalling procedures at the coincident S and T reference point • Recall option = PIXIT	
Test purpose:	Ensure that if network A cannot accept the request because no B-cannel can selected, network A shall suspend the CCBS request at network B.	
Parameter values:	BC = PIXIT	
Comments:	Ensure that network A in the CCBS free state on receipt of SETUP message containing Bearer capability information element from the original call and a Facility information element with a CCBSCall invoke component including the CCBSReference from the previously sent CCBSRemoteUserFree invoke component, when no B-channels can be selected, the network A sends to user a RELEASE COMPLETE with the cause #34 or #43 and moves to call state N00. Furthermore, network A shall suspend the CCBS request at network B.	

511008	ISDN ref. to: ETS 300 138-1 [9]	Other relevant ref.: ETS 300 356-1 [20]
TSS reference:	ISDN-PSTN/Supplementary_services/CCBS/511008	
Selection criteria:	• Network A and network B are supporting the CCBS supplementary service and this supplementary service is available to user A. • Signalling procedures at the coincident S and T reference point • The network option "CCBS request retention" is set to "yes"	
Test purpose:	Ensure that if network B cannot establish the call because user B is busy again, network B is proceeding with normal call clearing and Network B shall resume monitoring user B for being not busy.	
Parameter values:	BC = PIXIT	
Comments:	Ensure that the network A in the Outgoing Call Proceeding state and CCBS Call Init State, if network B cannot establish the call because user B is busy again, the network A sends to user A a DISCONNECT not containing a Facility information element with a CCBSErase invoke component. Network B shall resume monitoring user B for being not busy.	

511009	ISDN ref. to: ETS 300 138-1 [9], subclause 9.4.3.2	Other relevant ref.: ETS 300 356-1 [20]
TSS reference:	ISDN-PSTN/Supplementary_services/CCBS/511009	
Selection criteria:	• Network A and network B are supporting the CCBS supplementary service and this supplementary service is available to user A. • Signalling procedures at the coincident S and T reference point • Network option "CCBS request retention" is set to "no" • multipoint configuration	
Test purpose:	Ensure that if network B cannot establish the call because user B is busy again, network B is proceeding with normal call clearing User A can activate the CCBS supplementary service again.	
Parameter values:	BC = PIXIT	
Comments:	Ensure that the network A in the Outgoing Call Proceeding state and CCBS Call Init State, where a **multipoint configuration exists,** if network B cannot establish the call because user B is busy again, the network A sends to user A a DISCONNECT or RELEASE COMPLETE message containing a Facility information element with a CallInfoRetain invoke component including a CallLinkageID sends a FACILITY message (UI frame) containing a Facility information element with a CCBSErase invoke component including CCBSEraseREason encoded as "basic-call-failed. User A can activate the CCBS supplementary service again.	

511010	ISDN ref. to: ETS 300 138-1 [9], subclause 9.4.1.2	Other relevant ref.: ETS 300 356-1 [20]
TSS reference:	ISDN-PSTN/Supplementary_services/CCBS/5110010	
Selection criteria:	• Network A and network B are supporting the CCBS supplementary service and this supplementary service is available to user A. • Signalling procedures at the coincident S and T reference point	
Test purpose:	Ensure that the network A in the Null call state and CCBS Free state, where a multipoint configuration exists, and the T-CCBS3 expires the network A sends to user A a FACILITY message (UI frame) containing a Facility information element with a CCBSErase invoke component including CCBSEraseREason encoded as "t-CCBS3-timout".	
Parameter values:	BC = PIXIT	
Comments:		

6.2.5.11 CCNR

511101	ISDN ref. to: EN 301 065-1 [45]	Other relevant ref.:
TSS reference:	ISDN-PSTN/Supplementary_services/CCNR/511001	
Selection criteria:	• OLE and DLE are supporting the CCNR supplementary service and this supplementary service is available to user A • Signalling procedures at the coincident S and T reference point • recall option = PIXIT • point-to-multipoint configuration applies	
Test purpose:	Ensure that when user A has an ALERTING indication received from network B, user A can activate CCNR and establish a successful CCNR call setup a point-to-multipoint configuration applies.	
Parameter values:	BC = PIXIT	
Comments:		

