

**Network integration testing between  
ISDN, PLMN and PSTN;  
Part 1: Test Suite Structure and Test Purposes (TSS&TP)  
specification**

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## Foreword

This ETSI Guide (EG) has been produced by the ETSI Technical Committee Services and Protocols for Advanced Networks (SPAN) using information provided by EURESCOM P613, and is now submitted for the ETSI standards Membership Approval Procedure.

The present document is part 1 of a multi-part EG covering the Network integration testing between ISDN, PLMN and PSTN, as identified below:

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

Part 2: Abstract Test Suite (ATS), Implementation Conformance Statement (ICS) and partial Implementation eXtra Information for Testing (IXIT) proformas;

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## Introduction

The present document contains the Test Suite Structure and Test Purposes (TSS&TP) for Network Integration Testing Narrow-band Services for testing the European ISDN and PLMN, covering Network Integration Testing (NIT) between ISDN-PLMN, PSTN-PLMN, PLMN-ISDN, PLMN-PSTN and PLMN-PLMN networks. The objective is to verify the level of international end-to-end support of ISDN and PLMN services. Both bearer services (and associated teleservices) and supplementary services are checked for interworking capability and compatibility, in the European ISDN and PLMN.

The European ISDN and PLMN are 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.

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# 1 Scope

The present document specifies the Test Suite Structure and Test Purposes (TSS&TP) for Network Integration Testing (NIT) to verify the overall compatibility of ISDN, PLMN and non-ISDN (PSTN) over the national or international ISUP between networks. Network Integration Testing will assure that the appropriate requested features passes between an ISDN subscriber and the PLMN subscriber across the national or international ISUP (ISUP V2) interface.

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# 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] EG 201 018 (ETR 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".
- [3] 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".
- [4] ETS 300 080: "Integrated Services Digital Network (ISDN); ISDN lower layer protocols for telematic terminals".
- [5] 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".
- [6] 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".
- [7] 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".
- [8] 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".
- [9] 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".
- [10] 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".

- [11] 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".
- [12] 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".
- [13] 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".
- [14] 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".
- [15] ETS 300 207-1: "Integrated Services Digital Network (ISDN); Diversion supplementary services; 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 300 369-1: "Integrated Services Digital Network (ISDN); Explicit Call Transfer (ECT) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [21] ETS 300 195-1: "Integrated Services Digital Network (ISDN); Supplementary service interactions; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [22] TBR 008: "Integrated Services Digital Network (ISDN); Telephony 3,1 kHz teleservice; Attachment requirements for handset terminals".
- [23] ITU-T Recommendation I.112 (1988): "Vocabulary and terms for ISDNs".
- [24] ITU-T Recommendation I.210 (1988): "Principles of the telecommunication services supported by an ISDN and the means to describe them".
- [25] ITU-T Recommendation E.164 (1988): "Numbering plan for the ISDN era".
- [26] ISO/IEC 9646-1: "Information Technology-OSI Conformance Testing Methodology and Framework, Part 1: General Concepts".
- [27] ETS 300 502: "European digital cellular telecommunications system (Phase 2); Teleservices supported by a GSM Public Land Mobile Network (PLMN) (GSM 02.03)".
- [28] ETS 300 511: "European digital cellular telecommunications system (Phase 2); Man-Machine Interface (MMI) of the Mobile Station (MS)".
- [29] ETS 300 515: "Digital cellular telecommunications system (Phase 2); Call Forwarding (CF) supplementary services; Stage 1 (GSM 02.82)".

- [30] ETS 300 518: "Digital cellular telecommunications system (Phase 2); Closed User Group (CUG) supplementary services; Stage 1 (GSM 02.85)".
- [31] ETS 300 543: "Digital cellular telecommunications system (Phase 2); Call Forwarding (CF) supplementary services; Stage 2 (GSM 03.82)".
- [32] ETS 300 544: "European digital cellular telecommunications system (Phase 2); Call Waiting (CW) and Call Hold (HOLD) supplementary services; Stage 2 (GSM 03.83)".
- [33] ETS 300 546: "Digital cellular telecommunications system (Phase 2); Closed User Group (CUG) supplementary services; Stage 2 (GSM 03.85)".
- [34] ETS 300 548: "European digital cellular telecommunications system (Phase 2); Call Barring (CB) supplementary services; Stage 2 (GSM 03.88)".
- [35] ETS 300 557: "Digital cellular telecommunications system (Phase 2); Mobile radio interface; Layer 3 specification (GSM 04.08 version 4.23.1)".
- [36] ETS 300 565: "European digital cellular telecommunications system (Phase 2); Line identification supplementary services; Stage 3 (GSM 04.81)".
- [37] ETS 300 566: "Digital cellular telecommunications system (Phase 2); Call Forwarding (CF) supplementary services; Stage 3 (GSM 04.82)".
- [38] ETS 300 567: "Digital cellular telecommunications system (Phase 2); Call Waiting (CW) and Call Hold (HOLD) supplementary services; Stage 3 (GSM 04.83)".
- [39] ETS 300 569: "Digital cellular telecommunications system (Phase 2); Closed User Group (CUG) supplementary services; Stage 3 (GSM 04.85)".
- [40] ETS 300 582: "Digital cellular telecommunications system (Phase 2); General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS) (GSM 07.01)".
- [41] ETS 300 599: "Digital cellular telecommunications system (Phase 2); Mobile Application Part (MAP) specification (GSM 09.02 version 4.17.1)".
- [42] ETS 300 604: "Digital cellular telecommunications system (Phase 2); General requirements on interworking between the Public Land Mobile Network (PLMN) and the Integrated Services Digital Network (ISDN) or Public Switched Telephone Network (PSTN) (GSM 09.07 version 4.13.1)".
- [43] ITU-T Recommendation Q.764 (1993): "Specifications of Signalling System No.7; Signalling procedures".
- [44] ETS 300 587-2: "European digital cellular telecommunications system (Phase 2); Base Station System - Mobile-services Switching Centre (BSS - MSC) interface; Interface principles (GSM 08.02)".
- [45] ETS 300 524: "European digital cellular telecommunications system (Phase 2); Signalling requirements relating to routing of calls to mobile subscribers (GSM 03.04)".
- [46] ETS 300 102-1: "Integrated Services Digital Network (ISDN); User-network interface layer 3; Specifications for basic call control".
- [47] ITU-T Recommendation V.110 (1996): "Support by an ISDN of data terminal equipments with V-Series type interfaces".
- [48] ITU-T Recommendation G.711 (1988): "Pulse code modulation (PCM) of voice frequencies".
- [49] ITU-T Recommendation X.30 (1993): "Support of X.21, X.21 bis and X.20 bis based Data Terminal Equipments (DTEs) by an Integrated Services Digital Network (ISDN)".
- [50] ITU-T Recommendation F.721 (1992): "Videotelephony teleservice for ISDN".



- [51] ITU-T Recommendation F.182 (1996): "Guidelines for the support of the communication of documents using Group 3 facsimile between user terminals via public networks".
- [52] ISO/IEC 8208 (1995): "Information technology - Data communications - X.25 Packet Layer Protocol for Data Terminal Equipment".
- [53] ISO/IEC 7776 (1995): "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".
- [54] ITU-T Recommendation V.120 (1996): "Support by an ISDN of data terminal equipment with V-Series type interfaces with provision for statistical multiplexing".
- [55] ETS 300 578: "Digital cellular telecommunications system (Phase 2); Radio subsystem link control (GSM 05.08 version 4.22.0)".
- [56] ITU-T Recommendation G.101 (1996): "The transmission plan".
- [57] ETS 300 542: "Digital cellular telecommunications system (Phase 2); Line identification supplementary services; Stage 2 (GSM 03.81 version 4.8.1)".
- [58] ITU-T Recommendation H.221 (1999): "Frame structure for a 64 to 1920 kbit/s channel in audiovisual teleservices".
- [59] ITU-T Recommendation H.242 (1999): "System for establishing communication between audiovisual terminals using digital channels up to 2 Mbit/s".

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## 3 Definitions

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

### 3.1 Definitions related to conformance testing

**abstract test case:** refer to ISO/IEC 9646-1 [26]

**abstract test suite:** refer to ISO/IEC 9646-1 [26]

**implementation under test:** refer to ISO/IEC 9646-1 [26]

**lower tester:** refer to ISO/IEC 9646-1 [26]

**Implementation Conformance Statement (ICS) proforma:** refer to ISO/IEC 9646-1 [26]

**Implementation eXtra Information for Testing (IXIT) proforma:** refer to ISO/IEC 9646-1 [26]

**point of control and observation:** refer to ISO/IEC 9646-1 [26]

**protocol implementation conformance statement:** refer to ISO/IEC 9646-1 [26]

**protocol implementation extra information for testing:** refer to ISO/IEC 9646-1 [26]

**system under test:** refer to ISO/IEC 9646-1 [26]

**test purpose:** refer to ISO/IEC 9646-1 [26]

## 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 ITU-T Recommendation I.112 [23], subclause 2.2 definition 308

**service:** telecommunications service: see ITU-T Recommendation I.112 [23], subclause 2.2 definition 201

**supplementary service:** see ITU-T Recommendation I.210 [24], subclause 2.4

**ISDN number:** number conforming to the numbering and structure specified in ITU-T Recommendation E.164 [25]

## 3.3 Configuration of the mobile network

### 3.3.1 The entities of the mobile system

To provide the mobile service as it is defined, it is necessary to introduce some specific functions. These functional entities can be implemented in different equipment's or integrated. In any case, exchanges of data occur between these entities.

#### 3.3.1.1 The Home Location Register (HLR)

This functional entity is a data base in charge of the management of mobile subscribers. A PLMN may contain one or several HLRs; it depends on the number of mobile subscribers, on the capacity of the equipment and on the organization of the network. All subscription data are stored there. The main information stored there concerns the location of each mobile station in order to be able to route calls to the mobile subscribers managed by each HLR. All management interventions occur on this data base. The HLRs have no direct control of MSCs.

#### 3.3.1.2 The Visitor Location Register (VLR)

An MS roaming in an MSC area is controlled by the Visitor Location Register in charge of this area. When an MS appears in a location area it starts a location updating procedure. The MSC in charge of that area notices this registration and transfers to the Visitor Location Register the identity of the location area where the MS is situated. A VLR may be in charge of one or several MSC areas.

The VLR also contains the information needed to handle the calls set up or received by the MSs registered in its data base (in some cases the VLR may have to obtain additional information from the HLR).

#### 3.3.1.3 The Mobile-services Switching Centre (MSC)

The Mobile-services Switching Centre is an exchange which performs all the switching functions for mobile stations located in a geographical area designated as the MSC area. The main difference between an MSC and an exchange in a fixed network is that the MSC has to take into account the impact of the allocation of radio resources and the mobile nature of the subscribers and has to perform, for example, the following procedures:

- procedures required for the location registration;
- procedures required for hand-over.

#### 3.3.1.4 The Base Station System (BSS)

The BSS is the sub-system of Base Station equipment (transceivers, controllers, etc.) which is viewed by the MSC through a single interface (A-interface) with the functionality described in ETS 300 587-2 [44] (GSM 08.02).

### 3.3.1.5 The Gateway MSC (GMSC)

In the case of incoming calls to the PLMN, if the fixed network is unable to interrogate the HLR, the call is routed to an MSC. This MSC will interrogate the appropriate HLR and then route the call to the MSC where the mobile station is located. The MSC which then performs the routing function to the actual location of the mobile is called the Gateway MSC. The choice of which MSCs can act as Gateway MSCs is a network operator matter (e.g. all MSCs or some designated MSCs).

### 3.3.1.6 The SMS Gateway MSC

The SMS GMSC is the interface between the Mobile Network and the network which provides access to the Short Message Service Centre, for short messages to be delivered to mobile stations. The choice of which MSCs can act as SMS Gateway MSCs is a network operator matter (e.g. all MSCs or some designated MSCs).

### 3.3.1.7 The SMS Interworking MSC

The SMS IWMSC is the interface between the Mobile Network and the network which provides access to the Short Message Service Centre, for short messages submitted by mobile stations. The choice of which MSCs can act as SMS Interworking MSCs is a network operator matter (e.g. all MSCs or some designated MSCs).

### 3.3.1.8 The Equipment Identity Register (EIR)

This functional unit is a data base in charge of the management of the equipment identities of the mobile stations; see also GSM 02.16.

## 3.3.2 Configuration of a Public Land Mobile Network (PLMN)

The basic configuration of a Public Land Mobile Network is presented in figure 2.2/1. In this figure the most general solution is described in order to define all the possible interfaces which can be found in any PLMN. The specific implementation in each network may be different: some particular functions may be implemented in the same equipment and then some interfaces may become internal interfaces. In any case the configuration of a PLMN must have no impact on the relationship with the other PLMNs. In this configuration, all the functions are considered implemented in different equipment's. Therefore, all the interfaces are external and need the support of the Mobile Application Part of the Signalling System No. 7 to exchange the data necessary to support the mobile service. From this configuration, all the possible PLMN organizations can be deduced.

## 3.3.3 Interconnection between PLMNs

Since the configuration of a PLMN does not have any impact on other PLMNs, the signalling interfaces specified can be implemented both between the entities within a PLMN and between different PLMNs.

## 3.3.4 The interfaces within the mobile service

### 3.3.4.1 Interface between the HLR and the VLR (D-interface)

This interface is used to exchange the data related to the location of the mobile station and to the management of the subscriber. The main service provided to the mobile subscriber is the capability to set up or to receive calls within the whole service area. To support that purpose the location registers have to exchange data. The VLR informs the HLR on the registration of a mobile station managed by the latter and provides it with the relevant location information. The HLR sends to the VLR all the data needed to support the service to the mobile station. The HLR then calls the previous VLR to inform it that it can cancel the location registration of this station because of the roaming of the mobile.

Exchanges of data may also occur when the mobile subscriber requires a particular service, when he wants to change some data attached to his subscription or when some parameters of the subscription are modified by administrative means.

### 3.3.4.2 Interface between the VLR and its associated MSC(s) (B-interface)

The VLR is the location and management data base for the mobile stations roaming in the area controlled by the associated MSC(s). Whenever the MSC needs data related to a given mobile station currently located in its area, it interrogates the VLR. When a mobile station initiates a location updating procedure with an MSC, the MSC informs its VLR which stores the relevant information in its tables. This procedure occurs whenever a mobile roams to another location area. Also, for instance when a subscriber activates a specific supplementary service or modifies some data attached to a service, the MSC transfers (via the VLR) the request to the HLR, which stores these modifications and updates the VLR if required.

However, this interface is not fully operational specified. It is strongly recommended not to implement the B-interface as an external interface.

### 3.3.4.3 Interface between VLRs (G-interface)

When an MS initiates a location updating using TMSI, the VLR can fetch the IMSI and authentication set from the previous VLR.

### 3.3.4.4 Interface between the HLR and the MSC (C-interface)

When the fixed network is not able to perform the interrogation procedure needed to set up a call to a mobile subscriber, the Gateway MSC has to interrogate the HLR of the called subscriber to obtain the roaming number of the called MS (see ETS 300 524 [45] (GSM 03.04)).

To forward a short message to a mobile subscriber, the SMS Gateway MSC has to interrogate the HLR to obtain the MSC number where the MS is located.

### 3.3.4.5 Interface between MSCs (E-interface)

When a mobile station moves from one MSC area to another during a call, a handover procedure has to be performed in order to continue the communication. For that purpose the MSCs involved have to exchange data to initiate and then to realize the operation.

This interface is also used to forward short messages.

### 3.3.4.6 Interface between the MSC and Base Station Systems (A-interface)

The description of this interface is contained in the GSM 08-series of Mobile stations.

The BSS-MSC interface carries information concerning:

- BSS management;
- call handling;
- location management.

### 3.3.5 Access reference configuration

#### 3.3.5.1 Mobile Termination (MT)

Mobile Termination (MT) performs the following functions:

- radio transmission termination;
- radio transmission channel management;
- terminal capabilities, including presentation of a man-machine interface to a user;
- speech encoding/decoding;
- error protection for all information sent across the radio path. This includes FEC (forward error correction) and, for signalling and user data (except for transparent data services), ARQ (automatic request fore transmission);
- flow control of signalling and mapping of user signalling to/from PLMN access signalling;
- flow control of user data (except for transparent data services) and mapping of flow control for asynchronous transparent data services;
- rate adaptation of user data between the radio channel rate and user rates;
- multiple terminal support;
- mobility management.

There are three types of MT:

- MT0 includes functions belonging to the functional group MT, with support of no terminal interfaces;
- MT1 includes functions belonging to the functional group MT, and with an interface that complies with the GSM recommended subset of the ISDN user-network interface specifications;
- MT2 includes functions belonging to the functional group MT, and with an interface that complies with the GSM recommended subset of the ITU-T X or V series interface recommendations.

The MT plus any TE/(TE + TA) constitutes the Mobile Station, MS.

#### 3.3.5.2 Physical Realization

In a GSM PLMN, the reference point Um is a GSM interface point, i.e. it is always implemented as a physical interface. The reference points S and R may be optionally implemented as physical interfaces.

## 3.4 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 "ITU-T Recommendation G.711 [48] 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 "ITU-T Recommendation G.711 [48] A-law"

**BC=UDI:** Bearer capability information element with its information transfer capability set to "unrestricted digital information" [1]

**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 "ITU-T Recommendations H.221 [58] and H.242 [59]"

**BC= V110/X30:** Bearer capability information element with its information transfer capability set to "unrestricted digital information" and its user information layer 1 field set to "ITU-T standardized rate adaption V.110/X.30", including sync/async and user rate values [1]

**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 (Rec. F.721 [50] )" and its extended audiovisual characteristics field set to "capability set of initial channel of ITU-T Recommendation H.221 [58]"

**HLC = Facsimile G2/G3:** High Layer compatibility information element with its high layer characteristics identification field set to "facsimile group 2/3 (ITU-T Recommendation F.182 [51])"

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

**HLC=telex:** High Layer compatibility information element with its high layer characteristics identification field set to "telex" [1]

**LLC=telematic\_term:** Low Layer compatibility information element with its user information layer 2 field indicating "ISO/IEC 7776 [53] / DTE-DTE operation" and user information layer 3 field indicating "ISO/IEC 8208 [52]"

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

**LLC = V110/X30:** Low Layer compatibility information element with its user information layer 1 field indicating "ITU-T standardized rate adaption V.110/X.30" and including sync/async and user rate values [5]

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

**SI=NP:** Screening Indicator coded as "Network provided" [1]

**PI=PR:** Presentation Indicator coded as "Presentation restricted" [1]

**TON=international:** Type of number coded as "international" [1]

**TON=unknown:** Type of number coded as "unknown" [1]

**NPI=unknown:** Numbering plan identification coded as "unknown" [1]

**CUG default request:** calling user do not include in the outgoing SETUP message a explicit request for the CUG supplementary service [10]

**UI length=32:** length of the User information field of the User-user information element is 35 octets

**CF active:** call forwarding (U, B or NR) supplementary service is already activated with the address of user C [15]

**GSM - Bearer service categories:** all bearer service categories provide information transfer between R/S reference points and allow the use of sub-rate information streams which are rate adapted

**GSM-BC=UDI:** Unrestricted Digital Information (UDI); Provides the transfer of unrestricted digital information

**GSM-BC= 3,1 kHz (External to the PLMN):** used to select a "3,1 kHz audio" interworking function at the MSC. This service category is used when interworking with the ISDN or PSTN "3,1 kHz audio" service and includes the capability to select a modem at the interworking function. "External to the PLMN" indicates that the "3,1 kHz audio" service is only used outside of the PLMN, in the ISDN/PSTN. The connection within the PLMN, user access point to the interworking function, is an unrestricted digital connection

**Alternate Speech/Data:** provides the capability to swap between speech and data during a call

If either the speech or data portion of the call requires a full rate channel, a full rate channel shall be used for the duration of the call

The access interface at the mobile station for the data portion is assumed to be a standard data interface. Some means must be provided to select the speech/data capability

**Speech followed by Data:** provides a speech connection first and then at some time while the call is in progress, the user can switch to a data connection. The user cannot switch back to speech after the data portion. If either the speech or data portion of the call requires a full rate channel, a full rate channel shall be used from the start of the call. The network may then change to a half rate channel for the data portion

**GSM teleservices:** teleservices supported by a GSM PLMN are described by a number of attributes which are intended to be largely independent. They are grouped into three categories:

- high layer attributes;
- low layer attributes (describing the Bearer capabilities which support the Teleservice);
- information transfer attributes;
- access attributes;
- General attributes.

**GSM-BC= Speech (TS 11):** this service provides the transmission of speech information and audible signalling tones of the PSTN/ISDN. In the GSM PLMN and the fixed network processing technique appropriate for speech such as analogue transmission, echo cancellation and low bit rate voice encoding may be used

**Alternate speech and facsimile group 3 (TS 61):** this Teleservice allows the connection of ITU-T group 3 fax apparatus (send and/or receive) to the mobile stations of a GSM PLMN. Facsimile connections may be established to/from group 3 apparatus in the PSTN, ISDN or GSM PLMN

**Automatic Facs. group 3 (TS 62):** this teleservice allows connection of ITU-T group 3 fax apparatus to and from the mobile stations of a GSM PLMN. Facsimile connections may be established to and from group 3 apparatus in the PSTN, ISDN or GSM PLMN

## 4 Abbreviations

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

|        |  |
|--------|--|
| 3PTY   | Three-party conference                             |
| ATS    | Abstract Test Suite                                |
| BC     | Bearer capability information element              |
| BSS    | Base Station Sub-system                            |
| BSSMAP | BSS Management Part                                |
| CD     | Call deflection                                    |
| CFB    | Call forwarding busy                               |
| CFNR   | Call forwarding no response                        |
| CFNRc  | Call forwarding on mobile subscriber not reachable |
| CFNRy  | Call forwarding on no reply                        |
| CFU    | Call forwarding unconditional                      |
| CI     | CUG Index  |
| 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                                  |
| CUG    | Closed User Group                                  |
| CW     | Call waiting                                       |
| ECT    | Explicit call transfer                             |
| ESR    | Eroded Seconds Ratio                               |
| FPH    | Freephone service                                  |
| FTAM   | File Transfer Access & Management                  |
| GMSC   | Gateway MSC  |
| GSM    | Global System for Mobile Communication             |
| HLC    | High layer compatibility information element       |

|        |   |
|--------|---|
| HLR    | Home Location Register                                    |
| HPLMN  | Home PLMN   |
| IA     | Incoming Access   |
| ICB    | Incoming Calls Barred within a CUG                        |
| IMSI   | International Mobile Subscriber Identity                  |
| ISDN   | Integrated Services Digital Network                       |
| ISUP   | ISDN User Part  |
| LLC    | Low layer compatibility information element               |
| MAP    | Mobile Application Part                                   |
| MCID   | Malicious call identification                             |
| MS     | Mobile Station  |
| MSC    | Mobile Switching Center                                   |
| MSISDN | Mobile Station ISDN number                                |
| MT     | Mobile Terminated   |
| MTC    | Mobile Terminated Call                                    |
| MTP    | Message Transfer Part                                     |
| NIT    | Network Integration Testing                               |
| OCB    | Outgoing Calls Barred within a CUG                        |
| ONP    | Open Network Provision                                    |
| OSI    | Open Systems Interconnection                              |
| PC     | Preferential CUG  |
| PI     | Presentation indicator                                    |
| PIXIT  | Protocol Implementation eXtra Information for Testing     |
| PSTN   | Public Switched Telephone Network                         |
| SI     | Screening indicator                                       |
| SIM    | Subscriber Identity Module                                |
| SS     | Supplementary Service                                     |
| SUB    | Subaddressing   |
| TC     | Test Case   |
| TMSI   | Temporary Mobile Subscriber Identity                      |
| TON    | Type of number  |
| TP     | Terminal portability                                      |
| TP     | Test Plant  |
| TSS    | Test Suite Structure                                      |
| TSS&TP | Test Suite Structure and Test Purposes                    |
| UDI    | Unrestricted digital information                          |
| UDI-TA | Unrestricted digital information with tones/announcements |
| UUS    | User-to-user signalling                                   |
| UUS1   | UUS service 1   |
| UUS2   | UUS service 2   |
| UUS3   | UUS service 3   |
| VLR    | Visitor Location Register                                 |
| VPLMN  | Visited PLMN  |

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## 5 Test Suite Structure (TSS)

### 5.1 ISDN-PLMN





## 5.2 PSTN-PLMN

| PSTN-PLMN | Basic Call (1)             | Successful (1)        | 4101xx |
|-----------|----------------------------|-----------------------|--------|
|           |                            | Unsuccessful (2)      | 4201xx |
|           | Supplementary Services (2) |                       |        |
|           |                            | CLIP                  | 5101xx |
|           |                            | CLIR                  | 5102xx |
|           |                            | CUG                   | 5103xx |
|           |                            | CFU                   | 5104xx |
|           |                            | CFB                   | 5105xx |
|           |                            | CFNRy                 | 5106xx |
|           |                            | CFNRc                 | 5107xx |
|           |                            | non-symmetrical tests |        |
|           |                            | Call Barring services | 5201xx |
|           |                            | MPTY                  | 5202xx |
|           | B-channel (3)              |                       | 6101xx |

## 5.3 PLMN-ISDN

| PLMN-ISDN | Basic_Call (1)                    | Successful (1)          |   |
|-----------|-----------------------------------|-------------------------|---|
|           |                                   |                         | Speech 7101xx                                 |
|           |                                   |                         | 3,1 kHz audio ex PLMN 7102xx                  |
|           |                                   |                         | UDI 7103xx                                    |
|           |                                   |                         | Facsimile G3 7104xx                           |
|           |                                   |                         | Alternate speech and facsimile group 3 7105xx |
|           |                                   |                         | Alternate Speech/Data 7106xx                  |
|           |                                   |                         | Speech followed by data 7107xx                |
|           |                                   |                         | Emergency Calls 7108xx                        |
|           |                                   | <b>Unsuccessful (2)</b> | Speech 7201xx                                 |
|           |                                   |                         | 3,1 kHz audio ex PLMN 7202xx                  |
|           |                                   |                         | UDI 7203xx                                    |
|           |                                   |                         | Facsimile G3 7204xx                           |
|           |                                   |                         | Alternate speech and facsimile group 3 7205xx |
|           |                                   |                         | Emergency Calls 7206xx                        |
|           | <b>Supplementary Services (2)</b> | <b>Speech (1)</b>       | CLIP 8101xx                                   |
|           |                                   |                         | CLIR 8102xx                                   |
|           |                                   |                         | COLP 8103xx                                   |
|           |                                   |                         | COLR 8104xx                                   |
|           |                                   |                         | CUG 8105xx                                    |
|           |                                   |                         | SUB 8106xx                                    |
|           |                                   |                         | CFU 8107xx                                    |
|           |                                   |                         | CFB 8108xx                                    |
|           |                                   |                         | CFNR 8109xx                                   |
|           |                                   |                         | HOLD 8110xx                                   |
|           |                                   |                         | CW 8111xx                                     |
|           |                                   |                         | UUS 1 implicit 8112xx                         |
|           |                                   |                         | non-symmetrical tests                         |
|           |                                   |                         | TP 8201xx                                     |
|           |                                   |                         | MCID 8202xx                                   |
|           |                                   |                         | MPTY 8203xx                                   |
|           |                                   |                         | ECT 8204xx                                    |
|           |                                   |                         | CD 8205xx                                     |
|           |                                   |                         | Call Barring services 8206xx                  |
|           |                                   |                         | CONF 8207xx                                   |
|           |                                   |                         | 3PTY 8208xx                                   |
|           |                                   | <b>UDI (2)</b>          | CLIP 8301xx                                   |
|           |                                   |                         | CLIR 8302xx                                   |
|           |                                   |                         | COLP 8303xx                                   |
|           |                                   |                         | COLR 8304xx                                   |
|           |                                   |                         | CUG 8305xx                                    |
|           |                                   |                         | SUB 8306xx                                    |
|           |                                   |                         | CFU 8307xx                                    |
|           |                                   |                         | CFB 8308xx                                    |
|           |                                   |                         | CFNR 8309xx                                   |
|           |                                   |                         | UUS 1 implicit 8310xx                         |
|           |                                   |                         | non-symmetrical tests                         |
|           |                                   |                         | Call Barring services 8401xx                  |
|           |                                   |                         | CD 8402xx                                     |
|           | <b>B-channel (3)</b>              | <b>(1)</b>              | Speech 9101xx                                 |
|           |                                   |                         | 3,1 kHz audio ex PLMN 9102xx                  |
|           |                                   |                         | UDI 9103xx                                    |

## 5.4 PLMN-PSTN

| PLMN-PSTN                     | Basic_Call (1)                    | Successful (1)          |  |                         |
|-------------------------------|-----------------------------------|-------------------------|--|-------------------------|
|                               |                                   |                         | Speech 10101xx                                 |                         |
|                               |                                   |                         | 3,1 kHz audio ex PLMN 10102xx                  |                         |
|                               |                                   |                         | Facsimile G3 10103xx                           |                         |
|                               |                                   |                         | Alternate speech and facsimile group 3 10104xx |                         |
|                               |                                   |                         | Emergency Calls 10105xx                        |                         |
|                               |                                   | <b>Unsuccessful (2)</b> | Speech 10201xx                                 |                         |
|                               |                                   |                         | 3,1 kHz audio 10202xx                          |                         |
|                               |                                   |                         | Facsimile G3 10203xx                           |                         |
|                               |                                   |                         | Alternate speech and facsimile group 3 10204xx |                         |
|                               |                                   |                         | UDI 10205xx                                    |                         |
|                               | <b>Supplementary Services (2)</b> |                         | <b>Speech (1)</b>                              | Emergency Calls 10206xx |
|                               |                                   |                         |  | CLIP 11101xx            |
|                               |                                   |                         |  | CLIR 11102xx            |
|                               |                                   |                         |  | COLR 11103xx            |
|                               |                                   |                         |  | CUG 11104xx             |
|                               |                                   |                         |  | CFU 11105xx             |
|                               |                                   |                         |  | CFB 11106xx             |
|                               |                                   |                         |  | CFNR 11107xx            |
|                               |                                   |                         |  | non-symmetrical tests   |
|                               |                                   |                         |  | MCID 11201xx            |
| MPTY 11202xx                  |                                   |                         |  |                         |
| Call barring services 11203xx |                                   |                         |  |                         |
| <b>B-channel (3)</b>          |                                   | <b>(1)</b>              | Speech 12101xx                                 |                         |
|                               |                                   |                         | 3,1 kHz audio ex PLMN 12102xx                  |                         |
|                               |                                   |                         | Facsimile G3 12103xx                           |                         |
|                               |                                   |                         | Alternate speech and facsimile group 3 12104xx |                         |
|                               |                                   |                         | Speech followed by data 12105xx                |                         |
|                               |                                   |                         | Emergency Calls 12106xx                        |                         |

## 5.5 PLMN-PLMN

| PLMN-PLMN                     | Basic_Call (1)                    | Successful (1)          |  |                   |
|-------------------------------|-----------------------------------|-------------------------|--|-------------------|
|                               |                                   |                         | Speech 13101xx                                 |                   |
|                               |                                   |                         | 3,1 kHz audio ex PLMN 13102xx                  |                   |
|                               |                                   |                         | UDI 13103xx                                    |                   |
|                               |                                   |                         | Facsimile G3 13104xx                           |                   |
|                               |                                   |                         | Alternate speech and facsimile group 3 13105xx |                   |
|                               |                                   |                         | Alternate Speech/Data 13106xx                  |                   |
|                               |                                   |                         | Speech followed by data 13107xx                |                   |
|                               |                                   |                         | Short message service 13108xx                  |                   |
|                               |                                   | <b>Unsuccessful (2)</b> | Speech 13201xx                                 |                   |
|                               |                                   |                         | 3,1 kHz audio ex PLMN 13202xx                  |                   |
|                               |                                   |                         | UDI 13203xx                                    |                   |
|                               |                                   |                         | Facsimile G3 13204xx                           |                   |
|                               |                                   |                         | Alternate speech and facsimile group 3 13205xx |                   |
|                               | <b>Supplementary Services (2)</b> |                         |  | <b>Speech (1)</b> |
|                               |                                   |                         |  | CLIP 14101xx      |
|                               |                                   |                         |  | CLIR 14102xx      |
|                               |                                   |                         |  | COLP 14103xx      |
|                               |                                   |                         |  | COLR 14104xx      |
|                               |                                   |                         |  | CUG 14105xx       |
|                               |                                   |                         |  | SUB 14106xx       |
|                               |                                   |                         |  | CFU 14107xx       |
|                               |                                   |                         |  | CFB 14108xx       |
|                               |                                   |                         |  | CFNRy 14109xx     |
|                               |                                   |                         |  | CFNRc 14110xx     |
| HOLD 14111xx                  |                                   |                         |  |                   |
| CW 14112xx                    |                                   |                         |  |                   |
| UUS 1 implicit 14113xx        |                                   |                         |  |                   |
| MPTY 14114xx                  |                                   |                         |  |                   |
| Call Barring services 14115xx |                                   |                         |  |                   |
| Interactions                  |                                   |                         |  |                   |
| CUG_CFU 14116xx               |                                   |                         |  |                   |
| CFB_CW 14117xx                |                                   |                         |  |                   |
|                               |                                   |                         | <b>UDI (2)</b>                                 |                   |
|                               |                                   |                         | CLIP 14201xx                                   |                   |
|                               |                                   |                         | CLIR 14202xx                                   |                   |
|                               |                                   |                         | COLP 14203xx                                   |                   |
|                               |                                   |                         | COLR 14204xx                                   |                   |
|                               |                                   |                         | CUG 14205xx                                    |                   |
|                               |                                   |                         | SUB 14206xx                                    |                   |
|                               |                                   |                         | CFU 14207xx                                    |                   |
|                               |                                   |                         | CFB 14208xx                                    |                   |
|                               |                                   |                         | CFNRy 14209xx                                  |                   |
|                               |                                   |                         | CFNRc 14210xx                                  |                   |
|                               |                                   |                         | UUS 1 implicit 14211xx                         |                   |
|                               |                                   |                         | Call Barring services 14212xx                  |                   |
| Interactions                  |                                   |                         |  |                   |
| CUG_CFU 14213xx               |                                   |                         |  |                   |
| <b>B-channel (3)</b>          |                                   | <b>(1)</b>              | Speech 15101xx                                 |                   |
|                               |                                   |                         | 3,1 kHz audio ex PLMN 15102xx                  |                   |
|                               |                                   |                         | UDI 15103xx                                    |                   |

NOTE: Numbers in brackets represent group/subgroup numbers and are used in Test Purpose identifiers.

## 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 or seven figure numbering scheme where the first figure (or both the first and the second figures) 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 or 2 digit field representing group reference according to TSS

1 = ISDN-PLMN/Basic\_call

2 = ISDN-PLMN/Supplementary\_services

3 = ISDN-PLMN/B-channel

4 = PSTN-PLMN/Basic\_call

5 = PSTN-PLMN/Supplementary\_services

6 = PSTN-PLMN/B-channel

7 = PLMN-ISDN/Basic\_call

8 = PLMN-ISDN/Supplementary\_services

9 = PLMN-ISDN/B-channel

10 = PLMN-PSTN/Basic\_call

11 = PLMN-PSTN/Supplementary\_services

12 = PLMN-PSTN/B-channel

13 = PLMN-PLMN/Basic\_call

14 = PLMN-PLMN/Supplementary\_services

15 = PLMN-PLMN/B-channel

<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 for ISDN are based on EN 300 403-1 [1] and the applicable standards for supplementary services.

The Test Purposes for PLMN are based on ETS 300 557 [35] (GSM 04.08), ETS 300 599 [41] (GSM 09.02), ETS 300 604 [42] (GSM 09.07) 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 for ISDN/PSTN -PLMN tests**

| <b>Identifier</b>                | <b>ISDN or PSTN ref. to:</b>                                   | <b>PLMN ref. to:</b> |
|----------------------------------|--|----------------------|
| TSS reference:                   | Test Suite Structure reference                                 |                      |
| ISDN or PSTN selection criteria: | The criteria necessary in order to select the ISDN test        |                      |
| PLMN selection criteria:         | The criteria necessary in order to select the PLMN test        |                      |
| Test purpose:                    | Description of the test purpose                                |                      |
| ISDN or PSTN Parameter values:   | Values of parameters used for the ISDN or PSTN test execution. |                      |
| PLMN Parameter values:           | Values of parameters used for the PLMN test execution.         |                      |
| Comments:                        | Any relevant comments and reference                            |                      |

**Table 3: Format of a single Test Purpose for PLMN-PLMN tests**

| <b>Identifier</b>                | <b>PLMN ref. to:</b>  |  |
|----------------------------------|---|--|
| TSS reference:                   | Test Suite Structure reference                                  |  |
| PLMN selection criteria origin.: | The criteria necessary in order to select the PLMN origin. Test |  |
| PLMN selection criteria term.:   | The criteria necessary in order to select the PLMN dest. Test   |  |
| Test purpose:                    | Description of the test purpose                                 |  |
| PLMN parameter values origin.:   | Values of parameters used for the PLMN origin. test execution.  |  |
| PLMN parameter values term.:     | Values of parameters used for the PLMN term. test execution.    |  |
| Comments:                        | Any relevant comments and reference                             |  |

## 6.2 Test Purposes

### 6.2.1 Test purposes for ISDN-PLMN, Basic call

#### 6.2.1.1 Successful

|            |
|------------|
| Successful |
| Speech     |

|                                 |  |   |
|---------------------------------|--|---|
| <b>110101</b>                   | <b>ISDN ref. to:<br/>EN 300 403-1 [1],<br/>subclause 5.1.5.1</b>             | <b>PLMN ref. to:<br/>ETS 300 557 [35], subclause 5.2.2<br/>ETS 300 604 [42], subclause 10.2.2</b> |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Successful/Speech/TC110101                              |   |
| <b>ISDN selection criteria:</b> | Speech   |   |
| <b>PLMN selection criteria:</b> | TS 11  |   |
| <b>Test purpose:</b>            | Ensure that call establishment using en-bloc sending is performed correctly. |   |
| <b>ISDN parameter values:</b>   | BC=speech, no HLC  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech, no HLC  |   |
| <b>Comments:</b>                |  |   |

|                                 |  |   |
|---------------------------------|--|---|
| <b>110102</b>                   | <b>ISDN ref. to:<br/>EN 300 403-1 [1],<br/>subclause 5.1.5.2</b>             | <b>PLMN ref. to:<br/>ETS 300 557 [35], subclause 5.2.2<br/>ETS 300 604 [42], subclause 10.2.2</b> |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Successful/Speech/TC110102                              |   |
| <b>ISDN selection criteria:</b> | Speech   |   |
| <b>PLMN selection criteria:</b> | TS 11  |   |
| <b>Test purpose:</b>            | Ensure that call establishment using overlap sending is performed correctly. |   |
| <b>ISDN parameter values:</b>   | BC=speech, no HLC  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech, no HLC  |   |
| <b>Comments:</b>                |  |   |

|                                 |   |   |
|---------------------------------|---|---|
| <b>110103</b>                   | <b>ISDN ref. to:<br/>EN 300 403-1 [1],<br/>subclause 5.3.3</b>  | <b>PLMN ref. to:<br/>ETS 300 557 [35], subclause 5.2.2<br/>ETS 300 604 [42], subclause 10.2.2</b> |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Successful/Speech/TC110103   |   |
| <b>ISDN selection criteria:</b> | Speech  |   |
| <b>PLMN selection criteria:</b> | TS 11   |   |
| <b>Test purpose:</b>            | Ensure that the call clearing procedure is performed correctly when the calling user clears after answer. |   |
| <b>ISDN parameter values:</b>   | BC=speech, no HLC   |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech, no HLC   |   |
| <b>Comments:</b>                |   |   |



|                          |  |  |
|--------------------------|--|--|
| <b>110104</b>            | ISDN ref. To:<br><b>EN 300 403-1 [1],<br/>subclause 5.3.3</b>  | PLMN ref. to:<br><b>ETS 300 557 [35], subclause 5.2.2<br/>ETS 300 604 [42], subclause 10.2.2</b> |
| TSS reference:           | ISDN-PLMN/Basic_call/Successful/Speech/TC110104  |  |
| ISDN selection criteria: | Speech   |  |
| PLMN selection criteria: | TS 11  |  |
| Test purpose:            | Ensure that the call clearing procedure is performed correctly when the called user clears after answer. |  |
| ISDN parameter values:   | BC=speech, no HLC  |  |
| PLMN parameter values:   | GSM-BC=speech, no HLC  |  |
| Comments:                |  |  |

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| <b>110105</b>            | ISDN ref. to:<br><b>EN 300 403-1 [1],<br/>subclause 4.5.17<br/>TBR 8 [22], subclause 5.1.3,<br/>EG 201 018 [2] , subclause 6.3.1</b>                                   | PLMN ref. to:<br><b>ETS 300 557 [35], subclause 5.2.2<br/>ETS 300 604 [42], subclause 10.2.2<br/>ETS 300 582 [40], subclause B.2.8</b> |
| TSS reference:           | ISDN-PLMN/Basic_call/Successful/Speech/TC110105  |  |
| ISDN selection criteria: | Speech   |  |
| PLMN selection criteria: | TS 11  |  |
| 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. |  |
| ISDN parameter values:   | BC=speech, HLC = telephony   |  |
| PLMN parameter values:   | GSM-BC=speech, HLC = telephony   |  |
| Comments:                |  |  |

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| Successful    |
| 3,1 kHz audio |

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| <b>110201</b>                   | ISDN ref. to:<br><b>EN 300 403-1 [1],<br/>subclause 5.1.5.1</b>  | PLMN ref. to:<br><b>ETS 300 557 [35], subclause 5.2.2<br/>ETS 300 604 [42], subclause 10.2.2</b> |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Successful/3,1 kHz audio/TC110201   |  |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio   |  |
| <b>PLMN selection criteria:</b> | Audio, Multi-numbering Scheme, TS 11   |  |
| <b>Test purpose:</b>            | Ensure that call establishment without exhaustive compatibility information for deducing a GSM Basic Service using en-bloc sending and the call clearing procedure is performed correctly when the calling user clears after answer. |  |
| <b>ISDN parameter values:</b>   | BC=3,1 kHz audio, no HLC   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |  |
| <b>Comments:</b>                | The call set-up to the mobile will contain a GSM BC mapped from the BC/LLC/HLC stored in the VLR   |  |

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| <b>110202</b>                   | <b>ISDN ref. to:</b><br><b>EN 300 403-1 [1], subclause 5.1.5.1</b>   | <b>PLMN ref. to:</b><br><b>ETS 300 557 [35], subclause 5.2.2</b><br><b>ETS 300 604 [42], subclause 9.2.2, 10.2.2</b> |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Successful/3,1 kHz audio/TC110202   |  |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio   |  |
| <b>PLMN selection criteria:</b> | Audio, Single numbering Scheme   |  |
| <b>Test purpose:</b>            | Ensure that call establishment without exhaustive compatibility information for deducing a GSM Basic Service using en-bloc sending (single-numbering scheme) and the call clearing procedure is performed correctly when the calling user clears after answer. |  |
| <b>ISDN parameter values:</b>   | BC=3,1 kHz audio, no HLC   |  |
| <b>PLMN parameter values:</b>   |  |  |
| <b>Comments:</b>                | The call set-up to the mobile will not contain a GSM-BC element  |  |

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| <b>110203</b>                   | <b>ISDN ref. To:</b><br><b>EN 300 403-1 [1], subclause 5.1.5.2</b>  | <b>PLMN ref. to:</b><br><b>ETS 300 557 [35], subclause 5.2.2</b><br><b>ETS 300 604 [42], subclause 10.2.2</b> |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Successful/3,1 kHz audio/TC110203  |   |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio  |   |
| <b>PLMN selection criteria:</b> | Audio, Multi-numbering Scheme, TS 11  |   |
| <b>Test purpose:</b>            | Ensure that call establishment without exhaustive compatibility information for deducing a GSM Basic Service using overlap sending and the call clearing procedure is performed correctly when the called user clears after answer. |   |
| <b>ISDN parameter values:</b>   | BC=3,1 kHz audio, no HLC  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |   |
| <b>Comments:</b>                | The call set-up to the mobile will contain a GSM BC mapped from the BC/LLC/HLC stored in the VLR  |   |

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| <b>110204</b>                   | <b>ISDN ref. to:</b><br><b>EN 300 403-1 [1], subclause 5.1.5.2</b>  | <b>PLMN ref. to:</b><br><b>ETS 300 557 [35], subclause 5.2.2</b><br><b>ETS 300 604 [42], subclause 9.2.2, subclause 10.2.2</b> |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Successful/3,1 kHz audio/TC110204  |  |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio  |  |
| <b>PLMN selection criteria:</b> | Audio, Single numbering Scheme  |  |
| <b>Test purpose:</b>            | Ensure that call establishment without exhaustive compatibility information for deducing a GSM Basic Service using overlap sending (single-numbering scheme) and the call clearing procedure is performed correctly when the called user clears after answer. |  |
| <b>ISDN Parameter values:</b>   | BC=3,1 kHz audio, no HLC  |  |
| <b>PLMN Parameter values:</b>   |   |  |
| <b>Comments:</b>                | The call set-up to the mobile will not contain a GSM-BC element   |  |

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| <b>110205</b>            | <b>ISDN ref. to:<br/>EN 300 403-1 [1],<br/>subclause 5.1.6</b>  | <b>PLMN ref. to:<br/>ETS 300 557 [35], subclause 5.2.2.4,<br/>subclause 10.5.4.21<br/>ETS 300 604 [42], subclause 10.2.2</b> |
| TSS reference:           | ISDN-PLMN/Basic_call/Successful/3,1 kHz audio/TC110205  |  |
| ISDN selection criteria: | Bearer service 3,1 kHz audio  |  |
| PLMN selection criteria: | Audio, Multi numbering Scheme, TS 11  |  |
| Test purpose:            | To verify that progress information in the ISDN-SETUP can be transported correctly to the called MS.  |  |
| ISDN parameter values:   | BC=3,1 kHz audio, progress value #3 "origination address is non ISDN".  |  |
| PLMN parameter values:   | GSM-BC=speech, progress value #3 "origination address is non ISDN".   |  |
| Comments:                | The call set-up to the mobile will contain a GSM BC mapped from the BC/LLC/HLC stored in the VLR and the progress value #3 "origination address is non ISDN". The progress indicator information element is transported in the Access Transport parameter of the initial address message (IAM). The access transport parameter will be transported transparently. It is the responsibility of the end points to ensure compatibility. |  |