511002	ISDN ref. to: EN 301 065-1 [45]	Other relevant ref.:
TSS reference:	ISDN-PSTN/Supplementary_services/CCNR/511002	
Selection criteria:	• OLE and DLE are supporting the CCNR supplementary service and this supplementary service is available to user A • Signalling procedures at the coincident S and T reference point • recall option = PIXIT • point-to-multipoint configuration applies	
Test purpose:	Ensure that when CCNR supplementary service is not activated and the call is cleared after ALERTING has been sent to user A, user A can activate CCNR and establish a successful CCNR call setup if the point-to-multipoint configuration applies.	
Parameter values:	BC = PIXIT	
Comments:		

511003	ISDN ref. to: EN 301 065-1 [45]	Other relevant ref.:
TSS reference:	ISDN-PSTN/Supplementary_services/CCNR/511003	
Selection criteria:	• OLE and DLE are supporting the CCNR supplementary service and this supplementary service is available to user A • Signalling procedures at the coincident S and T reference point	
Test purpose:	Ensure that user A in the call proceeding call state and in the CCNR Call init state, when network B has responded to the call with a CONNECT indication, user A receives a CONNECT message. Has the CCNR request not been deactivated, the user receives a FACILITY message containing a Facility information element with a cCBSErase invoke indication cCBSEraseReason "normal-unspecified".	
Parameter values:	BC = PIXIT	
Comments:		

511004	ISDN ref. to: EN 301 065-1 [45]	Other relevant ref.:
TSS reference:	ISDN-PSTN/Supplementary_services/CCNR/511004	
Selection criteria:	• OLE and DLE are supporting the CCNR supplementary service and this supplementary service is available to user A • Signalling procedures at the coincident S and T reference point	
Test purpose:	Ensure that when the network A is in the call state N00 and **CCNR Activated state,** the user can initiate the deactivation procedure.	
Parameter values:	BC = PIXIT	
Comments:	Ensure that the user (when the network A is in the call state N00 and CCNR Activated state), on receipt of a FACILITY message containing a Facility information element with a CCBSDeactivate invoke component including the correct CCBSReference parameter, sends to user A a FACILITY message containing a Facility information element with a CCBSDeactivate return result component.	

511005	ISDN ref. to: EN 301 065-1 [45]	Other relevant ref.:
TSS reference:	ISDN-PSTN/Supplementary_services/CCNR/511105	
Selection criteria:	• OLEand DLE are supporting the CCNR supplementary service and this supplementary service is available to user A • Signalling procedures at the coincident S and T reference point	
Test purpose:	Ensure that network A cannot accept the CCNR request because the CCBS supplementary service is not available to the destination	
Parameter values:	BC = PIXIT	
Comments:	In the Disconnect call state and CCNR Idle state and Retain Active State, on receipt of a FACILITY message containing a Facility information element with a CCNRRequest invoke component including the CallLinkageID, but CCBS is not available to the destination, the user A receives a FACILITY message containing a Facility information element with a CCBSRequest return error component indicating "shortTermDenial" or "longTermDenial".	