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| <b>110206</b>            | <b>ISDN ref. to:<br/>EN 300 403-1 [1],<br/>subclause 5.1.6</b>  | <b>PLMN ref. to:<br/>ETS 300 557 [35], subclause 5.2.2.4,<br/>subclause 10.5.4.21<br/>ETS 300 604 [42], subclause 10.2.2</b> |
| TSS reference:           | ISDN-PLMN/Basic_call/Successful/3,1 kHz audio/TC110206  |  |
| ISDN selection criteria: | Bearer service 3,1 kHz audio  |  |
| PLMN selection criteria: | Audio, Single numbering Scheme  |  |
| Test purpose:            | To verify that progress information in the ISDN-SETUP can be transported correctly to the called MS (single-numbering scheme).                                |  |
| ISDN parameter values:   | BC=3,1 kHz audio, LLC = 3,1 kHz audio, voice band data via modem, progress value #3 "origination address is non ISDN".  |  |
| PLMN parameter values:   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, LLC = 3,1 kHz audio, voice band data via modem, progress value #3 "origination address is non ISDN". |  |
| Comments:                |   |  |

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| <b>110207</b>            | <b>ISDN ref. to:<br/>EN 300 403-1 [1],<br/>subclause 4.5.17</b>   | <b>PLMN ref. to:<br/>ETS 300 557 [35], subclause 5.2.2<br/>ETS 300 604 [42], subclause 10.2.2<br/>ETS 300 582 [40], subclause B.2.10</b> |
| TSS reference:           | ISDN-PLMN/Basic_call/Successful/3,1 kHz audio/TC110207  |  |
| ISDN selection criteria: | Telefax G3 terminals;   |  |
| PLMN selection criteria: | TS 61   |  |
| Test purpose:            | Support of Telefax G3. Ensure that the ISDN BC value "3,1 kHz audio" and the HLC value "facsimile group 2/3" are mapped in two GSM BC-IE preceded by a repeat indicator, one representing speech, the other representing facsimile group 3. |  |
| ISDN Parameter values:   | BC=3,1 kHz audio, HLC = Facsimile G2/G3   |  |
| PLMN Parameter values:   | first GSM-BC=speech<br>second GSM-BC= facsimile G3, HLC = Facsimile G2/G3   |  |
| Comments:                |   |  |

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| <b>110208</b>            | <b>ISDN ref. to:<br/>EN 300 403-1 [1],<br/>subclause 4.5.17</b>  | <b>PLMN ref. to:<br/>ETS 300 557 [35], subclause 5.2.2<br/>ETS 300 604 [42], subclause 10.2.2, case 3 in HLR,<br/>case 5 in VMSC)<br/>ETS 300 582 [40], subclause B.2.11</b> |
| TSS reference:           | ISDN-PLMN/Basic_call/Successful/3,1 kHz audio/TC110208   |  |
| ISDN selection criteria: | Telefax G3 terminals   |  |
| PLMN selection criteria: | TS 62  |  |
| Test purpose:            | Support of Telefax G3. Ensure that the ISDN BC value "3,1 kHz audio" and the HLC value "facsimile group 2/3" are mapped in the GSM BC-IE representing facsimile group 3. |  |
| ISDN parameter values:   | BC=3,1 kHz audio, HLC = Facsimile G2/G3  |  |
| PLMN parameter values:   | GSM-BC= facsimile G3, HLC = Facsimile G2/G3  |  |
| Comments:                |  |  |

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| <b>110209</b>            | <b>ISDN ref. to:<br/>EN 300 403-1 [1],<br/>subclause 4.5.17</b>  | <b>PLMN ref. to:<br/>ETS 300 557 [35], subclause 5.2.2<br/>ETS 300 604 [42], subclause 10.2.2<br/>ETS 300 582 [40], subclause B.2.10</b> |
| TSS reference:           | ISDN-PLMN/Basic_call/Successful/3,1 kHz audio/TC110209   |  |
| ISDN selection criteria: | Telefax G3 terminals   |  |
| PLMN selection criteria: | Single numbering Scheme, TS 62   |  |
| Test purpose:            | Support of Telefax G3. Ensure that the ISDN BC value "3,1 kHz audio" and the HLC value "facsimile group 2/3" are mapped in the GSM BC-IE representing facsimile group 3 (single-numbering scheme). |  |
| ISDN Parameter values:   | BC=3,1 kHz audio, HLC = Facsimile G2/G3  |  |
| PLMN Parameter values:   | GSM-BC= facsimile G3, HLC = Facsimile G2/G3  |  |
| Comments:                |  |  |

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| <b>110210</b>            | <b>ISDN ref. to:<br/>EN 300 403-1 [1],<br/>subclause 4.5.18</b>  | <b>PLMN ref. to:<br/>ETS 300 557 [35], subclause 5.2.2<br/>ETS 300 604 [42], subclause 10.2.2<br/>ETS 300 582 [40], subclause B.1.3</b> |
| TSS reference:           | ISDN-PLMN/Basic_call/Successful/3,1 kHz audio/TC110210   |   |
| ISDN selection criteria: | Bearer service 3,1 kHz audio   |   |
| PLMN selection criteria: | Audio, synchronous mode, BS 31   |   |
| Test purpose:            | Support of voice band data via modem. Ensure that the BC=3,1 kHz audio, voice band data via modem, synchronous, user rate 1,2 kbit/s is correctly mapped to the called user.   |   |
| ISDN parameter values:   | BC=3,1 kHz audio, voice band data via modem, synchronous mode, user rate 1,2 kbit/s, no LLC.   |   |
| PLMN parameter values:   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 1,2 kbit/s  |   |
| Comments:                | The test is not applicable for ETS 300 102-1 [46] implementations. According ETS 300 102-1 [46] subclause 4.5.5 NOTE 4 the octets 5a, 5b, 5c, 5d in the ISDN-BC may be present if octet 5 indicates either of the ITU-T standardized rate adaption V.110/X.30 or V.120 [54]. |   |

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| <b>110211</b>                   | <b>ISDN ref. to:</b><br><b>EN 300 403-1 [1],</b><br><b>subclause 4.5.5</b>   | <b>PLMN ref. to:</b><br><b>ETS 300 557 [35], subclause 5.2.2</b><br><b>ETS 300 604 [42], subclause 10.2.2</b><br><b>ETS 300 582 [40], subclause B.1.2</b> |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Successful/3,1 kHz audio/TC110211   |   |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio   |   |
| <b>PLMN selection criteria:</b> | Audio, synchronous mode, BS 32   |   |
| <b>Test purpose:</b>            | 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 is correctly mapped to the called user.  |   |
| <b>ISDN parameter values:</b>   | BC=3,1 kHz audio, voice band data via modem, synchronous mode, user rate 2,4 kbit/s, no LLC  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 2,4 kbit/s  |   |
| <b>Comments:</b>                | The test is not applicable for ETS 300 102-1 [46] implementations.<br>According ETS 300 102-1 [46] subclause 4.5.5 NOTE 4 the octets 5a, 5b, 5c, 5d in the ISDN-BC may be present if octet 5 indicates either of the ITU-T standardized rate adaption V.110/X.30 or V.120 [54] . |   |

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| <b>110212</b>                   | <b>ISDN ref. to:</b><br><b>EN 300 403-1 [1],</b><br><b>subclause 4.5.18</b>  | <b>PLMN ref. to:</b><br><b>ETS 300 557 [35], subclause 5.2.2</b><br><b>ETS 300 604 [42], subclause 10.2.2</b><br><b>ETS 300 582 [40], subclause B.1.2</b> |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Successful/3,1 kHz audio/TC110212   |   |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio   |   |
| <b>PLMN selection criteria:</b> | Audio, synchronous mode, BS 33   |   |
| <b>Test purpose:</b>            | Support of voice band data via modem. Ensure that the BC=3,1 kHz audio, voice band data via modem, synchronous mode, user rate 4,8 kbit/s is correctly mapped to the called user.  |   |
| <b>ISDN parameter values:</b>   | BC=3,1 kHz audio, voice band data via modem, synchronous mode, user rate 4,8 kbit/s, no LLC  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 4,8 kbit/s  |   |
| <b>Comments:</b>                | The test is not applicable for ETS 300 102-1 [46] implementations.<br>According ETS 300 102-1 [46] subclause 4.5.5 NOTE 4 the octets 5a, 5b, 5c, 5d in the ISDN-BC may be present if octet 5 indicates either of the ITU-T standardized rate adaption V.110/X.30 or V.120 [54] . |   |

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| <b>110213</b>                   | <b>ISDN ref. to:</b><br><b>EN 300 403-1 [1],</b><br><b>subclause 4.5.5</b>   | <b>PLMN ref. to:</b><br><b>ETS 300 557 [35], subclause 5.2.2</b><br><b>ETS 300 604 [42], subclause 10.2.2</b><br><b>ETS 300 582 [40], subclause B.1.2</b> |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Successful/3,1 kHz audio/TC110213   |   |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio   |   |
| <b>PLMN selection criteria:</b> | Audio, synchronous mode, BS 34   |   |
| <b>Test purpose:</b>            | 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 to the called user.   |   |
| <b>ISDN parameter values:</b>   | BC=3,1 kHz audio, voice band data via modem, synchronous mode, user rate 9,6 kbit/s, no LLC  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 9,6 kbit/s  |   |
| <b>Comments:</b>                | The test is not applicable for ETS 300 102-1 [46] implementations.<br>According ETS 300 102-1 [46] subclause 4.5.5 NOTE 4 the octets 5a, 5b, 5c, 5d in the ISDN-BC may be present if octet 5 indicates either of the ITU-T standardized rate adaption V.110/X.30 or V.120 [54] . |   |

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| <b>110214</b>                   | <b>ISDN ref. to:</b><br><b>EN 300 403-1 [1],</b><br><b>subclause 4.5.18</b>   | <b>PLMN ref. to:</b><br><b>ETS 300 557 [35], subclause 5.2.2</b><br><b>ETS 300 604 [42], subclause 10.2.2</b><br><b>ETS 300 582 [40], subclause B.2.3</b> |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Successful/3,1 kHz audio/TC110214  |   |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio  |   |
| <b>PLMN selection criteria:</b> | Audio, synchronous mode, BS 31  |   |
| <b>Test purpose:</b>            | Support of voice band data via modem. Ensure that the BC=3,1 kHz audio information is correctly mapped and the LLC= 3,1 kHz audio, voice band data via modem, synchronous mode, user rate 1,2 kbit/s is correctly delivered to the called user. |   |
| <b>ISDN parameter values:</b>   | BC=3,1 kHz audio, LLC = 3,1 kHz audio, voice band data via modem, synchronous mode, user rate 1,2 kbit/s  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 1,2 kbit/s, LLC = 3,1 kHz audio, voice band data via modem, synchronous mode, user rate 1,2 kbit/s   |   |
| <b>Comments:</b>                |   |   |

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| <b>110215</b>                   | <b>ISDN ref. to:</b><br><b>EN 300 403-1 [1],</b><br><b>subclause 4.5.18</b>   | <b>PLMN ref. to:</b><br><b>ETS 300 557 [35], subclause 5.2.2</b><br><b>ETS 300 604 [42], subclause 10.2.2</b><br><b>ETS 300 582 [40], subclause B.2.2</b> |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Successful/3,1 kHz audio/TC110215  |   |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio  |   |
| <b>PLMN selection criteria:</b> | Audio, synchronous mode, BS 32  |   |
| <b>Test purpose:</b>            | Support of voice band data via modem. Ensure that the BC = 3,1 kHz audio information is correctly mapped to the called user 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. |   |
| <b>ISDN parameter values:</b>   | BC=3,1 kHz audio, LLC = 3,1 kHz audio, voice band data via modem, synchronous mode, user rate 2,4 kbit/s  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 2,4 kbit/s, LLC =3,1 kHz audio, voice band data via modem, synchronous mode, user rate 2,4 kbit/s  |   |
| <b>Comments:</b>                |   |   |

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| <b>110216</b>                   | <b>ISDN ref. to:</b><br><b>EN 300 403-1 [1],</b><br><b>subclause 4.5.18</b>   | <b>PLMN ref. to:</b><br><b>ETS 300 557 [35], subclause 5.2.2</b><br><b>ETS 300 604 [42], subclause 10.2.2</b><br><b>ETS 300 582 [40], subclause B.2.2</b> |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Successful/3,1 kHz audio/TC110216  |   |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio  |   |
| <b>PLMN selection criteria:</b> | Audio, synchronous mode, BS 33  |   |
| <b>Test purpose:</b>            | Support of voice band data via modem. Ensure that the BC = 3,1 kHz audio information is correctly mapped to the called user and the LLC = 3,1 kHz audio, voice band data via modem, synchronous mode, user rate 4,8 kbit/s information is correctly delivered to the called user. |   |
| <b>ISDN parameter values:</b>   | BC=3,1 kHz audio, LLC = 3,1 kHz audio, voice band data via modem, synchronous mode, user rate 4,8 kbit/s  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 4,8 kbit/s, LLC =3,1 kHz audio, voice band data via modem, synchronous mode, user rate 4,8 kbit/s  |   |
| <b>Comments:</b>                |   |   |

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| <b>110217</b>                   | <b>ISDN ref. to:</b><br><b>EN 300 403-1 [1],</b><br><b>subclause 4.5.18</b>   | <b>PLMN ref. to:</b><br><b>ETS 300 557 [35], subclause 5.2.2</b><br><b>ETS 300 604 [42], subclause 10.2.2</b><br><b>ETS 300 582 [40], subclause B.2.2</b> |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Successful/3,1 kHz audio/TC110217  |   |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio  |   |
| <b>PLMN selection criteria:</b> | Audio, synchronous mode, BS 34  |   |
| <b>Test purpose:</b>            | 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. |   |
| <b>ISDN parameter values:</b>   | BC = 3,1 kHz audio, LLC = 3,1 kHz audio, voice band data via modem, synchronous mode, user rate 9,6 kbit/s  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 9,6 kbit/s, LLC =3,1 kHz audio, voice band data via modem, synchronous mode, user rate 9,6 kbit/s  |   |
| <b>Comments:</b>                |   |   |

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| <b>110218</b>                   | <b>ISDN ref. to:</b><br><b>EN 300 403-1 [1],</b><br><b>subclause 4.5.18</b>  | <b>PLMN ref. to:</b><br><b>ETS 300 557 [35], subclause 5.2.2</b><br><b>ETS 300 604 [42], subclause 10.2.2</b><br><b>ETS 300 582 [40], subclause B.2.3</b> |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Successful/3,1 kHz audio/TC110218   |   |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio   |   |
| <b>PLMN selection criteria:</b> | Audio, synchronous mode, BS 31   |   |
| <b>Test purpose:</b>            | Support of voice band data via modem: Ensure that the BC = 3,1 kHz audio, voice band data via modem, synchronous mode, user rate 1,2 kbit/s and LLC = 3,1 kHz audio, voice band data via modem, synchronous mode, user rate 1,2 kbit/s is correctly mapped to the called user.   |   |
| <b>ISDN parameter values:</b>   | BC=LLC=3,1 kHz audio, voice band data via modem, synchronous mode, user rate 1,2 kbit/s  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 1,2 kbit/s, LLC=3,1 kHz audio, voice band data via modem, synchronous mode, user rate 1,2 kbit/s  |   |
| <b>Comments:</b>                | The test is not applicable for ETS 300 102-1 [46] implementations.<br>According ETS 300 102-1 [46] subclause 4.5.5 NOTE 4 the octets 5a, 5b, 5c, 5d in the ISDN-BC may be present if octet 5 indicates either of the ITU-T standardized rate adaption V.110/X.30 or V.120 [54] . |   |

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| <b>110219</b>                   | <b>ISDN ref. to:</b><br><b>EN 300 403-1 [1],</b><br><b>subclause 4.5.18</b>   | <b>PLMN ref. to:</b><br><b>ETS 300 557 [35], subclause 5.2.2</b><br><b>ETS 300 604 [42], subclause 10.2.2</b><br><b>ETS 300 582 [40], subclause B.2.2</b> |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Successful/3,1 kHz audio/TC110219  |   |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio  |   |
| <b>PLMN selection criteria:</b> | Audio, synchronous mode, BS 32  |   |
| <b>Test purpose:</b>            | 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 is correctly mapped 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. |   |
| <b>ISDN parameter values:</b>   | BC= LLC = 3,1 kHz audio, voice band data via modem, synchronous mode, user rate 2,4 kbit/s  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 2,4 kbit/s, LLC =3,1 kHz audio, voice band data via modem, synchronous mode, user rate 2,4 kbit/s  |   |
| <b>Comments:</b>                | The test is not applicable for ETS 300 102-1 [46] implementations.<br>According ETS 300 102-1 [46] subclause 4.5.5 NOTE 4 the octets 5a, 5b, 5c, 5d in the ISDN-BC may be present if octet 5 indicates either of the ITU-T standardized rate adaption V.110/X.30 or V.120 [54] .                          |   |

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| <b>110220</b>                   | <b>ISDN ref. to:</b><br><b>EN 300 403-1 [1],</b><br><b>subclause 4.5.18</b>   | <b>PLMN ref. to:</b><br><b>ETS 300 557 [35], subclause 5.2.2</b><br><b>ETS 300 604 [42], subclause 10.2.2</b><br><b>ETS 300 582 [40], subclause B.2.2</b> |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Successful/3,1 kHz audio/TC110220  |   |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio  |   |
| <b>PLMN selection criteria:</b> | Audio, synchronous mode, BS 33  |   |
| <b>Test purpose:</b>            | Support of voice band data via modem. Ensure that the BC = 3,1 kHz audio, voice band data via modem, synchronous mode, user rate 4,8 kbit/s is correctly mapped and the LLC = 3,1 kHz audio, voice band data via modem, synchronous mode, user rate 4,8 kbit/s is correctly delivered to the called user. |   |
| <b>ISDN parameter values:</b>   | BC = LLC = 3,1 kHz audio, voice band data via modem, synchronous mode, user rate 4,8 kbit/s   |   |
| <b>PLMN parameter values:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 4,8 kbit/s, LLC =3,1 kHz audio, voice band data via modem, synchronous mode, user rate 4,8 kbit/s  |   |
| <b>Comments:</b>                | The test is not applicable for ETS 300 102-1 [46] implementations.<br>According ETS 300 102-1 [46] subclause 4.5.5 NOTE 4 the octets 5a, 5b, 5c, 5d in the ISDN-BC may be present if octet 5 indicates either of the ITU-T standardized rate adaption V.110/X.30 or V.120 [54] .                          |   |



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| <b>110221</b>                   | <b>ISDN ref. to:</b><br><b>EN 300 403-1 [1],</b><br><b>subclause 4.5.18</b>  | <b>PLMN ref. to:</b><br><b>ETS 300 557 [35], subclause 5.2.2</b><br><b>ETS 300 604 [42], subclause 10.2.2</b><br><b>ETS 300 582 [40], subclause B.2.2</b> |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Successful/3,1 kHz audio/TC110221   |   |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio   |   |
| <b>PLMN selection criteria:</b> | Audio, synchronous mode, BS 34   |   |
| <b>Test purpose:</b>            | 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. |   |
| <b>ISDN parameter values:</b>   | BC = LLC = 3,1 kHz audio, voice band data via modem, synchronous mode, user rate 9,6 kbit/s  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 9,6 kbit/s, LLC =3,1 kHz audio, voice band data via modem, synchronous mode, user rate 9,6 kbit/s   |   |
| <b>Comments:</b>                |  |   |

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| <b>110222</b>                   | <b>ISDN ref. to:</b><br><b>EN 300 403-1 [1],</b><br><b>subclause 4.5.5</b>   | <b>PLMN ref. to:</b><br><b>ETS 300 557 [35], subclause 5.2.2</b><br><b>ETS 300 604 [42], subclause 10.2.2</b><br><b>ETS 300 582 [40], subclause B.1.2</b> |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Successful/3,1 kHz audio/TC110222   |   |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio   |   |
| <b>PLMN selection criteria:</b> | Audio, asynchronous mode, BS 21  |   |
| <b>Test purpose:</b>            | Support of voice band data via modem. Ensure that the BC = 3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 0,3 kbit/s is correctly mapped to the called user.   |   |
| <b>ISDN parameter values:</b>   | BC=3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 0,3 kbit/s, no LLC   |   |
| <b>PLMN parameter values:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 0,3 kbit/s   |   |
| <b>Comments:</b>                | The test is not applicable for ETS 300 102-1 [46] implementations.<br>According ETS 300 102-1 [46] subclause 4.5.5 NOTE 4 the octets 5a, 5b, 5c, 5d in the ISDN-BC may be present if octet 5 indicates either of the ITU-T standardized rate adaption V.110/X.30 or V.120 [54] . |   |

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| <b>110223</b>                   | <b>ISDN ref. to:</b><br><b>EN 300 403-1 [1],</b><br><b>subclause 4.5.5</b>   | <b>PLMN ref. to:</b><br><b>ETS 300 557 [35], subclause 5.2.2</b><br><b>ETS 300 604 [42], subclause 10.2.2</b><br><b>ETS 300 582 [40], subclause B.1.2</b> |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Successful/3,1 kHz audio/TC110223   |   |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio   |   |
| <b>PLMN selection criteria:</b> | Audio, asynchronous mode, BS 22  |   |
| <b>Test purpose:</b>            | 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 mapped to the called user.   |   |
| <b>ISDN parameter values:</b>   | BC=3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s, no LLC   |   |
| <b>PLMN parameter values:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s   |   |
| <b>Comments:</b>                | The test is not applicable for ETS 300 102-1 [46] implementations.<br>According ETS 300 102-1 [46] subclause 4.5.5 NOTE 4 the octets 5a, 5b, 5c, 5d in the ISDN-BC may be present if octet 5 indicates either of the ITU-T standardized rate adaption V.110/X.30 or V.120 [54] . |   |

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| <b>110224</b>                   | <b>ISDN ref. to:</b><br><b>EN 300 403-1 [1],</b><br><b>subclause 4.5.5</b>   | <b>PLMN ref. to:</b><br><b>ETS 300 557 [35], subclause 5.2.2</b><br><b>ETS 300 604 [42], subclause 10.2.2</b><br><b>ETS 300 582 [40], subclause B.1.2</b> |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Successful/3,1 kHz audio/TC110224   |   |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio   |   |
| <b>PLMN selection criteria:</b> | Audio, asynchronous mode, BS 24  |   |
| <b>Test purpose:</b>            | Support of voice band data via modem. Ensure that the BC = 3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 2,4 kbit/s is correctly mapped to the called user.   |   |
| <b>ISDN parameter values:</b>   | BC=3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 2,4 kbit/s, no LLC   |   |
| <b>PLMN parameter values:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 2,4 kbit/s   |   |
| <b>Comments:</b>                | The test is not applicable for ETS 300 102-1 [46] implementations.<br>According ETS 300 102-1 [46] subclause 4.5.5 NOTE 4 the octets 5a, 5b, 5c, 5d in the ISDN-BC may be present if octet 5 indicates either of the ITU-T standardized rate adaption V.110/X.30 or V.120 [54] . |   |

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| <b>110225</b>                   | <b>ISDN ref. to:</b><br><b>EN 300 403-1 [1],</b><br><b>subclause 4.5.18</b>  | <b>PLMN ref. to:</b><br><b>ETS 300 557 [35], subclause 5.2.2</b><br><b>ETS 300 604 [42], subclause 10.2.2</b><br><b>ETS 300 582 [40], subclause B.1.2</b> |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Successful/3,1 kHz audio/TC110225   |   |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio   |   |
| <b>PLMN selection criteria:</b> | Audio, asynchronous mode, BS 25  |   |
| <b>Test purpose:</b>            | 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 mapped to the called user.   |   |
| <b>ISDN parameter values:</b>   | BC=3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 4,8 kbit/s, no LLC   |   |
| <b>PLMN parameter values:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 4,8 kbit/s   |   |
| <b>Comments:</b>                | The test is not applicable for ETS 300 102-1 [46] implementations.<br>According ETS 300 102-1 [46] subclause 4.5.5 NOTE 4 the octets 5a, 5b, 5c, 5d in the ISDN-BC may be present if octet 5 indicates either of the ITU-T standardized rate adaption V.110/X.30 or V.120 [54] . |   |

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| <b>110226</b>                   | <b>ISDN ref. to:</b><br><b>EN 300 403-1 [1],</b><br><b>subclause 4.5.5</b>   | <b>PLMN ref. to:</b><br><b>ETS 300 557 [35], subclause 5.2.2</b><br><b>ETS 300 604 [42], subclause 10.2.2</b><br><b>ETS 300 582 [40], subclause B.1.2</b> |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Successful/3,1 kHz audio/TC110226   |   |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio   |   |
| <b>PLMN selection criteria:</b> | Audio, asynchronous mode, BS 26  |   |
| <b>Test purpose:</b>            | Support of voice band data via modem. Ensure that the BC =3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 9,6 kbit/s is correctly mapped to the called user.  |   |
| <b>ISDN parameter values:</b>   | BC=3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 9,6 kbit/s, no LLC   |   |
| <b>PLMN parameter values:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 9,6 kbit/s   |   |
| <b>Comments:</b>                | The test is not applicable for ETS 300 102-1 [46] implementations.<br>According ETS 300 102-1 [46] subclause 4.5.5 NOTE 4 the octets 5a, 5b, 5c, 5d in the ISDN-BC may be present if octet 5 indicates either of the ITU-T standardized rate adaption V.110/X.30 or V.120 [54] . |   |

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| <b>110227</b>                   | <b>ISDN ref. to:</b><br><b>EN 300 403-1 [1],</b><br><b>subclause 4.5.18</b>  | <b>PLMN ref. to:</b><br><b>ETS 300 557 [35], subclause 5.2.2</b><br><b>ETS 300 604 [42], subclause 10.2.2</b><br><b>ETS 300 582 [40], subclause B.2.2</b> |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Successful/3,1 kHz audio/TC110227   |   |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio   |   |
| <b>PLMN selection criteria:</b> | Audio, asynchronous mode, BS 21  |   |
| <b>Test purpose:</b>            | Support of voice band data via modem. Ensure that the BC =3,1 kHz audio information is correctly mapped to the called user and the LLC= 3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 0,3 kbit/s is correctly delivered to the called user. |   |
| <b>ISDN parameter values:</b>   | BC=3,1 kHz audio, LLC = 3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 0,3 kbit/s  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 0,3 kbit/s, LLC = 3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 0,3 kbit/s   |   |
| <b>Comments:</b>                |  |   |

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| <b>110228</b>                   | <b>ISDN ref. to:</b><br><b>EN 300 403-1 [1],</b><br><b>subclause 4.5.18</b>  | <b>PLMN ref. to:</b><br><b>ETS 300 557 [35], subclause 5.2.2</b><br><b>ETS 300 604 [42], subclause 10.2.2</b><br><b>ETS 300 582 [40], subclause B.2.2</b> |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Successful/3,1 kHz audio/TC110228   |   |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio   |   |
| <b>PLMN selection criteria:</b> | Audio, BS 22 asynchronous mode   |   |
| <b>Test purpose:</b>            | Support of voice band data via modem. Ensure that the BC = 3,1 kHz audio information is correctly mapped to the called user and the LLC = 3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s is correctly delivered to the called user. |   |
| <b>ISDN parameter values:</b>   | BC=3,1 kHz audio, LLC = 3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s, LLC =3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s   |   |
| <b>Comments:</b>                |  |   |

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| <b>110229</b>                   | <b>ISDN ref. to:</b><br><b>EN 300 403-1 [1],</b><br><b>subclause 4.5.18</b>  | <b>PLMN ref. to:</b><br><b>ETS 300 557 [35], subclause 5.2.2</b><br><b>ETS 300 604 [42], subclause 10.2.2</b><br><b>ETS 300 582 [40], subclause B.2.2</b> |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Successful/3,1 kHz audio/TC110229   |   |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio   |   |
| <b>PLMN selection criteria:</b> | Audio, asynchronous mode, BS 24  |   |
| <b>Test purpose:</b>            | Support of voice band data via modem. Ensure that the BC = 3,1 kHz audio information is correctly mapped to the called user and the LLC = 3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 2,4 kbit/s is correctly delivered to the called user. |   |
| <b>ISDN parameter values:</b>   | BC=3,1 kHz audio, LLC = 3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 2,4 kbit/s  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 2,4 kbit/s, LLC =3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 2,4 kbit/s   |   |
| <b>Comments:</b>                |  |   |

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| 110230                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 4.5.18  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.2<br>ETS 300 604 [42], subclause 10.2.2<br>ETS 300 582 [40], subclause B.2.2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Successful/3,1 kHz audio/TC110230   |  |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio   |  |
| <b>PLMN selection criteria:</b> | Audio, asynchronous mode, BS 25  |  |
| <b>Test purpose:</b>            | Support of voice band data via modem. Ensure that the BC = 3,1 kHz audio information is correctly mapped to the called user 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. |  |
| <b>ISDN parameter values:</b>   | BC=3,1 kHz audio, LLC = 3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 4,8 kbit/s  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 4,8 kbit/s, LLC =3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 4,8 kbit/s   |  |
| <b>Comments:</b>                |  |  |

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| 110231                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 4.5.18  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.2<br>ETS 300 604 [42], subclause 10.2.2<br>ETS 300 582 [40], subclause B.2.2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Successful/3,1 kHz audio/TC110231   |  |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio, voice band data via modem  |  |
| <b>PLMN selection criteria:</b> | Audio, asynchronous mode, BS 26  |  |
| <b>Test purpose:</b>            | 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 9,6 kbit/s is correctly delivered to the called user. |  |
| <b>ISDN parameter values:</b>   | BC = 3,1 kHz audio, LLC = 3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 9,6 kbit/s  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 9,6 kbit/s, LLC =3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 9,6 kbit/s   |  |
| <b>Comments:</b>                |  |  |

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| 110232                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 4.5.18   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.2<br>ETS 300 604 [42], subclause 10.2.2<br>ETS 300 582 [40], subclause B.2.2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Successful/3,1 kHz audio/TC110232  |  |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio  |  |
| <b>PLMN selection criteria:</b> | Audio, asynchronous mode, BS 21   |  |
| <b>Test purpose:</b>            | Support of voice band data via modem. Ensure that the BC =3,1 kHz, voice band data via modem, asynchronous mode, user rate 0,3 kbit/s audio is correctly mapped and the LLC= 3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 0,3 kbit/s is correctly delivered to the called user. |  |
| <b>ISDN parameter values:</b>   | BC= LLC = 3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 0,3 kbit/s   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 0,3 kbit/s, LLC = 3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 0,3 kbit/s   |  |
| <b>Comments:</b>                | <p>The test is not applicable for ETS 300 102-1 [46] implementations.</p> <p>According ETS 300 102-1 [46] subclause 4.5.5 NOTE 4 the octets 5a, 5b, 5c, 5d in the ISDN-BC may be present if octet 5 indicates either of the ITU-T standardized rate adaption V.110/X.30 or V.120 [54] .</p>               |  |

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| 110233                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 4.5.18   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.2<br>ETS 300 604 [42], subclause 10.2.2<br>ETS 300 582 [40], subclause B.2.2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Successful/3,1 kHz audio/TC110233  |  |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio  |  |
| <b>PLMN selection criteria:</b> | Audio, asynchronous mode, BS 22   |  |
| <b>Test purpose:</b>            | 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 is correctly mapped and the LLC= 3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s is correctly delivered to the called user. |  |
| <b>ISDN parameter values:</b>   | BC= LLC = 3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s, LLC = 3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s   |  |
| <b>Comments:</b>                | <p>The test is not applicable for ETS 300 102-1 [46] implementations.</p> <p>According ETS 300 102-1 [46] subclause 4.5.5 NOTE 4 the octets 5a, 5b, 5c, 5d in the ISDN-BC may be present if octet 5 indicates either of the ITU-T standardized rate adaption V.110/X.30 or V.120 [54] .</p>               |  |

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| 110234                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 4.5.18   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.2<br>ETS 300 604 [42], subclause 10.2.2<br>ETS 300 582 [40], subclause B.2.2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Successful/3,1 kHz audio/TC110234  |  |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio  |  |
| <b>PLMN selection criteria:</b> | Audio, asynchronous mode, BS 24   |  |
| <b>Test purpose:</b>            | Support of voice band data via modem. Ensure that the BC = 3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 2,4 kbit/s is correctly mapped and the LLC = 3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 2,4 kbit/s is correctly delivered to the called user. |  |
| <b>ISDN parameter values:</b>   | BC= LLC = 3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 2,4 kbit/s   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 2,4 kbit/s, LLC =3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 2,4 kbit/s  |  |
| <b>Comments:</b>                | <p>The test is not applicable for ETS 300 102-1 [46] implementations.</p> <p>According ETS 300 102-1 [46] subclause 4.5.5 NOTE 4 the octets 5a, 5b, 5c, 5d in the ISDN-BC may be present if octet 5 indicates either of the ITU-T standardized rate adaption V.110/X.30 or V.120 [54] .</p>                 |  |

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| 110235                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 4.5.18   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.2<br>ETS 300 604 [42], subclause 10.2.2<br>ETS 300 582 [40], subclause B.2.2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Successful/3,1 kHz audio/TC110235  |  |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio  |  |
| <b>PLMN selection criteria:</b> | Audio, asynchronous mode, BS 25   |  |
| <b>Test purpose:</b>            | 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 mapped and the LLC = 3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 4,8 kbit/s is correctly delivered to the called user. |  |
| <b>ISDN parameter values:</b>   | BC = LLC = 3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 4,8 kbit/s  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 4,8 kbit/s, LLC =3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 4,8 kbit/s  |  |
| <b>Comments:</b>                | <p>The test is not applicable for ETS 300 102-1 [46] implementations.</p> <p>According ETS 300 102-1 [46] subclause 4.5.5 NOTE 4 the octets 5a, 5b, 5c, 5d in the ISDN-BC may be present if octet 5 indicates either of the ITU-T standardized rate adaption V.110/X.30 or V.120 [54] .</p>                 |  |



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| 110236                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 4.5.18  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.2<br>ETS 300 604 [42], subclause 10.2.2<br>ETS 300 582 [40], subclause B.2.2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Successful/3,1 kHz audio/TC110236   |  |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio   |  |
| <b>PLMN selection criteria:</b> | Audio, asynchronous mode, BS 26  |  |
| <b>Test purpose:</b>            | Support of voice band data via modem. Ensure that the BC = 3,1 kHz audio voice band data via modem, asynchronous mode, user rate 9,6 kbit/s is correctly mapped and the LLC = 3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 9,6 kbit/s is correctly delivered to the called user. |  |
| <b>ISDN parameter values:</b>   | BC = LLC = 3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 9,6 kbit/s   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 9,6 kbit/s, LLC =3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 9,6 kbit/s   |  |
| <b>Comments:</b>                | The test is not applicable for ETS 300 102-1 [46] implementations.<br><br>According ETS 300 102-1 [46] subclause 4.5.5 NOTE 4 the octets 5a, 5b, 5c, 5d in the ISDN-BC may be present if octet 5 indicates either of the ITU-T standardized rate adaption V.110/X.30 or V.120 [54] .                       |  |

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| 110237                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.1.5.1   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.2<br>ETS 300 604 [42], subclause 10.2.2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Successful/3,1 kHz audio/TC110237   |   |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio   |   |
| <b>PLMN selection criteria:</b> | Multi-numbering Scheme   |   |
| <b>Test purpose:</b>            | Ensure that call establishment without exhaustive compatibility information for deducing a GSM Basic Service using en-bloc sending and the call clearing procedure is performed correctly when the calling user clears after answer. |   |
| <b>ISDN parameter values:</b>   | BC=3,1 kHz audio, no HLC   |   |
| <b>PLMN parameter values:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem ACCESS_RATE (PIXIT)  |   |
| <b>Comments:</b>                | The call set-up to the mobile will contain a GSM BC mapped from the BC/LLC/HLC stored in the VLR   |   |

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| 110301                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.1.5.1   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.2<br><br>ETS 300 604 [42], subclause 10.2.2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Successful/UDI/TC110301   |   |
| <b>ISDN selection criteria:</b> | Bearer service UDI   |   |
| <b>PLMN selection criteria:</b> | UDI, Multi-numbering Scheme  |   |
| <b>Test purpose:</b>            | Ensure that call establishment without exhaustive compatibility information for deducing a GSM Basic Service using en-bloc sending and the call clearing procedure is performed correctly when the calling user clears after answer. |   |
| <b>ISDN parameter values:</b>   | BC = UDI, no HLC   |   |
| <b>PLMN parameter values:</b>   | GSM-BC = UDI, V.110/X.30,  |   |
| <b>Comments:</b>                | The call set-up to the mobile will contain a GSM BC mapped from the BC/LLC/HLC stored in the VLR   |   |

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| 110302                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.1.5.1   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.2<br><br>ETS 300 604 [42], subclause 10.2.2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Successful/UDI/TC110302   |   |
| <b>ISDN selection criteria:</b> | Bearer service UDI   |   |
| <b>PLMN selection criteria:</b> | UDI, Single numbering Scheme   |   |
| <b>Test purpose:</b>            | Ensure that call establishment without exhaustive compatibility information for deducing a GSM Basic Service using en-bloc sending (single-numbering scheme) and the call clearing procedure is performed correctly when the calling user clears after answer. |   |
| <b>ISDN parameter values:</b>   | BC = UDI, no HLC   |   |
| <b>PLMN parameter values:</b>   |  |   |
| <b>Comments:</b>                | The call set-up to the mobile will not contain a GSM-BC element  |   |

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| 110303                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.1.5.2  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.2<br><br>ETS 300 604 [42], subclause 10.2.2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Successful/UDI/TC110303  |   |
| <b>ISDN selection criteria:</b> | Bearer service UDI  |   |
| <b>PLMN selection criteria:</b> | UDI, Multi-numbering Scheme   |   |
| <b>Test purpose:</b>            | Ensure that call establishment without exhaustive compatibility information for deducing a GSM Basic Service using overlap sending and the call clearing procedure is performed correctly when the called user clears after answer. |   |
| <b>ISDN parameter values:</b>   | BC = UDI, no HLC  |   |
| <b>PLMN parameter values:</b>   | GSM-BC = UDI, V.110/X.30,   |   |
| <b>Comments:</b>                | The call set-up to the mobile will contain a GSM BC mapped from the BC/LLC/HLC stored in the VLR  |   |

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| 110304                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.1.5.2  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.2<br><br>ETS 300 604 [42], subclause 10.2.2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Successful/UDI/TC110304  |   |
| <b>ISDN selection criteria:</b> | Bearer service UDI  |   |
| <b>PLMN selection criteria:</b> | UDI, Single numbering Scheme  |   |
| <b>Test purpose:</b>            | Ensure that call establishment without exhaustive compatibility information for deducing a GSM Basic Service using overlap sending (single-numbering scheme) and the call clearing procedure is performed correctly when the called user clears after answer. |   |
| <b>ISDN parameter values:</b>   | BC = UDI, no HLC  |   |
| <b>PLMN parameter values:</b>   |   |   |
| <b>Comments:</b>                | The call set-up to the mobile will not contain a GSM-BC element   |   |

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| 110305                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1], subclause 4.5.5  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.2<br>ETS 300 604 [42], subclause 10.2.2<br>ETS 300 582 [40], subclause B.1.3 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Successful/UDI/TC110305   |  |
| <b>ISDN selection criteria:</b> | Bearer service UDI   |  |
| <b>PLMN selection criteria:</b> | UDI, synchronous mode, BS 31   |  |
| <b>Test purpose:</b>            | Support of terminal adapters V.110/X.30. Ensure that the BC= UDI, V.110/X.30, synchronous mode, user rate 1,2 kbit/s is correctly mapped to the called user. |  |
| <b>ISDN parameter values:</b>   | BC = UDI, V.110/X.30, synchronous mode, user rate 1,2 kbit/s, no LLC   |  |
| <b>PLMN parameter values:</b>   | GSM-BC = UDI, V.110/X.30, synchronous mode, user rate 1,2 kbit/s, no LLC   |  |
| <b>Comments:</b>                |  |  |

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| 110306                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 4.5.5  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.2<br>ETS 300 604 [42], subclause 10.2.2<br>ETS 300 582 [40], subclause B.1.2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Successful/UDI/TC110306  |  |
| <b>ISDN selection criteria:</b> | Bearer service UDI  |  |
| <b>PLMN selection criteria:</b> | UDI, synchronous mode, BS 32  |  |
| <b>Test purpose:</b>            | Support of terminal adapters V.110/X.30. Ensure that the BC = UDI, V.110/X.30, synchronous mode, user rate 2,4 kbit/s information is correctly mapped to the called user. |  |
| <b>ISDN parameter values:</b>   | BC = UDI, V.110/X.30, synchronous mode, user rate 2,4 kbit/s, no LLC  |  |
| <b>PLMN parameter values:</b>   | GSM-BC = UDI, V.110/X.30, synchronous mode, user rate 2,4 kbit/s, no LLC  |  |
| <b>Comments:</b>                |   |  |

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| 110307                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 4.5.5   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.2<br>ETS 300 604 [42], subclause 10.2.2<br>ETS 300 582 [40], subclause B.1.2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Successful/UDI/TC110307   |  |
| <b>ISDN selection criteria:</b> | Bearer service UDI   |  |
| <b>PLMN selection criteria:</b> | UDI, synchronous mode, BS 33   |  |
| <b>Test purpose:</b>            | Support of terminal adapters V.110/X.30. Ensure that the<br><br>BC = UDI, V.110/X.30, synchronous mode, user rate 4,8 kbit/s information is correctly mapped to the called user. |  |
| <b>ISDN parameter values:</b>   | BC = UDI, V.110/X.30, synchronous mode, user rate 4,8 kbit/s, no LLC   |  |
| <b>PLMN parameter values:</b>   | GSM-BC = UDI, V.110/X.30, synchronous mode, user rate 4,8 kbit/s, no LLC   |  |
| <b>Comments:</b>                |  |  |

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| 110308                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 4.5.5  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.2<br>ETS 300 604 [42], subclause 10.2.2<br>ETS 300 582 [40], subclause B.1.2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Successful/UDI/TC110308  |  |
| <b>ISDN selection criteria:</b> | Bearer service UDI  |  |
| <b>PLMN selection criteria:</b> | UDI, synchronous mode, BS 34  |  |
| <b>Test purpose:</b>            | Support of terminal adapters V.110/X.30. Ensure that the BC=UDI, V.110/X.30,<br>synchronous mode, user rate 9,6 kbit/s information is correctly mapped to the<br>called user. |  |
| <b>ISDN parameter values:</b>   | BC = UDI, V.110/X.30, synchronous mode, user rate 9,6 kbit/s, no LLC  |  |
| <b>PLMN parameter values:</b>   | GSM-BC = UDI, V.110/X.30, synchronous mode, user rate 9,6 kbit/s, no LLC  |  |
| <b>Comments:</b>                |   |  |

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| 110309                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1], subclause 4.5.5, subclause 4.5.18  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.2<br>ETS 300 604 [42], subclause 10.2.2<br>ETS 300 582 [40], subclause B.2.3 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Successful/UDI/TC110309   |  |
| <b>ISDN selection criteria:</b> | Bearer service UDI   |  |
| <b>PLMN selection criteria:</b> | UDI, synchronous mode, BS 31   |  |
| <b>Test purpose:</b>            | Support of terminal adapters V.110/X.30. Ensure that the BC=UDI is correctly mapped and the LLC=UDI, V.110/X.30, synchronous mode, user rate 1,2 kbit/s is correctly delivered to the called user. |  |
| <b>ISDN parameter values:</b>   | BC= UDI,<br>LLC=UDI, V.110/X.30, synchronous mode, user rate 1,2 kbit/s  |  |
| <b>PLMN parameter values:</b>   | GSM-BC = UDI, V.110/X.30, synchronous mode, user rate 1,2 kbit/s,<br>LLC=UDI, V.110/X.30, synchronous mode, user rate 1,2 kbit/s   |  |
| <b>Comments:</b>                |  |  |

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| 110310                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1], subclause 4.5.18<br>ETS 300 103 [5], Annex I,<br>EG 201 018 [2] , subclause 7.1.1  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.2<br>ETS 300 604 [42], subclause 10.2.2<br>ETS 300 582 [40], subclause B.2.2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Successful/UDI/TC110310   |  |
| <b>ISDN selection criteria:</b> | Bearer service UDI   |  |
| <b>PLMN selection criteria:</b> | UDI, synchronous mode, BS 32   |  |
| <b>Test purpose:</b>            | Support of terminal adapters V.110/X.30. Ensure that the BC = UDI is correctly mapped and the LLC = UDI, V.110/X.30, synchronous mode, user rate 2,4 kbit/s information is correctly delivered to the called user. |  |
| <b>ISDN parameter values:</b>   | BC = UDI, LLC=UDI, V.110/X.30, synchronous mode, user rate 2,4 kbit/s  |  |
| <b>PLMN parameter values:</b>   | GSM-BC = UDI, V.110/X.30, synchronous mode, user rate 2,4 kbit/s,<br>LLC=UDI, V.110/X.30, synchronous mode, user rate 2,4 kbit/s   |  |
| <b>Comments:</b>                |  |  |