511006	ISDN ref. to: EN 301 065-1 [45]	Other relevant ref.:
TSS reference:	ISDN-PSTN/Supplementary_services/CCNR/511006	
Selection criteria:	• Network A and network B are supporting the CCNR supplementary service and this supplementary service is available to user A. • Signalling procedures at the coincident S and T reference point	
Test purpose:	Ensure that if network A is informed that user B is not busy and user A is busy, the network A shall inform user A by sending a CCBSFree invoke component to user A and suspend CCNR processing.	
Parameter values:	BC = PIXIT	
Comments:		

511007	ISDN ref. to: EN 301 065-1 [45]	Other relevant ref.:
TSS reference:	ISDN-PSTN/Supplementary_services/CCNR/511007	
Selection criteria:	• Network A and network B are supporting the CCNR supplementary service and this supplementary service is available to user A. • Signalling procedures at the coincident S and T reference point • Network A supports the specific Recall option.	
Test purpose:	Ensure that if network A cannot accept the request because no B-cannel can be selected, network A shall suspend the CCNR request at network B.	
Parameter values:	BC = PIXIT	
Comments:	Ensure that network A in the CCNR free state on receipt of SETUP message containing Bearer capability information element from the original call and a Facility information element with a CCBSCall invoke component including the CCBSReference from the previously sent CCBSRemoteUserFree invoke component, when no B-channels can be selected, the network A sends to user a RELEASE COMPLETE with the cause #34 or #43 and moves to call state N00. Furthermore, network A shall suspend the CCNR request at network B.	

511008	ISDN ref. to: EN 301 065-1 [45]	Other relevant ref.:
TSS reference:	ISDN-PSTN/Supplementary_services/CCNR/511008	
Selection criteria:	• Network A and network B are supporting the CCNR supplementary service and this supplementary service is available to user A. • Signalling procedures at the coincident S and T reference point • Network A supports the global Recall option.	
Test purpose:	Ensure that if network A cannot accept the request because no B-cannel can selected, network A shall send a CCBSStopAlerting invoke component to user A and suspend the CCBS request at network B.	
Parameter values:	BC = PIXIT	
Comments:	Ensure that network A in the call state N00 and CCNR free state, where a multipoint configuration exits, on receipt of SETUP message containing Bearer capability information element (s) from the original call and a Facility information element with a CCBSCall invoke component including the CCBSReference from the previously sent CCBSRemoteUserFree invoke component when no B-channels can be selected the network A sends FACILITY message (UI frame) containing a facility information element with a CCBSStopAlerting invoke component including the same CCBSReference value and a RELEASE COMPLETE with the cause #34 or #43 and moves to call state N00. Furthermore, network A shall suspend the CCNR request at network B.	

511109	ISDN ref. to: EN 301 065-1 [45]	Other relevant ref.:
TSS reference:	ISDN-PSTN/Supplementary_services/CCNR/511009	
Selection criteria:	• Network A and network B are supporting the CCNR supplementary service and this supplementary service is available to user A. • Signalling procedures at the coincident S and T reference point • The network option "CCBS request retention" is set to "yes"	
Test purpose:	Ensure that if network B cannot establish the call because user B is busy again, network B is proceeding with normal call clearing and Network B shall resume monitoring user B for being not busy.	
Parameter values:	BC = PIXIT	
Comments:	Ensure that the network A in the Outgoing Call Proceeding state and CCBS Call Init State, if network B cannot establish the call because user B is busy again, the network A sends to user A a DISCONNECT not containing a Facility information element with a CCBSErase invoke component. Network B shall resume monitoring user B for being not busy.	

511010	ISDN ref. to: EN 301 065-1 [45]	Other relevant ref.:
TSS reference:	ISDN-PSTN/Supplementary_services/CCNR/511010	
Selection criteria:	• Network A and network B are supporting the CCNR supplementary service and this supplementary service is available to user A. • Signalling procedures at the coincident S and T reference point • Network option "CCBS request retention" is set to "no"	
Test purpose:	Ensure that if network B cannot establish the call because user B is busy again, network B is proceeding with normal call clearing User A can activate the CCNR supplementary service again.	
Parameter values:	BC = PIXIT	
Comments:		