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| 110311                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 4.5.18<br>ETS 300 103 [5], Annex I,<br>EG 201 018 [2],<br>subclause 7.1.1   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.2<br>ETS 300 604 [42], subclause 10.2.2<br>ETS 300 582 [40], subclause B.2.2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Successful/UDI/TC110311   |  |
| <b>ISDN selection criteria:</b> | Bearer service UDI   |  |
| <b>PLMN selection criteria:</b> | UDI, synchronous mode, BS 33   |  |
| <b>Test purpose:</b>            | Support of terminal adapters V.110/X.30. Ensure that the BC = UDI is correctly mapped and the LLC = UDI, V.110/X.30, synchronous mode, user rate 4,8 kbit/s information is correctly delivered to the called user. |  |
| <b>ISDN parameter values:</b>   | BC = UDI, LLC=UDI, V.110/X.30, synchronous mode, user rate 4,8 kbit/s  |  |
| <b>PLMN parameter values:</b>   | GSM-BC = UDI, V.110/X.30, synchronous mode, user rate 4,8 kbit/s,<br>LLC=UDI, V.110/X.30, synchronous mode, user rate 4,8 kbit/s   |  |
| <b>Comments:</b>                |  |  |

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| 110312                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 4.5.18  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.2<br>ETS 300 604 [42], subclause 10.2.2<br>ETS 300 582 [40], subclause B.2.2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Successful/UDI/TC110312   |  |
| <b>ISDN selection criteria:</b> | Bearer service UDI   |  |
| <b>PLMN selection criteria:</b> | UDI, synchronous mode, BS 34   |  |
| <b>Test purpose:</b>            | Support of terminal adapters V.110/X.30. Ensure that the BC = UDI information is correctly mapped and the LLC = UDI, V.110/X.30, synchronous mode, user rate 9,6 kbit/s is correctly delivered to the called user. |  |
| <b>ISDN parameter values:</b>   | BC = UDI, LLC=UDI, V.110/X.30, synchronous mode, user rate 9,6 kbit/s  |  |
| <b>PLMN parameter values:</b>   | GSM-BC = UDI, V.110/X.30, synchronous mode, user rate 9,6 kbit/s<br>LLC=UDI, V.110/X.30, synchronous mode, user rate 9,6 kbit/s  |  |
| <b>Comments:</b>                |  |  |

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| 110313                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1], subclause 4.5.5, subclause 4.5.18  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.2<br>ETS 300 604 [42], subclause 10.2.2<br>ETS 300 582 [40], subclause B.2.3 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Successful/UDI/TC110313   |  |
| <b>ISDN selection criteria:</b> | Bearer service UDI   |  |
| <b>PLMN selection criteria:</b> | UDI, synchronous mode, BS 31   |  |
| <b>Test purpose:</b>            | Support of terminal adapters V.110/X.30. Ensure that the BC=UDI, V.110/X.30, synchronous mode, user rate 1,2 kbit/s is correctly mapped and the LLC=UDI, V.110/X.30, synchronous mode, user rate 1,2 kbit/s is correctly delivered to the called user. |  |
| <b>ISDN parameter values:</b>   | BC=LLC=UDI, V.110/X.30, synchronous mode, user rate 1,2 kbit/s   |  |
| <b>PLMN parameter values:</b>   | GSM-BC = UDI, V.110/X.30, synchronous mode, user rate 1,2 kbit/s,<br>LLC=UDI, V.110/X.30, synchronous mode, user rate 1,2 kbit/s   |  |
| <b>Comments:</b>                |  |  |

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| 110314                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1], subclause 4.5.5, subclause 4.5.18  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.2<br>ETS 300 604 [42], subclause 10.2.2<br>ETS 300 582 [40], subclause B.2.2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Successful/UDI/TC110314   |  |
| <b>ISDN selection criteria:</b> | Bearer service UDI   |  |
| <b>PLMN selection criteria:</b> | UDI, synchronous mode, BS 32   |  |
| <b>Test purpose:</b>            | Support of terminal adapters V.110/X.30. Ensure that the BC=UDI, V.110/X.30, synchronous mode, user rate 2,4 kbit/s is correctly mapped and the LLC=UDI, V.110/X.30, synchronous mode, user rate 2,4 kbit/s is correctly delivered to the called user. |  |
| <b>ISDN parameter values:</b>   | BC=LLC=UDI, V.110/X.30, synchronous mode, user rate 2,4 kbit/s   |  |
| <b>PLMN parameter values:</b>   | GSM-BC = UDI, V.110/X.30, synchronous mode, user rate 2,4 kbit/s<br>LLC=UDI, V.110/X.30, synchronous mode, user rate 2,4 kbit/s  |  |
| <b>Comments:</b>                |  |  |



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| 110315                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 4.5.5,<br>subclause 4.5.18  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.2<br>ETS 300 604 [42], subclause 10.2.2<br>ETS 300 582 [40], subclause B.2.2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Successful/UDI/TC110315   |  |
| <b>ISDN selection criteria:</b> | Bearer service UDI   |  |
| <b>PLMN selection criteria:</b> | UDI, synchronous mode, BS 33   |  |
| <b>Test purpose:</b>            | Support of terminal adapters V.110/X.30. Ensure that the BC=UDI, V.110/X.30, synchronous mode, user rate 4,8 kbit/s is correctly mapped and the LLC=UDI, V.110/X.30, synchronous mode, user rate 4,8 kbit/s is correctly delivered to the called user. |  |
| <b>ISDN parameter values:</b>   | BC=LLC=UDI, V.110/X.30, synchronous mode, user rate 4,8 kbit/s   |  |
| <b>PLMN parameter values:</b>   | GSM-BC = UDI, V.110/X.30, synchronous mode, user rate 4,8 kbit/s<br>LLC=UDI, V.110/X.30, synchronous mode, user rate 4,8 kbit/s  |  |
| <b>Comments:</b>                |  |  |

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| 110316                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 4.5.5,<br>subclause 4.5.18  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.2<br>ETS 300 604 [42], subclause 10.2.2<br>ETS 300 582 [40], subclause B.2.2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Successful/UDI/TC110316   |  |
| <b>ISDN selection criteria:</b> | Bearer service UDI   |  |
| <b>PLMN selection criteria:</b> | UDI, synchronous mode, BS 34   |  |
| <b>Test purpose:</b>            | Support of terminal adapters V.110/X.30. Ensure that BC=UDI, V.110/X.30, synchronous mode, user rate 9,6 kbit/s and LLC=UDI, V.110/X.30, synchronous mode, user rate 9,6 kbit/s is transported transparently through the network and correctly delivered to the called user. |  |
| <b>ISDN parameter values:</b>   | BC=LLC=UDI, V.110/X.30, synchronous mode, user rate 9,6 kbit/s   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI, V.110/X.30, synchronous mode, user rate 9,6 kbit/s,<br>LLC=UDI, V.110/X.30, synchronous mode, user rate 9,6 kbit/s   |  |
| <b>Comments:</b>                |  |  |

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|---------------------------------|---|--|
| 110317                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1], subclause 4.5.5   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.2<br>ETS 300 604 [42], subclause 10.2.2<br>ETS 300 582 [40], subclause B.1.3 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Successful/UDI/TC110317  |  |
| <b>ISDN selection criteria:</b> | Bearer service UDI  |  |
| <b>PLMN selection criteria:</b> | UDI, asynchronous mode, BS 21   |  |
| <b>Test purpose:</b>            | Support of terminal adapters V.110/X.30. Ensure that the BC= UDI, V.110/X.30, asynchronous mode, user rate 0,3 kbit/s is correctly mapped to the called user. |  |
| <b>ISDN parameter values:</b>   | BC = UDI, V.110/X.30, asynchronous mode, user rate 0,3 kbit/s, no LLC   |  |
| <b>PLMN parameter values:</b>   | GSM-BC = UDI, V.110/X.30, asynchronous mode, user rate 0,3 kbit/s, no LLC   |  |
| <b>Comments:</b>                |   |  |

|                                 |  |  |
|---------------------------------|--|--|
| 110318                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 4.5.5   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.2<br>ETS 300 604 [42], subclause 10.2.2<br>ETS 300 582 [40], subclause B.1.2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Successful/UDI/TC110318   |  |
| <b>ISDN selection criteria:</b> | Bearer service UDI   |  |
| <b>PLMN selection criteria:</b> | UDI, asynchronous mode, BS 22  |  |
| <b>Test purpose:</b>            | Support of terminal adapters V.110/X.30. Ensure that the BC = UDI, V.110/X.30, asynchronous mode, user rate 1,2 kbit/s information is correctly mapped to the called user. |  |
| <b>ISDN parameter values:</b>   | BC = UDI, V.110/X.30, asynchronous mode, user rate 1,2 kbit/s, no LLC  |  |
| <b>PLMN parameter values:</b>   | GSM-BC = UDI, V.110/X.30, asynchronous mode, user rate 1,2 kbit/s, no LLC  |  |
| <b>Comments:</b>                |  |  |

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|---------------------------------|--|--|
| 110319                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 4.5.5   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.2<br>ETS 300 604 [42], subclause 10.2.2<br>ETS 300 582 [40], subclause B.1.2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Successful/UDI/TC110319   |  |
| <b>ISDN selection criteria:</b> | Bearer service UDI   |  |
| <b>PLMN selection criteria:</b> | UDI, asynchronous mode, BS 24  |  |
| <b>Test purpose:</b>            | Support of terminal adapters V.110/X.30. Ensure that the BC = UDI, V.110/X.30, asynchronous mode, user rate 2,4 kbit/s information is correctly mapped to the called user. |  |
| <b>ISDN parameter values:</b>   | BC = UDI, V.110/X.30, asynchronous mode, user rate 2,4 kbit/s, no LLC  |  |
| <b>PLMN parameter values:</b>   | GSM-BC = UDI, V.110/X.30, asynchronous mode, user rate 2,4 kbit/s, no LLC  |  |
| <b>Comments:</b>                |  |  |

|                                 |   |  |
|---------------------------------|---|--|
| 110320                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 4.5.5  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.2<br>ETS 300 604 [42], subclause 10.2.2<br>ETS 300 582 [40], subclause B.1.2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Successful/UDI/TC110320  |  |
| <b>ISDN selection criteria:</b> | Bearer service UDI  |  |
| <b>PLMN selection criteria:</b> | UDI, asynchronous mode, BS 25   |  |
| <b>Test purpose:</b>            | Support of terminal adapters V.110/X.30. Ensure that the<br>BC = UDI, V.110/X.30, asynchronous mode, user rate 4,8 kbit/s information is correctly mapped to the called user. |  |
| <b>ISDN parameter values:</b>   | BC = UDI, V.110/X.30, asynchronous mode, user rate 4,8 kbit/s, no LLC   |  |
| <b>PLMN parameter values:</b>   | GSM-BC = UDI, V.110/X.30, asynchronous mode, user rate 4,8 kbit/s, no LLC   |  |
| <b>Comments:</b>                |   |  |

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|---------------------------------|--|--|
| 110321                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 4.5.5   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.2<br>ETS 300 604 [42], subclause 10.2.2<br>ETS 300 582 [40], subclause B.1.2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Successful/UDI/TC110321   |  |
| <b>ISDN selection criteria:</b> | Bearer service UDI   |  |
| <b>PLMN selection criteria:</b> | UDI, asynchronous mode, BS 26  |  |
| <b>Test purpose:</b>            | Support of terminal adapters V.110/X.30. Ensure that the BC=UDI, V.110/X.30, asynchronous mode, user rate 9,6 kbit/s information is correctly mapped to the called user. |  |
| <b>ISDN parameter values:</b>   | BC = UDI, V.110/X.30, asynchronous mode, user rate 9,6 kbit/s, no LLC  |  |
| <b>PLMN parameter values:</b>   | GSM-BC = UDI, V.110/X.30, asynchronous mode, user rate 9,6 kbit/s, no LLC  |  |
| <b>Comments:</b>                |  |  |

|                                 |   |  |
|---------------------------------|---|--|
| 110322                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 4.5.18<br>ETS 300 103 [5], Annex I,<br>EG 201 018 [2],<br>subclause 7.1.1  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.2<br>ETS 300 604 [42], subclause 10.2.2<br>ETS 300 582 [40], subclause B.2.2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Successful/UDI/TC110322  |  |
| <b>ISDN selection criteria:</b> | Bearer service UDI  |  |
| <b>PLMN selection criteria:</b> | UDI, asynchronous mode, BS 21   |  |
| <b>Test purpose:</b>            | Support of terminal adapters V.110/X.30. Ensure that the BC = UDI is correctly mapped and the LLC = UDI, V.110/X.30, asynchronous mode, user rate 0,3 kbit/s information is correctly delivered to the called user. |  |
| <b>ISDN parameter values:</b>   | BC = UDI, LLC=UDI, V.110/X.30, asynchronous mode, user rate 0,3 kbit/s  |  |
| <b>PLMN parameter values:</b>   | GSM-BC = UDI, V.110/X.30, asynchronous mode, user rate 0,3 kbit/s,<br>LLC=UDI, V.110/X.30, asynchronous mode, user rate 0,3 kbit/s  |  |
| <b>Comments:</b>                |   |  |

|                                 |   |  |
|---------------------------------|---|--|
| 110323                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 4.5.18<br>ETS 300 103 [5], Annex I,<br>EG 201 018 [2] ,<br>subclause 7.1.1   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.2<br>ETS 300 604 [42], subclause 10.2.2<br>ETS 300 582 [40], subclause B.2.2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Successful/UDI/TC110323  |  |
| <b>ISDN selection criteria:</b> | Bearer service UDI  |  |
| <b>PLMN selection criteria:</b> | UDI, asynchronous mode, BS 22   |  |
| <b>Test purpose:</b>            | Support of terminal adapters V.110/X.30. Ensure that the BC = UDI is correctly mapped and the LLC = UDI, V.110/X.30, asynchronous mode, user rate 1,2 kbit/s information is correctly delivered to the called user. |  |
| <b>ISDN parameter values:</b>   | BC = UDI, LLC=UDI, V.110/X.30, asynchronous mode, user rate 1,2 kbit/s  |  |
| <b>PLMN parameter values:</b>   | GSM-BC = UDI, V.110/X.30, asynchronous mode, user rate 1,2 kbit/s,<br>LLC=UDI, V.110/X.30, asynchronous mode, user rate 1,2 kbit/s  |  |
| <b>Comments:</b>                |   |  |

|                                 |   |  |
|---------------------------------|---|--|
| 110324                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 4.5.18<br>ETS 300 103 [5], Annex I,<br>EG 201 018 [2] ,<br>subclause 7.1.1   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.2<br>ETS 300 604 [42], subclause 10.2.2<br>ETS 300 582 [40], subclause B.2.2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Successful/UDI/TC110324  |  |
| <b>ISDN selection criteria:</b> | Bearer service UDI  |  |
| <b>PLMN selection criteria:</b> | UDI, asynchronous mode, BS 24   |  |
| <b>Test purpose:</b>            | Support of terminal adapters V.110/X.30. Ensure that the BC = UDI is correctly mapped and the LLC = UDI, V.110/X.30, asynchronous mode, user rate 2,4 kbit/s information is correctly delivered to the called user. |  |
| <b>ISDN parameter values:</b>   | BC = UDI, LLC=UDI, V.110/X.30, asynchronous mode, user rate 2,4 kbit/s  |  |
| <b>PLMN parameter values:</b>   | GSM-BC = UDI, V.110/X.30, asynchronous mode, user rate 2,4 kbit/s,<br>LLC=UDI, V.110/X.30, asynchronous mode, user rate 2,4 kbit/s  |  |
| <b>Comments:</b>                |   |  |

|                                 |   |  |
|---------------------------------|---|--|
| 110325                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 4.5.18<br>ETS 300 103 [5], Annex I,<br>EG 201 018 [2],<br>subclause 7.1.1  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.2<br>ETS 300 604 [42], subclause 10.2.2<br>ETS 300 582 [40], subclause B.2.2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Successful/UDI/TC110325  |  |
| <b>ISDN selection criteria:</b> | Bearer service UDI, V.110/X.30 rate adaption  |  |
| <b>PLMN selection criteria:</b> | UDI, asynchronous mode, BS 25   |  |
| <b>Test purpose:</b>            | Support of terminal adapters V.110/X.30. Ensure that the BC = UDI is correctly mapped and the LLC = UDI, V.110/X.30, asynchronous mode, user rate 4,8 kbit/s information is correctly delivered to the called user. |  |
| <b>ISDN parameter values:</b>   | BC = UDI, LLC=UDI, V.110/X.30, asynchronous mode, user rate 4,8 kbit/s  |  |
| <b>PLMN parameter values:</b>   | GSM-BC = UDI, V.110/X.30, asynchronous mode, user rate 4,8 kbit/s,<br>LLC=UDI, V.110/X.30, asynchronous mode, user rate 4,8 kbit/s  |  |
| <b>Comments:</b>                |   |  |

|                                 |   |  |
|---------------------------------|---|--|
| 110326                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 4.5.18   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.2<br>ETS 300 604 [42], subclause 10.2.2<br>ETS 300 582 [40], subclause B.2.2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Successful/UDI/TC110326  |  |
| <b>ISDN selection criteria:</b> | Bearer service UDI  |  |
| <b>PLMN selection criteria:</b> | UDI, asynchronous mode, BS 26   |  |
| <b>Test purpose:</b>            | Support of terminal adapters V.110/X.30. Ensure that the BC = UDI information is correctly mapped and the LLC = UDI, V.110/X.30, asynchronous mode, user rate 9,6 kbit/s is correctly delivered to the called user. |  |
| <b>ISDN parameter values:</b>   | BC = UDI, LLC=UDI, V.110/X.30, asynchronous mode, user rate 9,6 kbit/s  |  |
| <b>PLMN parameter values:</b>   | GSM-BC = UDI, V.110/X.30, asynchronous mode, user rate 9,6 kbit/s<br>LLC=UDI, V.110/X.30, asynchronous mode, user rate 9,6 kbit/s   |  |
| <b>Comments:</b>                |   |  |

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|---------------------------------|--|--|
| 110327                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 4.5.5,<br>subclause 4.5.18  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.2<br>ETS 300 604 [42], subclause 10.2.2<br>ETS 300 582 [40], subclause B.2.2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Successful/UDI/TC110327   |  |
| <b>ISDN selection criteria:</b> | Bearer service UDI   |  |
| <b>PLMN selection criteria:</b> | UDI, asynchronous mode, BS 21  |  |
| <b>Test purpose:</b>            | Support of terminal adapters V.110/X.30. Ensure that the BC=UDI, V.110/X.30, asynchronous mode, user rate 0,3 kbit/s is correctly mapped and the LLC=UDI, V.110/X.30, asynchronous mode, user rate 0,3 kbit/s is correctly delivered to the called user. |  |
| <b>ISDN parameter values:</b>   | BC=LLC=UDI, V.110/X.30, asynchronous mode, user rate 0,3 kbit/s  |  |
| <b>PLMN parameter values:</b>   | GSM-BC = UDI, V.110/X.30, asynchronous mode, user rate 0,3 kbit/s<br>LLC=UDI, V.110/X.30, asynchronous mode, user rate 0,3 kbit/s  |  |
| <b>Comments:</b>                |  |  |

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| 110328                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 4.5.5,<br>subclause 4.5.18  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.2<br>ETS 300 604 [42], subclause 10.2.2<br>ETS 300 582 [40], subclause B.2.2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Successful/UDI/TC110328   |  |
| <b>ISDN selection criteria:</b> | Bearer service UDI   |  |
| <b>PLMN selection criteria:</b> | UDI, asynchronous mode, BS 22  |  |
| <b>Test purpose:</b>            | Support of terminal adapters V.110/X.30. Ensure that the BC=UDI, V.110/X.30, asynchronous mode, user rate 1,2 kbit/s is correctly mapped and the LLC=UDI, V.110/X.30, asynchronous mode, user rate 1,2 kbit/s is correctly delivered to the called user. |  |
| <b>ISDN parameter values:</b>   | BC=LLC=UDI, V.110/X.30, asynchronous mode, user rate 1,2 kbit/s  |  |
| <b>PLMN parameter values:</b>   | GSM-BC = UDI, V.110/X.30, asynchronous mode, user rate 1,2 kbit/s<br>LLC=UDI, V.110/X.30, asynchronous mode, user rate 1,2 kbit/s  |  |
| <b>Comments:</b>                |  |  |

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| 110329                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 4.5.5,<br>subclause 4.5.18  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.2<br>ETS 300 604 [42], subclause 10.2.2<br>ETS 300 582 [40], subclause B.2.2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Successful/UDI/TC110329   |  |
| <b>ISDN selection criteria:</b> | Bearer service UDI   |  |
| <b>PLMN selection criteria:</b> | UDI, asynchronous mode, BS 24  |  |
| <b>Test purpose:</b>            | Support of terminal adapters V.110/X.30. Ensure that the BC=UDI, V.110/X.30, asynchronous mode, user rate 2,4 kbit/s is correctly mapped and the LLC=UDI, V.110/X.30, asynchronous mode, user rate 2,4 kbit/s is correctly delivered to the called user. |  |
| <b>ISDN parameter values:</b>   | BC=LLC=UDI, V.110/X.30, asynchronous mode, user rate 2,4 kbit/s  |  |
| <b>PLMN parameter values:</b>   | GSM-BC = UDI, V.110/X.30, asynchronous mode, user rate 2,4 kbit/s<br>LLC=UDI, V.110/X.30, asynchronous mode, user rate 2,4 kbit/s  |  |
| <b>Comments:</b>                |  |  |

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| 110330                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 4.5.5,<br>subclause 4.5.18  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.2<br>ETS 300 604 [42], subclause 10.2.2<br>ETS 300 582 [40], subclause B.2.2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Successful/UDI/TC110330   |  |
| <b>ISDN selection criteria:</b> | Bearer service UDI   |  |
| <b>PLMN selection criteria:</b> | UDI, asynchronous mode, BS 25  |  |
| <b>Test purpose:</b>            | Support of terminal adapters V.110/X.30. Ensure that the BC=UDI, V.110/X.30, asynchronous mode, user rate 4,8 kbit/s is correctly mapped and the LLC=UDI, V.110/X.30, asynchronous mode, user rate 4,8 kbit/s is correctly delivered to the called user. |  |
| <b>ISDN parameter values:</b>   | BC=LLC=UDI, V.110/X.30, asynchronous mode, user rate 4,8 kbit/s  |  |
| <b>PLMN parameter values:</b>   | GSM-BC = UDI, V.110/X.30, asynchronous mode, user rate 4,8 kbit/s<br>LLC=UDI, V.110/X.30, asynchronous mode, user rate 4,8 kbit/s  |  |
| <b>Comments:</b>                |  |  |



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| 110331                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 4.5.5,<br>subclause 4.5.18  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.2<br>ETS 300 604 [42], subclause 10.2.2<br>ETS 300 582 [40], subclause B.2.2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Successful/UDI/TC110331   |  |
| <b>ISDN selection criteria:</b> | Bearer service UDI   |  |
| <b>PLMN selection criteria:</b> | UDI, asynchronous mode, BS 26  |  |
| <b>Test purpose:</b>            | Support of terminal adapters V.110/X.30. Ensure that BC=UDI, V.110/X.30, asynchronous mode, user rate 9,6 kbit/s and LLC=UDI, V.110/X.30, asynchronous mode, user rate 9,6 kbit/s is transported transparently through the network and correctly delivered to the called user. |  |
| <b>ISDN parameter values:</b>   | BC=LLC=UDI, V.110/X.30, asynchronous mode, user rate 9,6 kbit/s  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI, V.110/X.30, asynchronous mode, user rate 9,6 kbit/s,<br>LLC=UDI, V.110/X.30, asynchronous mode, user rate 9,6 kbit/s   |  |
| <b>Comments:</b>                |  |  |

## 6.2.1.2 Unsuccessful

|              |
|--------------|
| Unsuccessful |
| Speech       |

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|---------------------------------|---|---|
| 120101                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.1.4,<br>subclause 5.3, Annex M   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.1.1<br>ETS 300 599 [41], subclause 18.2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Unsuccessful/Speech/TC120101   |   |
| <b>ISDN selection criteria:</b> | Speech  |   |
| <b>PLMN selection criteria:</b> | TS 11   |   |
| <b>Test purpose:</b>            | Ensure that, when calling to unallocated number, the network initiate call clearing to the calling user with a RELEASE COMPLETE or DISCONNECT message indicating cause value #1 "unassigned number".  |   |
| <b>ISDN parameter values:</b>   | BC=speech   |   |
| <b>PLMN parameter values:</b>   |   |   |
| <b>Comments:</b>                | <p>Some PLMNs provide announcement instead of sending cause value #1.</p> <p>In the case when the calling user is calling to an unallocated number the tones or announcement can only by generated in the destination exchange (or intermediate exchange) during call establishment (see Q.764 [43] subclause 2.2).</p> <p>The originating exchange sends a DISCONNECT message to the calling user with progress indicator #8 thus indicating that in-band information is available. Normal release procedure apply after the in-band information has been connected.</p> |   |

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|---------------------------------|--|---|
| 120102                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.1.4, Annex M  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.1.1<br>ETS 300 599 [41], subclause 18.2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Unsuccessful/Speech/TC120102  |   |
| <b>ISDN selection criteria:</b> | Speech   |   |
| <b>PLMN selection criteria:</b> |  |   |
| <b>Test purpose:</b>            | Ensure that the call will be released when there is no route to destination. The network initiates call clearing to the calling user with a DISCONNECT message indicating cause value # 3 "no route to destination".   |   |
| <b>ISDN parameter values:</b>   | BC=speech  |   |
| <b>PLMN parameter values:</b>   |  |   |
| <b>Comments:</b>                | <p>In some networks tones or announcement can be generated in the destination exchange (or intermediate exchange) during call establishment.</p> <p>The originating exchange sends a DISCONNECT message to the calling user with progress indicator #8 thus indicating that in-band information is available. Normal release procedure apply after the in-band information has been connected.</p> |   |

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| 120103                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.2.subclause 5.1,<br>Annex M   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.1.6 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Unsuccessful/Speech/TC120103  |   |
| <b>ISDN selection criteria:</b> | Speech   |   |
| <b>PLMN selection criteria:</b> | TS 11  |   |
| <b>Test purpose:</b>            | Ensure that, when the called user is busy (UDUB) the network initiate call clearing to the calling user with a DISCONNECT message indicating cause value #17 "user busy".  |   |
| <b>ISDN parameter values:</b>   | BC=speech  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |   |
| <b>Comments:</b>                | <p>After receiving the SETUP message, the MS replies immediately with a<br/>RELEASE COMPLETE (#17 "user busy")</p> <p>The originating exchange sends a DISCONNECT message to the calling<br/>user with progress indicator #8 thus indicating that in-band information is<br/>available. Normal release procedure apply after the in-band information has<br/>been connected.</p> |   |

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| 120104                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.2.subclause 5.1,<br>Annex M   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.1.6 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Unsuccessful/Speech/TC120104  |   |
| <b>ISDN selection criteria:</b> | Speech   |   |
| <b>PLMN selection criteria:</b> | TS 11  |   |
| <b>Test purpose:</b>            | Ensure that, when the called user is busy (NDUB) the network initiate call clearing to the calling user with a DISCONNECT message indicating cause value #17 "user busy".  |   |
| <b>ISDN parameter values:</b>   | BC=speech  |   |
| <b>PLMN parameter values:</b>   |  |   |
| <b>Comments:</b>                | The originating exchange sends a DISCONNECT message to the calling user with progress indicator #8 thus indicating that in-band information is available. Normal release procedure apply after the in-band information has been connected. |   |

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| 120105                          | <b>ISDN ref. to:</b><br>ETS 300 102- 1<br>subclause 5.2.5.4, Annex M   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.1.7<br><br>ETS 300 599 [41], subclause 18.2, subclause 18.3.2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Unsuccessful/Speech/TC120105  |   |
| <b>ISDN selection criteria:</b> | Speech   |   |
| <b>PLMN selection criteria:</b> |  |   |
| <b>Test purpose:</b>            | The PLMN Subscriber is in mode "detached". The GMSC will be informed by the HLR (MAP Error #18) that the subscriber cannot be reached. The network initiates call clearing to the calling user with cause value #20 "Subscriber absent". |   |
| <b>ISDN parameter values:</b>   | BC=speech  |   |
| <b>PLMN parameter values:</b>   |  |   |
| <b>Comments:</b>                | NOTE: Some PLMNs provide announcements instead of sending cause value # 20.  |   |

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| 120106                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.2.5.4, Annex M  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.1.8 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Unsuccessful/Speech/TC120106  |   |
| <b>ISDN selection criteria:</b> | Speech   |   |
| <b>PLMN selection criteria:</b> | TS 11  |   |
| <b>Test purpose:</b>            | Ensure that when there is no answer from the called user (but user alerted), the network initiate call clearing to the calling user with a DISCONNECT message indicating cause value #19 "no answer from user (user alerted)" and sends to the called user a RELEASE message indicating cause # 102 "recovery on timer expire" or using cause #31 "normal, unspecified". |   |
| <b>ISDN parameter values:</b>   | BC=speech  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |   |
| <b>Comments:</b>                | The originating exchange sends a DISCONNECT message to the calling user with progress indicator #8 thus indicating that in-band information is available. Normal release procedure apply after the in-band information has been connected.   |   |

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| 120107                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.1.9,<br>subclause 5.3.2, Annex M   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.2.3.1, Annex H.1.9 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Unsuccessful/Speech/TC120107   |  |
| <b>ISDN selection criteria:</b> | Speech  |  |
| <b>PLMN selection criteria:</b> | TS 11   |  |
| <b>Test purpose:</b>            | Ensure that when the called user rejects the call and responds with a RELEASE COMPLETE message indicating cause value # 21 "call rejected", the call will be released. The network initiates call clearing to the calling user with a DISCONNECT message indicating cause value # 21 "call rejected". |  |
| <b>ISDN parameter values:</b>   | BC=speech   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |  |
| <b>Comments:</b>                | The originating exchange sends a DISCONNECT message to the calling user with progress indicator #8 thus indicating that in-band information is available. Normal release procedure apply after the in-band information has been connected.  |  |

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| 120108                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.1.4, Annex M   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.1.1<br>ETS 300 599 [41], subclause 18.2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Unsuccessful/Speech/TC120108   |   |
| <b>ISDN selection criteria:</b> | Speech  |   |
| <b>PLMN selection criteria:</b> |   |   |
| <b>Test purpose:</b>            | Ensure that the call will be released when the called number is incomplete. The network initiates call clearing to the calling user with a DISCONNECT or RELEASE COMPLETE message with a cause such as one of the following: # 1 "Unassigned (unallocated) number", # 3 "No route to destination", # 22 "Number changed" or # 28 "Invalid number format (incomplete number)".               |   |
| <b>ISDN parameter values:</b>   | BC=speech   |   |
| <b>PLMN parameter values:</b>   |   |   |
| <b>Comments:</b>                | In some networks tones or announcement can be generated in the destination exchange (or intermediate exchange) during call establishment.<br><br>The originating exchange sends a DISCONNECT message to the calling user with progress indicator #8 thus indicating that in-band information is available. Normal release procedure apply after the in-band information has been connected. |   |

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| 120109                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.2.2, Annex M  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex B.3.2, Annex H 5.3 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Unsuccessful/Speech/TC120109  |  |
| <b>ISDN selection criteria:</b> | Speech   |  |
| <b>PLMN selection criteria:</b> |  |  |
| <b>Test purpose:</b>            | Ensure that when the called user is not compatible and responds with a RELEASE COMPLETE message indicating cause value #88 "incompatible destination", the call will be released. The network initiates call clearing to the calling user with a DISCONNECT message indicating cause value #88 "incompatible destination". |  |
| <b>ISDN parameter values:</b>   | BC=speech  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |  |
| <b>Comments:</b>                | The originating exchange sends a DISCONNECT message to the calling user with progress indicator #8 thus indicating that in-band information is available. Normal release procedure apply after the in-band information has been connected.   |  |

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| 120110                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1], Annex M  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.1.5 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Unsuccessful/Speech/TC120110  |   |
| <b>ISDN selection criteria:</b> | Speech   |   |
| <b>PLMN selection criteria:</b> | TS 11  |   |
| <b>Test purpose:</b>            | 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. |   |
| <b>ISDN parameter values:</b>   | BC=speech  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |   |
| <b>Comments:</b>                |  |   |

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| 120111                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.2.subclause 5.1,<br>Annex M   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.1.6<br>ETS 300 511 [28], subclause 4.4.2.3 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Unsuccessful/Speech/TC120111  |  |
| <b>ISDN selection criteria:</b> | Speech   |  |
| <b>PLMN selection criteria:</b> | TS 11  |  |
| <b>Test purpose:</b>            | Ensure that, when the called user is busy (UDUB) after being alerted, the network initiate call clearing to the calling user with a DISCONNECT message indicating cause value #17 "user busy". |  |
| <b>ISDN parameter values:</b>   | BC=speech  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |  |
| <b>Comments:</b>                | While in the alerting state, the called user sends a DISCONNECT (#17 "user busy").   |  |

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| Unsuccessful |
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| 3,1 kHz audio |
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| 120201                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1], subclause 5.1.4, subclause 5.3, Annex M   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.1.1<br>ETS 300 599 [41], subclause 18.2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Unsuccessful/3,1 kHz audio/TC120201  |   |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio  |   |
| <b>PLMN selection criteria:</b> |   |   |
| <b>Test purpose:</b>            | Ensure that, when calling to unallocated number, the network initiate call clearing to the calling user with a RELEASE COMPLETE or DISCONNECT message indicating cause value #1 "unassigned number".  |   |
| <b>ISDN parameter values:</b>   | BC=3,1 kHz audio  |   |
| <b>PLMN parameter values:</b>   |   |   |
| <b>Comments:</b>                | <p>Some PLMNs provide announcement instead of sending cause value #1.</p> <p>In the case when the calling user is calling to an unallocated number the tones or announcement can only by generated in the destination exchange (or intermediate exchange) during call establishment (see Q.764 [43] subclause 2.2).</p> <p>The originating exchange sends a DISCONNECT message to the calling user with progress indicator #8 thus indicating that in-band information is available. Normal release procedure apply after the in-band information has been connected.</p> |   |

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| 120202                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1], subclause 5.1.4, Annex M   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.1.1<br>ETS 300 599 [41], subclause 18.2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Unsuccessful/3,1 kHz audio/TC120202   |   |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio   |   |
| <b>PLMN selection criteria:</b> |  |   |
| <b>Test purpose:</b>            | Ensure that the call will be released when there is no route to destination. The network initiates call clearing to the calling user with a DISCONNECT message indicating cause value # 3 "no route to destination".   |   |
| <b>ISDN parameter values:</b>   | BC=3,1 kHz audio   |   |
| <b>PLMN parameter values:</b>   |  |   |
| <b>Comments:</b>                | <p>In some networks tones or announcement can be generated in the destination exchange (or intermediate exchange) during call establishment.</p> <p>The originating exchange sends a DISCONNECT message to the calling user with progress indicator #8 thus indicating that in-band information is available. Normal release procedure apply after the in-band information has been connected.</p> |   |



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| 120203                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.2.subclause 5.1,<br>Annex M  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H 1.6 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Unsuccessful/3,1 kHz audio/TC120203  |   |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio  |   |
| <b>PLMN selection criteria:</b> | Audio, Multi numbering Scheme, TS 11  |   |
| <b>Test purpose:</b>            | Ensure that, when the called user is busy (UDUB) the network initiate call clearing to the calling user with a DISCONNECT message indicating cause value #17 "user busy".   |   |
| <b>ISDN parameter values:</b>   | BC=3,1 kHz audio  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |   |
| <b>Comments:</b>                | <p>After receiving the SETUP message, the MS replies immediately with a RELEASE COMPLETE (#17 "user busy").</p> <p>The originating exchange sends a DISCONNECT message to the calling user with progress indicator #8 thus indicating that in-band information is available. Normal release procedure apply after the in-band information has been connected.</p> |   |

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| 120204                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.2.subclause 5.1,<br>Annex M  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H 1.6 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Unsuccessful/3,1 kHz audio/TC120204  |   |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio  |   |
| <b>PLMN selection criteria:</b> | Audio, Single numbering Scheme  |   |
| <b>Test purpose:</b>            | Ensure that, when the called user (single-numbering scheme) is busy (UDUB) the network initiate call clearing to the calling user with a DISCONNECT message indicating cause value #17 "user busy".   |   |
| <b>ISDN parameter values:</b>   | BC=3,1 kHz audio  |   |
| <b>PLMN parameter values:</b>   |   |   |
| <b>Comments:</b>                | <p>In case of "single numbering" the call set-up to the mobile will not contain a GSM-BC element.</p> <p>After receiving the SETUP message, the MS replies immediately with a RELEASE COMPLETE (#17 "user busy").</p> <p>The originating exchange sends a DISCONNECT message to the calling user with progress indicator #8 thus indicating that in-band information is available. Normal release procedure apply after the in-band information has been connected.</p> |   |

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| 120205                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.2, subclause 5.1,<br>Annex M  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H 1.6 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Unsuccessful/3,1 kHz audio/TC120205   |   |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio   |   |
| <b>PLMN selection criteria:</b> | Audio  |   |
| <b>Test purpose:</b>            | Ensure that, when the called user is busy (NDUB) the network initiate call clearing to the calling user with a DISCONNECT message indicating cause value #17 "user busy".  |   |
| <b>ISDN parameter values:</b>   | BC=3,1 kHz audio   |   |
| <b>PLMN parameter values:</b>   |  |   |
| <b>Comments:</b>                | The originating exchange sends a DISCONNECT message to the calling user with progress indicator #8 thus indicating that in-band information is available. Normal release procedure apply after the in-band information has been connected. |   |

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| 120206                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.2.5.4, Annex M  | <b>PLMN ref. to:</b><br>ETS 300 646<br><br>ETS 300 599 [41], 18.2, 18.3.2<br><br>ETS 300 557 [35], Annex H.1.7 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Unsuccessful/3,1 kHz audio/TC120206   |  |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio   |  |
| <b>PLMN selection criteria:</b> | Audio  |  |
| <b>Test purpose:</b>            | The PLMN Subscriber is in mode "detached". The GMSC will be informed by the HLR (MAP Error #18) that the subscriber cannot be reached. The network initiates call clearing to the calling user with cause value #20 "Subscriber absent". |  |
| <b>ISDN parameter values:</b>   | BC=3,1 kHz audio   |  |
| <b>PLMN parameter values:</b>   |  |  |
| <b>Comments:</b>                | NOTE :Some PLMNs provide announcements instead of sending cause value # 20.  |  |

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| 120207                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.2.5.4, Annex M  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.1.8 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Unsuccessful/3,1 kHz audio/TC120207   |   |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio   |   |
| <b>PLMN selection criteria:</b> | Audio, Multi numbering Scheme  |   |
| <b>Test purpose:</b>            | Ensure that when there is no answer from the called user (but user alerted), the network initiate call clearing to the calling user with a DISCONNECT message indicating cause value #19 "no answer from user (user alerted)" and sends to the called user a RELEASE message indicating cause # 102 "recovery on timer expire" or using cause #31 "normal, unspecified". |   |
| <b>ISDN parameter values:</b>   | BC=3,1 kHz audio   |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |   |
| <b>Comments:</b>                | The originating exchange sends a DISCONNECT message to the calling user with progress indicator #8 thus indicating that in-band information is available. Normal release procedure apply after the in-band information has been connected  |   |

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| 120208                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.2.5.4, Annex M  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.1.8 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Unsuccessful/3,1 kHz audio/TC120208   |   |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio   |   |
| <b>PLMN selection criteria:</b> | Audio, Single numbering Scheme   |   |
| <b>Test purpose:</b>            | Ensure that when there is no answer from the called user (but user alerted) (single-numbering scheme), the network initiate call clearing to the calling user with a DISCONNECT message indicating cause value #19 "no answer from user (user alerted)" and sends to the called user a RELEASE message indicating cause # 102 "recovery on timer expire" or using cause #31 "normal, unspecified". |   |
| <b>ISDN parameter values:</b>   | BC=3,1 kHz audio   |   |
| <b>PLMN parameter values:</b>   |  |   |
| <b>Comments:</b>                | The call set-up to the mobile will not contain a GSM-BC element.<br><br>The originating exchange sends a DISCONNECT message to the calling user with progress indicator #8 thus indicating that in-band information is available. Normal release procedure apply after the in-band information has been connected.   |   |

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| 120209                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.1.9,<br>subclause 5.3.2, Annex M   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.2.3.1, Annex H.1.9 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Unsuccessful/3,1 kHz audio/TC120209  |  |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio  |  |
| <b>PLMN selection criteria:</b> | Audio, Multi numbering Scheme   |  |
| <b>Test purpose:</b>            | Ensure that when the called user rejects the call and responds with a RELEASE COMPLETE message indicating cause value # 21 "call rejected", the call will be released. The network initiates call clearing to the calling user with a DISCONNECT message indicating cause value # 21 "call rejected". |  |
| <b>ISDN parameter values:</b>   | BC=3,1 kHz audio  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |  |
| <b>Comments:</b>                | The originating exchange sends a DISCONNECT message to the calling user with progress indicator #8 thus indicating that in-band information is available. Normal release procedure apply after the in-band information has been connected.  |  |

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| 120210                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.1.9,<br>subclause 5.3.2, Annex M   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.2.3.1, Annex H.1.9 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Unsuccessful/3,1 kHz audio/TC120210  |  |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio  |  |
| <b>PLMN selection criteria:</b> | Audio, Single numbering Scheme  |  |
| <b>Test purpose:</b>            | Ensure that when the called user (single-numbering scheme) rejects the call and responds with a RELEASE COMPLETE message indicating cause value # 21 "call rejected", the call will be released. The network initiates call clearing to the calling user with a DISCONNECT message indicating cause value # 21 "call rejected". |  |
| <b>ISDN parameter values:</b>   | BC=3,1 kHz audio  |  |
| <b>PLMN parameter values:</b>   |   |  |
| <b>Comments:</b>                | The call set-up to the mobile will not contain a GSM-BC element.<br><br>The originating exchange sends a DISCONNECT message to the calling user with progress indicator #8 thus indicating that in-band information is available. Normal release procedure apply after the in-band information has been connected.              |  |

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| 120211                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.1.4, Annex M   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.1.1<br><br>ETS 300 599 [41], subclause 18.2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Unsuccessful/3,1 kHz audio/TC120211  |   |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio  |   |
| <b>PLMN selection criteria:</b> | Audio   |   |
| <b>Test purpose:</b>            | Ensure that the call will be released when the called number is incomplete. The network initiates call clearing to the calling user with a DISCONNECT or RELEASE COMPLETE message with a cause such as one of the following:<br><br># 1 "Unassigned (unallocated) number", # 3 "No route to destination",<br><br># 22 "Number changed" or # 28 – "Invalid number format (incomplete number)". |   |
| <b>ISDN parameter values:</b>   | BC=3,1 kHz audio  |   |
| <b>PLMN parameter values:</b>   |   |   |
| <b>Comments:</b>                | In some networks tones or announcement can be generated in the destination exchange (or intermediate exchange) during call establishment.<br><br>The originating exchange sends a DISCONNECT message to the calling user with progress indicator #8 thus indicating that in-band information is available. Normal release procedure apply after the in-band information has been connected.   |   |

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| 120212                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.2.2, Annex M  | <b>PLMN ref. to:</b><br>300 557, Annex B.3.2, Annex H 5.3 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Unsuccessful/3,1 kHz audio/TC120212   |   |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio   |   |
| <b>PLMN selection criteria:</b> | Audio  |   |
| <b>Test purpose:</b>            | Ensure that when the called user is not compatible and responds with a RELEASE COMPLETE message indicating cause value #88 „incompatible destination", the call will be released. The network initiates call clearing to the calling user with a DISCONNECT message indicating cause value #88 "incompatible destination". |   |
| <b>ISDN parameter values:</b>   | BC=3,1 kHz audio, voice band data via modem  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=3,1 kHz audio, voice band data via modem  |   |
| <b>Comments:</b>                | The originating exchange sends a DISCONNECT message to the calling user with progress indicator #8 thus indicating that in-band information is available. Normal release procedure apply after the in-band information has been connected.   |   |

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| 120213                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1], Annex M  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.1.5 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Unsuccessful/3,1 kHz audio/TC120213   |   |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio   |   |
| <b>PLMN selection criteria:</b> | Audio, Multi numbering Scheme, TS 11   |   |
| <b>Test purpose:</b>            | 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. |   |
| <b>ISDN parameter values:</b>   | BC=3,1 kHz audio   |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |   |
| <b>Comments:</b>                |  |   |

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| 120214                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1], Annex M  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.1.5 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Unsuccessful/3,1 kHz audio/TC120214   |   |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio   |   |
| <b>PLMN selection criteria:</b> | Audio, Single numbering Scheme   |   |
| <b>Test purpose:</b>            | Ensure that when the calling user clears with cause value #16 "normal call clearing" before answer from called user (single-numbering scheme), the network transport the cause value to the called user. |   |
| <b>ISDN parameter values:</b>   | BC=3,1 kHz audio   |   |
| <b>PLMN parameter values:</b>   |  |   |
| <b>Comments:</b>                | In case of "single numbering" the call set-up to the mobile will not contain a GSM-BC element.   |   |

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| 120215                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.1,<br>Annex M   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H 1.6 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Unsuccessful/3,1 kHz audio/TC120215   |   |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio   |   |
| <b>PLMN selection criteria:</b> | Audio, Multi numbering Scheme, TS 11   |   |
| <b>Test purpose:</b>            | Ensure that, when the called user is busy (UDUB) after being alerted, the network initiate call clearing to the calling user with a DISCONNECT message indicating cause value #17 "user busy". |   |
| <b>ISDN parameter values:</b>   | BC=3,1 kHz audio   |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |   |
| <b>Comments:</b>                | While in the alerting state, the called user sends a DISCONNECT (#17 "user busy").   |   |

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| 120216                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.1, Annex M  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H 1.6 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Unsuccessful/3,1 kHz audio/TC120216   |   |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio   |   |
| <b>PLMN selection criteria:</b> | Audio, Single numbering Scheme   |   |
| <b>Test purpose:</b>            | Ensure that, when the called user (single-numbering scheme) is busy (UDUB) after being alerted, the network initiate call clearing to the calling user with a DISCONNECT message indicating cause value #17 "user busy". |   |
| <b>ISDN parameter values:</b>   | BC=3,1 kHz audio   |   |
| <b>PLMN parameter values:</b>   |  |   |
| <b>Comments:</b>                | In case of "single numbering" the call set-up to the mobile will not contain a GSM-BC element.<br><br>While in the alerting state, the called user sends a DISCONNECT (#17 "user busy").                                 |   |