511011	ISDN ref. to: ETS 300 138-1 [9], subclause 9.4.1.2	Other relevant ref.: ETS 300 356-1 [20]
TSS reference:	ISDN-PSTN/Supplementary_services/CCNR/511011	
Selection criteria:	• Network A and network B are supporting the CCNR supplementary service and this supplementary service is available to user A. • Signalling procedures at the coincident S and T reference point	
Test purpose:	Ensure that the network A in the Null call state and CCNR Free state and the T-CCBS3 expires the network A sends to user A a FACILITY message containing a Facility information element with a CCBSErase invoke component including CCBSEraseREason encoded as "t-CCBS3-timout"	
Parameter values:	BC = PIXIT	
Comments:		

6.2.5.12 ECT

511201	ISDN ref. to: ETS 300 369-1 [21], subclause 9.2.1, subclause 9.2.3, subclause 9.2.4	Other relevant ref.:
TSS reference:	ISDN-PSTN/Supplementary_services/ECT/511201	
Selection criteria:	ECT	
Test purpose:	User A is in network N1 and is provided with ECT using implicit linkage. User B and user C are in network N2. Ensure that when user A invokes ECT in which the call **A-B** is in the **Active call state – Call Held auxiliary state** and the call **A-C** is in the **Active call state** a connection between user B and user C is established and the calls A-B and A-C are released. The call clearing procedure of the B-C connection is performed from user B. (user B and user C have presentation allowed - no COLR)	
Parameter values:	BC = PIXIT	
Comments:		

511202	ISDN ref. to: ETS 300 369-1 [21], subclause 9.2.1, subclause 9.2.3, subclause 9.2.4	Other relevant ref.:
TSS reference:	ISDN-PSTN/Supplementary_services/ECT/511202	
Selection criteria:	ECT	
Test purpose:	User A is in network N1 and is provided with ECT using implicit linkage. User B and user C are in network N2. Ensure that when user A invokes ECT in which the call **A-B** is in the **Active call sate** and the call **A-C** is in the **Active call state - Call Held auxiliary state,** a connection between user B and user C is established and the calls A-B and A-C are released. The call clearing procedure of the B-C connection is performed from user C. (user B and user C have presentation restricted – COLR).	
Parameter values:	BC = PIXIT	
Comments:		

511203	ISDN ref. to: ETS 300 369-1 [21], subclause 9	Other relevant ref.:
TSS reference:	ISDN-PSTN/Supplementary_services/ECT/511203	
Selection criteria:	ECT	
Test purpose:	User A is in network N1 and is provided with ECT using implicit linkage. User B and user C are in network N2. Ensure that when user A invokes ECT in which the call **A-B** is in the **Active call state - Call Held auxiliary state** and the call **A-C** is in the **Call Delivered State** a connection between user B and user C is established and the calls A-B and A-C are released. When network C receives a CONNECT message from user C, network C shall proceed with the basic call procedure for the user C. The call clearing procedure of the B-C connection is performed from user B.	
Parameter values:	BC = PIXIT	
Comments:		

511204	ISDN ref. to: ETS 300 369-1 [21], subclause 9	Other relevant ref.:
TSS reference:	ISDN-PSTN/Supplementary_services/ECT/511204	
Selection criteria:	ECT	
Test purpose:	User A is in network N1 and is provided with ECT using implicit linkage. User B and user C are in network N2. Ensure that when user A invokes ECT in which the call **A-B** is in the **Active call state** and the call **A-C** is in the **Call Delivered State - Call Held auxiliary state,** a connection between user B and user C is established and the calls A-B and A-C are released. When network C receives a CONNECT message from user C, network C shall proceed with the basic call procedure for the user C. The call clearing procedure of the B-C connection is performed from user C.	
Parameter values:	BC = PIXIT	
Comments:		

6.2.6 Test purposes for PSTN-ISDN, Basic call

6.2.6.1 Successful - PSTN

Successful

PSTN

610101	ISDN ref. to: EN 300 403-1 [1] subclause 5.2.6, B.4	Other relevant ref.:
TSS reference:	PSTN-ISDN/Basic_call/Successful/610101	
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:		

610102	ISDN ref. to: EN 300 403-1 [1]	Other relevant ref.:
TSS reference:	PSTN-ISDN/Basic_call/Successful/610102	
Selection criteria:		
Test purpose:	Ensure that the clearing procedure is performed correctly when the calling user clears the call after answering.	
Parameter values:		
Comments:		

610103	ISDN ref. to: EN 300 403-1 [1]	Other relevant ref.:
TSS reference:	PSTN-ISDN/Basic_call/Successful/610103	
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:		

6.2.6.2 Unsuccessful - PSTN

Unsuccessful

PSTN

620101	ISDN ref. to: EN 300 403-1 [1]	Other relevant ref.:
TSS reference:	PSTN-ISDN/Basic_call/Unsuccessful/620101	
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:		

620102	ISDN ref. to: EN 300 403-1 [1]	Other relevant ref.:
TSS reference:	PSTN-ISDN/Basic_call/Unsuccessful/620102	
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:		

620103	ISDN ref. to: EN 300 403-1 [1]	Other relevant ref.:
TSS reference:	PSTN-ISDN/Basic_call/Unsuccessful/620103	
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:		

620104	ISDN ref. to: EN 300 403-1 [1]	Other relevant ref.:
TSS reference:	PSTN-ISDN/Basic_call/Unsuccessful/620104	
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:		

620106	ISDN ref. to: EN 300 403-1 [1]	Other relevant ref.:
TSS reference:	PSTN-ISDN/Basic_call/Unsuccessful/620106	
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	ISDN ref. to: EN 300 403-1 [1]	Other relevant ref.:
TSS reference:	PSTN-ISDN/Basic_call/Unsuccessful/620105	
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:		

6.2.7 Test purposes for PSTN-ISDN, Supplementary services

6.2.7.1 CLIP

710101	ISDN ref. to: ETS 300 092-1 [5] subclause 9.5.1, 11	Other relevant ref.:
TSS reference:	PSTN-ISDN/Supplementary_services/CLIP/710101	
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, N = international (or N = unknown)	
Comments:		

6.2.7.2 CLIR

710201	ISDN ref. to: ETS 300 093-1 [6] subclause 9.4.1	Other relevant ref.: ETS 300 092-1 [5] subclause 9.5.1
TSS reference:	PSTN-ISDN/Supplementary_services/CLIR/710201	
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), N = unknown, NPI = unknown	
Comments:		

6.2.7.3 CFU

710301	ISDN ref. to: ETS 300 207-1 [14]	Other relevant ref.:
TSS reference:	PSTN-ISDN/Supplementary_services/CFU/710301	
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:	CFU active	
Comments:		

6.2.7.4 CFB

710401	ISDN ref. to: ETS 300 207-1 [14]	Other relevant ref.:
TSS reference:	PSTN-ISDN/Supplementary_services/CFB/710401	
Selection criteria:	The user A and the user C are in PSTN. The user B is in the ISDN and is provided with CFB-UDUB.	
Test purpose:	The PSTN user A and the PSTN user C are in network N1. The ISDN user B is in network N2 and is provided with CFB-UDUB. Ensure that when user A calls busy user B, the call is forwarded to user C. User B is not notified of call diversion.	
Parameter values:	CFB-UDUB active	
Comments:		

710402	ISDN ref. to: ETS 300 207-1 [14]	Other relevant ref.:
TSS reference:	PSTN-ISDN/Supplementary_services/CFB/710402	
Selection criteria:	The user A and the user C are in PSTN. The user B is in the ISDN and is provided with CFB-NDUB.	
Test purpose:	The PSTN user A and the PSTN user C are in network N1. The ISDN user B is in network N2 and is provided with CFB-NDUB. Ensure that when user A calls busy user B, the call is forwarded to user C.	
Parameter values:	CFB-NDUB active	
Comments:		