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| 120217                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.1, Annex M  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H 1.6 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Unsuccessful/3,1 kHz audio/TC120217   |   |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio, voice band data via modem with modem type V.26   |   |
| <b>PLMN selection criteria:</b> | Audio, Multi-numbering Scheme  |   |
| <b>Test purpose:</b>            | Unsuccessful voice band data via modem transmission.<br><br>Ensure that the network initiate call clearing to the calling user with cause value # 63 "service or option not available, unspecified" or # 57 "bearer capability not authorized".  |   |
| <b>ISDN parameter values:</b>   | BC=3,1 kHz audio, voice band data via modem, modem type V.26, no LLC.  |   |
| <b>PLMN parameter values:</b>   |  |   |
| <b>Comments:</b>                | The test is not applicable for ETS 300 102-1 [46] implementations.<br><br>According ETS 300 102-1 [46] subclause 4.5.5 NOTE 4 the octets 5a, 5b, 5c, 5d in the ISDN-BC may be present if octet 5 indicates either of the ITU-T standardized rate adaption V.110/X.30 or V.120 [54] .<br><br>EDITORS NOTE 1: The PLMN Standard covers the cases where the subscription check or the compatibility check fails. The cause value with which the call shall be rejected is not defined |   |

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| 120218                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.1, Annex M   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H 1.6 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Unsuccessful/3,1 kHz audio/TC120218  |   |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio, voice band data via modem with modem type V.26  |   |
| <b>PLMN selection criteria:</b> | Audio, Multi-numbering Scheme   |   |
| <b>Test purpose:</b>            | Unsuccessful voice band data via modem transmission.<br><br>Ensure that the network initiate call clearing to the calling user with cause value # 63 "service or option not available, unspecified" or # 57 "bearer capability not authorized". |   |
| <b>ISDN parameter values:</b>   | BC=3,1 kHz audio, LLC=3,1 kHz audio, voice band data via modem, modem type V.26   |   |
| <b>PLMN parameter values:</b>   |   |   |
| <b>Comments:</b>                | EDITORS NOTE 1: The PLMN Standard covers the cases where the subscription check or the compatibility check fails. The cause value with which the call shall be rejected is not defined  |   |



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| Unsuccessful |
| UDI          |

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| 120301                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.1.4, Annex M  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.1.1 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Unsuccessful/UDI/TC120301   |   |
| <b>ISDN selection criteria:</b> | Bearer service UDI   |   |
| <b>PLMN selection criteria</b>  |  |   |
| <b>Test purpose:</b>            | Ensure that, when calling to unallocated number, the network initiate call clearing to the calling user with a RELEASE COMPLETE or DISCONNECT message indicating cause value #1 "unassigned number". |   |
| <b>ISDN parameter values:</b>   | BC=UDI   |   |
| <b>PLMN parameter values:</b>   |  |   |
| <b>Comments:</b>                |  |   |

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| 120302                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.1.4, Annex M  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.1.1 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Unsuccessful/UDI/TC120302   |   |
| <b>ISDN selection criteria:</b> | Bearer service UDI   |   |
| <b>PLMN selection criteria</b>  |  |   |
| <b>Test purpose:</b>            | Ensure that the call will be released when there is no route to destination. The network initiates call clearing to the calling user with a DISCONNECT message indicating cause value # 3 "no route to destination". |   |
| <b>ISDN parameter values:</b>   | BC=UDI   |   |
| <b>PLMN parameter values:</b>   |  |   |
| <b>Comments:</b>                |  |   |

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| 120303                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.1,<br>Annex M  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.2.3.1, Annex H.1.6 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Unsuccessful/UDI/TC120303  |  |
| <b>ISDN selection criteria:</b> | Bearer service UDI  |  |
| <b>PLMN selection criteria:</b> | UDI, Multi numbering Scheme   |  |
| <b>Test purpose:</b>            | Ensure that, when the called user is busy (UDUB) the network initiate call clearing to the calling user with a DISCONNECT message indicating cause value #17 "user busy". |  |
| <b>ISDN parameter values:</b>   | BC=UDI  |  |
| <b>PLMN parameter values:</b>   | GSM-BC = UDI, V.110/X.30  |  |
| <b>Comments:</b>                | The call set-up to the mobile will contain a GSM BC mapped from the BC/LLC/HLC stored in the VLR  |  |

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| 120304                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.1,<br>Annex M  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.2.3.1, Annex H.1.6 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Unsuccessful/UDI/TC120304  |  |
| <b>ISDN selection criteria:</b> | Bearer service UDI  |  |
| <b>PLMN selection criteria:</b> | UDI, Multi numbering Scheme   |  |
| <b>Test purpose:</b>            | Ensure that, when the called user is busy (NDUB) the network initiate call clearing to the calling user with a DISCONNECT message indicating cause value #17 "user busy". |  |
| <b>ISDN parameter values:</b>   | BC=UDI  |  |
| <b>PLMN parameter values:</b>   |   |  |
| <b>Comments:</b>                |   |  |

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| 120305                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.1,<br>Annex M   | <b>PLMN ref. to:</b><br>ETS 300 599 [41], subclause 18.2, subclause 18.3.2<br>ETS 300 557 [35], subclause H.1.7 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Unsuccessful/UDI/TC120305   |   |
| <b>ISDN selection criteria:</b> | Bearer service UDI   |   |
| <b>PLMN selection criteria:</b> | UDI  |   |
| <b>Test purpose:</b>            | The PLMN Subscriber is in mode "detached". The GMSC will be informed by the HLR (MAP Error #18) that the subscriber cannot be reached. The network initiates call clearing to the calling user with cause value #20 "Subscriber absent". |   |
| <b>ISDN parameter values:</b>   | BC=UDI   |   |
| <b>PLMN parameter values:</b>   |  |   |
| <b>Comments:</b>                | NOTE: At the PLMN side cause value # 18 is "absent subscriber".<br><br>At the ISDN side cause value # 18 is "no user responding".  |   |

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| 120306                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.1, Annex M  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.1.8 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Unsuccessful/UDI/TC120306   |   |
| <b>ISDN selection criteria:</b> | Bearer service UDI   |   |
| <b>PLMN selection criteria:</b> | UDI, Multi numbering Scheme  |   |
| <b>Test purpose:</b>            | Ensure that when there is no answer from the called user (but user alerted), the network initiate call clearing to the calling user with a DISCONNECT message indicating cause value #19 "no answer from user (user alerted)" and sends to the called user a RELEASE message indicating cause # 102 "recovery on timer expire" or using cause #31 "normal, unspecified". |   |
| <b>ISDN parameter values:</b>   | BC=UDI   |   |
| <b>PLMN parameter values:</b>   | GSM-BC = UDI, V.110/X.30   |   |
| <b>Comments:</b>                | The call set-up to the mobile will contain a GSM BC mapped from the BC/LLC/HLC stored in the VLR   |   |

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| 120307                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1], subclause 5.1, Annex M  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.2.3.1, Annex H.1.9 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Unsuccessful/UDI/TC120307  |  |
| <b>ISDN selection criteria:</b> | Bearer service UDI  |  |
| <b>PLMN selection criteria:</b> | UDI   |  |
| <b>Test purpose:</b>            | Ensure that when the called user rejects the call and responds with a RELEASE COMPLETE message indicating cause value # 21 "call rejected", the call will be released. The network initiates call clearing to the calling user with a DISCONNECT message indicating cause value # 21 "call rejected". |  |
| <b>ISDN parameter values:</b>   | BC=UDI  |  |
| <b>PLMN parameter values:</b>   | GSM-BC = UDI, V.110/X.30  |  |
| <b>Comments:</b>                | The call set-up to the mobile will contain a GSM BC mapped from the BC/LLC/HLC stored in the VLR  |  |

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| 120308                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1], subclause 5.1.4, Annex M  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.1.1<br><br>ETS 300 599 [41], subclause 18.2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Unsuccessful/UDI/TC120308  |   |
| <b>ISDN selection criteria:</b> | Bearer service UDI  |   |
| <b>PLMN selection criteria:</b> |   |   |
| <b>Test purpose:</b>            | Ensure that the call will be released when the called number is incomplete. The network initiates call clearing to the calling user with a DISCONNECT or RELEASE COMPLETE message with a cause such as one of the following:<br><br># 1 "Unassigned (unallocated) number", # 3 "No route to destination",<br><br># 22 "Number changed" or # 28 "Invalid number format (incomplete number)". |   |
| <b>ISDN parameter values:</b>   | BC=UDI  |   |
| <b>PLMN parameter values:</b>   |   |   |
| <b>Comments:</b>                |   |   |

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| 120309                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1], subclause 5.2.2  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], AnnexB.3.2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Unsuccessful/UDI/TC120309   |  |
| <b>ISDN selection criteria:</b> | Bearer service UDI   |  |
| <b>PLMN selection criteria:</b> | UDI  |  |
| <b>Test purpose:</b>            | Ensure that when the called user is not compatible and responds with a RELEASE COMPLETE message indicating cause value #88 „incompatible destination", the call will be released. The network initiates call clearing to the calling user with a DISCONNECT message indicating cause value #88 "incompatible destination". |  |
| <b>ISDN parameter values:</b>   | BC=LLC=UDI, V.110/X.30   |  |
| <b>PLMN parameter values:</b>   | GSM-BC = UDI, V.110/X.30   |  |
| <b>Comments:</b>                | The call set-up to the mobile will contain a GSM BC mapped from the BC/LLC/HLC stored in the VLR   |  |

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| 120310                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1], Annex M  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.1.5 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Unsuccessful/UDI/TC120310   |   |
| <b>ISDN selection criteria:</b> | Bearer service UDI   |   |
| <b>PLMN selection criteria:</b> | UDI, Multi numbering Scheme  |   |
| <b>Test purpose:</b>            | 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. |   |
| <b>ISDN parameter values:</b>   | BC=UDI   |   |
| <b>PLMN parameter values:</b>   | GSM-BC = UDI, V.110/X.30   |   |
| <b>Comments:</b>                | The call set-up to the mobile will contain a GSM BC mapped from the BC/LLC/HLC stored in the VLR   |   |

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| 120311                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1], subclause 4.5.1<br>7  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.2.3.1, B.4; Annex<br>H.5.3<br><br>ETS 300 582 [40], Annex B2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Unsuccessful/UDI/TC120311  |  |
| <b>ISDN selection criteria:</b> | Bearer service UDI  |  |
| <b>PLMN selection criteria:</b> | UDI   |  |
| <b>Test purpose:</b>            | Ensure that the called user initiate call clearing with a RELEASE COMPLETE message indicating cause value #88 "incompatible destination" and the network transport the cause value to the calling user when the calling user sends the SETUP containing the BC = UDI and the HLC=facsimile group 4.   |  |
| <b>ISDN parameter values:</b>   | BC = UDI, HLC=facsimile group 4, no LLC   |  |
| <b>PLMN parameter values:</b>   | GSM-BC = UDI, V.110/X.30, HLC = facsimile group 4   |  |
| <b>Comments:</b>                | <p>Support of teleservices is an end-to-end aspect. The LLC/HLC-IE is transferred transparently by the GSM PLMN and an ISDN between the call originating entity and the addressed entity. The LLC/HLC related part of the compatibility is up to the terminal.</p> <p>EDITORS NOTE 2: In some networks the HLC is the related part of the compatibility checking performed in the GMSC. In this case the network initiates call clearing to the calling user with cause value # 63 "service or option not available, unspecified" or # 57 "bearer capability not authorized".</p> |  |

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| 120312                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1], subclause 4.5.1<br>7, subclause 4.5.19<br><br>ETS 300 080 [4],<br>subclause 4.5.2.1,<br><br>EG 201 018 [2] , subclause 6.3.2  | <b>PLMN ref. to:</b><br>ETS 300 557 [35] Annex H<br><br>ETS 300 604 [42], subclause 10.2.2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Unsuccessful/UDI/TC120312  |  |
| <b>ISDN selection criteria:</b> | Bearer service UDI  |  |
| <b>PLMN selection criteria:</b> | UDI   |  |
| <b>Test purpose:</b>            | Ensure that the network initiate call clearing to the calling user with cause value # 63 "service or option not available, unspecified" or # 57 "bearer capability not authorized" when the calling user sends the SETUP containing the BC = UDI, HLC=facsimile group 4 and LLC=telematic_term. |  |
| <b>ISDN parameter values:</b>   | BC = UDI, HLC=facsimile group 4, LLC=telematic_term   |  |
| <b>PLMN parameter values:</b>   |   |  |
| <b>Comments:</b>                | EDITORS NOTE 1: The PLMN Standard covers the cases where the subscription check or the compatibility check fails. The cause value with which the call shall be rejected is not defined.   |  |

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| 120313                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1], subclause 4.5.1<br>7<br>EG 201 018 [2], subclause 7.1.3  | <b>PLMN ref. to:</b><br>ETS 300 557 [35] Annex H<br>ETS 300 604 [42], subclause 10.2.2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Unsuccessful/UDI/TC120313   |  |
| <b>ISDN selection criteria:</b> | Bearer service UDI   |  |
| <b>PLMN selection criteria:</b> | UDI  |  |
| <b>Test purpose:</b>            | Ensure that the network initiate call clearing to the calling user with cause value # 63 "service or option not available, unspecified" or # 57 "bearer capability not authorized" when the calling user sends the SETUP containing the BC = UDI, LLC=telematic_term and the HLC = teletex basic and mixed mode. |  |
| <b>ISDN parameter values:</b>   | BC = UDI, HLC = teletex basic and mixed mode, LLC=telematic_term   |  |
| <b>PLMN parameter values:</b>   |  |  |
| <b>Comments:</b>                | EDITORS NOTE 1: The PLMN Standard covers the cases where the subscription check or the compatibility check fails. The cause value with which the call shall be rejected is not defined.  |  |

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| 120314                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 4.5.17  | <b>PLMN ref. to:</b><br>ETS 300 557 [35] Annex H<br>ETS 300 604 [42], subclause 10.2.2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Unsuccessful/UDI/TC120314   |  |
| <b>ISDN selection criteria:</b> | Bearer service UDI   |  |
| <b>PLMN selection criteria:</b> | UDI  |  |
| <b>Test purpose:</b>            | Ensure that the network initiate call clearing to the calling user with cause value # 63 "service or option not available, unspecified" or # 57 "bearer capability not authorized" when the calling user sends the SETUP containing the BC = UDI, LLC=telematic_term and the HLC = teletex basic and processable mode. |  |
| <b>ISDN parameter values:</b>   | BC = UDI, HLC = teletex basic and processable mode, LLC=telematic_term   |  |
| <b>PLMN parameter values:</b>   |  |  |
| <b>Comments:</b>                | EDITORS NOTE 1: The PLMN Standard covers the cases where the subscription check or the compatibility check fails. The cause value with which the call shall be rejected is not defined.  |  |



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| 120315                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 4.5.17<br>EG 201 018 [2] , subclause 7.1.3  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H<br>ETS 300 604 [42], subclause 10.2.2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Unsuccessful/UDI/TC120315   |   |
| <b>ISDN selection criteria:</b> | Bearer service UDI   |   |
| <b>PLMN selection criteria:</b> | UDI  |   |
| <b>Test purpose:</b>            | Ensure that the network initiate call clearing to the calling user with cause value # 63 "service or option not available, unspecified" or # 57 "bearer capability not authorized" when the calling user sends the SETUP containing the BC = UDI, LLC = telematic_term and the HLC = teletex basic mode. |   |
| <b>ISDN parameter values:</b>   | BC = UDI, HLC = teletex basic mode, LLC = telematic_term   |   |
| <b>PLMN parameter values:</b>   |  |   |
| <b>Comments:</b>                | EDITORS NOTE 1: The PLMN Standard covers the cases where the subscription check or the compatibility check fails. The cause value with which the call shall be rejected is not defined.  |   |

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| 120316                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1], subclause 4.5.1<br>7<br>ETS 300 080 [4],<br>subclause 4.5.2.1  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H<br>ETS 300 604 [42], subclause 10.2.2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Unsuccessful/UDI/TC120316   |   |
| <b>ISDN selection criteria:</b> | Bearer service UDI   |   |
| <b>PLMN selection criteria:</b> | UDI  |   |
| <b>Test purpose:</b>            | Ensure that the network initiate call clearing to the calling user with<br>cause value # 63 "service or option not available, unspecified" or # 57 "bearer capability<br>not authorized" when the calling user sends the SETUP containing the BC = UDI, LLC =<br>telematic_term and the HLC = international videotex interworking. |   |
| <b>ISDN parameter values:</b>   | BC = UDI, HLC = international videotex interworking, LLC = telematic_term  |   |
| <b>PLMN parameter values:</b>   |  |   |
| <b>Comments:</b>                | EDITORS NOTE 1: The PLMN Standard covers the cases where the<br>subscription check or the compatibility check fails. The cause value with which<br>the call shall be rejected is not defined.  |   |

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| 120317                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 4.5.17   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.2.3.1, Annex B.4;<br>H.5.3<br><br>ETS 300 582 [40], Annex B2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Unsuccessful/UDI/TC120317  |  |
| <b>ISDN selection criteria:</b> | Bearer service UDI  |  |
| <b>PLMN selection criteria:</b> | UDI   |  |
| <b>Test purpose:</b>            | Ensure that the user initiate call clearing with a RELEASE COMPLETE message indicating cause value #88 "incompatible destination" and the network transport the cause value to the calling user when the calling user sends the SETUP containing the BC = UDI and the HLC = telex.  |  |
| <b>ISDN parameter values:</b>   | BC = UDI, HLC = telex, no LLC   |  |
| <b>PLMN parameter values:</b>   | GSM-BC = UDI, V.110/X.30, HLC = telex   |  |
| <b>Comments:</b>                | <p>Support of teleservices is an end-to-end aspect. The LLC/HLC-IE is transferred transparently by the GSM PLMN and an ISDN between the call originating entity and the addressed entity. The LLC/HLC related part of the compatibility is up to the terminal.</p> <p>EDITORS NOTE 2: In some networks the HLC is the related part of the compatibility checking performed in the GMSC. In this case the network initiates call clearing to the calling user with cause value # 63 "service or option not available, unspecified" or # 57 "bearer capability not authorized".</p> |  |

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| 120318                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 4.5.17<br><br>ETS 300 080 [4], subclause<br>4.5.2.1  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.2.3.1, B.4; Annex<br>H.5.3<br><br>ETS 300 582 [40], Annex B2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Unsuccessful/UDI/TC120318  |  |
| <b>ISDN selection criteria:</b> | Bearer service UDI  |  |
| <b>PLMN selection criteria:</b> | UDI   |  |
| <b>Test purpose:</b>            | Ensure that the user initiate call clearing with a RELEASE COMPLETE message indicating cause value #88 "incompatible destination" and the network transport the cause value to the calling user when the calling user sends the SETUP containing the BC = UDI and the HLC = message handling system.  |  |
| <b>ISDN parameter values:</b>   | BC = UDI, HLC = message handling system, no LLC   |  |
| <b>PLMN parameter values:</b>   | GSM-BC = UDI, V.110/X.30, HLC = message handling system,  |  |
| <b>Comments:</b>                | <p>Support of teleservices is an end-to-end aspect. The LLC/HLC-IE is transferred transparently by the GSM PLMN and an ISDN between the call originating entity and the addressed entity. The LLC/HLC related part of the compatibility is up to the terminal.</p> <p>EDITORS NOTE 2: In some networks the HLC is the related part of the compatibility checking performed in the GMSC. In this case the network initiates call clearing to the calling user with cause value # 63 "service or option not available, unspecified" or # 57 "bearer capability not authorized".</p> |  |

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| 120319                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 4.5.17<br><br>ETS 300 080 [4],<br>subclause 4.5.2.1  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.2.3.1, Annex B.4,<br>H.5.3<br><br>ETS 300 582 [40], Annex B2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Unsuccessful/UDI/TC120319  |  |
| <b>ISDN selection criteria:</b> | Bearer service UDI  |  |
| <b>PLMN selection criteria:</b> | UDI   |  |
| <b>Test purpose:</b>            | Ensure that the user initiate call clearing with a RELEASE COMPLETE message indicating cause #88 "incompatible destination" and the network transport the cause value to the calling user when the calling user sends the SETUP containing the BC = UDI and the HLC = OSI application.  |  |
| <b>ISDN parameter values:</b>   | BC = UDI, HLC = OSI application, no LLC   |  |
| <b>PLMN parameter values:</b>   | GSM-BC = UDI, V.110/X.30, HLC = OSI application   |  |
| <b>Comments:</b>                | <p>Support of teleservices is an end-to-end aspect. The LLC/HLC-IE is transferred transparently by the GSM PLMN and an ISDN between the call originating entity and the addressed entity. The LLC/HLC related part of the compatibility is up to the terminal.</p> <p>EDITORS NOTE 2: In some networks the HLC is the related part of the compatibility checking performed in the GMSC. In this case the network initiates call clearing to the calling user with cause value # 63 "service or option not available, unspecified" or # 57 "bearer capability not authorized".</p> |  |

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| 120320                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 4.5.17<br><br>ETS 300 267-1 [3], subclause 7   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.2.3.1, Annex B.4,<br>H.5.3<br><br>ETS 300 582 [40], Annex B2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Unsuccessful/UDI/TC120320  |  |
| <b>ISDN selection criteria:</b> | Bearer service UDI  |  |
| <b>PLMN selection criteria:</b> | UDI   |  |
| <b>Test purpose:</b>            | Ensure that the user initiate call clearing with a RELEASE COMPLETE message indicating cause value #88 "incompatible destination" and the network transport the cause value to the calling user when the calling user sends the SETUP containing the BC = UDI and the HLC=videotelephony_ic.  |  |
| <b>ISDN parameter values:</b>   | BC = UDI, HLC=videotelephony_ic   |  |
| <b>PLMN parameter values:</b>   | GSM-BC = UDI, V.110/X.30, HLC=videotelephony_ic   |  |
| <b>Comments:</b>                | <p>Support of teleservices is an end-to-end aspect. The LLC/HLC-IE is transferred transparently by the GSM PLMN and an ISDN between the call originating entity and the addressed entity. The LLC/HLC related part of the compatibility is up to the terminal.</p> <p>EDITORS NOTE 2: In some networks the HLC is the related part of the compatibility checking performed in the GMSC. In this case the network initiates call clearing to the calling user with cause value # 63 "service or option not available, unspecified" or # 57 "bearer capability not authorized".</p> |  |

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| 120321                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1], subclause 4.5.5  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H<br>ETS 300 604 [42], Table 6B-09.07 General notes 1 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Unsuccessful/UDI/TC120321   |   |
| <b>ISDN selection criteria:</b> | Bearer service UDI   |   |
| <b>PLMN selection criteria:</b> | UDI  |   |
| <b>Test purpose:</b>            | Ensure that the network initiate call clearing to the calling user with cause value # 63 "service or option not available, unspecified" or # 57 "bearer capability not authorized" when the calling user sends the SETUP containing the BC = UDI, V.110/X.30, synchronous mode, user rate 19,2 kbit/s. |   |
| <b>ISDN parameter values:</b>   | BC = UDI, V.110/X.30, synchronous mode, user rate 19,2 kbit/s, no LLC  |   |
| <b>PLMN parameter values:</b>   |  |   |
| <b>Comments:</b>                | EDITORS NOTE 1: The PLMN Standard covers the cases where the subscription check or the compatibility check fails. The cause value with which the call shall be rejected is not defined.  |   |

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| 120322                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 4.5.19<br><br>ETS 300 103 [5], Annex I,<br><br>EG 201 018 [2] , subclause 7.1.1  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H<br><br>ETS 300 604 [42], Table 6B-09.07 General notes 1 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Unsuccessful/UDI/TC120322  |   |
| <b>ISDN selection criteria:</b> | Bearer service UDI  |   |
| <b>PLMN selection criteria:</b> | UDI   |   |
| <b>Test purpose:</b>            | Ensure that the network initiate call clearing to the calling user with cause value # 63 "service or option not available, unspecified" or # 57 "bearer capability not authorized" when the calling user sends the SETUP containing the BC = UDI and the LLC=V.110/X.30, synchronous mode, user rate 19,2 kbit/s. |   |
| <b>ISDN parameter values:</b>   | BC = UDI, LLC=V.110/X.30, synchronous mode, user rate 19,2 kbit/s   |   |
| <b>PLMN parameter values:</b>   |   |   |
| <b>Comments:</b>                | EDITORS NOTE 1: The PLMN Standard covers the cases where the subscription check or the compatibility check fails. The cause value with which the call shall be rejected is not defined.   |   |

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| 110323                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1], subclause 4.5.5   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H<br>ETS 300 604 [42], Table 6B-09.07 General notes 1 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Unsuccessful/UDI/TC110323  |   |
| <b>ISDN selection criteria:</b> | Bearer service UDI  |   |
| <b>PLMN selection criteria:</b> | UDI   |   |
| <b>Test purpose:</b>            | Ensure that the network initiate call clearing to the calling user with cause value # 63 "service or option not available, unspecified" or # 57 "bearer capability not authorized" when the calling user sends the SETUP containing the BC=UDI, V.110/X.30, asynchronous mode, user rate 19,2 kbit/s. |   |
| <b>ISDN parameter values:</b>   | BC=UDI, V.110/X.30, asynchronous mode, user rate 19,2 kbit/s, no LLC  |   |
| <b>PLMN parameter values:</b>   |   |   |
| <b>Comments:</b>                |   |   |

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| 120324                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1], subclause 4.5.1<br>9<br>ETS 300 103 [5], Annex I<br>ETR 018, 7.1.1   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H<br>ETS 300 604 [42], Table 6B-09.07 General notes 1 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Unsuccessful/UDI/TC120324   |   |
| <b>ISDN selection criteria:</b> | Bearer service UDI   |   |
| <b>PLMN selection criteria:</b> | UDI  |   |
| <b>Test purpose:</b>            | Ensure that the network initiate call clearing to the calling user with cause value # 63 "service or option not available, unspecified" or # 57 "bearer capability not authorized" when the calling user sends the SETUP containing the BC = UDI and the LLC=V.110/X.30, asynchronous mode, user rate 19,2 kbit/s. |   |
| <b>ISDN parameter values:</b>   | BC = UDI, LLC=V.110/X.30, asynchronous mode, user rate 19,2 kbit/s   |   |
| <b>PLMN parameter values:</b>   |  |   |
| <b>Comments:</b>                | EDITORS NOTE 1: The PLMN Standard covers the cases where the subscription check or the compatibility check fails. The cause value with which the call shall be rejected is not defined.  |   |



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| 120325                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 4.5.5,<br><br>subclause 4.5.19  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H<br><br>ETS 300 604 [42], Table 6B-09.07 General notes 1 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Unsuccessful/UDI/TC120325   |   |
| <b>ISDN selection criteria:</b> | Bearer service UDI   |   |
| <b>PLMN selection criteria:</b> | UDI  |   |
| <b>Test purpose:</b>            | Ensure that the network initiate call clearing to the calling user with cause value # 63 "service or option not available, unspecified" or # 57 "bearer capability not authorized" when the calling user sends the SETUP containing the BC=UDI, V.110/X.30, synchronous mode, user rate 56 kbit/s. |   |
| <b>ISDN parameter values:</b>   | BC=UDI, V.110/X.30, synchronous mode, user rate 56 kbit/s, no LLC  |   |
| <b>PLMN parameter values:</b>   |  |   |
| <b>Comments:</b>                | EDITORS NOTE 1: The PLMN Standard covers the cases where the subscription check or the compatibility check fails. The cause value with which the call shall be rejected is not defined.  |   |

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| 120326                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 4.5.17,<br>subclause 4.5.19<br>EG 201 018 [2] ,<br>subclause 7.1.3  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H<br><br>ETS 300 604 [42], Table 6B-09.07 General notes 1 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Unsuccessful/UDI/TC120326   |   |
| <b>ISDN selection criteria:</b> | Bearer service UDI   |   |
| <b>PLMN selection criteria:</b> | UDI  |   |
| <b>Test purpose:</b>            | Ensure that the network initiate call clearing to the calling user with cause value # 63 "service or option not available, unspecified" or # 57 "bearer capability not authorized" when the calling user sends the SETUP containing the BC = UDI, LLC=telematic_term and the HLC= syntax-based videotex. |   |
| <b>ISDN parameter values:</b>   | BC = UDI, HLC= syntax-based videotex, LLC=telematic_term   |   |
| <b>PLMN parameter values:</b>   |  |   |
| <b>Comments:</b>                | EDITORS NOTE 1: The PLMN Standard covers the cases where the subscription check or the compatibility check fails. The cause value with which the call shall be rejected is not defined.  |   |

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| 120327                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1], subclause 4.5.17,<br>subclause 4.5.19,<br>EG 201 018 [2] , subclause 6.3.7   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H<br>ETS 300 604 [42], 102.2, Table 6B-09.07 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Unsuccessful/UDI/TC120327   |  |
| <b>ISDN selection criteria:</b> | Bearer service UDI   |  |
| <b>PLMN selection criteria:</b> | UDI  |  |
| <b>Test purpose:</b>            | Ensure that the network initiate call clearing to the calling user with cause value # 63 "service or option not available, unspecified" or # 57 "bearer capability not authorized" when the calling user sends the SETUP containing the BC = UDI, LLC=telematic_term and the HLC=FTAM. |  |
| <b>ISDN parameter values:</b>   | BC = UDI, HLC=FTAM, LLC=telematic_term   |  |
| <b>PLMN parameter values:</b>   |  |  |
| <b>Comments:</b>                | EDITORS NOTE 1: The PLMN Standard covers the cases where the subscription check or the compatibility check fails. The cause value with which the call shall be rejected is not defined.  |  |

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| 120328                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1], subclause 4.5.1<br>7,<br>subclause 4.5.19<br>EG 201 018 [2] , subclause 6.3.8   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H<br>ETS 300 604 [42], 102.2, Table 6B-09.07 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Unsuccessful/UDI/TC120328  |  |
| <b>ISDN selection criteria:</b> | Bearer service UDI  |  |
| <b>PLMN selection criteria:</b> | UDI   |  |
| <b>Test purpose:</b>            | Ensure that the network initiate call clearing to the calling user with cause value # 63 "service or option not available, unspecified" # 57 "bearer capability not authorized" when the calling user sends the SETUP containing the<br><br>BC = UDI, LLC=telematic_term and the HLC= Eurofile. |  |
| <b>ISDN parameter values:</b>   | BC = UDI, HLC= Eurofile, LLC=telematic_term   |  |
| <b>PLMN parameter values:</b>   |   |  |
| <b>Comments:</b>                | EDITORS NOTE 1: The PLMN Standard covers the cases where the subscription check or the compatibility check fails. The cause value with which the call shall be rejected is not defined.   |  |

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| 120329                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.1,<br>Annex M   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.2.3.1, Annex H.1.6 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Unsuccessful/UDI/TC120329   |  |
| <b>ISDN selection criteria:</b> | Bearer service UDI   |  |
| <b>PLMN selection criteria:</b> | UDI  |  |
| <b>Test purpose:</b>            | Ensure that, when the called user is busy (UDUB) after being alerted, the network initiate call clearing to the calling user with a DISCONNECT message indicating cause value #17 "user busy". |  |
| <b>ISDN parameter values:</b>   | BC=UDI   |  |
| <b>PLMN parameter values:</b>   |  |  |
| <b>Comments:</b>                | While in the alerting state, the called user sends a DISCONNECT (#17 "user busy").   |  |

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| 120401                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.1.5.1  | <b>PLMN ref. to:</b><br>ETS 300 557 [35] Annex H,<br>ETS 300 604 [42], subclause 10.2.2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Basic_call/Unsuccessful/UDI-TA/TC120401   |   |
| <b>ISDN selection criteria:</b> | Bearer service UDI/TA   |   |
| <b>PLMN selection criteria:</b> |   |   |
| <b>Test purpose:</b>            | Ensure that the network initiate call clearing to the calling user with cause value # 63 "service or option not available or # 65 "bearer service not implemented". |   |
| <b>ISDN parameter values:</b>   | BC=UDI/TA, no HLC   |   |
| <b>PLMN parameter values:</b>   |   |   |
| <b>Comments:</b>                |   |   |

## 6.2.2 Test purposes for ISDN-PLMN Supplementary services

### 6.2.2.1 Bearer capability "speech"

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| Supplementary_services |
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| Speech |
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| 210101                          | <b>ISDN ref. to:</b><br>ETS 300 092-1 [6],<br>subclause 9.3,<br>EN 300 403-1 [1],<br>subclause 4.5.10,<br>subclause 4.5.11  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 10.5.4.9<br>ETS 300 565 [36] |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/CLIP/TC210101   |  |
| <b>ISDN selection criteria:</b> | CLIP  |  |
| <b>PLMN selection criteria:</b> | The called user is provided with CLIP   |  |
| <b>Test purpose:</b>            | 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. |  |
| <b>ISDN parameter values:</b>   | BC=speech,<br>Calling party number: PI=PA SI=UPVP, TON=subscriber number<br>Calling party subaddress  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech,<br>Calling party number: PI=PA, SI=UPVP, TON= national / international number<br>NPI= ISDN/Telephony numbering plan (ITU-T Rec. E.164 [25] )<br>Calling party subaddress   |  |
| <b>Comments:</b>                |   |  |

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| 210102                          | <b>ISDN ref. to:</b><br>ETS 300 092-1 [6]<br>subclause 9.3<br>EN 300 403-1 [1],<br>subclause 4.5.10,<br>subclause 4.5.11  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], 10.5.4.9<br><br>ETS 300 542 [57] , subclause 1<br><br>ETS 300 565 [36], subclause 1 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/CLIP/TC210102   |   |
| <b>ISDN selection criteria:</b> | CLIP  |   |
| <b>PLMN selection criteria:</b> | The called user is provided with CLIP   |   |
| <b>Test purpose:</b>            | 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. |   |
| <b>ISDN parameter values:</b>   | BC=speech,<br><br>Calling party number: PI=PA, SI=UPVP, TON= national number<br><br>Calling party subaddress  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech,<br><br>Calling party number: PI=PA SI=UPVP, TON= national / international number<br><br>NPI= ISDN/Telephony numbering plan (ITU-T Rec. E.164 [25] )<br><br>Calling party subaddress  |   |
| <b>Comments:</b>                |   |   |

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| 210103                          | <b>ISDN ref. to:</b><br>ETS 300 092-1 [6],<br>subclause 9.3<br>EN 300 403-1 [1],<br>subclause 4.5.10,<br>subclause 4.5.11  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 10.5.4.9<br>ETS 300 542 [57] , subclause 1<br>ETS 300 565 [36], subclause 1 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/CLIP/TC210103  |   |
| <b>ISDN selection criteria:</b> | CLIP   |   |
| <b>PLMN selection criteria:</b> | The called user is provided with CLIP  |   |
| <b>Test purpose:</b>            | 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. |   |
| <b>ISDN parameter values:</b>   | BC=speech,<br>Calling party number: PI=PA, SI=UPVP, TON=international number<br>Calling party subaddress   |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech,<br>Calling party number: PI=PA, SI=UPVP, TON= national / international number<br>NPI= ISDN/Telephony numbering plan (ITU-T Rec. E.164 [25] )<br>Calling party subaddress  |   |
| <b>Comments:</b>                |  |   |

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| 210104                          | <b>ISDN ref. to:</b><br>ETS 300 092-1 [6]<br>subclause 9.3<br>EN 300 403-1 [1],<br>subclause 4.5.10,<br>subclause 4.5.11  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 10.5.4.9, 10.5.4.10<br>ETS 300 542 [57] , subclause 1,<br>ETS 300 565 [36], subclause 1 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/CLIP/TC210104   |   |
| <b>ISDN selection criteria:</b> | CLIP  |   |
| <b>PLMN selection criteria:</b> | The called user is provided with CLIP   |   |
| <b>Test purpose:</b>            | 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. |   |
| <b>ISDN parameter values:</b>   | BC=speech,<br>Calling party number: PI=PA SI=UPVP, TON=unknown<br>Calling party subaddress  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech,<br>Calling party number: SI=UPVP, TON= national / international number<br>NPI= ISDN/Telephony numbering plan (ITU-T Rec. E.164 [25] )<br>Calling party subaddress  |   |
| <b>Comments:</b>                |   |   |

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| 210105                          | <b>ISDN ref. to:</b><br>ETS 300 092-1 [6],<br>subclause 9.3<br>EN 300 403-1 [1],<br>subclause 4.5.10   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 10.5.4.9, 10.5.4.10<br>ETS 300 565 [36], subclause 1<br>ETS 300 542 [57] , subclause 1 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/CLIP/TC210105  |  |
| <b>ISDN selection criteria:</b> | CLIP   |  |
| <b>PLMN selection criteria:</b> | The called user is provided with CLIP  |  |
| <b>Test purpose:</b>            | 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. |  |
| <b>ISDN parameter values:</b>   | BC=speech  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech,<br>Calling party number: PI=PA, SI=NP, TON= national / international,<br>NPI= ISDN/Telephony numbering plan (ITU-T Rec. E.164 [25] )  |  |
| <b>Comments:</b>                |  |  |



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| 210201                          | <b>ISDN ref. to:</b><br>ETS 300 093-1 [7],<br>subclause 9.4.1:<br>ETS 300 092-1 [6] /A2 Fig2   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 10.5.4.9,<br>subclause 10.5.4.10<br><br>ETS 300 565 [36], subclause 1<br><br>ETS 300 542 [57] , subclause 1 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/CLIR/TC210201  |   |
| <b>ISDN selection criteria:</b> | CLIR   |   |
| <b>PLMN selection criteria:</b> | The called user is provided with CLIP  |   |
| <b>Test purpose:</b>            | The calling user is provided with CLIR permanent mode subscription.<br><br>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 |   |
| <b>ISDN parameter values:</b>   | BC=speech,<br><br>Calling party number: PI=PA, TON=unknown, NPI=unknown<br><br>Calling party subaddress  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech,<br><br>Calling party number: PI=PR, TON=unknown, NPI=unknown, SI=NP   |   |
| <b>Comments:</b>                |  |   |

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| 210202                          | <b>ISDN ref. to:</b><br>ETS 300 093-1 [7],<br>subclause 9.4.1<br>ETS 300 092-1 [6] /A2 Fig2   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 10.5.4.9,<br>subclause 10.5.4.10<br><br>ETS 300 565 [36], subclause 1,<br><br>ETS 300 542 [57] , subclause 1 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/CLIR/TC210202   |  |
| <b>ISDN selection criteria:</b> | CLIR  |  |
| <b>PLMN selection criteria:</b> | The called user is provided with CLIP   |  |
| <b>Test purpose:</b>            | The calling user is provided with CLIR permanent mode subscription.<br><br>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. |  |
| <b>ISDN parameter values:</b>   | BC=speech   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech, Calling party number: PI=PR, TON=unknown, NPI=unknown, SI=NP   |  |
| <b>Comments:</b>                |   |  |

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| 210301                          | <b>ISDN ref. to:</b><br>ETS 300 097-1 [8],<br>subclause 9.5.1  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 10.5.4.14<br>ETS 300 565 [36], subclause 3<br>ETS 300 542 [57] , subclause 3 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/COLP/TC210301  |  |
| <b>ISDN selection criteria:</b> | The calling user is provided with COLP   |  |
| <b>PLMN selection criteria:</b> | COLP   |  |
| <b>Test purpose:</b>            | Ensure that when the Connected subaddress is provided by the called user, the Connected number and Connected subaddress information elements are correctly delivered to the calling (served) user. |  |
| <b>ISDN parameter values:</b>   | BC=speech;<br>Connected number: SI=NP, PI=PA, TON= national/international number,<br>NPI=ISDN/Telephony numbering plan (ITU-T Rec. E.164 [25] )<br>Connected subaddress                            |  |
| <b>PLMN parameter values:</b>   | BC=speech;<br>Connected subaddress   |  |
| <b>Comments:</b>                |  |  |

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| 210302                          | <b>ISDN ref. to:</b><br>ETS 300 097-1 [8],<br>subclause 9.5.1   | <b>PLMN ref. to:</b><br>ETS 300 565 [36], subclause 3,<br>ETS 300 542 [57] , subclause 3 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/COLP/TC210302   |  |
| <b>ISDN selection criteria:</b> | Calling user is provided with COLP  |  |
| <b>PLMN selection criteria:</b> | COLP  |  |
| <b>Test purpose:</b>            | Ensure that when no Connected subaddress is provided by the called user, the Connected number information element is network provided and correctly delivered to the calling (served) user. |  |
| <b>ISDN parameter values:</b>   | BC=speech;<br>Connected number: SI=NP, PI=PA, TON= National / international,<br>NPI= ISDN/Telephony numbering plan (ITU-T Rec. E.164 [25] )   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |  |
| <b>Comments:</b>                |   |  |

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| 210401                          | <b>ISDN ref. to:</b><br>ETS 300 098-1 [9],<br>subclause 9.3.1,<br>subclause 9.4.1<br>ETS 300 097-1 [8] /A2 Fig 4   | <b>PLMN ref. to:</b><br>ETS 300 565 [36], subclause 4,<br>ETS 300 542 [57] , subclause 4 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/COLR/TC210401  |  |
| <b>ISDN selection criteria:</b> | The calling user is provided with COLP   |  |
| <b>PLMN selection criteria:</b> | COLR   |  |
| <b>Test purpose:</b>            | The called (served) user is provided with COLR permanent mode subscription<br><br>Ensure that when no Connected subaddress is provided by the called user, the Connected number information element is network provided and delivered to the calling user without any digit information. |  |
| <b>ISDN parameter values:</b>   | BC=speech,<br><br>Connected number : PI=PR, TON=unknown, NPI=unknown SI=NP   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech;   |  |
| <b>Comments:</b>                |  |  |

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| 210501                          | <b>ISDN ref. to:</b><br>ETS 300 138-1 [10],<br>subclause 9.2.2,<br>subclause 9.2.4  | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br><br>ETS 300 569 [39] |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/CUG/TC210501  |  |
| <b>ISDN selection criteria:</b> | CUG supplementary options: <b>not OA; not ocb; not Pref. CUG</b>  |  |
| <b>PLMN selection criteria:</b> | Calling user and called user belong to the <b>same CUG</b> ;<br><br>CUG supplementary options: <b>IA; not ICB</b>   |  |
| <b>Test purpose:</b>            | Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access is not allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> 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 OARRequested set to TRUE, CUG Index included,<br><br>the called user receives a SETUP message with a Facility IE which contains an CUG index associated with the invoked CUG. |  |
| <b>ISDN parameter values:</b>   | BC=speech; Facility IE with cUGCall invoke component:<br><br>OARRequested set to TRUE<br><br>CUG Index included   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech; Facility (Invoke =NotifySS (CUG-Index))  |  |
| <b>Comments:</b>                |   |  |

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| 210502                          | <b>ISDN ref. to:</b><br>ETS 300 138-1 [10],<br>subclause 9.2.2,<br>subclause 9.2.4  | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39] |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/CUG/TC210502  |  |
| <b>ISDN selection criteria:</b> | The calling user belongs to a CUG with the following CUG supplementary options: <b>OA; not ocb; not Pref. CUG</b>   |  |
| <b>PLMN selection criteria:</b> | The called user belongs to the <b>same</b> CUG with the following CUG supplementary options: <b>IA; not ICB</b>   |  |
| <b>Test purpose:</b>            | <p>Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> 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 OARrequested set to TRUE, CUG Index included,</p> <p>the called user receives a SETUP message. A Facility IE may be passed to the MS which contains an CUG index associated with the invoked CUG.</p> |  |
| <b>ISDN parameter values:</b>   | BC=speech; Facility IE with cUGCall invoke component:<br><br><div style="text-align: right;">OARrequested set to TRUE</div> <div style="text-align: right;">CUG Index included</div>  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech; Facility (Invoke =NotifySS (CUG-Index))  |  |
| <b>Comments:</b>                |   |  |

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| 210503                          | <b>ISDN ref. to:</b><br>ETS 300 138-1 [10],<br>subclause 9.2.2,<br>subclause 9.2.4   | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39] |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/CUG/TC210503   |  |
| <b>ISDN selection criteria:</b> | The calling user belongs to a CUG with the following CUG supplementary options: <b>OA; not ocb; not Pref. CUG</b>  |  |
| <b>PLMN selection criteria:</b> | The called user belongs to the <b>same</b> CUG with the following CUG supplementary options: <b>IA; ICB</b>  |  |
| <b>Test purpose:</b>            | <p>Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access is allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> 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 OARRequested set to TRUE, CUG Index included,</p> <p>the network initiate call clearing to the calling user with cause value # 29 "Facility rejected", return error value "incomming CallsBarredWithinCUG".</p> |  |
| <b>ISDN parameter values:</b>   | BC=speech; Facility IE with cUGCall invoke component:<br><br><div style="text-align: right;">OARRequested set to TRUE</div> <div style="text-align: right;">CUG Index included</div>   |  |
| <b>PLMN parameter values:</b>   |  |  |
| <b>Comments:</b>                |  |  |

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| 210504                          | <b>ISDN ref. to:</b><br>ETS 300 138-1 [10]<br>subclause 9.2.2,<br>subclause 9.2.4   | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39] |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/CUG/TC210504  |  |
| <b>ISDN selection criteria:</b> | The calling user belongs to a CUG with the following CUG supplementary options: <b>OA; not ocb; not Pref. CUG</b>   |  |
| <b>PLMN selection criteria:</b> | The called user belongs <b>to the same CUG</b> with the following CUG supplementary options: <b>IA; not ICB</b>   |  |
| <b>Test purpose:</b>            | Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access is allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> 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,<br><br>the called user receives a SETUP message. |  |
| <b>ISDN parameter values:</b>   | BC=speech; Facility IE with cUGCall invoke component:<br><br>OARequested set to TRUE<br>CUG Index <b>not</b> included   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |  |
| <b>Comments:</b>                |   |  |

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| 210505                          | <b>ISDN ref. to:</b><br>ETS 300 138-1 [10]<br>subclause 9.2.2  | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br><br>ETS 300 569 [39] |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/CUG/TC210505   |  |
| <b>ISDN selection criteria:</b> | The calling user belongs to a CUG with the following CUG supplementary options: <b>OA; not ocb; not Pref. CUG</b>  |  |
| <b>PLMN selection criteria:</b> | The called user is <b>not a CUG subscriber</b>   |  |
| <b>Test purpose:</b>            | Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access is allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> 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,<br><br>the network initiate call clearing to the calling user with cause value # 29 "Facility rejected", return error value "userNotMemberOfCUG".. |  |
| <b>ISDN parameter values:</b>   | BC=speech; Facility IE with cUGCall invoke component:<br><br>OARequested set to TRUE<br>CUG Index included   |  |
| <b>PLMN parameter values:</b>   |  |  |
| <b>Comments:</b>                |  |  |

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| 210506                          | <b>ISDN ref. to:</b><br>ETS 300 138-1 [10],<br>subclause 9.2.3  | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br><br>ETS 300 569 [39] |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/CUG/TC210506  |  |
| <b>ISDN selection criteria:</b> | Calling user is <b>not member</b> of CUG  |  |
| <b>PLMN selection criteria:</b> | The called user belongs to CUG with the following CUG supplementary options:<br><b>not IA; not ICB</b>  |  |
| <b>Test purpose:</b>            | Ensure that when the <b>calling</b> user has not subscribed to the CUG and the <b>called</b> 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". |  |
| <b>ISDN parameter values:</b>   | BC=speech   |  |
| <b>PLMN parameter values:</b>   |   |  |
| <b>Comments:</b>                |   |  |

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| 210507                          | <b>ISDN ref. to:</b><br>ETS 300 138-1 [10],<br>subclause 9.2.2   | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br><br>ETS 300 569 [39] |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/CUG/TC210507   |  |
| <b>ISDN selection criteria:</b> | The calling user belongs to a CUG with the following CUG supplementary options: <b>not OA; not ocb; not Pref. CUG</b>  |  |
| <b>PLMN selection criteria:</b> | The called user is not member of CUG.  |  |
| <b>Test purpose:</b>            | <p>Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access is not allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> user belongs not to a CUG, after the receipt of a SETUP message with a Facility IE containing a cUGCall invoke component with OARrequested set to TRUE, CUG Index included,</p> <p>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".</p> |  |
| <b>ISDN parameter values:</b>   | BC=speech; Facility IE with cUGCall invoke component:<br><br><div style="text-align: right;">OARrequested set to TRUE<br/>CUG Index included</div>   |  |
| <b>PLMN parameter values:</b>   |  |  |
| <b>Comments:</b>                |  |  |



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| 210508                          | <b>ISDN ref. to:</b><br>ETS 300 138-1 [10],<br>subclause 9.2.2  | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br><br>ETS 300 569 [39] |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/CUG/TC210508  |  |
| <b>ISDN selection criteria:</b> | The calling user belongs to a CUG with the following CUG supplementary options: <b>OA; not ocb; not Pref. CUG</b>   |  |
| <b>PLMN selection criteria:</b> | The called user belongs to <b>the same</b> CUG with the following CUG supplementary options: <b>not IA; ICB</b>   |  |
| <b>Test purpose:</b>            | <p>Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access is allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> 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 OARrequested set to TRUE, CUG Index included,</p> <p>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".</p> |  |
| <b>ISDN parameter values:</b>   | BC=speech; Facility IE with cUGCall invoke component:<br><br><div style="text-align: right;">OARrequested set to TRUE<br/>CUG Index included</div>  |  |
| <b>PLMN parameter values:</b>   |   |  |
| <b>Comments:</b>                |   |  |

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| 210509                          | <b>ISDN ref. to:</b><br>ETS 300 138-1 [10],<br>subclause 9.2.2   | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br><br>ETS 300 569 [39] |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/CUG/TC21059  |  |
| <b>ISDN selection criteria:</b> | The calling user belongs to a CUG with the following CUG supplementary options: <b>OA; not ocb; not Pref. CUG</b>  |  |
| <b>PLMN selection criteria:</b> | The called user belongs to <b>the same</b> CUG with the following CUG supplementary options: <b>not IA; ICB</b>  |  |
| <b>Test purpose:</b>            | <p>Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access is allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> 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 OARrequested set to FALSE, CUG Index included,</p> <p>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".</p> |  |
| <b>ISDN parameter values:</b>   | BC=speech; Facility IE with cUGCall invoke component:<br><br><div style="text-align: right;">OARrequested set to FALSE<br/>CUG Index included</div>  |  |
| <b>PLMN parameter values:</b>   |  |  |
| <b>Comments:</b>                |  |  |

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| 210510                          | <b>ISDN ref. to:</b><br>ETS 300 138-1 [10],<br>subclause 9.2.2,<br>subclause 9.2.4  | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39] |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/CUG/TC210510  |  |
| <b>ISDN selection criteria:</b> | The calling user belongs to a CUG with the following CUG supplementary options: <b>OA; not ocb; not Pref. CUG</b>   |  |
| <b>PLMN selection criteria:</b> | The called user belongs to the <b>same</b> CUG with the following CUG supplementary options: <b>IA; ICB</b>   |  |
| <b>Test purpose:</b>            | <p>Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access is allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> 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 OARrequested set to FALSE, CUG Index included,</p> <p>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".</p> |  |
| <b>ISDN parameter values:</b>   | BC=speech; Facility IE with cUGCall invoke component:<br><br><div style="text-align: right;">OARrequested set to FALSE<br/>CUG Index included</div>   |  |
| <b>PLMN parameter values:</b>   |   |  |
| <b>Comments:</b>                |   |  |

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| 210511                          | <b>ISDN ref. to:</b><br>ETS 300 138-1 [10],<br>subclause 9.2.2,<br>subclause 9.2.4   | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39] |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/CUG/TC210511   |  |
| <b>ISDN selection criteria:</b> | CUG supplementary options: <b>not OA; not OCB; not Pref. CUG</b>   |  |
| <b>PLMN selection criteria:</b> | Calling user and called user belong to the <b>same</b> CUG;<br>CUG supplementary options: <b>not IA; not ICB</b>   |  |
| <b>Test purpose:</b>            | Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access not allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> user belongs 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 OARRequested set to FALSE, CUG Index included,<br><br>the called user receives a SETUP message with a Facility IE which contains a CUG index associated with the invoked CUG. |  |
| <b>ISDN parameter values:</b>   | BC=speech; Facility IE with cUGCall invoke component:<br><br>OARRequested set to FALSE<br>CUG Index included   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech; Facility (Invoke =NotifySS (CUG-Index))   |  |
| <b>Comments:</b>                |  |  |

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| 210601                          | <b>ISDN ref. to:</b><br>ETS 300 061-1 [11]<br>subclause 9.2<br>EN 300 403-1 [1], subclause 4.<br>5.9  | <b>PLMN ref. to:</b><br>ETS 300 577 subclause 10.5.4.8 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/SUB/TC210601  |  |
| <b>ISDN selection criteria:</b> | SUB   |  |
| <b>PLMN selection criteria:</b> | The called (served) user is provided with SUB   |  |
| <b>Test purpose:</b>            | 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. |  |
| <b>ISDN parameter values:</b>   | BC=speech   |  |
| <b>PLMN parameter values:</b>   |   |  |
| <b>Comments:</b>                |   |  |

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| 210602                          | <b>ISDN ref. to:</b><br>ETS 300 061-1 [11]<br>subclause 9.2<br>EN 300 403-1 [1], subclause 4.5.9   | <b>PLMN ref. to:</b><br>ETS 300 577 subclause 10.5.4.8 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/SUB/TC210602   |  |
| <b>ISDN selection criteria:</b> | SUB  |  |
| <b>PLMN selection criteria:</b> | The called (served) user is provided with SUB  |  |
| <b>Test purpose:</b>            | 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 |  |
| <b>ISDN parameter values:</b>   | BC=speech  |  |
| <b>PLMN parameter values:</b>   |  |  |
| <b>Comments:</b>                |  |  |

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| 210701                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15],<br>subclause 9.2.2,<br>subclause 9.2.5  | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 1<br>ETS 300 543 [31], subclause 1 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/CFU/TC210701  |  |
| <b>ISDN selection criteria:</b> | Call to a forwarding subscriber (CFU)   |  |
| <b>PLMN selection criteria:</b> | The user B is in network N2 provided with CFU ("calling user is notified of call diversion "= <b>Yes</b> ). (Note 2)  |  |
| <b>Test purpose:</b>            | Ensure that when user A calls user B, the call is forwarded to user C.<br><br>User A is notified of call diversion.<br><br>User C receives a SETUP message with the information that the incoming call is a forwarded call.   |  |
| <b>ISDN parameter values:</b>   | <b>A:</b> ! BC=speech;<br><b>C:</b> ? BC=speech;  |  |
| <b>PLMN parameter values:</b>   | CFU active  |  |
| <b>Comments:</b>                | EDITORS NOTE 2: Stage 1, 2 and 3 descriptions of the call forwarding Supplementary_services are not in line with the pr ETS 300 646-1, item 6.1.1.10 ETS 300 646-1, item 6.1.1.10 (MSC acts like a diverting exchange according to ETS 300 356-15).<br><br>The served mobile subscriber has not the ability to decide if the indication that the incoming call is a forwarded call is released to the diverted-to user. |  |

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| 210702                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15],<br>subclause 9.2.2,<br>subclause 9.2.5   | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 1<br>ETS 300 543 [31], subclause 1 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/CFU/TC210702   |  |
| <b>ISDN selection criteria:</b> | Call to a forwarding subscriber (CFU)  |  |
| <b>PLMN selection criteria:</b> | The user B is in network N2 provided with CFU ("calling user is notified of call diversion" = <b>No</b> ). (Note 2)  |  |
| <b>Test purpose:</b>            | <p>Ensure that when user A calls user B, the call is forwarded to user C.</p> <p>User A is not notified of call diversion</p> <p>User C receives a SETUP message with the information that the incoming call is a forwarded call.</p>  |  |
| <b>ISDN parameter values:</b>   | <p><b>A:</b> ! BC=speech;</p> <p><b>C:</b> ? BC=speech;</p>  |  |
| <b>PLMN parameter values:</b>   | CFU active   |  |
| <b>Comments:</b>                | <p>EDITORS NOTE 2: Stage 1, 2 and 3 descriptions of the call forwarding Supplementary_services are not in line with the pr ETS 300 646-1, item 6.1.1.10 ETS 300 646-1, item 6.1.1.10 (MSC acts like a diverting exchange according to ETS 300 356-15).</p> <p>The served mobile subscriber has not the ability to decide if the indication that the incoming call is a forwarded call is released to the diverted-to user.</p> |  |

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| 210801                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15],<br>subclause 9.2.2,<br>subclause 9.2.4.3,<br>subclause 9.2.5  | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 2<br>ETS 300 543 [31], subclause 2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/CFB/TC210801  |  |
| <b>ISDN selection criteria:</b> | Call to a forwarding subscriber (CFB)   |  |
| <b>PLMN selection criteria:</b> | The user B is in network N2 and is provided with CFB-UDUB ("calling user is notified of call diversion" = <b>Yes</b> ). (Note 2)  |  |
| <b>Test purpose:</b>            | <p>Ensure that when user A calls busy user B, the call is forwarded to user C.</p> <p>User A is notified of call diversion.</p> <p>User C receives a SETUP message with the information that the incoming call is a forwarded call.</p>   |  |
| <b>ISDN parameter values:</b>   | <p><b>A:</b> ! BC=speech;</p> <p><b>C:</b> ? BC=speech;</p>   |  |
| <b>PLMN parameter values:</b>   | CFB-UDUB active   |  |
| <b>Comments:</b>                | <p>EDITORS NOTE 2: Stage 1, 2 and 3 descriptions of the call forwarding Supplementary_services are not in line with the pr ETS 300 646-1, item 6.1.1.10 ETS 300 646-1, item 6.1.1.10 (MSC acts like a diverting exchange according to ETS 300 356-15)</p> <p>The served mobile subscriber has not the ability to decide if the indication that the incoming call is a forwarded call is released to the diverted-to user.</p> |  |

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| 210802                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15],<br>subclause 9.2.2,<br>subclause 9.2.4.3,<br>subclause 9.2.5  | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 2<br>ETS 300 543 [31], subclause 2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/CFB/TC210802  |  |
| <b>ISDN selection criteria:</b> | Call to a forwarding subscriber (CFB)   |  |
| <b>PLMN selection criteria:</b> | The user B is in network N2 and is provided with CFB-UDUB ("calling user is notified of call diversion" = <b>No</b> ). (Note 2)   |  |
| <b>Test purpose:</b>            | <p>Ensure that when user A calls busy user B, the call is forwarded to user C.</p> <p>User A is not notified of call diversion</p> <p>User C receives a SETUP message with the information that the incoming call is a forwarded call.</p>  |  |
| <b>ISDN parameter values:</b>   | <p><b>A:</b> ! BC=speech;</p> <p><b>C:</b> ? BC=speech;</p>   |  |
| <b>PLMN parameter values:</b>   | CFB-UDUB active   |  |
| <b>Comments:</b>                | <p>EDITORS NOTE 2: Stage 1, 2 and 3 descriptions of the call forwarding Supplementary_services are not in line with the pr ETS 300 646-1, item 6.1.1.10 (MSC acts like a diverting exchange according to ETS 300 356-15).</p> <p>The served mobile subscriber has not the ability to decide if the indication that the incoming call is a forwarded call is released to the diverted-to user.</p> |  |



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| 210803                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15],<br>subclause 9.2.2,<br>subclause 9.2.4.3,<br>subclause 9.2.5   | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 2<br>ETS 300 543 [31], subclause 2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/CFB/TC210803   |  |
| <b>ISDN selection criteria:</b> | Call to a forwarding subscriber (CFB)  |  |
| <b>PLMN selection criteria:</b> | The user B is in network N2 and is provided with CFB- <b>NDUB</b> ("calling user is notified of call diversion" = <b>Yes</b> ; "notification to forwarding subscriber" = <b>Yes</b> ).<br>(Note 2)   |  |
| <b>Test purpose:</b>            | <p>Ensure that when user A calls busy user B, the call is forwarded to user C.</p> <p>User <b>A</b> is notified of call diversion.</p> <p>User <b>B</b> is notified of call diversion.</p> <p>User <b>C</b> receives a SETUP message with the information that the incoming call is a forwarded call.</p>  |  |
| <b>ISDN parameter values:</b>   | <p><b>A:</b> ! BC=speech;</p> <p><b>C:</b> ? BC=speech;</p>  |  |
| <b>PLMN parameter values:</b>   | CFB-NDUB active  |  |
| <b>Comments:</b>                | <p>EDITORS NOTE 2: Stage 1, 2 and 3 descriptions of the call forwarding Supplementary_services are not in line with the pr ETS 300 646-1, item 6.1.1.10 ETS 300 646-1, item 6.1.1.10 (MSC acts like a diverting exchange according to ETS 300 356-15).</p> <p>The served mobile subscriber has not the ability to decide if the indication that the incoming call is a forwarded call is released to the diverted-to user.</p> |  |

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| 210804                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15],<br>subclause 9.2.2,<br>subclause 9.2.4.3,<br>subclause 9.2.5   | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 2<br>ETS 300 543 [31], subclause 2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/CFB/TC210804   |  |
| <b>ISDN selection criteria:</b> | Call to a forwarding subscriber (CFB)  |  |
| <b>PLMN selection criteria:</b> | The user B is in network N2 and is provided with CFB- <b>NDUB</b> ("calling user is notified of call diversion" = <b>No</b> ; "notification to forwarding subscriber" = <b>No</b> ) (Note 2)   |  |
| <b>Test purpose:</b>            | <p>Ensure that when user A calls busy user B, the call is forwarded to user C.</p> <p>User <b>A</b> is not notified of call diversion.</p> <p>User <b>B</b> is not notified of call diversion.</p> <p>User <b>C</b> receives a SETUP message with the information that the incoming call is a forwarded call.</p>  |  |
| <b>ISDN parameter values:</b>   | <p><b>A:</b> ! BC=speech;</p> <p><b>C:</b> ? BC=speech;</p>  |  |
| <b>PLMN parameter values:</b>   | CFB-NDUB active  |  |
| <b>Comments:</b>                | <p>EDITORS NOTE 2: Stage 1, 2 and 3 descriptions of the call forwarding Supplementary_services are not in line with the pr ETS 300 646-1, item 6.1.1.10 (MSC acts like a diverting exchange according to ETS 300 356-15)</p> <p>The served mobile subscriber has not the ability to decide if the indication that the incoming call is a forwarded call is released to the diverted-to user.</p> |  |

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| 210901                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15], subclause 9.2.2,<br>subclause 9.2.4.4,<br>subclause 9.2.5   | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 3<br>ETS 300 543 [31], subclause 3 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/CFNRy/TC210901  |  |
| <b>ISDN selection criteria:</b> | Call to a forwarding subscriber (CFNRy)   |  |
| <b>PLMN selection criteria:</b> | The user B is in network N2 and is provided with CFNRy ("calling user is notified of call diversion" = <b>Yes</b> , "notification to forwarding subscriber" = <b>Yes</b> ). (Note 2)  |  |
| <b>Test purpose:</b>            | <p>Ensure that when user A calls user B, if unanswered, the call is forwarded to user C.</p> <p>User <b>A</b> is notified of call diversion.</p> <p>User <b>B</b> is notified of call diversion.</p> <p>User <b>C</b> receives a SETUP message with the information that the incoming call is a forwarded call.</p>   |  |
| <b>ISDN parameter values:</b>   | <p><b>A:</b> ! BC=speech;</p> <p><b>C:</b> ? BC=speech;</p>   |  |
| <b>PLMN parameter values:</b>   | CFNRy active  |  |
| <b>Comments:</b>                | <p>EDITORS NOTE 2: Stage 1, 2 and 3 descriptions of the call forwarding Supplementary_services are not in line with the pr ETS 300 646-1, item 6.1.1.10 (MSC acts like a diverting exchange according to ETS 300 356-15).</p> <p>The served mobile subscriber has not the ability to decide if the indication that the incoming call is a forwarded call is released to the diverted-to user.</p> |  |

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| 210902                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15],<br>subclause 9.2.2,<br>subclause 9.2.4.4,<br>subclause 9.2.5   | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 3<br>ETS 300 543 [31], subclause 3 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/CFNRy/TC210902   |  |
| <b>ISDN selection criteria:</b> | Call to a forwarding subscriber (CFNRy)  |  |
| <b>PLMN selection criteria:</b> | The user B is in network N2 and is provided with CFNRy ("calling user is notified of call diversion" = <b>No</b> "notification to forwarding subscriber" = <b>No</b> ). (Note 2)   |  |
| <b>Test purpose:</b>            | <p>Ensure that when user A calls user B, if unanswered, the call is forwarded to user C.</p> <p>User <b>A</b> is not notified of call diversion.</p> <p>User <b>B</b> is not notified of call diversion.</p> <p>User <b>C</b> receives a SETUP message with the information that the incoming call is a forwarded call.</p>  |  |
| <b>ISDN parameter values:</b>   | <p><b>A:</b> ! BC=speech;</p> <p><b>C:</b> ? BC=speech;</p>  |  |
| <b>PLMN parameter values:</b>   | CFNRy active   |  |
| <b>Comments:</b>                | <p>EDITORS NOTE 2: Stage 1, 2 and 3 descriptions of the call forwarding Supplementary_services are not in line with the pr ETS 300 646-1, item 6.1.1.10 (MSC acts like a diverting exchange according to ETS 300 356-15)</p> <p>The served mobile subscriber has not the ability to decide if the indication that the incoming call is a forwarded call is released to the diverted-to user.</p> |  |

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| 211001                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15], subclause 9.2.2,<br>subclause 9.2.4.4,<br>subclause 9.2.5   | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 3<br>ETS 300 543 [31], subclause 3 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/CFNRc/TC211001  |  |
| <b>ISDN selection criteria:</b> | Call to a forwarding subscriber (CFNRc)   |  |
| <b>PLMN selection criteria:</b> | The user B is in network N2 and is provided with CFNRc ("calling user is notified of call diversion" = <b>Yes</b> ). (Note 2)   |  |
| <b>Test purpose:</b>            | <p>Ensure that when user A calls user B, <b>if detached</b>, the call is forwarded to user C.</p> <p>User A is notified of call diversion.</p> <p>User C receives a SETUP message with the information that the incoming call is a forwarded call.</p>  |  |
| <b>ISDN parameter values:</b>   | <p>A: ! BC=speech;</p> <p>C: ? BC=speech;</p>   |  |
| <b>PLMN parameter values:</b>   | CFNRc active, the user is detached  |  |
| <b>Comments:</b>                | <p><i>EDITORS NOTE 2: Stage 1, 2 and 3 descriptions of the call forwarding Supplementary_services are not in line with the pr ETS 300 646-1, item 6.1.1.10 (MSC acts like a diverting exchange according to ETS 300 356-15). The served mobile subscriber has not the ability to decide if the indication that the incoming call is a forwarded call is released to the diverted-to user.</i></p> |  |

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| 211002                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15],<br>subclause 9.2.2,<br>subclause 9.2.4.4,<br>subclause 9.2.5  | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 3<br>ETS 300 543 [31], subclause 3 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/CFNRc/TC211002  |  |
| <b>ISDN selection criteria:</b> | Call to a forwarding subscriber (CFNRc)   |  |
| <b>PLMN selection criteria:</b> | The user B is in network N2 and is provided with CFNRc ("calling user is notified of call diversion" = <b>No</b> ). (Note 2)  |  |
| <b>Test purpose:</b>            | Ensure that when user A calls user B, <b>if detached</b> the call is forwarded to user C.<br><br>User A is not notified of call diversion.<br><br>User C receives a SETUP message with the information that the incoming call is a forwarded call.  |  |
| <b>ISDN parameter values:</b>   | A: ! BC=speech;<br>C: ? BC=speech;  |  |
| <b>PLMN parameter values:</b>   | CFNRc active, the user is detached  |  |
| <b>Comments:</b>                | EDITORS NOTE 2: Stage 1, 2 and 3 descriptions of the call forwarding Supplementary_services are not in line with the pr ETS 300 646-1, item 6.1.1.10 (MSC acts like a diverting exchange according to ETS 300 356-15). The served mobile subscriber has not the ability to decide if the indication that the incoming call is a forwarded call is released to the diverted-to user. |  |

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| 211101                          | <b>ISDN ref. to:</b><br>ETS 300 141-1 [18],<br>subclause 7<br>ETS 300 196-1, subclause 7.1   | <b>PLMN ref. to:</b><br>ETS 300 567 [38], subclause 2<br>ETS 300 544 [32], subclause 2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/HOLD/TC211101  |  |
| <b>ISDN selection criteria:</b> | Call Hold  |  |
| <b>PLMN selection criteria:</b> | Call Hold  |  |
| <b>Test purpose:</b>            | Ensure that the calling user can initiate Call Hold, the called remote user is notified of call hold and the call can be retrieved |  |
| <b>ISDN parameter values:</b>   | BC=speech  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |  |
| <b>Comments:</b>                |  |  |

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| 211102                          | <b>ISDN ref. to:</b><br>ETS 300 141-1 [18],<br>subclause 7<br>ETS 300 196-1, subclause 7.1  | <b>PLMN ref. to:</b><br>ETS 300 567 [38] subclause 2<br>ETS 300 544 [32] subclause 2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/HOLD/TC211102   |  |
| <b>ISDN selection criteria:</b> | Call Hold   |  |
| <b>PLMN selection criteria:</b> | Call Hold   |  |
| <b>Test purpose:</b>            | 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 in the held state. |  |
| <b>ISDN parameter values:</b>   | BC=speech   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |  |
| <b>Comments:</b>                |   |  |

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| 211103                          | <b>ISDN ref. to:</b><br>ETS 300 141-1 [18],<br>subclause 7<br>ETS 300 196-1, subclause 7.1   | <b>PLMN ref. to:</b><br>ETS 300 567 [38] subclause 2<br>ETS 300 544 [32] subclause 2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/HOLD/TC211103  |  |
| <b>ISDN selection criteria:</b> | Call Hold  |  |
| <b>PLMN selection criteria:</b> | Call Hold  |  |
| <b>Test purpose:</b>            | 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 non -served user during the held state. |  |
| <b>ISDN parameter values:</b>   | BC=speech  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |  |
| <b>Comments:</b>                |  |  |

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| 211104                          | <b>ISDN ref. to:</b><br>ETS 300 141-1 [18], subclause 7<br>ETS 300 196-1, subclause 7.1  | <b>PLMN ref. to:</b><br>ETS 300 567 [38] subclause 2<br><br>ETS 300 544 [32] subclause 2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/HOLD/TC211104  |  |
| <b>ISDN selection criteria:</b> | Call Hold  |  |
| <b>PLMN selection criteria:</b> | Call Hold  |  |
| <b>Test purpose:</b>            | Ensure that the called user can initiate Call Hold, the calling remote user is notified of call hold and the call can be retrieved |  |
| <b>ISDN parameter values:</b>   | BC=speech  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |  |
| <b>Comments:</b>                |  |  |

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| 211105                          | <b>ISDN ref. to:</b><br>ETS 300 141-1 [18],<br>subclause 7<br>ETS 300 196-1, subclause 7.1   | <b>PLMN ref. to:</b><br>ETS 300 567 [38] subclause 2<br><br>ETS 300 544 [32] subclause 2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/HOLD/TC211105  |  |
| <b>ISDN selection criteria:</b> | Call Hold  |  |
| <b>PLMN selection criteria:</b> | Call Hold  |  |
| <b>Test purpose:</b>            | Ensure that the called user can initiate Call Hold, the calling remote user is notified of call hold and that the call can be released from the called user in the held state. |  |
| <b>ISDN parameter values:</b>   | BC=speech  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |  |
| <b>Comments:</b>                |  |  |



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| 211106                          | <b>ISDN ref. to:</b><br>ETS 300 141-1 [18],<br>subclause 7<br>ETS 300 196-1, subclause 7.1  | <b>PLMN ref. to:</b><br>ETS 300 567 [38] subclause 2<br>ETS 300 544 [32] subclause 2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/HOLD/TC211106   |  |
| <b>ISDN selection criteria:</b> | Call Hold   |  |
| <b>PLMN selection criteria:</b> | Call Hold   |  |
| <b>Test purpose:</b>            | Ensure that the called user can initiate Call Hold, the calling remote user is notified of call hold and that the call can be released from the calling non –served user during the held state. |  |
| <b>ISDN parameter values:</b>   | BC=speech   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |  |
| <b>Comments:</b>                |   |  |

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| 211201                          | <b>ISDN ref. to:</b><br>ETS 300 058-1 [19],<br>subclause 7<br>EN 300 403-1 [1], subclause 4.<br>5.2.1  | <b>PLMN ref. to:</b><br>ETS 300 567 [38] subclause 1<br>ETS 300 544 [32] subclause 1 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/CW/TC211201  |  |
| <b>ISDN selection criteria:</b> | CW   |  |
| <b>PLMN selection criteria:</b> | The called user is provided with CW  |  |
| <b>Test purpose:</b>            | Ensure that the called user (MS) responds with CALL-CONFIRMED and ALERTING (where the call is a waiting call), the calling user receives ALERTING message containing a Notification indicator information element coded as "call is a waiting call". |  |
| <b>ISDN parameter values:</b>   | BC=speech  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |  |
| <b>Comments:</b>                |  |  |

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| 211202                          | <b>ISDN ref. to:</b><br>ETS 300 058-1 [19],<br>subclause 7<br>EN 300 403-1 [1], subclause 4.<br>5.2.1 | <b>PLMN ref. to:</b><br>ETS 300 567 [38] subclause 1<br>ETS 300 544 [32] subclause 1 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/CW/TC211202   |  |
| <b>ISDN selection criteria:</b> | CW  |  |
| <b>PLMN selection criteria:</b> | The called user is provided with CW   |  |
| <b>Test purpose:</b>            | Ensure that the Waiting call is released at the terminating exchange after timer expired              |  |
| <b>ISDN parameter values:</b>   | BC=speech   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |  |
| <b>Comments:</b>                |   |  |

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| 211301                          | <b>ISDN ref. to:</b><br>ETS 300 286-1 [13],<br>subclause 9.1.1.1,<br>subclause 9.1.2.1<br>EN 300 403-1 [1],<br>subclause 4.5.30  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 10.5.4.25, |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/UUS1/TC211301  |  |
| <b>ISDN selection criteria:</b> | The calling (served) user is provided with UUS1 implicit request   |  |
| <b>PLMN selection criteria:</b> | UUS1i  |  |
| <b>Test purpose:</b>            | 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 |  |
| <b>ISDN parameter values:</b>   | BC=speech, UI length=32  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech, UI length=32  |  |
| <b>Comments:</b>                |  |  |

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| 211302                          | <b>ISDN ref. to:</b><br>ETS 300 286-1 [13],<br>subclause 9.1.2.1<br>EN 300 403-1 [1],<br>subclause 4.5.30  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 10.5.4.25 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/UUS1/TC211302  |   |
| <b>ISDN selection criteria:</b> | The calling (served) user is provided with UUS1 implicit request   |   |
| <b>PLMN selection criteria</b>  | UUS1i  |   |
| <b>Test purpose:</b>            | 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. |   |
| <b>ISDN parameter values:</b>   | BC=speech, UI length=32  |   |
| <b>PLMN parameter values</b>    | GSM-BC=speech, UI length=32  |   |
| <b>Comments:</b>                |  |   |

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| 211303                          | <b>ISDN ref. to:</b><br>ETS 300 286-1 [13], subclause<br>9.1.2.1<br>EN 300 403-1 [1],<br>subclause 4.5.30  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 10.5.4.25, |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/UUS1/TC211303  |  |
| <b>ISDN selection criteria:</b> | The calling (served) user is provided with UUS1 implicit request   |  |
| <b>PLMN selection criteria</b>  | UUS1i  |  |
| <b>Test purpose:</b>            | 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 |  |
| <b>ISDN Parameter values:</b>   | BC=speech, UI length=32  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech, UI length=32  |  |
| <b>Comments:</b>                |  |  |

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| 211304                          | <b>PLMN ref. to:</b><br>ETS 300 286-1 [13],<br>subclause 9.1.2.2.1a<br>EN 300 403-1 [1],   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 10.5.4.25, |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/UUS1/TC211304  |  |
| <b>ISDN selection criteria:</b> | The calling (served) user is provided with UUS1 implicit request   |  |
| <b>PLMN selection criteria:</b> | UUS1i  |  |
| <b>Test purpose:</b>            | 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. |  |
| <b>ISDN parameter values:</b>   | BC=speech, UI length=32  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech, UI length=32  |  |
| <b>Comments:</b>                |  |  |

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| 211305                          | <b>PLMN ref. to:</b><br>ETS 300 286-1 [13]<br>subclause 9.1.2.2.1b<br>EN 300 403-1 [1]   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 10.5.4.25, |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/UUS1/TC211305  |  |
| <b>ISDN selection criteria:</b> | The calling (served) user is provided with UUS1 implicit request   |  |
| <b>PLMN selection criteria:</b> | UUS1i  |  |
| <b>Test purpose:</b>            | 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 |  |
| <b>ISDN parameter values:</b>   | BC=speech, UI length=32  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech, UI length=32  |  |
| <b>Comments:</b>                |  |  |

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| 211306                          | <b>ISDN ref. to:</b><br>ETS 300 286-1 [13],<br>subclause 9.1.1.2.2<br>EN 300 403-1 [1], subclause 7   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 10.5.4.25, |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/UUS1/TC211306   |  |
| <b>ISDN selection criteria:</b> | The calling (served) user is provided with UUS1 implicit request.   |  |
| <b>PLMN selection criteria:</b> | UUS1i   |  |
| <b>Test purpose:</b>            | The requested UUS is not supported in Network B.<br><br>Verify that UUI can be discarded by the network without disrupting normal call handling |  |
| <b>ISDN Parameter values:</b>   | BC=speech, UI length=32   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |  |
| <b>Comments:</b>                | .   |  |

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| 211401                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15]<br>subclause 9.2.2,<br>subclause 9.2.5  | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 1<br>ETS 300 543 [31], subclause 1 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/CFU_CLI_COL/TC211401   |  |
| <b>ISDN selection criteria:</b> | The user A and the user C are in network N1. User A is provided with COLP, user C is provided with CLIP.   |  |
| <b>PLMN selection criteria:</b> | The user B is in network N2 provided with CFU ("calling user is notified of call diversion "= <b>Yes</b> ). (Note 2)   |  |
| <b>Test purpose:</b>            | <p>Ensure that when user A calls user B, the call is forwarded to user C.</p> <p>User A is notified of call diversion and the presentation of the diverted-to number is allowed accordance with the COLR supplementary service of the diverted-to user.</p> <p>User C can receive the <b>Redirecting number</b> IE giving the reason for call diversion with the presentation indicator set to "presentation allowed".</p>   |  |
| <b>ISDN parameter values:</b>   | <b>A:</b> ! BC=speech;<br><b>C:</b> ? BC=speech;   |  |
| <b>PLMN parameter values:</b>   | CFU active   |  |
| <b>Comments:</b>                | <p>User A is notified of call diversion with a Notification indicator IE contained in a NOTIFY or CALL PROCEEDING (state N01), ALERTING, PROGRESS, CONNECT, INFORMATION or NOTIFY (state N03), PROGRESS, CONNECT, INFORMATION or NOTIFY (state N04) message.</p> <p>The presentation of the diverted-to number is allowed accordance with the COLR supplementary service of the diverted-to user. The <b>Redirection number IE</b> with the presentation indicator can be contained in the ALERTING, CONNECT, NOTIFY, INFORMATION or PROGRESS (state N03), CONNECT, NOTIFY, INFORMATION or PROGRESS (state N04) message.</p> <p>User C can receive a SETUP message containing one <b>Redirecting number</b> IE giving the reason for call diversion with the presentation indicator set to "presentation allowed".</p> <p>EDITORS NOTE 2: Stage 1, 2 and 3 descriptions of the call forwarding Supplementary_services are not in line with the pr ETS 300 646-1, item 6.1.1.10 ETS 300 646-1, item 6.1.1.10 (MSC acts like a diverting exchange according to ETS 300 356-15).</p> <p>The served mobile subscriber has not the ability to decide if the indication that the incoming call is a forwarded call is released to the diverted-to user.</p> <p>The setting of the <u>redirecting number</u> to the forwarded-to subscriber in the ISUP signalling of GSM operators has to be considered as an implementation option.</p> |  |

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| 211402                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15],<br>subclause 9.2.2,<br>subclause 9.2.5  | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 1<br><br>ETS 300 543 [31], subclause 1 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/CFU_CLI_COL/TC211402  |  |
| <b>ISDN selection criteria:</b> | The user A and the user C are in network N1. User A is provided with COLP, user C is provided with COLR and CLIP.   |  |
| <b>PLMN selection criteria:</b> | The user B is in network N2 provided with CFU ("calling user is notified of call diversion" = <b>Yes</b> ). (Note 2)  |  |
| <b>Test purpose:</b>            | <p>Ensure that when user A calls user B, the call is forwarded to user C.</p> <p>User A is notified of call diversion and the presentation of the diverted-to number is <b>not</b> allowed accordance with the COLR supplementary service of the diverted-to user.</p> <p>User C can receive the <i>Redirecting number</i> IE giving the reason for call diversion with the presentation indicator set to "presentation allowed".</p>   |  |
| <b>ISDN parameter values:</b>   | <p>A: ! BC=speech;</p> <p>C: ? BC=speech;</p>   |  |
| <b>PLMN parameter values:</b>   | CFU active  |  |
| <b>Comments:</b>                | <p>User A is notified of call diversion with a Notification indicator IE contained in a NOTIFY or CALL PROCEEDING (state N01), ALERTING, PROGRESS, CONNECT, INFORMATION or NOTIFY (state N03), PROGRESS, CONNECT, INFORMATION or NOTIFY (state N04) message.</p> <p>The presentation of the diverted-to number is <b>not</b> allowed accordance with the COLR supplementary service of the diverted-to user.</p> <p>The <b>Redirection number IE</b> with the numbering identification field and the type of number field set to "unknown", without a number digits field and the presentation indicator either set to "presentation restricted" can be included in the ALERTING, CONNECT, NOTIFY or INFORMATION (state N03), CONNECT, NOTIFY or INFORMATION (state N04) message.</p> <p>User C can receive a SETUP message containing one <i>Redirecting number</i> IE giving the reason for call diversion with the presentation indicator set to "presentation allowed".</p> <p>EDITORS NOTE 2: Stage 1, 2 and 3 descriptions of the call forwarding Supplementary_services are not in line with the pr ETS 300 646-1, item 6.1.1.10 ETS 300 646-1, item 6.1.1.10 (MSC acts like a diverting exchange according to ETS 300 356-15).</p> <p>The served mobile subscriber has not the ability to decide if the indication that the incoming call is a forwarded call is released to the diverted-to user.</p> <p>The setting of the <u>redirecting number</u> to the forwarded-to subscriber in the ISUP signalling of GSM operators has to be considered as an implementation option.</p> |  |

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| 211403                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15],<br>subclause 9.2.2,<br>subclause 9.2.5  | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 1<br><br>ETS 300 543 [31], subclause 1 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/CFU_CLI_COL/TC211403  |  |
| <b>ISDN selection criteria:</b> | The user A and the user C are in network N1. User A is provided with COLP, user C is provided with CLIP.  |  |
| <b>PLMN selection criteria:</b> | The user B is in network N2 provided with CFU ("calling user is notified of call diversion" = <b>No</b> ) and <b>CLIR</b> . (Note 2)  |  |
| <b>Test purpose:</b>            | <p>Ensure that when user A calls user B, the call is forwarded to user C.</p> <p>User A is not notified of call diversion and not informed of the diverted-to number.</p> <p>User C can receive the <i>Redirecting number</i> IE giving the reason for call diversion with the presentation indicator set to "presentation allowed".</p>  |  |
| <b>ISDN parameter values:</b>   | <p><b>A:</b> ! BC=speech;</p> <p><b>C:</b> ? BC=speech;</p>   |  |
| <b>PLMN parameter values:</b>   | CFU active  |  |
| <b>Comments:</b>                | <p>The <b>Redirection number IE</b> shall not be included in the ALERTING, CONNECT, NOTIFY or INFORMATION (state N03), CONNECT, NOTIFY or INFORMATION (state N04) message.</p> <p>User C can receive a SETUP message containing one <i>Redirecting number</i> IE giving the reason for call diversion with the presentation indicator set to "presentation restricted".</p> <p>EDITORS NOTE 2: Stage 1, 2 and 3 descriptions of the call forwarding Supplementary_services are not in line with the pr ETS 300 646-1, item 6.1.1.10 ETS 300 646-1, item 6.1.1.10 (MSC acts like a diverting exchange according to ETS 300 356-15).</p> <p>The served mobile subscriber has not the ability to decide if the indication that the incoming call is a forwarded call is released to the diverted-to user.</p> <p>The setting of the <u>redirecting number</u> to the forwarded-to subscriber in the ISUP signalling of GSM operators has to be considered as an implementation option.</p> |  |



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| 211501                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15],<br>subclause 9.2.2,<br>subclause 9.2.4.3,<br>subclause 9.2.5  | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 2<br><br>ETS 300 543 [31], subclause 2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/ CFB_CLI_COL/TC211501   |  |
| <b>ISDN selection criteria:</b> | The user A and the user C are in network N1. User A is provided with COLP, user C is provided with CLIP.  |  |
| <b>PLMN selection criteria:</b> | The user B is in network N2 and is provided with CFB-UDUB ("calling user is notified of call diversion" = <b>Yes</b> ). (Note 2)  |  |
| <b>Test purpose:</b>            | <p>Ensure that when user A calls busy user B, the call is forwarded to user C.</p> <p>User A is notified of call diversion and the presentation of the diverted-to number is allowed accordance with the COLR supplementary service of the diverted-to user.</p> <p>User C can receive the <b>Redirecting number</b> IE giving the reason for call diversion with the presentation indicator set to "presentation allowed".</p>   |  |
| <b>ISDN parameter values:</b>   | <p><b>A:</b> ! BC=speech;</p> <p><b>C:</b> ? BC=speech;</p>   |  |
| <b>PLMN parameter values:</b>   | CFB-UDUB active   |  |
| <b>Comments:</b>                | <p>User A is notified of call diversion with a Notification indicator IE contained in a NOTIFY or CALL PROCEEDING (state N01), ALERTING, PROGRESS, CONNECT, INFORMATION or NOTIFY (state N03), PROGRESS, CONNECT, INFORMATION or NOTIFY (state N04) message.</p> <p>The presentation of the diverted-to number is allowed accordance with the COLR supplementary service of the diverted-to user. The <b>Redirection number IE</b> with the presentation indicator can be contained in the ALERTING, CONNECT, NOTIFY, INFORMATION or PROGRESS(state N03), CONNECT, NOTIFY, INFORMATION or PROGRESS (state N04) message.</p> <p>User C can receive a SETUP message containing one <b>Redirecting number</b> IE giving the reason for call diversion with the presentation indicator set to "presentation allowed"</p> <p>EDITORS NOTE 2: Stage 1, 2 and 3 descriptions of the call forwarding Supplementary_services are not in line with the pr ETS 300 646-1, item 6.1.1.10 ETS 300 646-1, item 6.1.1.10 (MSC acts like a diverting exchange according to ETS 300 356-15)</p> <p>The served mobile subscriber has not the ability to decide if the indication that the incoming call is a forwarded call is released to the diverted-to user.</p> <p>The setting of the <u>redirecting number</u> to the forwarded-to subscriber in the ISUP signalling of GSM operators has to be considered as an implementation option.</p> |  |

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| 211502                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15],<br>subclause 9.2.2,<br>subclause 9.2.5  | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 1<br><br>ETS 300 543 [31], subclause 1 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/CFB_CLI_COL/TC211502  |  |
| <b>ISDN selection criteria:</b> | The user A and the user C are in network N1. User A is provided with COLP, user C is provided with COLR and CLIP.   |  |
| <b>PLMN selection criteria:</b> | The user B is in network N2 provided with CFB-UDUB ("calling user is notified of call diversion" = <b>Yes</b> ). (Note 2)   |  |
| <b>Test purpose:</b>            | <p>Ensure that when user A calls user B, the call is forwarded to user C.</p> <p>User A is notified of call diversion and the presentation of the diverted-to number is <b>not</b> allowed accordance with the COLR supplementary service of the diverted-to user.</p> <p>User C can receive the <b>Redirecting number</b> IE giving the reason for call diversion with the presentation indicator set to "presentation allowed".</p>   |  |
| <b>ISDN parameter values:</b>   | <p>A: ! BC=speech;</p> <p>C: ? BC=speech;</p>   |  |
| <b>PLMN parameter values:</b>   | CFB-UDUB active   |  |
| <b>Comments:</b>                | <p>User A is notified of call diversion with a Notification indicator IE contained in a NOTIFY or CALL PROCEEDING (state N01), ALERTING, PROGRESS, CONNECT, INFORMATION or NOTIFY (state N03), PROGRESS, CONNECT, INFORMATION or NOTIFY (state N04) message.</p> <p>The presentation of the diverted-to number is <b>not</b> allowed accordance with the COLR supplementary service of the diverted-to user.</p> <p>The <b>Redirection number IE</b> with the numbering identification field and the type of number field set to "unknown", without a number digits field and the presentation indicator either set to "presentation restricted" can be included in the ALERTING, CONNECT, NOTIFY or INFORMATION (state N03), CONNECT, NOTIFY or INFORMATION (state N04) message.</p> <p>User C can receive a SETUP message containing one <b>Redirecting number</b> IE giving the reason for call diversion with the presentation indicator set to "presentation allowed".</p> <p>EDITORS NOTE 2: Stage 1, 2 and 3 descriptions of the call forwarding Supplementary_services are not in line with the pr ETS 300 646-1, item 6.1.1.10 ETS 300 646-1, item 6.1.1.10 (MSC acts like a diverting exchange according to ETS 300 356-15).</p> <p>The served mobile subscriber has not the ability to decide if the indication that the incoming call is a forwarded call is released to the diverted-to user.</p> <p>The setting of the <u>redirecting number</u> to the forwarded-to subscriber in the ISUP signalling of GSM operators has to be considered as an implementation option.</p> |  |

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| 211503                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15],<br>subclause 9.2.2,<br>subclause 9.2.4.3,<br>subclause 9.2.5   | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 2<br>ETS 300 543 [31], subclause 2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/CFB_CLI_COL/TC211503   |  |
| <b>ISDN selection criteria:</b> | The user A and the user C are in network N1. User A is provided with COLP, user C is provided with CLIP.   |  |
| <b>PLMN selection criteria:</b> | The user B is in network N2 and is provided with CFB-UDUB ("calling user is notified of call diversion" = <b>No</b> ) and <b>CLIR</b> . (Note 2)   |  |
| <b>Test purpose:</b>            | <p>Ensure that when user A calls busy user B, the call is forwarded to user C.</p> <p>User A is not notified of call diversion and not informed of the diverted-to number.</p> <p>User C can receive the <i>Redirecting number</i> IE giving the reason for call diversion with the presentation indicator set to "presentation allowed".</p>  |  |
| <b>ISDN parameter values:</b>   | <p><b>A:</b> ! BC=speech;</p> <p><b>C:</b> ? BC=speech;</p>  |  |
| <b>PLMN parameter values:</b>   | CFB-UDUB active  |  |
| <b>Comments:</b>                | <p>The <b>Redirection number IE</b> shall not be included in the ALERTING, CONNECT, NOTIFY or INFORMATION (state N03), CONNECT, NOTIFY or INFORMATION (state N04) message.</p> <p>User C can receive a SETUP message containing one <i>Redirecting number</i> IE giving the reason for call diversion with the presentation indicator set to "presentation restricted".</p> <p>EDITORS NOTE 2: Stage 1, 2 and 3 descriptions of the call forwarding Supplementary_services are not in line with the pr ETS 300 646-1, item 6.1.1.10 (MSC acts like a diverting exchange according to ETS 300 356-15).</p> <p>The served mobile subscriber has not the ability to decide if the indication that the incoming call is a forwarded call is released to the diverted-to user.</p> <p>The setting of the <u>redirecting number</u> to the forwarded-to subscriber in the ISUP signalling of GSM operators has to be considered as an implementation option.</p> |  |