6.2.7.5 CFNR

710501	ISDN ref. to: ETS 300 207-1 [14]	Other relevant ref.:
TSS reference:	PSTN-ISDN/Supplementary_services/CFNR/710501	
Selection criteria:	CFNR	
Test purpose:	The PSTN user A and the PSTN user C are in network N1. The ISDN user B is in network N2 and is provided with CFNR. Ensure that if user A calls user B, who does not answered, the call is forwarded to user C.	
Parameter values:	CFNR active	
Comments:		

6.2.7.6 MCID

710601	ISDN ref. to: ETS 300 130-1 [16]	Other relevant ref.:
TSS reference:	PSTN-ISDN/Supplementary_services/MCID/710601	
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:		

6.2.7.7 CUG

710701	ISDN ref. to: ETS 300 138-1 [9] subclause 9.2.3	Other relevant ref.:
TSS reference:	PSTN-ISDN/Supplementary_services/CUG/710701	
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:		

6.2.7.8 CCBS

710801	ISDN ref. to: ETS 300 138-1 [9]	Other relevant ref.: ETS 300 356-1 [20]
TSS reference :	PSTN-ISDN/Supplementary_services/CCBS/710801	
Selection criteria:	• OLE and DLE are supporting the CCBS supplementary service and this supplementary service is available to user A • Signalling procedures at the **coincident S and T reference point at user B**	
Test purpose:	Ensure that user A after the successful CCBS Activation can establish a successful CCBS call to user B.	
Parameter values:		
Comments:		

710802	ISDN ref. to: ETS 300 138-1 [9]	Other relevant ref.: ETS 300 356-1 [20]
TSS reference:	PSTN-ISDN/Supplementary_services/CCBS/710802	
Selection criteria:	• OLE and DLE are supporting the CCBS supplementary service and this supplementary service is available to user A • Signalling procedures at the **T reference point at user B**	
Test purpose:	Ensure that user A after the successful CCBS Activation can establish a successful CCBS call to user B.	
Parameter values:		
Comments:		

710803	ISDN ref. to: ETS 300 138-1 [9], subclause 9.2.1	Other relevant ref.: ETS 300 356-1 [20]
TSS reference:	PSTN-ISDN/Supplementary_services/CCBS/710803	
Selection criteria:	• OLE and DLE are supporting the CCBS supplementary service and this supplementary service is available to user A • Signalling procedures at the coincident S and T reference point	
Test purpose:	Ensure that user A after the after the successful CCBS Activation procedure can initiate the deactivation procedure.	
Parameter values:		
Comments:		

710804	ISDN ref. to: ETS 300 138-1 [9] subclause 9.2.1	Other relevant ref.: ETS 300 356-1 [20]
TSS reference:	PSTN-ISDN/Supplementary_services/CCBS/710804	
Selection criteria:	• OLE and DLE are supporting the CCBS supplementary service and this supplementary service is available to user A • Signalling procedures at the coincident S and T reference point at user B	
Test purpose:	Ensure that user A after the successful CCBS Activation procedure can initiate the deactivation procedure.	
Parameter values:		
Comments:		

710805	ISDN ref. to: ETS 300 138-1 [9], subclause 9.2.1	Other relevant ref.: ETS 300 356-1 [20]
TSS reference:	PSTN-ISDN/Supplementary_services/CCBS/710805	
Selection criteria:	• OLE and DLE are supporting the CCBS supplementary service and this supplementary service is available to user A • Signalling procedures at the T reference point at user B	
Test purpose:	Ensure that user A after the successful CCBS Activation procedure can initiate the deactivation procedure.	
Parameter values:		
Comments:		

710806	ISDN ref. to: ETS 300 138-1 [9]	Other relevant ref.: ETS 300 356-1 [20]
TSS reference:	PSTN-ISDN/Supplementary_services/CCBS/710806	
Selection criteria:	• OLEand DLE are supporting the CCBS supplementary service and this supplementary service is available to user A • Signalling procedures at the coincident S and T reference point	
Test purpose:	Ensure that network A cannot accept the CCBS request because the CCBS supplementary service is not available to the destination	
Parameter values:		
Comments:		