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| 211504                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15],<br>subclause 9.2.2,<br>subclause 9.2.4.3,<br>subclause 9.2.5   | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 2<br>ETS 300 543 [31], subclause 2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/CFB_CLI_COL/TC211504   |  |
| <b>ISDN selection criteria:</b> | The user A and the user C are in network N1. User A is provided with COLP, user C is provided with CLIP.   |  |
| <b>PLMN selection criteria:</b> | The user B is in network N2 and is provided with CFB-NDUB ("calling user is notified of call diversion" = <b>Yes</b> ; "notification to forwarding subscriber" = <b>Yes</b> ).<br>(Note 2)   |  |
| <b>Test purpose:</b>            | <p>Ensure that when user A calls busy user B, the call is forwarded to user C.</p> <p>User <b>A</b> is notified of call diversion and the presentation of the diverted-to number is allowed accordance with the COLR supplementary service of the diverted-to user.</p> <p>User <b>B</b> is notified of call diversion.</p> <p>User <b>C</b> can receive the <i>Redirecting number</i> IE giving the reason for call diversion with the presentation indicator set to "presentation allowed".</p>  |  |
| <b>ISDN parameter values:</b>   | <p><b>A:</b> ! BC=speech;</p> <p><b>C:</b> ? BC=speech;</p>  |  |
| <b>PLMN parameter values:</b>   | CFB-NDUB active  |  |
| <b>Comments:</b>                | <p>User <b>A</b> is notified of call diversion with a Notification indicator IE contained a NOTIFY or CALL PROCEEDING (state N01), ALERTING, PROGRESS, CONNECT, INFORMATION or NOTIFY (state N03), PROGRESS, CONNECT, INFORMATION or NOTIFY (state N04) message.</p> <p>The presentation of the diverted-to number is allowed accordance with the COLR supplementary service of the diverted-to user. The <b>Redirection number IE</b> with the presentation indicator can be contained in the ALERTING, CONNECT, NOTIFY, INFORMATION or PROGRESS(state N03), CONNECT, NOTIFY, INFORMATION or PROGRESS (state N04) message.</p> <p>User <b>C</b> can receive a SETUP message containing one <i>Redirecting number</i> IE giving the reason for call diversion with the presentation indicator set to "presentation allowed".</p> <p>User <b>B</b> is notified with a FACILITY (Invoke = NotifySS [CFB, SS-Notification ]) message of call diversion.</p> <p>EDITORS NOTE 2: Stage 1, 2 and 3 descriptions of the call forwarding Supplementary_services are not in line with the pr ETS 300 646-1, item 6.1.1.10 ETS 300 646-1, item 6.1.1.10 (MSC acts like a diverting exchange according to ETS 300 356-15).</p> <p>The served mobile subscriber has not the ability to decide if the indication that the incoming call is a forwarded call is released to the diverted-to user.</p> <p>The setting of the <u>redirecting number</u> to the forwarded-to subscriber in the ISUP signalling of GSM operators has to be considered as an implementation option.</p> |  |

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| 211505                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15],<br>subclause 9.2.2,<br>subclause 9.2.5   | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 1<br><br>ETS 300 543 [31], subclause 1 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/CFB_CLI_COL/TC211505   |  |
| <b>ISDN selection criteria:</b> | The user A and the user C are in network N1. User A is provided with CLIR and COLP, user C is provided with COLR and CLIP.   |  |
| <b>PLMN selection criteria:</b> | The user B is in network N2 provided with CFB-NDUB ("calling user is notified of call diversion" = <b>Yes</b> , "notification to forwarding subscriber" = <b>Yes</b> ). (Note 2)   |  |
| <b>Test purpose:</b>            | <p>Ensure that when user A calls user B, the call is forwarded to user C.</p> <p>User <b>A</b> is notified of call diversion the presentation of the diverted-to number is <b>not</b> allowed accordance with the COLR supplementary service of the diverted-to user.</p> <p>User C can receive the <b>Redirecting number</b> IE giving the reason for call diversion with the presentation indicator set to "presentation allowed".</p> <p>User <b>B</b> is notified of call diversion.</p>   |  |
| <b>ISDN parameter values:</b>   | <p><b>A:</b> ! BC=speech;</p> <p><b>C:</b> ? BC=speech;</p>  |  |
| <b>PLMN parameter values:</b>   | CFB-NDUB active  |  |
| <b>Comments:</b>                | <p>User <b>A</b> is notified of call diversion with a Notification indicator IE contained in a NOTIFY or CALL PROCEEDING (state N01), ALERTING, PROGRESS, CONNECT, INFORMATION or NOTIFY (state N03), PROGRESS, CONNECT, INFORMATION or NOTIFY (state N04) message.</p> <p>The presentation of the diverted-to number is <b>not</b> allowed accordance with the COLR supplementary service of the diverted-to user.</p> <p>The <b>Redirection number IE</b> with the numbering identification field and the type of number field set to "unknown", without a number digits field and the presentation indicator either set to "presentation restricted" can be included in the ALERTING, CONNECT, NOTIFY or INFORMATION (state N03), CONNECT, NOTIFY or INFORMATION (state N04) message.</p> <p>User C can receive a SETUP message containing one <b>Redirecting number</b> IE giving the reason for call diversion with the presentation indicator set to "presentation allowed".</p> <p>User <b>B</b> is notified with a FACILITY (Invoke = NotifySS [CFB, SS-Notification ]) message of call diversion.</p> <p>EDITORS NOTE 2: Stage 1, 2 and 3 descriptions of the call forwarding Supplementary_services are not in line with the pr ETS 300 646-1, item 6.1.1.10 ETS 300 646-1, item 6.1.1.10 (MSC acts like a diverting exchange according to ETS 300 356-15).</p> <p>The served mobile subscriber has not the ability to decide if the indication that the incoming call is a forwarded call is released to the diverted-to user.</p> <p>The setting of the <u>redirecting number</u> to the forwarded-to subscriber in the ISUP signalling of GSM operators has to be considered as an implementation option.</p> |  |

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| 211506                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15],<br>subclause 9.2.2,<br>subclause 9.2.4.3,<br>subclause 9.2.5   | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 2<br><br>ETS 300 543 [31], subclause 2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/CFB_CLI_COL/TC211506   |  |
| <b>ISDN selection criteria:</b> | The user A and the user C are in network N1. User A is provided with COLP, user C is provided with CLIP.   |  |
| <b>PLMN selection criteria:</b> | The user B is in network N2 and is provided with CFB-NDUB ("calling user is notified of call diversion" = <b>No</b> ;"notification to forwarding subscriber" = <b>No</b> ) and <b>CLIR</b> . (Note 2)  |  |
| <b>Test purpose:</b>            | <p>Ensure that when user A calls busy user B, the call is forwarded to user C.</p> <p>User <b>A</b> is not notified of call diversion and not informed of the diverted-to number.</p> <p>User <b>C</b> can receive the <i>Redirecting number</i> IE with the presentation indicator set to "presentation restricted".</p> <p>User <b>B</b> is not notified of call diversion.</p>  |  |
| <b>ISDN parameter values:</b>   | <p><b>A:</b> ! BC=speech;</p> <p><b>C:</b> ? BC=speech;</p>  |  |
| <b>PLMN parameter values:</b>   | CFB-NDUB active  |  |
| <b>Comments:</b>                | <p>The <b>Redirection number IE</b> shall not be included in the ALERTING, CONNECT, NOTIFY or INFORMATION (state N03), CONNECT, NOTIFY or INFORMATION (state N04) message.</p> <p>User <b>C</b> can receive a SETUP message containing one <i>Redirecting number</i> IE giving the reason for call diversion with the presentation indicator set to "presentation restricted".</p> <p>EDITORS NOTE 2: Stage 1, 2 and 3 descriptions of the call forwarding Supplementary_services are not in line with the pr ETS 300 646-1, item 6.1.1.10 (MSC acts like a diverting exchange according to ETS 300 356-15)</p> <p>The served mobile subscriber has not the ability to decide if the indication that the incoming call is a forwarded call is released to the diverted-to user.</p> <p>The setting of the <u>redirecting number</u> to the forwarded-to subscriber in the ISUP signalling of GSM operators has to be considered as an implementation option.</p> |  |

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| 211601                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1], subclause 9.2.2,<br>subclause 9.2.4.4,<br>subclause 9.2.5   | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 3<br>ETS 300 543 [31], subclause 3 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/CFNRy_CLI_COL/TC211601  |  |
| <b>ISDN selection criteria:</b> | The user A and the user C are in network N1. User A is provided with COLP, user C is provided with CLIP.  |  |
| <b>PLMN selection criteria:</b> | The user B is in network N2 and is provided with CFNRy ("calling user is notified of call diversion" = <b>Yes</b> , "notification to forwarding subscriber" = <b>Yes</b> ). (Note 2)  |  |
| <b>Test purpose:</b>            | <p>Ensure that when user A calls user B, if unanswered, the call is forwarded to user C.</p> <p>User <b>A</b> is notified of call diversion. The presentation of the diverted-to number is allowed accordance with the COLR supplementary service of the diverted-to user.</p> <p>User <b>C can receive</b> the <i>Redirecting number</i> IE giving the reason for call diversion with the presentation indicator set to "presentation allowed".</p> <p>User <b>B</b> is notified of call diversion.</p>  |  |
| <b>ISDN parameter values:</b>   | <p><b>A:</b> ! BC=speech;</p> <p><b>C:</b> ? BC=speech;</p>   |  |
| <b>PLMN parameter values:</b>   | CFNRy active  |  |
| <b>Comments:</b>                | <p>User <b>A</b> is notified of call diversion with a Notification indicator IE contained a NOTIFY or CALL PROCEEDING (state N01), ALERTING, PROGRESS, CONNECT, INFORMATION or NOTIFY (state N03), PROGRESS, CONNECT, INFORMATION or NOTIFY (state N04) message. The presentation of the diverted-to number is allowed accordance with the COLR supplementary service of the diverted-to user. The <b>Redirection number</b> IE with the presentation indicator can be contained in the ALERTING, CONNECT, NOTIFY, INFORMATION or PROGRESS (state N03), CONNECT, NOTIFY, INFORMATION or PROGRESS (state N04) message.</p> <p>User <b>C can receive</b> a SETUP message containing one <i>Redirecting number</i> IE giving the reason for call diversion with the presentation indicator set to "presentation allowed".</p> <p>User <b>B</b> is notified with a NOTIFY (Invoke = NotifySS [CFNRy, SS-Notification ]) message of call diversion.</p> <p>EDITORS NOTE 2: Stage 1, 2 and 3 descriptions of the call forwarding Supplementary_services are not in line with the pr ETS 300 646-1, item 6.1.1.10 (MSC acts like a diverting exchange according to ETS 300 356-15).</p> <p>The served mobile subscriber has not the ability to decide if the indication that the incoming call is a forwarded call is released to the diverted-to user.</p> <p>The setting of the <u>redirecting number</u> to the forwarded-to subscriber in the ISUP signalling of GSM operators has to be considered as an implementation option.</p> |  |

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| 211602                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15],<br>subclause 9.2.2,<br>subclause 9.2.5   | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 1<br><br>ETS 300 543 [31], subclause 1 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/CFNRy_CLI_COL/TC211602   |  |
| <b>ISDN selection criteria:</b> | The user A and the user C are in network N1. User A is provided with CLIR and COLP, user C is provided with COLR and CLIP.   |  |
| <b>PLMN selection criteria:</b> | The user B is in network N2 provided with CFNRy ("calling user is notified of call diversion" = <b>Yes</b> , "notification to forwarding subscriber" = <b>Yes</b> ). (Note 2)  |  |
| <b>Test purpose:</b>            | <p>Ensure that when user A calls user B, the call is forwarded to user C.</p> <p>User <b>A</b> is notified of call diversion. The presentation of the diverted-to number is <b>not</b> allowed accordance with the COLR supplementary service of the diverted-to user.</p> <p>User <b>C</b> <b>can receive</b> the <b>Redirecting number IE</b> giving the reason for call diversion with the presentation indicator set to "presentation allowed".</p> <p>User <b>B</b> is notified of call diversion.</p>  |  |
| <b>ISDN parameter values:</b>   | <b>A:</b> ! BC=speech;<br><br><b>C:</b> ? BC=speech;   |  |
| <b>PLMN parameter values:</b>   | CFNRy active   |  |
| <b>Comments:</b>                | <p>User <b>A</b> is notified of call diversion with a Notification indicator IE contained in a NOTIFY or CALL PROCEEDING (state N01), ALERTING, PROGRESS, CONNECT, INFORMATION or NOTIFY (state N03), PROGRESS, CONNECT, INFORMATION or NOTIFY (state N04) message.</p> <p>The presentation of the diverted-to number is <b>not</b> allowed accordance with the COLR supplementary service of the diverted-to user.</p> <p>The <b>Redirection number IE</b> with the numbering identification field and the type of number field set to "unknown", without a number digits field and the presentation indicator either set to "presentation restricted" can be included in the ALERTING, CONNECT, NOTIFY or INFORMATION (state N03), CONNECT, NOTIFY or INFORMATION (state N04) message.</p> <p>User <b>C</b> <b>can receive</b> a SETUP message containing one <b>Redirecting number IE</b> giving the reason for call diversion with the presentation indicator set to "presentation allowed".</p> <p>User <b>B</b> is notified with a FACILITY (Invoke = NotifySS [CFNRy, SS-Notification ]) message of call diversion.</p> <p>EDITORS NOTE 2: Stage 1, 2 and 3 descriptions of the call forwarding Supplementary_services are not in line with the pr ETS 300 646-1, item 6.1.1.10 ETS 300 646-1, item 6.1.1.10 (MSC acts like a diverting exchange according to ETS 300 356-15).</p> <p>The served mobile subscriber has not the ability to decide if the indication that the incoming call is a forwarded call is released to the diverted-to user.</p> <p>The setting of the <u>redirecting number</u> to the forwarded-to subscriber in the ISUP signalling of GSM operators has to be considered as an implementation option.</p> |  |



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| 211603                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15],<br>subclause 9.2.2,<br>subclause 9.2.4.4,<br>subclause 9.2.5   | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 3<br>ETS 300 543 [31], subclause 3 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/CFNRy_CLI_COL/TC211603   |  |
| <b>ISDN selection criteria:</b> | The user A and the user C are in network N1. User A is provided with COLP, user C is provided with CLIP.   |  |
| <b>PLMN selection criteria:</b> | The user B is in network N2 and is provided with CFNRy ("calling user is notified of call diversion" = <b>No</b> "notification to forwarding subscriber" = <b>No</b> ) and <b>CLIR</b> .<br>(Note 2)   |  |
| <b>Test purpose:</b>            | <p>Ensure that when user A calls user B, if unanswered, the call is forwarded to user C.</p> <p>User <b>A</b> is not notified of call diversion and not informed of the diverted-to number.</p> <p>User <b>C</b> can receive the <i>Redirecting number</i> IE giving the reason for call diversion with the presentation indicator set to "presentation allowed".</p> <p>User <b>B</b> is not notified of call diversion.</p>  |  |
| <b>ISDN parameter values:</b>   | <p><b>A:</b> ! BC=speech;</p> <p><b>C:</b> ? BC=speech;</p>  |  |
| <b>PLMN parameter values:</b>   | CFNRy active   |  |
| <b>Comments:</b>                | <p>User <b>A</b> is not notified of call diversion and not informed of the diverted-to number. The <b>Redirection number IE</b> shall not be included in the ALERTING, CONNECT, NOTIFY or INFORMATION (state N03), CONNECT, NOTIFY or INFORMATION (state N04) message.</p> <p>User <b>C</b> can receive a SETUP message containing one <i>Redirecting number</i> IE giving the reason for call diversion with the presentation indicator set to "presentation restricted".</p> <p>User <b>B</b> is not notified of call diversion.</p> <p>EDITORS NOTE 2: Stage 1, 2 and 3 descriptions of the call forwarding Supplementary_services are not in line with the pr ETS 300 646-1, item 6.1.1.10 (MSC acts like a diverting exchange according to ETS 300 356-15)</p> <p>The served mobile subscriber has not the ability to decide if the indication that the incoming call is a forwarded call is released to the diverted-to user.</p> <p>The setting of the <u>redirecting number</u> to the forwarded-to subscriber in the ISUP signalling of GSM operators has to be considered as an implementation option.</p> |  |

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| 211701                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15], subclause 9.2.2,<br>subclause 9.2.4.4,<br>subclause 9.2.5  | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 3<br>ETS 300 543 [31], subclause 3 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/SpeechCFNRc_CLI_COL/TC211701  |  |
| <b>ISDN selection criteria:</b> | The user A and the user C are in network N1. User A is provided with COLP, user C is provided with CLIP.   |  |
| <b>PLMN selection criteria:</b> | The user B is in network N2 and is provided with CFNRc ("calling user is notified of call diversion" = <b>Yes</b> ). (Note 2)  |  |
| <b>Test purpose:</b>            | <p>Ensure that when user A calls user B, if detached, the call is forwarded to user C.</p> <p>User A is notified of call diversion. The presentation of the diverted-to number is allowed accordance with the COLR supplementary service of the diverted-to user.</p> <p>User C can receive the <b>Redirecting number IE</b> giving the reason for call diversion with the presentation indicator set to "presentation allowed".</p>   |  |
| <b>ISDN parameter values:</b>   | <p>A: ! BC=speech;</p> <p>C: ? BC=speech;</p>  |  |
| <b>PLMN parameter values:</b>   | CFNRc active, the user is detached   |  |
| <b>Comments:</b>                | <p>User A is notified of call diversion with a Notification indicator IE contained a NOTIFY or CALL PROCEEDING (state N01), ALERTING, PROGRESS, CONNECT, INFORMATION or NOTIFY (state N03), PROGRESS, CONNECT, INFORMATION or NOTIFY (state N04) message.</p> <p>The presentation of the diverted-to number is allowed accordance with the COLR supplementary service of the diverted-to user. The <b>Redirection number IE</b> with the presentation indicator can be contained in the ALERTING, CONNECT, NOTIFY, INFORMATION or PROGRESS (state N03), CONNECT, NOTIFY, INFORMATION or PROGRESS (state N04) message.</p> <p>User C can receive a SETUP message containing one <b>Redirecting number IE</b> giving the reason for call diversion with the presentation indicator set to "presentation allowed".</p> <p><i>EDITORS NOTE 2: Stage 1, 2 and 3 descriptions of the call forwarding Supplementary_services are not in line with the pr ETS 300 646-1, item 6.1.1.10 (MSC acts like a diverting exchange according to ETS 300 356-15). The served mobile subscriber has not the ability to decide if the indication that the incoming call is a forwarded call is released to the diverted-to user.</i></p> <p>The setting of the <u>redirecting number</u> to the forwarded-to subscriber in the ISUP signalling of GSM operators has to be considered as an implementation option.</p> |  |

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| 211702                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15],<br>subclause 9.2.2,<br>subclause 9.2.5   | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 1<br><br>ETS 300 543 [31], subclause 1 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/CFNRc_CLI_COL/TC211702   |  |
| <b>ISDN selection criteria:</b> | The user A and the user C are in network N1. User A is provided with COLP, user C is provided with COLR and CLIP.  |  |
| <b>PLMN selection criteria:</b> | The user B is in network N2 provided with CFNRc ("calling user is notified of call diversion" = <b>Yes</b> ). (Note 2)   |  |
| <b>Test purpose:</b>            | <p>Ensure that when user A calls user B, if detached, the call is forwarded to user C.</p> <p>User A is notified of call diversion. The presentation of the diverted-to number is <b>not</b> allowed accordance with the COLR supplementary service of the diverted-to user.</p> <p>User C <b>can receive</b> the <b>Redirecting number IE</b> giving the reason for call diversion with the presentation indicator set to "presentation allowed".</p>   |  |
| <b>ISDN parameter values:</b>   | <p>A: ! BC=speech;</p> <p>C: ? BC=speech;</p>  |  |
| <b>PLMN parameter values:</b>   | CFNRc active, the user is detached   |  |
| <b>Comments:</b>                | <p>User A is notified of call diversion with a Notification indicator IE contained in a NOTIFY or CALL PROCEEDING (state N01), ALERTING, PROGRESS, CONNECT, INFORMATION or NOTIFY (state N03), PROGRESS, CONNECT, INFORMATION or NOTIFY (state N04) message.</p> <p>The presentation of the diverted-to number is <b>not</b> allowed accordance with the COLR supplementary service of the diverted-to user.</p> <p>The <b>Redirection number IE</b> with the numbering identification field and the type of number field set to "unknown", without a number digits field and the presentation indicator either set to "presentation restricted" can be included in the ALERTING, CONNECT, NOTIFY or INFORMATION (state N03), CONNECT, NOTIFY or INFORMATION (state N04) message.</p> <p>User C can receive a SETUP message containing one <b>Redirecting number IE</b> giving the reason for call diversion with the presentation indicator set to "presentation allowed"</p> <p>EDITORS NOTE 2: Stage 1, 2 and 3 descriptions of the call forwarding Supplementary_services are not in line with the pr ETS 300 646-1, item 6.1.1.10 ETS 300 646-1, item 6.1.1.10 (MSC acts like a diverting exchange according to ETS 300 356-15).</p> <p>The served mobile subscriber has not the ability to decide if the indication that the incoming call is a forwarded call is released to the diverted-to user.</p> <p>The setting of the <u>redirecting number</u> to the forwarded-to subscriber in the ISUP signalling of GSM operators has to be considered as an implementation option.</p> |  |

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| 211703                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15],<br>subclause 9.2.2,<br>subclause 9.2.4.4,<br>subclause 9.2.5   | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 3<br><br>ETS 300 543 [31], subclause 3 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/CFNRc_CLI_COL/TC211703   |  |
| <b>ISDN selection criteria:</b> | The user A and the user C are in network N1. User A is provided with COLP, user C is provided with CLIP.   |  |
| <b>PLMN selection criteria:</b> | The user B is in network N2 and is provided with CFNRc ("calling user is notified of call diversion" = <b>No</b> ) and <b>CLIR</b> .(Note 2)   |  |
| <b>Test purpose:</b>            | <p>Ensure that when user A calls user B, if detached the call is forwarded to user C.</p> <p>User A is not notified of call diversion and not informed of the diverted-to number.</p> <p>User C can receive the <i>Redirecting number</i> IE giving the reason for call diversion with the presentation indicator set to "presentation restricted".</p>  |  |
| <b>ISDN parameter values:</b>   | <p>A: ! BC=speech;</p> <p>C: ? BC=speech;</p>  |  |
| <b>PLMN parameter values:</b>   | CFNRc active, the user is detached   |  |
| <b>Comments:</b>                | <p>User A is not notified of call diversion and not informed of the diverted-to number. The <b>Redirection number IE</b> shall not be included in the ALERTING, CONNECT, NOTIFY or INFORMATION (state N03), CONNECT, NOTIFY or INFORMATION (state N04) message.</p> <p>User C can receive a SETUP message containing one <i>Redirecting number</i> IE giving the reason for call diversion with the presentation indicator set to "presentation restricted".</p> <p>EDITORS NOTE 2: Stage 1, 2 and 3 descriptions of the call forwarding Supplementary_services are not in line with the pr ETS 300 646-1, item 6.1.1.10 (MSC acts like a diverting exchange according to ETS 300 356-15). The served mobile subscriber has not the ability to decide if the indication that the incoming call is a forwarded call is released to the diverted-to user.</p> <p>The setting of the <u>redirecting number</u> to the forwarded-to subscriber in the ISUP signalling of GSM operators has to be considered as an implementation option.</p> |  |

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| 211801                          | <b>ISDN ref. to:</b><br>ETS 300 138-1 [10]   | <b>PLMN ref. to:</b><br>ETS 300 518 [30] |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/CUG_CFU/TC211801   |  |
| <b>ISDN selection criteria:</b> | CUG  |  |
| <b>PLMN selection criteria:</b> | CUG, CFU   |  |
| <b>Test purpose:</b>            | ISDN user A, ISDN user C and PLMN user B belong to the same CUG. No other CUG parameter are allocated to any of the users. B has an active call forwarding to C. Ensure that a call establishment is successful. |  |
| <b>ISDN parameter values:</b>   | BC=speech  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |  |
| <b>Comments:</b>                | On PLMN side CUG SS according to the Stage 1 description.  |  |

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| 211802                          | <b>ISDN ref. to:</b><br>ETS 300 138-1 [10]  | <b>PLMN ref. to:</b><br>ETS 300 518 [30] |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/CUG_CFU/TC211802  |  |
| <b>ISDN selection criteria:</b> | CUG   |  |
| <b>PLMN selection criteria:</b> | CUG, CFU  |  |
| <b>Test purpose:</b>            | ISDN user A and PLMN user B belong to the same CUG. ISDN user C does not belong to the CUG. No other CUG parameter are allocated to any of the users. B has an active call forwarding to C. Ensure that a call establishment is not successful. The network initiate call clearing to the calling user A with cause value #87 "user not member of CUG". |  |
| <b>ISDN parameter values:</b>   | BC=speech   |  |
| <b>PLMN parameter values:</b>   |   |  |
| <b>Comments:</b>                | On PLMN side CUG SS according to the Stage 1 description.   |  |

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| 211803                          | <b>ISDN ref. to:</b><br>ETS 300 138-1 [10]  | <b>PLMN ref. to:</b><br>ETS 300 518 [30] |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/CUG_CFU/TC211803  |  |
| <b>ISDN selection criteria:</b> | CUG   |  |
| <b>PLMN selection criteria:</b> | CUG, CFU  |  |
| <b>Test purpose:</b>            | ISDN user A and PLMN user B belong to the same CUG. Additionally B has the CUG parameter OA = "allowed" and an active call forwarding to ISDN user C. C is not member of the CUG. Ensure that a call establishment is not successful. The network initiate call clearing to the calling user A with cause value #87 "user not member of CUG". |  |
| <b>ISDN parameter values:</b>   | BC=speech   |  |
| <b>PLMN parameter values:</b>   |   |  |
| <b>Comments:</b>                | On PLMN side CUG SS according to the Stage 1 description.   |  |

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| 211804                          | <b>ISDN ref. to:</b><br>ETS 300 138-1 [10]  | <b>PLMN ref. to:</b><br>ETS 300 518 [30] |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/CUG_CFU/TC211804  |  |
| <b>ISDN selection criteria:</b> | CUG   |  |
| <b>PLMN selection criteria:</b> | CUG, CFU  |  |
| <b>Test purpose:</b>            | ISDN user A and PLMN user B belong to the same CUG. Additionally A has the CUG parameter OA = "allowed". User B has an active call forwarding to ISDN user C, which is not member of the CUG. Ensure that a call establishment is not successful. The network initiate call clearing to the calling user A with cause value #87 "user not member of CUG". |  |
| <b>ISDN parameter values:</b>   | BC=speech   |  |
| <b>PLMN parameter values:</b>   |   |  |
| <b>Comments:</b>                | On PLMN side CUG SS according to the Stage 1 description.   |  |

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| <b>211805</b>                   | <b>ISDN ref. to:</b><br>ETS 300 138-1 [10]   | <b>PLMN ref. to:</b><br>ETS 300 518 [30] |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/CUG_CFU/TC211805   |  |
| <b>ISDN selection criteria:</b> | CUG  |  |
| <b>PLMN selection criteria:</b> | CUG, CFU   |  |
| <b>Test purpose:</b>            | ISDN user A, PLMN user B and ISDN user C belong to the same CUG. Additionally A has the CUG parameter OA = "allowed". User B has an active call forwarding to ISDN user C. Ensure that a call establishment is successful but the OA indicator is not provided to C. |  |
| <b>ISDN parameter values:</b>   | BC=speech  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |  |
| <b>Comments:</b>                | On PLMN side CUG SS according to the Stage 1 description.  |  |

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| <b>211901</b>                   | <b>ISDN ref. to:</b><br>EN 300 403-1 [1]  | <b>PLMN ref. to:</b><br>ETS 300 515 [29] |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/CFB_CW/TC211901   |  |
| <b>ISDN selection criteria:</b> |   |  |
| <b>PLMN selection criteria:</b> | CW, CFB   |  |
| <b>Test purpose:</b>            | <p>PLMN user B is provided with CW and an active CFB to ISDN user C. Additionally user B has also call diversion notification = Yes.</p> <p>ISDN user A has an active connection to user B. ISDN user D is calling user B. Ensure that user B will be informed about the waiting call (CW) and that the Waiting call is released at the terminating exchange after timer expired.</p> |  |
| <b>ISDN parameter values:</b>   | BC=speech   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |  |
| <b>Comments:</b>                |   |  |

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|---------------------------------|--|--|
| 211902                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1]   | <b>PLMN ref. to:</b><br>ETS 300 515 [29] |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/CFB_CW/TC211902  |  |
| <b>ISDN selection criteria:</b> |  |  |
| <b>PLMN selection criteria:</b> | CW, CFB  |  |
| <b>Test purpose:</b>            | <p>PLMN user B is provided with CW and an active CFB to ISDN user C. Additionally user B has also call diversion notification = No.</p> <p>ISDN user A has an active connection to user B. ISDN user D is calling user B. Ensure that user B will be informed about the waiting call (CW) and that the Waiting call is released at the terminating exchange after timer expired.</p> |  |
| <b>ISDN parameter values:</b>   | BC=speech  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |  |
| <b>Comments:</b>                |  |  |

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|---------------------------------|--|--|
| 211903                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1]   | <b>PLMN ref. to:</b><br>ETS 300 515 [29] |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/CFB_CW/TC211903  |  |
| <b>ISDN selection criteria:</b> |  |  |
| <b>PLMN selection criteria:</b> | CW, CFB  |  |
| <b>Test purpose:</b>            | <p>PLMN user B is provided with CW and an active CFB to ISDN user C. Additionally user B has also call diversion notification = Yes.</p> <p>ISDN user A has an active connection to user B. PLMN user B is involved in an active call with ISDN user D and in the same time he has a Waiting incoming call from ISDN user E. Ensure that user B will be informed about the waiting call (CW), and (NDUB) the call will be forwarded to C. PLMN user B and the ISDN calling user A shall receive a call diversion notification.</p> |  |
| <b>ISDN parameter values:</b>   | BC=speech  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |  |
| <b>Comments:</b>                |  |  |



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| 211904                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1]  | <b>PLMN ref. to:</b><br>ETS 300 515 [29] |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/CFB_CW/TC211904   |  |
| <b>ISDN selection criteria:</b> |   |  |
| <b>PLMN selection criteria:</b> | CW, CFB   |  |
| <b>Test purpose:</b>            | <p>PLMN user B is provided with CW and an active CFB to ISDN user C. Additionally user B has also call diversion notification = No.</p> <p>ISDN user A has an active connection to user B. PLMN user B is involved in an active call with ISDN user D and in the same time he has a Waiting incoming call from ISDN user E. Ensure that user B will be informed about the waiting call (CW), and (NDUB) the call will be forwarded to C. PLMN user B and the ISDN calling user A shall not receive a call diversion notification.</p> |  |
| <b>ISDN parameter values:</b>   | BC=speech   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |  |
| <b>Comments:</b>                |   |  |

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|---------------------------------|---|--|
| 211905                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1]  | <b>PLMN ref. to:</b><br>ETS 300 515 [29] |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/CFB_CW/TC211905   |  |
| <b>ISDN selection criteria:</b> |   |  |
| <b>PLMN selection criteria:</b> | CW, CFB   |  |
| <b>Test purpose:</b>            | <p>PLMN user B is provided with CW and an active CFB to ISDN user C. Additionally user B has also call diversion notification = Yes.</p> <p>ISDN user A has an active connection to user B. ISDN user D is calling user B. Ensure that user B will be informed about the waiting call (CW) and that the Waiting call is forwarded to user C when user B declares his UDUB condition. ISDN calling user A shall receive a call diversion notification while PLMN user B shall not receive a call diversion notification.</p> |  |
| <b>ISDN parameter values:</b>   | BC=speech   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |  |
| <b>Comments:</b>                |   |  |

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| 211906                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1]   | <b>PLMN ref. to:</b><br>ETS 300 515 [29] |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/CFB_CW/TC211906  |  |
| <b>ISDN selection criteria:</b> |  |  |
| <b>PLMN selection criteria:</b> | CW, CFB  |  |
| <b>Test purpose:</b>            | <p>PLMN user B is provided with CW and an active CFB to ISDN user C. Additionally user B has also call diversion notification = No.</p> <p>ISDN user A has an active connection to user B. ISDN user D is calling user B. Ensure that user B will be informed about the waiting call (CW) and that the Waiting call is forwarded to user C when user B declares his UDUB condition. PLMN user B and the ISDN calling user A shall not receive a call diversion notification.</p> |  |
| <b>ISDN parameter values:</b>   | BC=speech  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |  |
| <b>Comments:</b>                |  |  |

## NON-SYMMETRICAL TESTS

|                                 |  |  |
|---------------------------------|--|--|
| 220101                          | <b>ISDN ref. to:</b><br>ETS 300 055-1 [12],<br>subclause 9.2.1<br>EN 300 403-1 [1],<br>subclause 5.6                         | <b>PLMN ref. to:</b><br>ETS 300 646-1 subclause 6.1.1.3<br>ETS 300 557 [35], subclause 10.5.4.20 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/TP/TC220101  |  |
| <b>ISDN selection criteria:</b> | TP   |  |
| <b>PLMN selection criteria:</b> |  |  |
| <b>Test purpose:</b>            | Ensure that the called user is notified of the call suspension and resumption by the calling user (no call identity is used) |  |
| <b>ISDN parameter values:</b>   | BC=speech  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |  |
| <b>Comments:</b>                | The calling user must be a basic access  |  |

|                                 |   |   |
|---------------------------------|---|---|
| 220102                          | <b>ISDN ref. to:</b><br>ETS 300 055-1 [12],<br>subclause 9.2.2<br>EN 300 403-1 [1], subclause<br>5.6.5  | <b>PLMN ref. to:</b><br>ETS 300 646-1 subclause 6.1.1.3 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/TP/TC220102   |   |
| <b>ISDN selection criteria:</b> | TP  |   |
| <b>PLMN selection criteria:</b> |   |   |
| <b>Test purpose:</b>            | Ensure that when the call is suspended, with the expire 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 expire". |   |
| <b>ISDN Parameter values:</b>   | BC=speech   |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |   |
| <b>Comments:</b>                | The calling user must be a basic access   |   |

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|---------------------------------|---|---|
| 220201                          | <b>ISDN ref. to:</b><br>ETS 300 286-1 [13],<br>subclause 9.1.1.2.2<br>EN 300 403-1 [1], subclause 7   | <b>PLMN ref. to:</b><br>ETS 300 646-1 subclause 6.1.1.4 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/UUS1/TC220201   |   |
| <b>ISDN selection criteria:</b> | UUS1e   |   |
| <b>PLMN selection criteria:</b> | UUS is explicit rejected  |   |
| <b>Test purpose:</b>            | The calling (served) user is provided with UUS1 explicit request as preferred (not-essential). Verify that the UUS service 1 explicit can be correctly implicitly rejected in the PLMN. |   |
| <b>ISDN Parameter values:</b>   | BC=speech   |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |   |
| <b>Comments:</b>                |   |   |

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|---------------------------------|---|---|
| 220202                          | <b>ISDN ref. to:</b><br>ETS 300 286-1 [13],<br>subclause 9.1.1.2.2<br>EN 300 403-1 [1], subclause 7   | <b>PLMN ref. to:</b><br>ETS 300 646-1 subclause 6.1.1.4 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/UUS1/TC220202   |   |
| <b>ISDN selection criteria:</b> | UUS1e   |   |
| <b>PLMN selection criteria:</b> | UUS is explicit rejected  |   |
| <b>Test purpose:</b>            | The calling (served) user is provided with UUS1 explicit request as preferred (not-essential). Verify that the UUS 1 is explicitly discarded without disrupting the call establishment. |   |
| <b>ISDN Parameter values:</b>   | BC=speech   |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |   |
| <b>Comments:</b>                |   |   |

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|---------------------------------|---|---|
| 220203                          | <b>ISDN ref. to:</b><br>ETS 300 286-1 [13],<br>subclause 9.1.1.2.2<br>EN 300 403-1 [1], subclause 7   | <b>PLMN ref. to:</b><br>ETS 300 646-1 subclause 6.1.1.4 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/UUS1/TC220203   |   |
| <b>ISDN selection criteria:</b> | UUS1e   |   |
| <b>PLMN selection criteria:</b> |   |   |
| <b>Test purpose:</b>            | The calling (served) user is provided with UUS1 explicit request as required (essential).<br><br>Ensure that after explicit request of UUS1 indicating "required", the destination network rejects the UUS1 request and initiates call clearing to the calling user with cause value #69 "requested facility not implemented" or cause value #29 "facility rejected". |   |
| <b>ISDN Parameter values:</b>   | BC=speech   |   |
| <b>PLMN parameter values:</b>   |   |   |
| <b>Comments:</b>                |   |   |

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| 220204                          | <b>ISDN ref. to:</b><br>ETS 300 286-1 [13],<br>subclause 9.1.1.2.2<br>EN 300 403-1 [1], subclause 7   | <b>PLMN ref. to:</b><br>ETS 300 646-1 subclause 6.1.1.4 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/UUS2/TC220204   |   |
| <b>ISDN selection criteria:</b> | UUS2  |   |
| <b>PLMN selection criteria:</b> | UUS is implicit rejected  |   |
| <b>Test purpose:</b>            | The calling (served) user is provided with UUS2 explicit request as preferred (not-essential). To verify that the UUS2 implicit network rejection can be correctly handled. |   |
| <b>ISDN Parameter values:</b>   | BC=speech   |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |   |
| <b>Comments:</b>                |   |   |

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| 220205                          | <b>ISDN ref. to:</b><br>ETS 300 286-1 [13],<br>subclause 9.1.1.2.2<br>EN 300 403-1 [1], subclause 7   | <b>PLMN ref. to:</b><br>ETS 300 646-1 subclause 6.1.1.4 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/UUS2/TC220205   |   |
| <b>ISDN selection criteria:</b> | UUS2  |   |
| <b>PLMN selection criteria:</b> | UUS is explicit rejected  |   |
| <b>Test purpose:</b>            | The calling (served) user is provided with UUS2 explicit request as preferred (not-essential). Verify that the UUS 2 is explicitly discarded without disrupting the call establishment. |   |
| <b>ISDN Parameter values:</b>   | BC=speech   |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |   |
| <b>Comments:</b>                |   |   |

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| 220206                          | <b>ISDN ref. to:</b><br>ETS 300 286-1 [13],<br>subclause 9.1.1.2.2<br>EN 300 403-1 [1], subclause 7  | <b>PLMN ref. to:</b><br>ETS 300 646-1 subclause 6.1.1.4 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/UUS2/TC220206  |   |
| <b>ISDN selection criteria:</b> | UUS2   |   |
| <b>PLMN selection criteria:</b> | UUS is explicit rejected   |   |
| <b>Test purpose:</b>            | <p>The calling (served) user is provided with UUS2 explicit request as required (essential).</p> <p>Ensure that after explicit request of UUS2 indicating "required", the destination network rejects the UUS2 request and initiates call clearing to the calling user with cause value #69 "requested facility not implemented" or cause value #29 "facility rejected".</p> |   |
| <b>ISDN Parameter values:</b>   | BC=speech  |   |
| <b>PLMN parameter values:</b>   |  |   |
| <b>Comments:</b>                |  |   |

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|---------------------------------|---|---|
| 220207                          | <b>ISDN ref. to:</b><br>ETS 300 286-1 [13],<br>subclause 9.1.1.2.2<br>EN 300 403-1 [1], subclause 7   | <b>PLMN ref. to:</b><br>ETS 300 646-1 subclause 6.1.1.4 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/UUS3/TC220207   |   |
| <b>ISDN selection criteria:</b> | UUS3  |   |
| <b>PLMN selection criteria:</b> | UUS is implicit rejected  |   |
| <b>Test purpose:</b>            | <p>The calling (served) user is provided with UUS3 explicit request as preferred (not-essential), request during call establishment.</p> <p>Verify that the UUS3 implicit network rejection can be correctly handled.</p> |   |
| <b>ISDN Parameter values:</b>   | BC=speech   |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |   |
| <b>Comments:</b>                |   |   |

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|---------------------------------|---|---|
| 220208                          | <b>ISDN ref. to:</b><br>ETS 300 286-1 [13],<br>subclause 9.1.1.2.2<br>EN 300 403-1 [1], subclause 7   | <b>PLMN ref. to:</b><br>ETS 300 646-1 subclause 6.1.1.4 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/UUS3/TC220208   |   |
| <b>ISDN selection criteria:</b> | UUS3  |   |
| <b>PLMN selection criteria:</b> | UUS is explicit rejected  |   |
| <b>Test purpose:</b>            | The calling (served) user is provided with UUS3 explicit request as preferred(not-essential), request during call establishment.<br><br>Verify that the UUS3 is explicitly discarded without disrupting the call establishment. |   |
| <b>ISDN Parameter values:</b>   | BC=speech   |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |   |
| <b>Comments:</b>                |   |   |

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| 220209                          | <b>ISDN ref. to:</b><br>ETS 300 286-1 [13],<br>subclause 9.1.1.2.2<br>EN 300 403-1 [1], subclause 7  | <b>PLMN ref. to:</b><br>ETS 300 646-1 subclause 6.1.1.4 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/UUS3/TC220209  |   |
| <b>ISDN selection criteria:</b> | UUS3   |   |
| <b>PLMN selection criteria:</b> |  |   |
| <b>Test purpose:</b>            | The calling (served) user is provided with UUS3 explicit request as required (essential), request during call establishment.<br><br>Ensure that after explicit request of UUS3 indicating "required", the destination network rejects the UUS3 request and initiates call clearing to the calling user with cause value #69 "requested facility not implemented" or cause value #29 "facility rejected". |   |
| <b>ISDN Parameter values:</b>   | BC=speech  |   |
| <b>PLMN parameter values:</b>   |  |   |
| <b>Comments:</b>                |  |   |

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| 220301                          | <b>ISDN ref. to:</b><br>ETS 300 185-1 [14],<br>subclause 9.2.2, ANNEX A,<br>Figure A.1   | <b>PLMN ref. to:</b><br>ETS 300 646-1, subclause 6.1.1.8 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/CONF/TC220301  |  |
| <b>ISDN selection criteria:</b> | CONF   |  |
| <b>PLMN selection criteria:</b> |  |  |
| <b>Test purpose:</b>            | Ensure that user A can establish conference call from the Null call state.   |  |
| <b>ISDN parameter values:</b>   | BC=speech  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |  |
| <b>Comments:</b>                | <p>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].</p> <p>After the reception off the CONNECT message, user A is initiating the call hold procedure, the call is an Active-Held connection.</p> <p>User A sends a SETUP message to user B. 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 <b>AddCONF</b> invoke component.</p> <p>The network shall send a DISCONNECT message (with CRy) to user A with a Facility IE with an <b>AddCONF</b> return result component.</p> <p>User A sends RELEASE for CRy. The network response with RELEASE COMPLETE.</p> <p>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").</p> <p><b>EDITORS NOTE 4:</b> The standard ETS 300 646-1, subclause 6.1.1.8 is not in line with the Recommendation Q.734.1. The PLMN does not support the sending of notifications to the remote users.</p> |  |



|                                 |   |  |
|---------------------------------|---|--|
| 220302                          | <b>ISDN ref. to:</b><br>ETS 300 185-1 [14],<br>subclause 9.2.2, ANNEX A,<br>Figure A.2  | <b>PLMN ref. to:</b><br>ETS 300 646-1, subclause 6.1.1.8 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/CONF/TC220302   |  |
| <b>ISDN selection criteria:</b> | CONF  |  |
| <b>PLMN selection criteria:</b> |   |  |
| <b>Test purpose:</b>            | Ensure that user A can establish a conference from the Active call state.   |  |
| <b>ISDN parameter values:</b>   | BC=speech   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |  |
| <b>Comments:</b>                | <p>The user A is in network N1 and is provided with CONF. The user B is in network N2.</p> <p>User A calls user B (with CRx). After the call establishment</p> <p>[in the (Active, Idle) state] user A sends a FACILITY message including a Facility IE which shall contain a <b>BeginCONF</b> invoke component indicating the call reference of the call to be added (CRx).</p> <p>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.</p> <p>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").</p> <p><b>EDITORS NOTE 4:</b> The standard ETS 300 646-1, subclause 6.1.1.8 is not in line with the Recommendation Q.734.1. The PLMN does not support the sending of notifications to the remote users.</p> |  |

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| 220303                          | <b>ISDN ref. to:</b><br>ETS 300 185-1 [14],<br>subclause 9.2.2, ANNEX A,<br>Figure A.3   | <b>PLMN ref. to:</b><br>ETS 300 646-1, subclause 6.1.1.8 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/CONF/TC220303  |  |
| <b>ISDN selection criteria:</b> | CONF   |  |
| <b>PLMN selection criteria:</b> |  |  |
| <b>Test purpose:</b>            | Ensure that user A can add an existing call to the conference.   |  |
| <b>ISDN parameter values:</b>   | BC=speech  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |  |
| <b>Comments:</b>                | <p>The user A is in network N1 and is provided with CONF. User B and C are in network N2.</p> <p>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 <b>BeginCONF</b> invoke component indicating the call reference of the call to be added (CRx).</p> <p>The network shall respond to user A with a FACILITY message including a Facility IE which shall contain a BeginCONF return result component in a Facility IE.</p> <p>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").</p> <p>After initiating of call hold, the call (CRx) is in an Active-Held connection.</p> <p>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 <b>AddCONF</b> invoke component.</p> <p>The network shall send a DISCONNECT message (with CRy) to user A with a Facility IE with an <b>AddCONF</b> return result component.</p> <p>User A sends RELEASE for CRy. The network response with RELEASE COMPLETE.</p> <p>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").</p> <p>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").</p> <p><b>EDITORS NOTE 4:</b>The standard ETS 300 646-1, subclause 6.1.1.8 is not in line with the Recommendation Q.734.1. The PLMN does not support the sending of notifications to the remote users.</p> |  |