6.2.7.9 CCNR

710901	ISDN ref. to: EN 301 065-1 [45]	Other relevant ref.:
TSS reference:	PSTN-ISDN/Supplementary_services/CCNR/710901	
Selection criteria:	• OLE and DLE are supporting the CCNR supplementary service and this supplementary service is available to user A • Signalling procedures at the coincident S and T reference point at user B	
Test purpose:	Ensure that user A after the successful CCNR Activation can establish a successful CCNR call to user B.	
Parameter values:		
Comments:		

710902	ISDN ref. to: EN 301 065-1 [45]	Other relevant ref.:
TSS reference:	PSTN-ISDN/Supplementary_services/CCNR/710902	
Selection criteria:	• OLE and DLE are supporting the CCNR supplementary service and this supplementary service is available to user A • Signalling procedures at the T reference point at user B	
Test purpose:	Ensure that user A after the successful CCNR Activation can establish a successful CCNR call to user B.	
Parameter values:		
Comments:		

710903	ISDN ref. to: EN 301 065-1 [45]	Other relevant ref.:
TSS reference:	PSTN-ISDN/Supplementary_services/CCNR/710903	
Selection criteria:	• OLE and DLE are supporting the CCNR supplementary service and this supplementary service is available to user A • Signalling procedures at the coincident S and T reference point	
Test purpose:	Ensure that user A after the after the successful CCNR Activation procedure can initiate the deactivation procedure.	
Parameter values:		
Comments:		

710904	ISDN ref. to: EN 301 065-1 [45]	Other relevant ref.:
TSS reference:	PSTN-ISDN/Supplementary_services/CCNR/710904	
Selection criteria:	• OLE and DLE are supporting the CCNR supplementary service and this supplementary service is available to user A • Signalling procedures at the coincident S and T reference point at user B	
Test purpose:	Ensure that user A after the successful CCNR Activation procedure can initiate the deactivation procedure.	
Parameter values:		
Comments:		

710905	ISDN ref. to: EN 301 065-1 [45]	Other relevant ref.:
TSS reference:	PSTN-ISDN/Supplementary_services/CCNR/710905	
Selection criteria:	• OLE and DLE are supporting the CCNR supplementary service and this supplementary service is available to user A • Signalling procedures at the T reference point at user B	
Test purpose:	Ensure that user A after the successful CCNR Activation procedure can initiate the deactivation procedure.	
Parameter values:		
Comments:		

710906	ISDN ref. to: EN 301 065-1 [45]	Other relevant ref.:
TSS reference:	PSTN-ISDN/Supplementary_services/CCNR/710906	
Selection criteria:	• OLEand DLE are supporting the CCNR supplementary service and this supplementary service is available to user A • Signalling procedures at the coincident S and T reference point	
Test purpose:	Ensure that network A cannot accept the CCNR request because the CCNR supplementary service is not available to the destination	
Parameter values:		
Comments:		

6.2.7.10 DDI

711001	ISDN ref. to: EN 300 403-1 [1] subclause 5.1.5.2	Other relevant ref.:
TSS reference:	PSTN-ISDN/ Supplementary_services /DDI/711001	
Selection criteria:	• overlap sending at user A • DDI at user B	
Test purpose:	Ensure that call establishment using overlap sending is performed correctly when user B supports DDI.	
Parameter values:		
Comments:	The network in the call state N25 to indicate that an INFORMATION message received from the originating network contained a Called party number information element with the full ISDN number including DDI digits and a Sending complete information element is to be sent to the called user, transmits to user B an INFORMATION message with a valid Called party number information element with the numbering plan identification field set to "ISDN/telephony numbering plan" and type of number field set to "national number", "international number" or "subscriber number" with the full ISDN number including DDI digits contained in the number digits field.	