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| 220304                          | <b>ISDN ref. to:</b><br>ETS 300 185-1 [14],<br>subclause 9.2.2, ANNEX A,<br>Figure A.6   | <b>PLMN ref. to:</b><br>ETS 300 646-1, subclause 6.1.1.8 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/CONF/TC220304  |  |
| <b>ISDN selection criteria:</b> | CONF   |  |
| <b>PLMN selection criteria:</b> |  |  |
| <b>Test purpose:</b>            | Ensure that user A can add an incoming call to the conference.   |  |
| <b>ISDN parameter values:</b>   | BC=speech  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |  |
| <b>Comments:</b>                | <p>The user A is in network N1 and is provided with CONF. User B and C are in network N2.</p> <p>User A calls user B (with CRx). After the call establishment</p> <p>[in the (Active, Idle) state] user A sends a FACILITY message including a Facility IE which shall contain a <b>BeginCONF</b> invoke component indicating the call reference of the call to be added (CRx).</p> <p>The network shall respond to user A with a FACILITY message including a Facility IE which shall contain a <b>BeginCONF</b> return result component in a Facility IE.</p> <p>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").</p> <p>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.</p> <p>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 <b>AddCONF</b> invoke component.</p> <p>The network shall send a DISCONNECT message (with CRy) to user A with a Facility IE with an <b>AddCONF</b> return result component.</p> <p>User A sends RELEASE for CRy. The network response with RELEASE COMPLETE.</p> <p>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").</p> <p>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").</p> <p><b>EDITORS NOTE 4:</b> The standard ETS 300 646-1, subclause 6.1.1.8 is not in line with the Recommendation Q.734.1. The PLMN does not support the sending of notifications to the remote users.</p> |  |

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| 220305                          | <b>ISDN ref. to:</b><br>ETS 300 185-1 [14],<br>subclause 9.2.2, ANNEX A,<br>Figure A.7-A.8   | <b>PLMN ref. to:</b><br>ETS 300 646-1, subclause 6.1.1.8 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/CONF/TC220305  |  |
| <b>ISDN selection criteria:</b> | CONF   |  |
| <b>PLMN selection criteria:</b> |  |  |
| <b>Test purpose:</b>            | Ensure that user A can establish a conference call with user B and user C and isolate and reattach user B.   |  |
| <b>ISDN parameter values:</b>   | BC=speech  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |  |
| <b>Comments:</b>                | <p>The user A is in network N1 and is provided with CONF. User B and C are in network N2.</p> <p>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 <b>BeginCONF</b> invoke component indicating the call reference of the call to be added (CRx).</p> <p>The network shall respond to user A with a FACILITY message including a Facility IE which shall contain a BeginCONF return result component in a Facility IE.</p> <p>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").</p> <p>After initiating of call hold, the call (CRx) is in an Active-Held connection.</p> <p>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 <b>AddCONF</b> invoke component.</p> <p>The network shall send a DISCONNECT message (with CRy) to user A with a Facility IE with an <b>AddCONF</b> return result component.</p> <p>User A sends RELEASE for CRy. The network response with RELEASE COMPLETE.</p> <p>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").</p> <p>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").</p> <p>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.</p> <p>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").</p> <p>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.</p> <p><b>EDITORS NOTE 4:</b> The standard ETS 300 646-1, subclause 6.1.1.8 is not in line with the Recommendation Q.734.1. The PLMN does not support the sending of notifications to the remote users.</p> |  |

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| 220306                          | <b>ISDN ref. to:</b><br>ETS 300 185-1 [14],<br>subclause 9.2.2, ANNEX A,<br>Figure A.9   | <b>PLMN ref. to:</b><br>ETS 300 646-1, subclause 6.1.1.8 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/CONF/TC220306  |  |
| <b>ISDN selection criteria:</b> | CONF   |  |
| <b>PLMN selection criteria:</b> |  |  |
| <b>Test purpose:</b>            | Ensure that user A can establish a conference call with user B and user C and verify that one party can be split.  |  |
| <b>ISDN parameter values:</b>   | BC=speech  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |  |
| <b>Comments:</b>                | <p>The user A is in network N1 and is provided with CONF. User B and C are in network N2.</p> <p>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 <b>BeginCONF</b> invoke component indicating the call reference of the call to be added (CRx).</p> <p>The network shall respond to user A with a FACILITY message including a Facility IE which shall contain a BeginCONF return result component in a Facility IE.</p> <p>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.</p> <p>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 <b>AddCONF</b> invoke component.</p> <p>The network shall send a DISCONNECT message (with CRy) to user A with a Facility IE with an <b>AddCONF</b> return result component.</p> <p>User A sends RELEASE for CRy. The network response with RELEASE COMPLETE.</p> <p>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").</p> <p>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").</p> <p>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.</p> <p>The network shall send a CALL PROCEEDING, ALERTING without Channelid IE and a CONNECT message with a SplitCONF return component.</p> <p>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 split").</p> <p>User B shall receive a NOTIFY message with a Notification indicator IE indicating that user B is disconnected from the conference ("conference disconnected").</p> <p><b>EDITORS NOTE 4:</b>The standard ETS 300 646-1, subclause 6.1.1.8 is not in line with the Recommendation Q.734.1. The PLMN does not support the sending of notifications to the remote users.</p> |  |

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| 220307                          | <b>ISDN ref. to:</b><br>ETS 300 185-1 [14],<br>subclause 9.2.2, ANNEX A,<br>Figure A.10-A.12   | <b>PLMN ref. to:</b><br>ETS 300 646-1, subclause 6.1.1.8 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/CONF/TC220307  |  |
| <b>ISDN selection criteria:</b> | CONF   |  |
| <b>PLMN selection criteria:</b> |  |  |
| <b>Test purpose:</b>            | <p>The user A is in network N1 and is provided with CONF. User B and C are in network N2.</p> <p>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.</p> |  |
| <b>ISDN parameter values:</b>   | BC=speech  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |  |

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| <b>Comments:</b> | <p>The user A is in network N1 and is provided with CONF. User B and C are in network N2.</p> <p>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 <b>BeginCONF</b> invoke component indicating the call reference of the call to be added (CRx).</p> <p>The network shall respond to user A with a FACILITY message including a Facility IE which shall contain a <b>BeginCONF</b> return result component in a Facility IE.</p> <p>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.</p> <p>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 <b>AddCONF</b> invoke component.</p> <p>The network shall send a DISCONNECT message (with CRy) to user A with a Facility IE with an <b>AddCONF</b> return result component.</p> <p>User A sends RELEASE for CRy. The network response with RELEASE COMPLETE.</p> <p>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").</p> <p>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").</p> <p>User A sends a FACILITY message with a Facility IE including a DropCONF invoke component to request to disconnect the remote user B.</p> <p>The network shall send a FACILITY message with a Facility IE including a DropCONF return result component.</p> <p>User B shall be disconnected from the call with the normal call clearing procedures.</p> <p>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.</p> <p>User C shall be disconnected from the network with the normal call clearing procedures.</p> <p><b>EDITORS NOTE 4:</b> The standard ETS 300 646-1, subclause 6.1.1.8 is not in line with the Recommendation Q.734.1. The PLMN does not support the sending of notifications to the remote users.</p> |
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| 220308                          | <b>ISDN ref. to:</b><br>ETS 300 185-1 [14],<br>subclause 9.2.2, ANNEX A,<br>Figure A.11-A.12  | <b>PLMN ref. to:</b><br>ETS 300 646-1, subclause 6.1.1.8 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/CONF/TC220308   |  |
| <b>ISDN selection criteria:</b> | CONF  |  |
| <b>PLMN selection criteria:</b> |   |  |
| <b>Test purpose:</b>            | 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. |  |
| <b>ISDN parameter values:</b>   | BC=speech   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |  |



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| <b>Comments:</b> | <p>The user A is in network N1 and is provided with CONF. User B is in network N2.</p> <p>User A calls user B (with CRx). After the call establishment</p> <p>[in the (Active, Idle) state] user A sends a FACILITY message including a Facility IE which shall contain a <b>BeginCONF</b> invoke component indicating the call reference of the call to be added (CRx).</p> <p>The network shall respond to user A with a FACILITY message including a Facility IE which shall contain a BeginCONF return result component in a Facility IE.</p> <p>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.</p> <p>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 <b>AddCONF</b> invoke component.</p> <p>The network shall send a DISCONNECT message (with CRy) to user A with a Facility IE with an <b>AddCONF</b> return result component.</p> <p>User A sends RELEASE for CRy. The network response with RELEASE COMPLETE.</p> <p>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").</p> <p>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").</p> <p>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.</p> <p>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.</p> <p>User C shall be disconnected from the network with the normal call clearing procedures.</p> <p><b>EDITORS NOTE 4:</b> The standard ETS 300 646-1, subclause 6.1.1.8 is not in line with the Recommendation Q.734.1. The PLMN does not support the sending of notifications to the remote users.</p> |
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| 220401                          | <b>ISDN ref. to:</b><br>ETS 300 188-1 [17],<br>subclause 9.2  | <b>PLMN ref. to:</b><br>ETS 300 646-1, subclause 6.1.1.14 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/3PTY/TC220401   |   |
| <b>ISDN selection criteria:</b> | 3PTY  |   |
| <b>PLMN selection criteria:</b> |   |   |
| <b>Test purpose:</b>            | 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.  |   |
| <b>ISDN parameter values:</b>   | BC=speech   |   |
| <b>PLMN parameter values:</b>   |   |   |
| <b>Comments:</b>                | <p>The user A is in network N1 and is provided with 3PTY. The user B and user C are in the network N2.</p> <p>User A calls user B (with CRx). After initiating of call hold, the call A-B has an Active-Held connection.</p> <p>User A is calling user C (with the CRy). The call (A-C) has an Active-Idle connection.</p> <p>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.</p> <p>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".</p> <p>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.</p> <p>The call clearing procedure is performed from user A with a DISCONNECT message.</p> <p><b>EDITORS NOTE 5:</b> The standard ETS 300 646-1 subclause 6.1.1.15 is not in line with the Recommendation Q.734.2. The PLMN does not support the sending of notifications to the remote users.</p> |   |

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| 220402                          | <b>ISDN ref. to:</b><br>ETS 300 188-1 [17],<br>subclause 9.2  | <b>PLMN ref. to:</b><br>ETS 300 646-1, subclause 6.1.1.14 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/3PTY/TC220402   |   |
| <b>ISDN selection criteria:</b> | 3PTY  |   |
| <b>PLMN selection criteria:</b> |   |   |
| <b>Test purpose:</b>            | 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.  |   |
| <b>ISDN parameter values:</b>   | BC=speech   |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |   |
| <b>Comments:</b>                | <p>The user A is in network N1 and is provided with 3PTY.The user B and user C are in the network N2.</p> <p>User A calls user B (with CRx). After initiating of call hold, the call A-B has an Active-Held connection.</p> <p>User A is calling user C (with the CRy). The call (A-C) has an Active-Idle connection.</p> <p>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.</p> <p>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.</p> <p>The call clearing procedure is performed from user A with a DISCONNECT message.</p> <p><b>EDITORS NOTE 5:</b>The standard ETS 300 646-1 subclause 6.1.1.15 is not in line with the Recommendation Q.734.2. The PLMN does not support the sending of notifications to the remote users.</p> |   |

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| 220403                          | <b>ISDN ref. to:</b><br>ETS 300 188-1 [17],<br>subclause 9.2   | <b>PLMN ref. to:</b><br>ETS 300 646-1, subclause 6.1.1.14 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/3PTY/TC220403  |   |
| <b>ISDN selection criteria:</b> | 3PTY   |   |
| <b>PLMN selection criteria:</b> |  |   |
| <b>Test purpose:</b>            | Ensure that user A can establish a three-way conversation call with user B and user C and release of both remote users, user B is released first.  |   |
| <b>ISDN parameter values:</b>   | BC=speech  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |   |
| <b>Comments:</b>                | <p>The user A is in network N1 and is provided with 3PTY. The user B and user C are in the network N2.</p> <p>User A calls user B (with CRx). After initiating of call hold, the call A-B has an Active-Held connection.</p> <p>    User A is calling user C (with the CRy). The call (A-C) has an Active-Idle connection.</p> <p>    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.</p> <p>    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.</p> <p>    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".</p> <p>    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.</p> <p><b>EDITORS NOTE 5:</b> The standard ETS 300 646-1 subclause 6.1.1.15 is not in line with the Recommendation Q.734.2. The PLMN does not support the sending of notifications to the remote users.</p> |   |

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| 220404                          | <b>ISDN ref. to:</b><br>ETS 300 188-1 [17],<br>subclause 9.2   | <b>PLMN ref. to:</b><br>ETS 300 646-1, subclause 6.1.1.14 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/3PTY/TC220404  |   |
| <b>ISDN selection criteria:</b> | 3PTY   |   |
| <b>PLMN selection criteria:</b> |  |   |
| <b>Test purpose:</b>            | 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.  |   |
| <b>ISDN parameter values:</b>   | BC=speech  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |   |
| <b>Comments:</b>                | <b>EDITORS NOTE 5:</b> The standard ETS 300 646-1 subclause 6.1.1.15 is not in line with the Recommendation Q.734.2. The PLMN does not support the sending of notifications to the remote users. |   |

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| 220405                          | <b>ISDN ref. to:</b><br>ETS 300 188-1 [17],<br>subclause 9.2  | <b>PLMN ref. to:</b><br>ETS 300 646-1, subclause 6.1.1.14 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/3PTY/TC220405   |   |
| <b>ISDN selection criteria:</b> | 3PTY  |   |
| <b>PLMN selection criteria:</b> |   |   |
| <b>Test purpose:</b>            | 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.   |   |
| <b>ISDN parameter values:</b>   | BC=speech   |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |   |
| <b>Comments:</b>                | <b>EDITORS NOTE 5:</b> The standard ETS 300 646-1, subclause 6.1.1.15 is not in line with the Recommendation Q.734.2. The PLMN does not support the sending of notifications to the remote users. |   |

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| 220406                          | <b>ISDN ref. to:</b><br>ETS 300 188-1 [17],<br>subclause 9.2   | <b>PLMN ref. to:</b><br>ETS 300 646-1, subclause 6.1.1.14 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/3PTY/TC220406  |   |
| <b>ISDN selection criteria:</b> | 3PTY   |   |
| <b>PLMN selection criteria:</b> |  |   |
| <b>Test purpose:</b>            | 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.   |   |
| <b>ISDN parameter values:</b>   | BC=speech  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |   |
| <b>Comments:</b>                | <b>EDITORS NOTE 5:</b> The standard ETS 300 646-1 subclause 6.1.1.15 is not in line with the Recommendation Q.734.2. The PLMN does not support the sending of notifications to the remote users. |   |

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| 220407                          | <b>ISDN ref. to:</b><br>ETS 300 188-1 [17],<br>subclause 9.2   | <b>PLMN ref. to:</b><br>ETS 300 646-1, subclause 6.1.1.14 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/3PTY/TC220407  |   |
| <b>ISDN selection criteria:</b> | 3PTY   |   |
| <b>PLMN selection criteria:</b> |  |   |
| <b>Test purpose:</b>            | 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.      |   |
| <b>ISDN parameter values:</b>   | BC=speech  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |   |
| <b>Comments:</b>                | <b>EDITORS NOTE 5:</b> The standard ETS 300 646-1 subclause 6.1.1.15 is not in line with the Recommendation Q.734.2. The PLMN does not support the sending of notifications to the remote users. |   |

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| 220408                          | <b>ISDN ref. to:</b><br>ETS 300 188-1 [17],<br>subclause 9.2  | <b>PLMN ref. to:</b><br>ETS 300 646-1, subclause 6.1.1.14 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/3PTY/TC220408   |   |
| <b>ISDN selection criteria:</b> | 3PTY  |   |
| <b>PLMN selection criteria:</b> |   |   |
| <b>Test purpose:</b>            | 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. |   |
| <b>ISDN parameter values:</b>   | BC=speech   |   |
| <b>PLMN parameter values:</b>   | GSM-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.

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.

**EDITORS NOTE 5:** The standard ETS 300 646-1 subclause 6.1.1.15 is not in line with the Recommendation Q.734.2. The PLMN does not support the sending of notifications to the remote users.



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| 220409                          | <b>ISDN ref. to:</b><br>ETS 300 188-1 [17],<br>subclause 9.2  | <b>PLMN ref. to:</b><br>ETS 300 646-1, subclause 6.1.1.14 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/3PTY/TC220409   |   |
| <b>ISDN selection criteria:</b> | 3PTY  |   |
| <b>PLMN selection criteria:</b> |   |   |
| <b>Test purpose:</b>            | 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. |   |
| <b>ISDN parameter values:</b>   | BC=speech   |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |   |

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| <b>Comments:</b> | <p>User A calls user B (with CRx). After initiating of call hold, the call A-B has an Active-Held connection.</p> <p>User A is calling user C (with the CRy). The call (A-C) has an Active-Idle connection.</p> <p>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.</p> <p>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.</p> <p>On receiving such an invoke component in a FACILITY message, the network shall:</p> <ul style="list-style-type: none"> <li>i) remove the three-way bridge from both the Active-Idle connection and the Active-Held connection;</li> <li>ii) release the three-way bridge;</li> <li>iii) return to the served user an End3PTY return result component, within a FACILITY message, using the CRy of the Active-Idle connection;</li> <li>iv) send a NOTIFY message to both remote users containing a Notification indicator information element with a notification description of "Conference disconnected"; and,</li> <li>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".</li> </ul> <p>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.</p> <p>The call clearing procedure is performed from user A with a DISCONNECT message</p> <p><b>EDITORS NOTE 5:</b> The standard ETS 300 646-1 subclause 6.1.1.15 is not in line with the Recommendation Q.734.2. The PLMN does not support the sending of notifications to the remote users.</p> |
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| 220501                          | <b>ISDN ref. to:</b><br>ETS 300 369-1 [20],<br>subclause 9   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/ECT/TC220501   |   |
| <b>ISDN selection criteria:</b> | ECT  |   |
| <b>PLMN selection criteria:</b> |  |   |
| <b>Test purpose:</b>            | <p>User A is in network N1 and is provided with ECT using implicit linkage. User B and user C are in network N2.</p> <p>Ensure that when user A invokes ECT in which the call <b>A-B</b> is in the <b>Active call state - Call Held auxiliary state</b> and the call <b>A-C</b> is in the <b>Active call state</b> 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.</p> |   |
| <b>ISDN Parameter values:</b>   | BC=speech  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |   |
| <b>Comments:</b>                |  |   |

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| 220502                          | <b>ISDN ref. to:</b><br>ETS 300 369-1 [20],<br>subclause 9  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/ECT/TC220502  |   |
| <b>ISDN selection criteria:</b> | ECT   |   |
| <b>PLMN selection criteria:</b> |   |   |
| <b>Test purpose:</b>            | <p>User A is in network N1 and is provided with ECT using implicit linkage. User B and user C are in network N2.</p> <p>Ensure that when user A invokes ECT in which the call <b>A-B</b> is in the <b>Active call state</b> and the call <b>A-C</b> is in the <b>Active call state - Call Held auxiliary state</b>, a connection between user B and user C is established and the calls</p> <p>A-B and A-C are released.</p> <p>The call clearing procedure of the B-C connection is performed from user C.</p> |   |
| <b>ISDN Parameter values:</b>   | BC=speech   |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |   |
| <b>Comments:</b>                |   |   |

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| 220503                          | <b>ISDN ref. to:</b><br>ETS 300 369-1 [20],<br>subclause 9  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/ECT/TC220503  |   |
| <b>ISDN selection criteria:</b> | ECT   |   |
| <b>PLMN selection criteria:</b> |   |   |
| <b>Test purpose:</b>            | <p>User A is in network N1 and is provided with ECT using implicit linkage. User B and user C are in network N2.</p> <p>Ensure that when user A invokes ECT in which the call <b>A-B</b> is in the <b>Active call state - Call Held auxiliary state</b> and the call <b>A-C</b> is in the <b>Call Delivered State</b> 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.</p> <p>The call clearing procedure of the B-C connection is performed from user B.</p> |   |
| <b>ISDN Parameter values:</b>   | BC=speech   |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |   |
| <b>Comments:</b>                |   |   |

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| 220504                          | <b>ISDN ref. to:</b><br>ETS 300 369-1 [20],<br>subclause 9   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/ECT/TC220504   |   |
| <b>ISDN selection criteria:</b> | ECT  |   |
| <b>PLMN selection criteria:</b> |  |   |
| <b>Test purpose:</b>            | <p>User A is in network N1 and is provided with ECT using implicit linkage. User B and user C are in network N2.</p> <p>Ensure that when user A invokes ECT in which the call <b>A-B</b> is in the <b>Active call state</b> and the call <b>A-C</b> is in the <b>Call Delivered State - Call Held auxiliary state</b>, a connection between user B and user C is established and the calls</p> <p>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.</p> |   |
| <b>ISDN Parameter values:</b>   | BC=speech  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |   |
| <b>Comments:</b>                |  |   |

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| 220601                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1]   | <b>PLMN ref. to:</b><br>ETS 300 548 [34] |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/Call barring service/TC220601  |  |
| <b>ISDN selection criteria:</b> |  |  |
| <b>PLMN selection criteria:</b> | The Network B supports barring of all incoming calls (BAIC).   |  |
| <b>Test purpose:</b>            | Ensure that when the called user activates barring of all incoming calls, call establishment is not possible and the network initiate call clearing to the calling user. |  |
| <b>ISDN parameter values:</b>   | BC=speech  |  |
| <b>PLMN parameter values:</b>   |  |  |
| <b>Comments:</b>                | EDITORS NOTE 3: The cause value with witch the call shall be rejected is not defined.  |  |

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| 220602                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1]   | <b>PLMN ref. to:</b><br>ETS 300 548 [34] |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/Call barring service/TC220602  |  |
| <b>ISDN selection criteria:</b> |  |  |
| <b>PLMN selection criteria:</b> | The Network B supports barring of all incoming calls (BAIC) and barring of incoming calls when roaming outside the home PLMN country (BIC-Roam). The MS is roaming outside the home PLMN country.  |  |
| <b>Test purpose:</b>            | Ensure that when the called user activates barring of incoming calls when roaming outside the home PLMN country was already activated, barring of incoming calls when roaming outside the home PLMN country will be deactivated and barring of all incoming calls will be activated.<br><br>Call establishment is not possible and the network initiate call clearing to the calling user. |  |
| <b>ISDN parameter values:</b>   | BC=speech  |  |
| <b>PLMN parameter values:</b>   |  |  |
| <b>Comments:</b>                | EDITORS NOTE 3: The cause value with witch the call shall be rejected is not defined.  |  |

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| 220701                          | <b>ISDN ref. to:</b><br>ETS 300 359-1,<br>subclause 9.1.2  | <b>PLMN ref. to:</b><br>ETS 300 646-1, subclause 6.1.1.14 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/CCBS/TC220701  |   |
| <b>ISDN selection criteria:</b> | The user A is in network N1 and has subscribed to the CCBS supplementary service   |   |
| <b>PLMN selection criteria:</b> | The user B is in the network N2 and doesn't support CCBS.  |   |
| <b>Test purpose:</b>            | User A calls busy user B. The network clears the incoming call with user busy (cause value # 17). User A's CCBS request is identified by the callLinkageID parameter. The network cannot accept user A's request identified by the callLinkageID parameter because CCBS is not available to the destination. The network A shall send a CCBS Request return error component indicating "longTermDenial" to user A. |   |
| <b>ISDN parameter values:</b>   | BC=speech  |   |
| <b>PLMN parameter values:</b>   |  |   |
| <b>Comments:</b>                |  |   |

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| 220801                          | <b>ISDN ref. to:</b><br>EN 300 065-1   | <b>PLMN ref. to:</b><br>EN 300 065 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/CCNR/TC220801  |                                    |
| <b>ISDN selection criteria:</b> | The user A is in network N1 and has subscribed to the CCNR supplementary service   |                                    |
| <b>PLMN selection criteria:</b> | The user B is in the network N2 and doesn't support CCNR.  |                                    |
| <b>Test purpose:</b>            | User A calls user B which doesn't answer the call.<br><br>User A's CCNR request is identified by the callLinkageID parameter. The network cannot accept user A's request identified by the callLinkageID parameter because CCNR is not available to the destination. The network A shall send a CCNR Request return error component indicating "longTermDenial" to user A. |                                    |
| <b>ISDN parameter values:</b>   | BC=speech  |                                    |
| <b>PLMN parameter values:</b>   |  |                                    |
| <b>Comments:</b>                |  |                                    |

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| 220901                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1]  | <b>PLMN ref. to:</b><br>ETS 300 519 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/AoC/TC220901  |                                     |
| <b>ISDN selection criteria:</b> |   |                                     |
| <b>PLMN selection criteria:</b> | AoC   |                                     |
| <b>Test purpose:</b>            | PLMN user B is provided with AoC-Charging and is using a mobile station which supports phase 2 supplementary services. ISDN user A calls user B. Ensure that the call establishment will be successful. |                                     |
| <b>ISDN parameter values:</b>   | BC=speech   |                                     |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |                                     |
| <b>Comments:</b>                |   |                                     |

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| 220902                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1]   | <b>PLMN ref. to:</b><br>ETS 300 519 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/AoC/TC220901   |                                     |
| <b>ISDN selection criteria:</b> |  |                                     |
| <b>PLMN selection criteria:</b> | AoC  |                                     |
| <b>Test purpose:</b>            | PLMN user B is provided with AoC-Charging and is using a mobile station which does not support phase 2 supplementary services. ISDN user A calls user B. Ensure that the network will initiate call clearing to the calling user with cause value #63 "service or option not available, unspecified" |                                     |
| <b>ISDN parameter values:</b>   | BC=speech  |                                     |
| <b>PLMN parameter values:</b>   |  |                                     |
| <b>Comments:</b>                |  |                                     |

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| 221001                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1]  | <b>PLMN ref. to:</b><br>ETS 300 517, ETS 300 545 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/MPTY/TC221001   |  |
| <b>ISDN selection criteria:</b> | User A is in network N1   |  |
| <b>PLMN selection criteria:</b> | User B and user C are in network N2.  |  |
| <b>Test purpose:</b>            | User A is calling user B. Ensure that the user B can establish a MPTY call to user A and user C. User B is terminating the entire multi party call. |  |
| <b>ISDN parameter values:</b>   | BC=speech   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |  |
| <b>Comments:</b>                |   |  |

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| 221002                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1]   | <b>PLMN ref. to:</b><br>ETS 300 517, ETS 300 545 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/MPTY/TC221002  |  |
| <b>ISDN selection criteria:</b> | User A is in network N1  |  |
| <b>PLMN selection criteria:</b> | User B and user C are in network N2.   |  |
| <b>Test purpose:</b>            | User A is calling user B. Ensure that the user B can establish a MPTY call to user B and C. The user A is clearing the remote party C. The call clearing procedure to user A is performed from user B. |  |
| <b>ISDN parameter values:</b>   | BC=speech  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |  |
| <b>Comments:</b>                |  |  |



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| 221003                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1]   | <b>PLMN ref. to:</b><br>ETS 300 517, ETS 300 545 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/MPTY/TC221003  |  |
| <b>ISDN selection criteria:</b> | User A is in network N1  |  |
| <b>PLMN selection criteria:</b> | User B and user C are in network N2.   |  |
| <b>Test purpose:</b>            | User A is calling user B. Ensure that the user B can establish a MPTY call to user A and user C. Afterwards the remote party C disconnects itself from the call. The call clearing procedure to user B is performed from user A. |  |
| <b>ISDN parameter values:</b>   | BC=speech  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |  |
| <b>Comments:</b>                |  |  |

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|---------------------------------|---|--|
| 221004                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1]  | <b>PLMN ref. to:</b><br>ETS 300 517, ETS 300 545 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/MPTY/TC221004   |  |
| <b>ISDN selection criteria:</b> | User A is in network N1   |  |
| <b>PLMN selection criteria:</b> | User B and user C are in network N2.  |  |
| <b>Test purpose:</b>            | User A is calling user B. Ensure that the user B can establish a MPTY call to user A and user C. Afterwards the user B separates the remote user A from the multi-party call which is placed on hold (A-B ACTIVE / MPTY HELD). User B invokes the MPTY service and join the single active call and the held MPTY together. User B is terminating the entire multi party call. |  |
| <b>ISDN parameter values:</b>   | BC=speech   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |  |
| <b>Comments:</b>                |   |  |

#### 6.2.2.2 Bearer capability "UDI"

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|------------------------|
| Supplementary services |
| UDI                    |

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| 230101                          | <b>ISDN ref. to:</b><br>ETS 300 092-1 [6],<br>subclause 9.3,<br>EN 300 403-1 [1],<br>subclause 4.5.10,<br>subclause 4.5.11  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 10.5.4.9<br><br>ETS 300 565 [36], subclause 1,<br><br>ETS 300 542 [57] , subclause 1 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/UDI/CLIP/TC230101  |  |
| <b>ISDN selection criteria:</b> | CLIP  |  |
| <b>PLMN selection criteria:</b> | The called user is provided with CLIP   |  |
| <b>Test purpose:</b>            | 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. |  |
| <b>ISDN parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption,<br><br>Calling party number: PI=PA SI=UPVP, TON=subscriber number   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption,<br><br>Calling party number: PI=PA SI=UPVP, TON= national / international number, NPI= ISDN/Telephony numbering plan (ITU-T Rec. E.164 [25] )   |  |
| <b>Comments:</b>                |   |  |

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| 230102                          | <b>ISDN ref. to:</b><br>ETS 300 092-19.3<br>EN 300 403-1 [1],<br>subclause 4.5.10,<br>subclause 4.5.11  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 10.5.4.9<br><br>ETS 300 565 [36], subclause 1<br><br>ETS 300 542 [57] , subclause 1 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/UDI/CLIP/TC230102  |   |
| <b>ISDN selection criteria:</b> | CLIP  |   |
| <b>PLMN selection criteria:</b> | The called user is provided with CLIP   |   |
| <b>Test purpose:</b>            | 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. |   |
| <b>ISDN parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption,<br><br>Calling party number: PI=PA SI=UPVP, TON= national number  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption,<br><br>Calling party number: PI=PA, SI=UPVP, TON= national / international number, NPI= ISDN/Telephony numbering plan (ITU-T Rec. E.164 [25] )  |   |
| <b>Comments:</b>                |   |   |

|                                 |  |   |
|---------------------------------|--|---|
| 230103                          | <b>ISDN ref. to:</b><br>ETS 300 092-1 [6],<br>subclause 9.3<br>EN 300 403-1 [1],<br>subclause 4.5.10,<br>subclause 4.5.11  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 10.5.4.9<br>ETS 300 565 [36], subclause 1<br>ETS 300 542 [57] , subclause 1 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/UDI/CLIP/TC230103   |   |
| <b>ISDN selection criteria:</b> | CLIP   |   |
| <b>PLMN selection criteria:</b> | The called user is provided with CLIP  |   |
| <b>Test purpose:</b>            | 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. |   |
| <b>ISDN parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption,<br>Calling party number: PI= PA, SI=UPVP, TON=international number   |   |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption,<br>Calling party number PI=PA, SI=UPVP, TON= national / international number,<br>NPI= ISDN/Telephony numbering plan (ITU-T Rec. E.164 [25] )   |   |
| <b>Comments:</b>                |  |   |

|                                 |   |   |
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| 230104                          | <b>ISDN ref. to:</b><br>ETS 300 092-1 [6], 9.3<br>EN 300 403-1 [1],<br>subclause 4.5.10,<br>subclause 4.5.11  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 10.5.4.9<br>ETS 300 565 [36], subclause 1<br>ETS 300 542 [57] , subclause 1 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/UDI/CLIP/TC230104  |   |
| <b>ISDN selection criteria:</b> | CLIP  |   |
| <b>PLMN selection criteria:</b> | The called user is provided with CLIP   |   |
| <b>Test purpose:</b>            | 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. |   |
| <b>ISDN parameter values:</b>   | BC= UDI with V.110/X.30 rate adaption,<br>Calling party number: PI=PA SI=UPVP, TON=unknown  |   |
| <b>PLMN parameter values:</b>   | GSM-BC= UDI with V.110/X.30 rate adaption,<br>Calling party number: PI=PA SI=UPVP, TON= national / international number, NPI=<br>ISDN/Telephony numbering plan (ITU-T Rec. E.164 [25] )   |   |
| <b>Comments:</b>                |   |   |

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| 230105                          | <b>ISDN ref. to:</b><br>ETS 300 092-1 [6],<br>subclause 9.3<br>EN 300 403-1 [1],<br>subclause 4.5.10   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 10.5.4.9,<br>subclause 10,5.4.10<br><br>ETS 300 565 [36], subclause 1<br><br>ETS 300 542 [57] , subclause 1 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/UDI/CLIP/TC230105   |   |
| <b>ISDN selection criteria:</b> | CLIP   |   |
| <b>PLMN selection criteria:</b> | The called user is provided with CLIP  |   |
| <b>Test purpose:</b>            | 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. |   |
| <b>ISDN parameter values:</b>   | BC= UDI with V.110/X.30 rate adaption  |   |
| <b>PLMN parameter values:</b>   | GSM-BC= UDI with V.110/X.30 rate adaption,<br><br>Calling party number : SI=NP, TON= national / international number, PI=PA,<br><br>NPI= ISDN/Telephony numbering plan (ITU-T Rec. E.164 [25] )  |   |
| <b>Comments:</b>                |  |   |

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| 230201                          | <b>ISDN ref. to:</b><br>ETS 300 093-1 [7]<br>subclause 9.4.1<br>ETS 300 092-1 [6] /A2 Fig2   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 10.5.4.9,<br>subclause 10.5.4.10<br><br>ETS 300 565 [36], subclause 1<br><br>ETS 300 542 [57] , subclause 1 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/UDI/CLIR/TC230201   |   |
| <b>ISDN selection criteria:</b> | CLIR   |   |
| <b>PLMN selection criteria:</b> | The called user is provided with CLIP  |   |
| <b>Test purpose:</b>            | The calling user is provided with CLIR permanent mode subscription.<br><br>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 |   |
| <b>ISDN parameter values:</b>   | BC= UDI with V.110/X.30 rate adaption,<br><br>Calling party number: PI=PR, TON=unknown, NPI=unknown  |   |
| <b>PLMN parameter values:</b>   | GSM-BC= UDI with V.110/X.30 rate adaption,<br><br>Calling party number: PI=PR, SI=NP, TON=unknown, NPI=unknown   |   |
| <b>Comments:</b>                |  |   |

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| 230202                          | <b>ISDN ref. to:</b><br>ETS 300 093-1 [7]<br>subclause 9.4.1<br>ETS 300 092-1 [6] /A2 Fig2  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 10.5.4.9,<br>subclause 10.5.4.10<br><br>ETS 300 565 [36], subclause 1<br><br>ETS 300 542 [57] , subclause 1 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/UDI/CLIR/TC230202  |   |
| <b>ISDN selection criteria:</b> | CLIR  |   |
| <b>PLMN selection criteria:</b> | The called user is provided with CLIP   |   |
| <b>Test purpose:</b>            | The calling user is provided with CLIR permanent mode subscription.<br><br>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. |   |
| <b>ISDN parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption,   |   |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption,<br>Calling party number: PI=PR, SI=NP, TON=unknown, NPI=unknown   |   |
| <b>Comments:</b>                |   |   |

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| 230301                          | <b>ISDN ref. to:</b><br>ETS 300 097-1 [8],<br>subclause 9.5.1  | <b>PLMN ref. to:</b><br>ETS 300 557 [35] subclause 9.3.5.2,<br>subclause 10.5.4.14<br><br>ETS 300 565 [36], subclause 3,<br><br>ETS 300 542 [57] , subclause 3 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/UDI/COLP/TC230301   |  |
| <b>ISDN selection criteria:</b> | The calling user is provided with COLP   |  |
| <b>PLMN selection criteria:</b> | COLP   |  |
| <b>Test purpose:</b>            | Ensure that when the Connected subaddress number is provided by the called user, the Connected number and Connected subaddress information elements are correctly delivered to the calling (served) user.      |  |
| <b>ISDN parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption,<br><br>Connected number: PI=PA, SI=NP, TON= national /international number, NPI= NPI= ISDN/Telephony numbering plan (ITU-T Rec. E.164 [25] )<br><br>Connected subaddress |  |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption,<br><br>Connected subaddress  |  |
| <b>Comments:</b>                |  |  |

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| 230302                          | <b>ISDN ref. to</b><br>ETS 300 097-1 [8],<br>subclause 9.5.1  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 9.3.5.2,<br>subclause 10.5.4.14<br><br>ETS 300 565 [36], subclause 3<br><br>ETS 300 542 [57] , subclause 3 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/UDI/COLP/TC230302  |  |
| <b>ISDN selection criteria:</b> | Calling user is provided with COLP  |  |
| <b>PLMN selection criteria:</b> | COLP  |  |
| <b>Test purpose:</b>            | Ensure that when no Connected subaddress is provided by the called user, the Connected number information element is network provided and correctly delivered to the calling (served) user. |  |
| <b>ISDN parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption,<br><br>Connected number: SI=NP, PI=PA, TON= national / international number,<br><br>NPI= ISDN/Telephony numbering plan (ITU-T Rec. E.164 [25] )       |  |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption  |  |
| <b>Comments:</b>                |   |  |

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| 230401                          | <b>ISDN ref. to:</b><br>ETS 300 098-1 [9],<br>subclause 9.3.1,<br>subclause 9.4.1<br>ETS 300 097-1 [8] /A2 Fig 4   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 9.3.5.2,<br>subclause 10.5.4.14<br><br>ETS 300 565 [36], subclause 4,<br><br>ETS 300 542 [57] , subclause 4 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/UDI/COLR/TC230401   |   |
| <b>ISDN selection criteria:</b> | The calling user is provided with COLP   |   |
| <b>PLMN selection criteria:</b> | COLR   |   |
| <b>Test purpose:</b>            | The called (served) user is provided with COLR permanent mode subscription<br><br>Ensure that when no Connected subaddress is provided by the called user, the Connected number information element is network provided and delivered to the calling user without any digit information. |   |
| <b>ISDN parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption,<br><br>Connected number PI=PR, SI=NP, TON=unknown, NPI=unknown   |   |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption   |   |
| <b>Comments:</b>                |  |   |

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| 230501                          | <b>ISDN ref. to:</b><br>ETS 300 138-1 [10],<br>subclause 9.2.2,<br>subclause 9.2.4  | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39] |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/UDI/CUG/TC210501   |  |
| <b>ISDN selection criteria:</b> | CUG supplementary options: <b>not OA; not ocb; not Pref. CUG</b>  |  |
| <b>PLMN selection criteria:</b> | Calling user and called user belong to the <b>same</b> CUG;<br>CUG supplementary options: <b>IA; not ICB</b>  |  |
| <b>Test purpose:</b>            | Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access is not allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> 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 OARRequested set to TRUE, CUG Index included,<br><br>the called user receives a SETUP message with a Facility IE which contains an CUG index associated with the invoked CUG. |  |
| <b>ISDN parameter values:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption;<br><br>Facility IE with cUGCall invoke component:<br><br>OARRequested set to TRUE<br><br>CUG Index included   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption; Facility (Invoke =NotifySS (CUG-Index))   |  |
| <b>Comments:</b>                |   |  |

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| 230502                          | <b>ISDN ref. to:</b><br>ETS 300 138-1 [10],<br>subclause 9.2.2,<br>subclause 9.2.4   | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39] |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/UDI/CUG/TC230502  |  |
| <b>ISDN selection criteria:</b> | The calling user belongs to a CUG with the following CUG supplementary options: <b>OA; not ocb; not Pref. CUG</b>  |  |
| <b>PLMN selection criteria:</b> | The called user belongs to the <b>same</b> CUG with the following CUG supplementary options: <b>IA; not ICB</b>  |  |
| <b>Test purpose:</b>            | <p>Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> 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,</p> <p>the called user receives a SETUP message. A Facility IE may be passed to the MS which contains an CUG index associated with the invoked CUG.</p> |  |
| <b>ISDN parameter values:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption;<br>Facility IE with cUGCall invoke component:<br><br>OARequested set to TRUE<br><br>CUG Index included   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption; Facility (Invoke =NotifySS (CUG-Index))  |  |
| <b>Comments:</b>                |  |  |



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| 230503                          | <b>ISDN ref. to:</b><br>ETS 300 138-1 [10],<br>subclause 9.2.2,<br>subclause 9.2.4  | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39] |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/UDI/CUG/TC230503   |  |
| <b>ISDN selection criteria:</b> | The calling user belongs to a CUG with the following CUG supplementary options: <b>OA; not ocb; not Pref. CUG</b>   |  |
| <b>PLMN selection criteria:</b> | The called user belongs to the <b>same</b> CUG with the following CUG supplementary options: <b>IA; ICB</b>   |  |
| <b>Test purpose:</b>            | <p>Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access is allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> 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,</p> <p>the network initiate call clearing to the calling user with cause value # 29 "Facility rejected", return error value "incomming CallsBarredWithinCUG".</p> |  |
| <b>ISDN parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption;<br><br>Facility IE with cUGCall invoke component:<br><br><div style="text-align: right;">OARequested set to TRUE<br/>CUG Index included</div>   |  |
| <b>PLMN parameter values:</b>   |   |  |
| <b>Comments:</b>                |   |  |

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| 230504                          | <b>ISDN ref. to:</b><br>ETS 300 138-1 [10],<br>subclause 9.2.2,<br>subclause 9.2.4   | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39] |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/UDI/CUG/TC230504  |  |
| <b>ISDN selection criteria:</b> | The calling user belongs to a CUG with the following CUG supplementary options: <b>OA; not ocb; not Pref. CUG</b>  |  |
| <b>PLMN selection criteria:</b> | The called user belongs to the same CUG with the following CUG supplementary options: <b>IA; not ICB</b>   |  |
| <b>Test purpose:</b>            | Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access is allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> 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 OARrequested set to TRUE, CUG Index not included,<br><br>the called user receives a SETUP message. |  |
| <b>ISDN parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption;<br><br>Facility IE with cUGCall invoke component:<br><br>OARrequested set to TRUE<br>CUG Index <b>not</b> included   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption;  |  |
| <b>Comments:</b>                |  |  |



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| 230507                          | <b>ISDN ref. to:</b><br>ETS 300 138-1 [10],<br>subclause 9.2.2   | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br><br>ETS 300 569 [39] |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/UDI/CUG/TC230507  |  |
| <b>ISDN selection criteria:</b> | The calling user belongs to a CUG with the following CUG supplementary options: <b>not OA; not ocb; not Pref. CUG</b>  |  |
| <b>PLMN selection criteria:</b> | The called user is not member of CUG.  |  |
| <b>Test purpose:</b>            | <p>Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access is not allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> user belongs not to a CUG, after the receipt of a SETUP message with a Facility IE containing a cUGCall invoke component with OARrequested set to TRUE, CUG Index included,</p> <p>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".</p> |  |
| <b>ISDN parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption;<br><br>Facility IE with cUGCall invoke component:<br><br><div style="text-align: right;">OARrequested set to TRUE<br/>CUG Index included</div>   |  |
| <b>PLMN parameter values:</b>   |  |  |
| <b>Comments:</b>                |  |  |

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| 230508                          | <b>ISDN ref. to:</b><br>ETS 300 138-1 [10],<br>subclause 9.2.2  | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br><br>ETS 300 569 [39] |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/UDI/CUG/TC230508   |  |
| <b>ISDN selection criteria:</b> | The calling user belongs to a CUG with the following CUG supplementary options: <b>OA; not ocb; not Pref. CUG</b>   |  |
| <b>PLMN selection criteria:</b> | The called user belongs to <b>the same</b> CUG with the following CUG supplementary options: <b>not IA; ICB</b>   |  |
| <b>Test purpose:</b>            | <p>Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access is allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> 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 OARrequested set to TRUE, CUG Index included,</p> <p>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".</p> |  |
| <b>ISDN parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption;<br><br>Facility IE with cUGCall invoke component:<br><br><div style="text-align: right;">OARrequested set to TRUE<br/>CUG Index included</div>  |  |
| <b>PLMN parameter values:</b>   |   |  |
| <b>Comments:</b>                |   |  |

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| 230509                          | <b>ISDN ref. to:</b><br>ETS 300 138-1 [10],<br>subclause 9.2.2   | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br><br>ETS 300 569 [39] |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/UDI/CUG/TC230509  |  |
| <b>ISDN selection criteria:</b> | The calling user belongs to a CUG with the following CUG supplementary options: <b>OA; not ocb; not Pref. CUG</b>  |  |
| <b>PLMN selection criteria:</b> | The called user belongs to <b>the same</b> CUG with the following CUG supplementary options: <b>not IA; ICB</b>  |  |
| <b>Test purpose:</b>            | <p>Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access is allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> 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 OARrequested set to FALSE, CUG Index included,</p> <p>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".</p> |  |
| <b>ISDN parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption;<br><br>Facility IE with cUGCall invoke component:<br><br><div style="text-align: right;">OARrequested set to FALSE<br/>CUG Index included</div>  |  |
| <b>PLMN parameter values:</b>   |  |  |
| <b>Comments:</b>                |  |  |

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| 230510                          | <b>ISDN ref. to:</b><br>ETS 300 138-1 [10],<br>subclause 9.2.2,<br>subclause 9.2.4  | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39] |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/UDI/CUG/TC230510   |  |
| <b>ISDN selection criteria:</b> | The calling user belongs to a CUG with the following CUG supplementary options: <b>OA; not ocb; not Pref. CUG</b>   |  |
| <b>PLMN selection criteria:</b> | The called user belongs to the <b>same</b> CUG with the following CUG supplementary options: <b>IA; ICB</b>   |  |
| <b>Test purpose:</b>            | <p>Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access is allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> 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 OARrequested set to FALSE, CUG Index included,</p> <p>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".</p> |  |
| <b>ISDN parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption;<br><br>Facility IE with cUGCall invoke component:<br><br><div style="text-align: right;">OARrequested set to FALSE<br/>CUG Index included</div>   |  |
| <b>PLMN parameter values:</b>   |   |  |
| <b>Comments:</b>                |   |  |