6.2.7.11 ECT

711101	ISDN ref. to: ETS 300 369-1 [21], subclause 9	Other relevant ref.:
TSS reference:	PSTN-ISDN/Supplementary_services /ECT/711101	
Selection criteria:		
Test purpose:	The ISDN User B is in network N2 and is provided with ECT using implicit linkage. The PLMN user A and the PLMN user C are in network N1. Ensure that when user B invokes ECT in which the call **A-B** is in the **Active call state – Call Held auxiliary state** and the call **B-C** is in the **Active call state** a connection between user A and user C is established and the calls A-B and B-C are released. The call clearing procedure of the B-C connection is performed from user B.	
Parameter values:		
Comments:		

711102	ISDN ref. to: ETS 300 369-1 [21], subclause 9	Other relevant ref.:
TSS reference:	PSTN-ISDN/Supplementary_services /ECT/711102	
Selection criteria:		
Test purpose:	The ISDN user B is in network N2 and is provided with ECT using implicit linkage. The PLMN user A and PLMN user C are in network N1. Ensure that when user B invokes ECT in which the call **A-B** is in the **Active call sate** and the call **B-C** is in the **Active call state – Call Held auxiliary state,** a connection between user A and user C is established and the calls A-B and B-C are released. The call clearing procedure of the B-C connection is performed from user C.	
Parameter values:		
Comments:		

711102	ISDN ref. to: ETS 300 369-1 [21], subclause 9	Other relevant ref.:
TSS reference:	PSTN-ISDN/Supplementary_services /ECT/711102	
Selection criteria:		
Test purpose:	The ISDN user B is in network N2 and is provided with ECT using implicit linkage. Ensure that when user B invokes ECT in which the call **A-B** is in the **Active call state – Call Held auxiliary state** and the call **B-C** is in the **Call Delivered State** a connection between user A and user C is established and the calls A-B and B-C are released. When network C receives a CONNECT message from user C, network C shall proceed with the basic call procedure for the user C. The call clearing procedure of the B-C connection is performed from user B.	
Parameter values:		
Comments:		

711103	ISDN ref. to: ETS 300 369-1 [21], subclause 9	Other relevant ref.:
TSS reference:	PSTN-ISDN/Supplementary_services /ECT/711103	
Selection criteria:		
Test purpose:	The ISDN user B is in network N2 and is provided with ECT using implicit linkage. Ensure that when user B invokes ECT in which the call **A-B** is in the **Active call state** and the call **B-C** is in the **Call Delivered State – Call Held auxiliary state,** a connection between user A and user C is established and the calls A-B and B-C are released. When network C receives a CONNECT message from user C, network C shall proceed with the basic call procedure for the user C. The call clearing procedure of the B-C connection is performed from user C.	
Parameter values:		
Comments:		

Bibliography

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

ETS 300 083: "Integrated Services Digital Network (ISDN); Circuit mode structured bearer service category usable for speech information transfer; Terminal requirements for end-to-end compatibility".

ETS 300 084: "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".

TBR 008: "Integrated Services Digital Network (ISDN); Telephony 3,1 kHz teleservice; Attachment requirements for handset terminals".

ETR 193: "Methods for Testing and Specification (MTS); Network Integration Testing (NIT); Methodology aspects; Test Co-ordination Procedure (TCP) style guide".

CCITT Recommendation I.411 (1988): "ISDN user-network interfaces - Reference configurations".

ISO/IEC 9646-2: "Information Technology-OSI Conformance Testing Methodology and Framework, Part 2: Abstract Test Suite Specification".

ISO/IEC 9646-3: "Information Technology-OSI Conformance Testing Methodology and Framework, Part 3: The Tree and Tabular Combined Notation".

ETS 300 121: "Integrated Services Digital Network (ISDN); Application of the ISDN User Part (ISUP) of CCITT Signalling System No.7 for international ISDN interconnections (ISUP version 1)".

History

Document history		
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