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| 230511                          | <b>ISDN ref. to:</b><br>ETS 300 138-1 [10],<br>subclause 9.2.2,<br>subclause 9.2.4   | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br><br>ETS 300 569 [39] |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/UDI/CUG/TC230511  |  |
| <b>ISDN selection criteria:</b> | CUG supplementary options: <b>not OA; not OCB; not Pref. CUG</b>   |  |
| <b>PLMN selection criteria:</b> | Calling user and called user belong to the <b>same</b> CUG;<br><br>CUG supplementary options: <b>not IA; not ICB</b>   |  |
| <b>Test purpose:</b>            | Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access not allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> user belongs 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 OARRequested set to FALSE, CUG Index included,<br><br>the called user receives a SETUP message with a Facility IE which contains a CUG index associated with the invoked CUG. |  |
| <b>ISDN parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption;<br><br>Facility IE with cUGCall invoke component:<br><br>OARRequested set to FALSE<br>CUG Index included   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption;<br><br>Facility (Invoke =NotifySS (CUG-Index))   |  |
| <b>Comments:</b>                |  |  |

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| 230601                          | <b>ISDN ref. to:</b><br>ETS 300 061-1 [11]<br>subclause 9.2<br>EN 300 403-1 [1],<br>subclause 4.5.9  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 9.3.23.1.5 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/UDI/SUB/TC230601  |  |
| <b>ISDN selection criteria:</b> | SUB  |  |
| <b>PLMN selection criteria:</b> | The called (served) user is provided with SUB  |  |
| <b>Test purpose:</b>            | 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 |  |
| <b>ISDN parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption   |  |
| <b>Comments:</b>                |  |  |



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| 230602                          | <b>ISDN ref. to:</b><br>ETS 300 061-1 [11],<br>subclause 9.2<br>EN 300 403-1 [1],<br>subclause 4.5.9   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 9.3.23.1.5 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/UDI/SUB/TC230602  |  |
| <b>ISDN selection criteria:</b> | SUB  |  |
| <b>PLMN selection criteria:</b> | The called (served) user is provided with SUB  |  |
| <b>Test purpose:</b>            | 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 |  |
| <b>ISDN parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption   |  |
| <b>Comments:</b>                |  |  |

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| 230701                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15],<br>subclause 9.2.2,<br>subclause 9.2.5  | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 1<br>ETS 300 543 [31], subclause 1 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/UDI/CFU/TC230701   |  |
| <b>ISDN selection criteria:</b> | Call to a forwarding subscriber (CFU)   |  |
| <b>PLMN selection criteria:</b> | The user B is in network N2 provided with CFU ("calling user is notified of call diversion" = <b>Yes</b> ). (Note 2)  |  |
| <b>Test purpose:</b>            | Ensure that when user A calls user B, the call is forwarded to user C.<br><br>User <b>A</b> is notified of call diversion.<br><br>User <b>C</b> <b>receives</b> a SETUP message with the information that the incoming call is a forwarded call.  |  |
| <b>ISDN parameter values:</b>   | <b>A:</b> ! BC=UDI with V.110/X.30 rate adaption;<br><b>C:</b> ? BC=UDI with V.110/X.30 rate adaption;  |  |
| <b>PLMN parameter values:</b>   | CFU active  |  |
| <b>Comments:</b>                | EDITORS NOTE 2: Stage 1, 2 and 3 descriptions of the call forwarding Supplementary_services are not in line with the pr ETS 300 646-1, item 6.1.1.10 ETS 300 646-1, item 6.1.1.10 (MSC acts like a diverting exchange according to ETS 300 356-15).<br><br>The served mobile subscriber has not the ability to decide if the indication that the incoming call is a forwarded call is released to the diverted-to user. |  |

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| 230702                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15],<br>subclause 9.2.2,<br>subclause 9.2.5   | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 1<br>ETS 300 543 [31], subclause 1 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/UDI/CFU/TC230702  |  |
| <b>ISDN selection criteria:</b> | Call to a forwarding subscriber (CFU)  |  |
| <b>PLMN selection criteria:</b> | The user B is in network N2 provided with CFU ("calling user is notified of call diversion" = <b>No</b> ). (Note 2)  |  |
| <b>Test purpose:</b>            | <p>Ensure that when user A calls user B, the call is forwarded to user C.</p> <p>User A is not notified of call diversion and not informed of the diverted-to number.</p> <p>User <b>C receives</b> a SETUP message with the information that the incoming call is a forwarded call.</p>   |  |
| <b>ISDN parameter values:</b>   | <p><b>A:</b> ! BC=UDI with V.110/X.30 rate adaption;</p> <p><b>C:</b> ? BC=UDI with V.110/X.30 rate adaption;</p>  |  |
| <b>PLMN parameter values:</b>   | CFU active   |  |
| <b>Comments:</b>                | <p>EDITORS NOTE 2: Stage 1, 2 and 3 descriptions of the call forwarding Supplementary_services are not in line with the pr ETS 300 646-1, item 6.1.1.10 ETS 300 646-1, item 6.1.1.10 (MSC acts like a diverting exchange according to ETS 300 356-15).</p> <p>The served mobile subscriber has not the ability to decide if the indication that the incoming call is a forwarded call is released to the diverted-to user.</p> |  |

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| 230801                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15],<br>subclause 9.2.2,<br>subclause 9.2.4.3,<br>subclause 9.2.5  | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 2<br>ETS 300 543 [31], subclause 2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/UDI/CFB/TC230801   |  |
| <b>ISDN selection criteria:</b> | Call to a forwarding subscriber (CFB)   |  |
| <b>PLMN selection criteria:</b> | The user B is in network N2 and is provided with CFB- <b>UDUB</b> ("calling user is notified of call diversion" = <b>Yes</b> ;). (Note 2)   |  |
| <b>Test purpose:</b>            | <p>Ensure that when user A calls busy user B, the call is forwarded to user C.</p> <p>User <b>A</b> is notified of call diversion.</p> <p>User <b>C receives</b> a SETUP message with the information that the incoming call is a forwarded call.</p> |  |
| <b>ISDN parameter values:</b>   | <p><b>A:</b> ! BC=UDI with V.110/X.30 rate adaption;</p> <p><b>C:</b> ? BC=UDI with V.110/X.30 rate adaption;</p>   |  |
| <b>PLMN parameter values:</b>   | CFB-UDUB active   |  |

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| <b>Comments:</b> | <p>EDITORS NOTE 2: Stage 1, 2 and 3 descriptions of the call forwarding Supplementary_services are not in line with the pr ETS 300 646-1, item 6.1.1.10 ETS 300 646-1, item 6.1.1.10 (MSC acts like a diverting exchange according to ETS 300 356-15)</p> <p>The served mobile subscriber has not the ability to decide if the indication that the incoming call is a forwarded call is released to the diverted-to user.</p> |
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| 230802                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15],<br>subclause 9.2.2,<br>subclause 9.2.4.3,<br>subclause 9.2.5  | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 2<br>ETS 300 543 [31], subclause 2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/UDI/CFB/TC230802   |  |
| <b>ISDN selection criteria:</b> | Call to a forwarding subscriber (CFB)   |  |
| <b>PLMN selection criteria:</b> | The user B is in network N2 and is provided with CFB-UDUB ("calling user is notified of call diversion" = <b>No</b> ). (Note 2)   |  |
| <b>Test purpose:</b>            | <p>Ensure that when user A calls busy user B, the call is forwarded to user C.</p> <p>User A is not notified of call diversion and not informed of the diverted-to number.</p> <p>User <b>C receives</b> a SETUP message with the information that the incoming call is a forwarded call.</p>   |  |
| <b>ISDN parameter values:</b>   | <p><b>A:</b> ! BC=UDI with V.110/X.30 rate adaption;</p> <p><b>C:</b> ? BC=UDI with V.110/X.30 rate adaption;</p>   |  |
| <b>PLMN parameter values:</b>   | CFB-UDUB active   |  |
| <b>Comments:</b>                | <p>EDITORS NOTE 2: Stage 1, 2 and 3 descriptions of the call forwarding Supplementary_services are not in line with the pr ETS 300 646-1, item 6.1.1.10 (MSC acts like a diverting exchange according to ETS 300 356-15).</p> <p>The served mobile subscriber has not the ability to decide if the indication that the incoming call is a forwarded call is released to the diverted-to user.</p> |  |

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| 230803                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15]<br>subclause 9.2.2,<br>subclause 9.2.4.3,<br>subclause 9.2.5   | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 2<br>ETS 300 543 [31], subclause 2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/UDI/CFB/TC230803   |  |
| <b>ISDN selection criteria:</b> | Call to a forwarding subscriber (CFB)   |  |
| <b>PLMN selection criteria:</b> | The user B is in network N2 and is provided with CFB- <b>NDUB</b> ("calling user is notified of call diversion" = <b>Yes</b> ; "notification to forwarding subscriber" = <b>Yes</b> ).<br>(Note 2)  |  |
| <b>Test purpose:</b>            | Ensure that when user A calls busy user B, the call is forwarded to user C.<br><br>User <b>A</b> is notified of call diversion.<br><br>User <b>B</b> is notified of call diversion.<br><br>User <b>C receives</b> a SETUP message with the information that the incoming call is a forwarded call.  |  |
| <b>ISDN parameter values:</b>   | <b>A:</b> ! BC=UDI with V.110/X.30 rate adaption;<br><b>C:</b> ? BC=UDI with V.110/X.30 rate adaption;  |  |
| <b>PLMN parameter values:</b>   | CFB-NDUB active   |  |
| <b>Comments:</b>                | EDITORS NOTE 2: Stage 1, 2 and 3 descriptions of the call forwarding Supplementary_services are not in line with the pr ETS 300 646-1, item 6.1.1.10 ETS 300 646-1, item 6.1.1.10 (MSC acts like a diverting exchange according to ETS 300 356-15).<br><br>The served mobile subscriber has not the ability to decide if the indication that the incoming call is a forwarded call is released to the diverted-to user. |  |

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| 230804                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15]<br>subclause 9.2.2,<br>subclause 9.2.4.3,<br>subclause 9.2.5   | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 2<br>ETS 300 543 [31], subclause 2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/UDI/CFB/TC230804   |  |
| <b>ISDN selection criteria:</b> | Call to a forwarding subscriber (CFB)   |  |
| <b>PLMN selection criteria:</b> | The user B is in network N2 and is provided with CFB- <b>NDUB</b> ("calling user is notified of call diversion" = <b>No</b> ; "notification to forwarding subscriber" = <b>No</b> ).<br>(Note 2)  |  |
| <b>Test purpose:</b>            | Ensure that when user A calls busy user B, the call is forwarded to user C.<br><br>User <b>A</b> is not notified of call diversion and not informed of the diverted-to number.<br><br>User <b>B</b> is not notified of call diversion.<br><br>User <b>C receives</b> a SETUP message with the information that the incoming call is a forwarded call. |  |

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| <b>ISDN parameter values:</b> | <b>A:</b> ! BC=UDI with V.110/X.30 rate adaption;<br><b>C:</b> ? BC=UDI with V.110/X.30 rate adaption;  |
| <b>PLMN parameter values:</b> | CFB-NDUB active   |
| <b>Comments:</b>              | EDITORS NOTE 2: Stage 1, 2 and 3 descriptions of the call forwarding Supplementary_services are not in line with the pr ETS 300 646-1, item 6.1.1.10 (MSC acts like a diverting exchange according to ETS 300 356-15)<br><br>The served mobile subscriber has not the ability to decide if the indication that the incoming call is a forwarded call is released to the diverted-to user. |

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| 230901                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15], subclause 9.2.2,<br>subclause 9.2.4.4,<br>subclause 9.2.5  | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 3<br>ETS 300 543 [31], subclause 3 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/UDI/CFNRy/TC230901  |  |
| <b>ISDN selection criteria:</b> | Call to a forwarding subscriber (CFNRy)  |  |
| <b>PLMN selection criteria:</b> | The user B is in network N2 and is provided with CFNRy ("calling user is notified of call diversion" = <b>Yes</b> , "notification to forwarding subscriber" = <b>Yes</b> ). (Note 2)   |  |
| <b>Test purpose:</b>            | Ensure that when user A calls user B, if unanswered, the call is forwarded to user C.<br><br>User <b>A</b> is notified of call diversion. The presentation of the diverted-to number is allowed accordance with the COLR supplementary service of the diverted-to user.<br><br>User <b>B</b> is notified of call diversion.<br><br>User <b>C</b> receives a SETUP message with the information that the incoming call is a forwarded call. |  |
| <b>ISDN parameter values:</b>   | <b>A:</b> ! BC=UDI with V.110/X.30 rate adaption;<br><b>C:</b> ? BC=UDI with V.110/X.30 rate adaption;   |  |
| <b>PLMN parameter values:</b>   | CFNRy active   |  |
| <b>Comments:</b>                | EDITORS NOTE 2: Stage 1, 2 and 3 descriptions of the call forwarding Supplementary_services are not in line with the pr ETS 300 646-1, item 6.1.1.10 (MSC acts like a diverting exchange according to ETS 300 356-15).<br><br>The served mobile subscriber has not the ability to decide if the indication that the incoming call is a forwarded call is released to the diverted-to user.   |  |

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| 230902                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15],<br>subclause 9.2.2,<br>subclause 9.2.4.4,<br>subclause 9.2.5   | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 3<br>ETS 300 543 [31], subclause 3 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/UDI/CFNRy/TC230902  |  |
| <b>ISDN selection criteria:</b> | Call to a forwarding subscriber (CFNRy)  |  |
| <b>PLMN selection criteria:</b> | The user B is in network N2 and is provided with CFNRy ("calling user is notified of call diversion" = <b>No</b> "notification to forwarding subscriber" = <b>No</b> ). (Note 2)   |  |
| <b>Test purpose:</b>            | <p>Ensure that when user A calls user B, if unanswered, the call is forwarded to user C.</p> <p>User <b>A</b> is not notified of call diversion and not informed of the diverted-to number.</p> <p>User <b>B</b> is not notified of call diversion.</p> <p>User <b>C</b> receives a SETUP message with the information that the incoming call is a forwarded call.</p>                           |  |
| <b>ISDN parameter values:</b>   | <p><b>A:</b> ! BC=UDI with V.110/X.30 rate adaption;</p> <p><b>C:</b> ? BC=UDI with V.110/X.30 rate adaption;</p>  |  |
| <b>PLMN parameter values:</b>   | CFNRy active   |  |
| <b>Comments:</b>                | <p>EDITORS NOTE 2: Stage 1, 2 and 3 descriptions of the call forwarding Supplementary_services are not in line with the pr ETS 300 646-1, item 6.1.1.10 (MSC acts like a diverting exchange according to ETS 300 356-15)</p> <p>The served mobile subscriber has not the ability to decide if the indication that the incoming call is a forwarded call is released to the diverted-to user.</p> |  |

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| 231001                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15], subclause 9.2.2,<br>subclause 9.2.4.4,<br>subclause 9.2.5  | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 3<br>ETS 300 543 [31], subclause 3 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/UDI/CFNRc/TC231001  |  |
| <b>ISDN selection criteria:</b> | Call to a forwarding subscriber (CFNRc)  |  |
| <b>PLMN selection criteria:</b> | The user B is in network N2 and is provided with CFNRc ("calling user is notified of call diversion" = <b>Yes</b> ). (Note 2)  |  |
| <b>Test purpose:</b>            | <p>Ensure that when user A calls user B, <b>if detached</b>, the call is forwarded to user C.</p> <p>User <b>A</b> is notified of call diversion.</p> <p>User <b>C</b> receives a SETUP message with the information that the incoming call is a forwarded call.</p> |  |
| <b>ISDN parameter values:</b>   | <p><b>A:</b> ! BC=UDI with V.110/X.30 rate adaption;</p> <p><b>C:</b> ? BC=UDI with V.110/X.30 rate adaption;</p>  |  |
| <b>PLMN parameter values:</b>   | CFNRc active, the user is detached   |  |

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| <b>Comments:</b> | EDITORS NOTE 2: Stage 1, 2 and 3 descriptions of the call forwarding Supplementary_services are not in line with the pr ETS 300 646-1, item 6.1.1.10 (MSC acts like a diverting exchange according to ETS 300 356-15). The served mobile subscriber has not the ability to decide if the indication that the incoming call is a forwarded call is released to the diverted-to user. |
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| 231002                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15],<br>subclause 9.2.2,<br>subclause 9.2.4.4,<br>subclause 9.2.5  | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 3<br>ETS 300 543 [31], subclause 3 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/UDI/CFNRc/TC231002   |  |
| <b>ISDN selection criteria:</b> | Call to a forwarding subscriber (CFNRc)   |  |
| <b>PLMN selection criteria:</b> | The user B is in network N2 and is provided with CFNRc ("calling user is notified of call diversion" = <b>No</b> ). (Note 2)  |  |
| <b>Test purpose:</b>            | <p>Ensure that when user A calls user B, <b>if detached</b> the call is forwarded to user C.</p> <p>User A is not notified of call diversion and not informed of the diverted-to number.</p> <p>User C <b>receives</b> a SETUP message with the information that the incoming call is a forwarded call.</p>   |  |
| <b>ISDN parameter values:</b>   | <p>A: ! BC=UDI with V.110/X.30 rate adaption;</p> <p>C: ? BC=UDI with V.110/X.30 rate adaption;</p>   |  |
| <b>PLMN parameter values:</b>   | CFNRc active, the user is detached  |  |
| <b>Comments:</b>                | EDITORS NOTE 2: Stage 1, 2 and 3 descriptions of the call forwarding Supplementary_services are not in line with the pr ETS 300 646-1, item 6.1.1.10 (MSC acts like a diverting exchange according to ETS 300 356-15). The served mobile subscriber has not the ability to decide if the indication that the incoming call is a forwarded call is released to the diverted-to user. |  |

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| 231101                          | <b>ISDN ref. to:</b><br>ETS 300 286-1 [13],<br>subclause 9.1.1.1,<br>subclause 9.1.2.1<br>EN 300 403-1 [1],<br>subclause 4.5.30  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 10.5.4.25, |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/UDI/UUS1/TC231101   |  |
| <b>ISDN selection criteria:</b> | The calling (served) user is provided with UUS1 implicit request   |  |
| <b>PLMN selection criteria</b>  | UUS1i  |  |
| <b>Test purpose:</b>            | 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 |  |
| <b>ISDN parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption, UI length=32   |  |
| <b>PLMN parameter values</b>    | GSM-BC=UDI with V.110/X.30 rate adaption, UI length=32   |  |
| <b>Comments:</b>                |  |  |

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| 231102                          | <b>ISDN ref. to:</b><br>ETS 300 286-1 [13],<br>subclause 9.1.2.1<br>EN 300 403-1 [1],<br>subclause 4.5.30  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 10.5.4.25 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/UDI/UUS1/TC231102   |   |
| <b>ISDN selection criteria:</b> | The calling (served) user is provided with UUS1 implicit request   |   |
| <b>PLMN selection criteria</b>  | UUS1i  |   |
| <b>Test purpose:</b>            | 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 |   |
| <b>ISDN Parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption, UI length=32   |   |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption, UI length=32   |   |
| <b>Comments:</b>                |  |   |



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| 231103                          | <b>PLMN ref. to:</b><br>ETS 300 286-1 [13],<br>subclause 9.1.2.2.1a<br>EN 300 403-1 [1],<br>subclause 4.5.30   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 10.5.4.25 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/UDI/UUS1/TC231103   |   |
| <b>ISDN selection criteria:</b> | The calling (served) user is <b>provided</b> with UUS1 implicit request  |   |
| <b>PLMN selection criteria:</b> | UUS1i  |   |
| <b>Test purpose:</b>            | 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. |   |
| <b>ISDN parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption, UI length=32   |   |
| <b>PLMN parameter values</b>    | GSM-BC=UDI with V.110/X.30 rate adaption, UI length=32   |   |
| <b>Comments:</b>                |  |   |

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| 231104                          | <b>ISDN ref. to:</b><br>ETS 300 286-1 [13]<br>subclause 9.1.2.2.1b<br>EN 300 403-1 [1],<br>subclause 4.5.30   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 10.5.4.25 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/UDI/UUS1/TC231104  |   |
| <b>ISDN selection criteria:</b> | The calling (served) user is provided with UUS1 implicit request  |   |
| <b>PLMN selection criteria</b>  | UUS1i   |   |
| <b>Test purpose:</b>            | 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. |   |
| <b>ISDN parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption, UI length=32  |   |
| <b>PLMN parameter values</b>    | GSM-BC=UDI with V.110/X.30 rate adaption, UI length=32  |   |
| <b>Comments:</b>                |   |   |

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| 231105                          | <b>ISDN ref. to:</b><br>ETS 300 286-1 [13]<br>subclause 9.1.1.2.2<br>EN 300 403-1 [1], subclause 7   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], 10.5.4.25 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/UDI/UUS1/TC231105   |   |
| <b>ISDN selection criteria:</b> | The calling (served) user is provided with UUS1 implicit request.  |   |
| <b>PLMN selection criteria:</b> | UUS1i  |   |
| <b>Test purpose:</b>            | The requested UUS is not supported in Network B<br><br>Verify that UUI can be discarded by the network without disrupting normal call handling |   |
| <b>ISDN Parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption, UI length=32   |   |
| <b>PLMN parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption   |   |
| <b>Comments:</b>                |  |   |

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| 231201                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15]<br>subclause 9.2.2,<br>subclause 9.2.5   | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 1<br><br>ETS 300 543 [31], subclause 1 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/UDI/CFU_CLI_COL/TC231201   |  |
| <b>ISDN selection criteria:</b> | The user A and the user C are in network N1. User A is provided with COLP, user C is provided with CLIP.  |  |
| <b>PLMN selection criteria:</b> | The user B is in network N2 provided with CFU ("calling user is notified of call diversion" = <b>Yes</b> ). (Note 2)  |  |
| <b>Test purpose:</b>            | Ensure that when user A calls user B, the call is forwarded to user C.<br><br>User A is notified of call diversion.<br><br>The presentation of the diverted-to number is allowed accordance with the COLR supplementary service of the diverted-to user.<br><br>User C can receive the <i>Redirecting number</i> IE giving the reason for call diversion with the presentation indicator set to "presentation allowed". |  |
| <b>ISDN parameter values:</b>   | A: ! BC=UDI with V.110/X.30 rate adaption;<br><br>C: ? BC=UDI with V.110/X.30 rate adaption;  |  |
| <b>PLMN parameter values:</b>   | CFU active  |  |

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| <b>Comments:</b> | <p>User <b>A</b> is notified of call diversion with a Notification indicator IE contained in a NOTIFY or CALL PROCEEDING (state N01), ALERTING, PROGRESS, CONNECT, INFORMATION or NOTIFY (state N03), PROGRESS, CONNECT, INFORMATION or NOTIFY (state N04) message.</p> <p>The presentation of the diverted-to number is allowed accordance with the COLR supplementary service of the diverted-to user. The <b>Redirection number IE</b> with the presentation indicator can be contained in the ALERTING, CONNECT, NOTIFY, INFORMATION or PROGRESS (state N03), CONNECT, NOTIFY, INFORMATION or PROGRESS (state N04) message.</p> <p>User <b>C</b> can receive a SETUP message containing one <b>Redirecting number IE</b> giving the reason for call diversion with the presentation indicator set to "presentation allowed".</p> <p>EDITORS NOTE 2: Stage 1, 2 and 3 descriptions of the call forwarding Supplementary_services are not in line with the pr ETS 300 646-1, item 6.1.1.10 ETS 300 646-1, item 6.1.1.10 (MSC acts like a diverting exchange according to ETS 300 356-15).</p> <p>The served mobile subscriber has not the ability to decide if the indication that the incoming call is a forwarded call is released to the diverted-to user.</p> <p>The setting of the <u>redirecting number</u> to the forwarded-to subscriber in the ISUP signalling of GSM operators has to be considered as an implementation option.</p> |
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| 231202                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15]<br>subclause 9.2.2,<br>subclause 9.2.5  | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 1<br>ETS 300 543 [31], subclause 1 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/UDI/CFU_CLI_COL/TC231202  |  |
| <b>ISDN selection criteria:</b> | The user A and the user C are in network N1. User A is provided with COLP, user C is provided with COLR and CLIP.  |  |
| <b>PLMN selection criteria:</b> | The user B is in network N2 provided with CFU ("calling user is notified of call diversion" = <b>Yes</b> ). (Note 2)   |  |
| <b>Test purpose:</b>            | <p>Ensure that when user A calls user B, the call is forwarded to user C.</p> <p>User <b>A</b> is notified of call diversion.</p> <p>The presentation of the diverted-to number is <b>not</b> allowed accordance with the COLR supplementary service of the diverted-to user.</p> <p>User C can receive the <b>Redirecting number IE</b> giving the reason for call diversion with the presentation indicator set to "presentation allowed".</p> |  |
| <b>ISDN parameter values:</b>   | <p><b>A:</b> ! BC=UDI with V.110/X.30 rate adaption;</p> <p><b>C:</b> ? BC=UDI with V.110/X.30 rate adaption;</p>  |  |
| <b>PLMN parameter values:</b>   | CFU active   |  |

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| <b>Comments:</b> | <p>User <b>A</b> is notified of call diversion with a Notification indicator IE contained in a NOTIFY or CALL PROCEEDING (state N01), ALERTING, PROGRESS, CONNECT, INFORMATION or NOTIFY (state N03), PROGRESS, CONNECT, INFORMATION or NOTIFY (state N04) message.</p> <p>The presentation of the diverted-to number is <b>not</b> allowed accordance with the COLR supplementary service of the diverted-to user.</p> <p>The <b>Redirection number IE</b> with the numbering identification field and the type of number field set to "unknown", without a number digits field and the presentation indicator either set to "presentation restricted" can be included in the ALERTING, CONNECT, NOTIFY or INFORMATION (state N03), CONNECT, NOTIFY or INFORMATION (state N04) message.</p> <p>User C can receive a SETUP message containing one <b>Redirecting number IE</b> giving the reason for call diversion with the presentation indicator set to "presentation allowed".</p> <p>EDITORS NOTE 2: Stage 1, 2 and 3 descriptions of the call forwarding Supplementary_services are not in line with the pr ETS 300 646-1, item 6.1.1.10 ETS 300 646-1, item 6.1.1.10 (MSC acts like a diverting exchange according to ETS 300 356-15).</p> <p>The served mobile subscriber has not the ability to decide if the indication that the incoming call is a forwarded call is released to the diverted-to user.</p> <p>The setting of the <u>redirecting number</u> to the forwarded-to subscriber in the ISUP signalling of GSM operators has to be considered as an implementation option.</p> |
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| 231203                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15]<br>subclause 9.2.2,<br>subclause 9.2.5   | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 1<br>ETS 300 543 [31], subclause 1 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/UDI/CFU/TC231203   |  |
| <b>ISDN selection criteria:</b> | The user A and the user C are in network N1. User A is provided with COLP, user C is provided with CLIP.  |  |
| <b>PLMN selection criteria:</b> | The user B is in network N2 provided with CFU ("calling user is notified of call diversion" = <b>No</b> ) and <b>CLIR</b> . (Note 2)  |  |
| <b>Test purpose:</b>            | <p>Ensure that when user A calls user B, the call is forwarded to user C.</p> <p>User A is not notified of call diversion and not informed of the diverted-to number.</p> <p>User C can receive the <b>Redirecting number IE</b> giving the reason for call diversion with the presentation indicator set to "presentation restricted".</p> |  |
| <b>ISDN parameter values:</b>   | <p><b>A:</b> ! BC=UDI with V.110/X.30 rate adaption;</p> <p><b>C:</b> ? BC=UDI with V.110/X.30 rate adaption;</p>   |  |
| <b>PLMN parameter values:</b>   | CFU active  |  |

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| <b>Comments:</b> | <p>User A is not notified of call diversion and not informed of the diverted-to number. The <b>Redirection number IE</b> shall not be included in the ALERTING, CONNECT, NOTIFY or INFORMATION (state N03), CONNECT, NOTIFY or INFORMATION (state N04) message.</p> <p>User C can receive a SETUP message containing one <b>Redirecting number IE</b> giving the reason for call diversion with the presentation indicator set to "presentation restricted".</p> <p>EDITORS NOTE 2: Stage 1, 2 and 3 descriptions of the call forwarding Supplementary_services are not in line with the pr ETS 300 646-1, item 6.1.1.10 ETS 300 646-1, item 6.1.1.10 (MSC acts like a diverting exchange according to ETS 300 356-15).</p> <p>The served mobile subscriber has not the ability to decide if the indication that the incoming call is a forwarded call is released to the diverted-to user.</p> <p>The setting of the <u>redirecting number</u> to the forwarded-to subscriber in the ISUP signalling of GSM operators has to be considered as an implementation option.</p> |
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| 231301                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15]<br>subclause 9.2.2,<br>subclause 9.2.4.3,<br>subclause 9.2.5  | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 2<br>ETS 300 543 [31], subclause 2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/UDI/CFB_CLI_COL/TC231301  |  |
| <b>ISDN selection criteria:</b> | The user A and the user C are in network N1. User A is provided with COLP, user C is provided with CLIP.   |  |
| <b>PLMN selection criteria:</b> | The user B is in network N2 and is provided with CFB-UDUB ("calling user is notified of call diversion" = <b>Yes</b> );. (Note 2)  |  |
| <b>Test purpose:</b>            | <p>Ensure that when user A calls busy user B, the call is forwarded to user C.</p> <p>User A is notified of call diversion.</p> <p>The presentation of the diverted-to number is allowed accordance with the COLR supplementary service of the diverted-to user.</p> <p>User C can receive a SETUP message containing one <b>Redirecting number IE</b> giving the reason for call diversion with the presentation indicator set to "presentation allowed".</p> |  |
| <b>ISDN parameter values:</b>   | <p>A: ! BC=UDI with V.110/X.30 rate adaption;</p> <p>C: ? BC=UDI with V.110/X.30 rate adaption;</p>  |  |
| <b>PLMN parameter values:</b>   | CFB-UDUB active  |  |

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| <b>Comments:</b> | <p>User <b>A</b> is notified of call diversion with a Notification indicator IE contained in a NOTIFY or CALL PROCEEDING (state N01), ALERTING, PROGRESS, CONNECT, INFORMATION or NOTIFY (state N03), PROGRESS, CONNECT, INFORMATION or NOTIFY (state N04) message.</p> <p>The presentation of the diverted-to number is allowed accordance with the COLR supplementary service of the diverted-to user. The <b>Redirection number IE</b> with the presentation indicator can be contained in the ALERTING, CONNECT, NOTIFY, INFORMATION or PROGRESS(state N03), CONNECT, NOTIFY, INFORMATION or PROGRESS (state N04) message.</p> <p>User C can receive a SETUP message containing one <b>Redirecting number IE</b> giving the reason for call diversion with the presentation indicator set to "presentation allowed"</p> <p>EDITORS NOTE 2: Stage 1, 2 and 3 descriptions of the call forwarding Supplementary_services are not in line with the pr ETS 300 646-1, item 6.1.1.10 ETS 300 646-1, item 6.1.1.10 (MSC acts like a diverting exchange according to ETS 300 356-15)</p> <p>The served mobile subscriber has not the ability to decide if the indication that the incoming call is a forwarded call is released to the diverted-to user.</p> <p>The setting of the <u>redirecting number</u> to the forwarded-to subscriber in the ISUP signalling of GSM operators has to be considered as an implementation option.</p> |
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| 231302                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15]<br>subclause 9.2.2,<br>subclause 9.2.5  | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 1<br>ETS 300 543 [31], subclause 1 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/UDI/CFB_CLI_COL/TC231302  |  |
| <b>ISDN selection criteria:</b> | The user A and the user C are in network N1. User A is provided with COLP, user C is provided with COLR and CLIP.  |  |
| <b>PLMN selection criteria:</b> | The user B is in network N2 provided with CFB-UDUB ("calling user is notified of call diversion" = <b>Yes</b> ). (Note 2)  |  |
| <b>Test purpose:</b>            | <p>Ensure that when user A calls user B, the call is forwarded to user C.</p> <p>User <b>A</b> is notified of call diversion.</p> <p>The presentation of the diverted-to number is <b>not</b> allowed accordance with the COLR supplementary service of the diverted-to user.</p> <p>User C can receive the <b>Redirecting number IE</b> giving the reason for call diversion with the presentation indicator set to "presentation allowed".</p> |  |
| <b>ISDN parameter values:</b>   | <p><b>A:</b> ! BC=UDI with V.110/X.30 rate adaption;</p> <p><b>C:</b> ? BC=UDI with V.110/X.30 rate adaption;</p>  |  |
| <b>PLMN parameter values:</b>   | CFB-UDUB active  |  |

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| <b>Comments:</b> | <p>User <b>A</b> is notified of call diversion with a Notification indicator IE contained in a NOTIFY or CALL PROCEEDING (state N01), ALERTING, PROGRESS, CONNECT, INFORMATION or NOTIFY (state N03), PROGRESS, CONNECT, INFORMATION or NOTIFY (state N04) message.</p> <p>The presentation of the diverted-to number is <b>not</b> allowed accordance with the COLR supplementary service of the diverted-to user.</p> <p>The <b>Redirection number IE</b> with the numbering identification field and the type of number field set to "unknown", without a number digits field and the presentation indicator either set to "presentation restricted" can be included in the ALERTING, CONNECT, NOTIFY or INFORMATION (state N03), CONNECT, NOTIFY or INFORMATION (state N04) message.</p> <p>User C can receive a SETUP message containing one <b>Redirecting number IE</b> giving the reason for call diversion with the presentation indicator set to "presentation allowed".</p> <p>EDITORS NOTE 2: Stage 1, 2 and 3 descriptions of the call forwarding Supplementary_services are not in line with the pr ETS 300 646-1, item 6.1.1.10 ETS 300 646-1, item 6.1.1.10 (MSC acts like a diverting exchange according to ETS 300 356-15).</p> <p>The served mobile subscriber has not the ability to decide if the indication that the incoming call is a forwarded call is released to the diverted-to user.</p> <p>The setting of the <u>redirecting number</u> to the forwarded-to subscriber in the ISUP signalling of GSM operators has to be considered as an implementation option.</p> |
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| 231303                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15]<br>subclause 9.2.2,<br>subclause 9.2.4.3,<br>subclause 9.2.5  | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 2<br>ETS 300 543 [31], subclause 2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/UDI/CFB_CLI_COL/TC231303  |  |
| <b>ISDN selection criteria:</b> | The user A and the user C are in network N1. User A is provided with COLP, user C is provided with CLIP.   |  |
| <b>PLMN selection criteria:</b> | The user B is in network N2 and is provided with CFB-UDUB ("calling user is notified of call diversion" = <b>No</b> ) and <b>CLIR</b> . (Note 2)   |  |
| <b>Test purpose:</b>            | <p>Ensure that when user A calls busy user B, the call is forwarded to user C.</p> <p>User A is not notified of call diversion and not informed of the diverted-to number.</p> <p>User C can receive <b>Redirecting number IE</b> giving the reason for call diversion with the presentation indicator set to "presentation restricted".</p> |  |
| <b>ISDN parameter values:</b>   | <p><b>A:</b> ! BC=UDI with V.110/X.30 rate adaption;</p> <p><b>C:</b> ? BC=UDI with V.110/X.30 rate adaption;</p>  |  |
| <b>PLMN parameter values:</b>   | CFB-UDUB active  |  |

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| <b>Comments:</b> | <p>User A is not notified of call diversion and not informed of the diverted-to number. The <b>Redirection number IE</b> shall not be included in the ALERTING, CONNECT, NOTIFY or INFORMATION (state N03), CONNECT, NOTIFY or INFORMATION (state N04) message.</p> <p>User C can receive a SETUP message containing one <b>Redirecting number IE</b> giving the reason for call diversion with the presentation indicator set to "presentation restricted".</p> <p>EDITORS NOTE 2: Stage 1, 2 and 3 descriptions of the call forwarding Supplementary_services are not in line with the pr ETS 300 646-1, item 6.1.1.10 (MSC acts like a diverting exchange according to ETS 300 356-15).</p> <p>The served mobile subscriber has not the ability to decide if the indication that the incoming call is a forwarded call is released to the diverted-to user.</p> <p>The setting of the <u>redirecting number</u> to the forwarded-to subscriber in the ISUP signalling of GSM operators has to be considered as an implementation option.</p> |
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| 231304                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15]<br>subclause 9.2.2,<br>subclause 9.2.4.3,<br>subclause 9.2.5   | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 2<br>ETS 300 543 [31], subclause 2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/UDI/CFB_CLI_COL/TC231304   |  |
| <b>ISDN selection criteria:</b> | The user A and the user C are in network N1. User A is provided with COLP, user C is provided with CLIP.  |  |
| <b>PLMN selection criteria:</b> | The user B is in network N2 and is provided with CFB-NDUB ("calling user is notified of call diversion" = <b>Yes</b> ; "notification to forwarding subscriber" = <b>Yes</b> ). (Note 2)   |  |
| <b>Test purpose:</b>            | <p>Ensure that when user A calls busy user B, the call is forwarded to user C.</p> <p>User <b>A</b> is notified of call diversion.</p> <p>The presentation of the diverted-to number is allowed accordance with the COLR supplementary service of the diverted-to user.</p> <p>User <b>C</b> can receive the <b>Redirecting number IE</b> giving the reason for call diversion with the presentation indicator set to "presentation allowed".</p> <p>User <b>B</b> is notified of call diversion.</p> |  |
| <b>ISDN parameter values:</b>   | <b>A:</b> ! BC=UDI with V.110/X.30 rate adaption;<br><b>C:</b> ? BC=UDI with V.110/X.30 rate adaption;  |  |
| <b>PLMN parameter values:</b>   | CFB-NDUB active   |  |



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| <b>Comments:</b> | <p>User <b>A</b> is notified of call diversion with a Notification indicator IE contained a NOTIFY or CALL PROCEEDING (state N01), ALERTING, PROGRESS, CONNECT, INFORMATION or NOTIFY (state N03), PROGRESS, CONNECT, INFORMATION or NOTIFY (state N04) message.</p> <p>The presentation of the diverted-to number is allowed accordance with the COLR supplementary service of the diverted-to user. The <b>Redirection number IE</b> with the presentation indicator can be contained in the ALERTING, CONNECT, NOTIFY, INFORMATION or PROGRESS(state N03), CONNECT, NOTIFY, INFORMATION or PROGRESS (state N04) message.</p> <p>User <b>C can receive</b> a SETUP message containing one <b>Redirecting number IE</b> giving the reason for call diversion with the presentation indicator set to "presentation allowed".</p> <p>User <b>B</b> is notified with a FACILITY (Invoke = NotifySS [CFB, SS-Notification ]) message of call diversion.</p> <p>EDITORS NOTE 2: Stage 1, 2 and 3 descriptions of the call forwarding Supplementary_services are not in line with the pr ETS 300 646-1, item 6.1.1.10 ETS 300 646-1, item 6.1.1.10 (MSC acts like a diverting exchange according to ETS 300 356-15).</p> <p>The served mobile subscriber has not the ability to decide if the indication that the incoming call is a forwarded call is released to the diverted-to user.</p> <p>The setting of the <u>redirecting number</u> to the forwarded-to subscriber in the ISUP signalling of GSM operators has to be considered as an implementation option.</p> |
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| 231305                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15],<br>subclause 9.2.2,<br>subclause 9.2.5   | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 1<br>ETS 300 543 [31], subclause 1 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/UDI/CFB_CLI_COL/TC231305  |  |
| <b>ISDN selection criteria:</b> | The user A and the user C are in network N1. User A is provided with CLIR and COLP, user C is provided with COLR and CLIP.   |  |
| <b>PLMN selection criteria:</b> | The user B is in network N2 provided with CFB- <b>NDUB</b> ("calling user is notified of call diversion" = <b>Yes</b> , "notification to forwarding subscriber" = <b>Yes</b> ). (Note 2)   |  |
| <b>Test purpose:</b>            | <p>Ensure that when user A calls user B, the call is forwarded to user C.</p> <p>User <b>A</b> is notified of call diversion</p> <p>The presentation of the diverted-to number is <b>not</b> allowed accordance with the COLR supplementary service of the diverted-to user.</p> <p>User <b>C can receive</b> the <b>Redirecting number IE</b> giving the reason for call diversion with the presentation indicator set to "presentation allowed".</p> <p>User <b>B</b> is notified of call diversion.</p> |  |
| <b>ISDN parameter values:</b>   | <p><b>A:</b> ! BC=UDI with V.110/X.30 rate adaption;</p> <p><b>C:</b> ? BC=UDI with V.110/X.30 rate adaption;</p>  |  |
| <b>PLMN parameter values:</b>   | CFB-NDUB active  |  |

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| <b>Comments:</b> | <p>User <b>A</b> is notified of call diversion with a Notification indicator IE contained in a NOTIFY or CALL PROCEEDING (state N01), ALERTING, PROGRESS, CONNECT, INFORMATION or NOTIFY (state N03), PROGRESS, CONNECT, INFORMATION or NOTIFY (state N04) message.</p> <p>The presentation of the diverted-to number is <b>not</b> allowed accordance with the COLR supplementary service of the diverted-to user.</p> <p>The <b>Redirection number IE</b> with the numbering identification field and the type of number field set to "unknown", without a number digits field and the presentation indicator either set to "presentation restricted" can be included in the ALERTING, CONNECT, NOTIFY or INFORMATION (state N03), CONNECT, NOTIFY or INFORMATION (state N04) message.</p> <p>User <b>C</b> <b>can receive</b> a SETUP message containing one <b>Redirecting number IE</b> giving the reason for call diversion with the presentation indicator set to "presentation allowed".</p> <p>User <b>B</b> is notified with a FACILITY (Invoke = NotifySS [CFB, SS-Notification ]) message of call diversion.</p> <p>EDITORS NOTE 2: Stage 1, 2 and 3 descriptions of the call forwarding Supplementary_services are not in line with the pr ETS 300 646-1, item 6.1.1.10 ETS 300 646-1, item 6.1.1.10 (MSC acts like a diverting exchange according to ETS 300 356-15).</p> <p>The served mobile subscriber has not the ability to decide if the indication that the incoming call is a forwarded call is released to the diverted-to user.</p> <p>The setting of the <u>redirecting number</u> to the forwarded-to subscriber in the ISUP signalling of GSM operators has to be considered as an implementation option.</p> |
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| 231306                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15]<br>subclause 9.2.2,<br>subclause 9.2.4.3,<br>subclause 9.2.5   | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 2<br>ETS 300 543 [31], subclause 2 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/UDI/CFB_CLI_COL/TC231306   |  |
| <b>ISDN selection criteria:</b> | The user A and the user C are in network N1. User A is provided with COLP, user C is provided with CLIP.  |  |
| <b>PLMN selection criteria:</b> | The user B is in network N2 and is provided with CFB- <b>NDUB</b> ("calling user is notified of call diversion" = <b>No</b> ;"notification to forwarding subscriber" = <b>No</b> ) and <b>CLIR</b> . (Note 2)   |  |
| <b>Test purpose:</b>            | <p>Ensure that when user A calls busy user B, the call is forwarded to user C.</p> <p>User <b>A</b> is not notified of call diversion and not informed of the diverted-to number.</p> <p>User <b>C</b> <b>can receive</b> the <b>Redirecting number IE</b> giving the reason for call diversion with the presentation indicator set to "presentation restricted".</p> <p>User <b>B</b> is not notified of call diversion.</p> |  |
| <b>ISDN parameter values:</b>   | <p><b>A:</b> ! BC=UDI with V.110/X.30 rate adaption;</p> <p><b>C:</b> ? BC=UDI with V.110/X.30 rate adaption;</p>   |  |

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| <b>PLMN parameter values:</b> | CFB-NDUB active  |
| <b>Comments:</b>              | <p>User <b>A</b> is not notified of call diversion and not informed of the diverted-to number. The <b>Redirection number IE</b> shall not be included in the ALERTING, CONNECT, NOTIFY or INFORMATION (state N03), CONNECT, NOTIFY or INFORMATION (state N04) message.</p> <p>User <b>C</b> can receive a SETUP message containing one <b>Redirecting number IE</b> giving the reason for call diversion with the presentation indicator set to "presentation restricted".</p> <p>EDITORS NOTE 2: Stage 1, 2 and 3 descriptions of the call forwarding Supplementary_services are not in line with the pr ETS 300 646-1, item 6.1.1.10 (MSC acts like a diverting exchange according to ETS 300 356-15)</p> <p>The served mobile subscriber has not the ability to decide if the indication that the incoming call is a forwarded call is released to the diverted-to user.</p> <p>The setting of the <u>redirecting number</u> to the forwarded-to subscriber in the ISUP signalling of GSM operators has to be considered as an implementation option.</p> |

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| 231401                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1], subclause 9.2.2,<br>subclause 9.2.4.4,<br>subclause 9.2.5   | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 3<br>ETS 300 543 [31], subclause 3 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/UDI/CFNRy_CLI_COL/TC231401   |  |
| <b>ISDN selection criteria:</b> | The user A and the user C are in network N1. User A is provided with COLP, user C is provided with CLIP.  |  |
| <b>PLMN selection criteria:</b> | The user B is in network N2 and is provided with CFNRy ("calling user is notified of call diversion" = <b>Yes</b> , "notification to forwarding subscriber" = <b>Yes</b> ). (Note 2)  |  |
| <b>Test purpose:</b>            | <p>Ensure that when user A calls user B, if unanswered, the call is forwarded to user C.</p> <p>User <b>A</b> is notified of call diversion. The presentation of the diverted-to number is allowed accordance with the COLR supplementary service of the diverted-to user.</p> <p>User <b>C</b> can receive the <b>Redirecting number IE</b> giving the reason for call diversion with the presentation indicator set to "presentation allowed"</p> <p>User <b>B</b> is notified of call diversion.</p> |  |
| <b>ISDN parameter values:</b>   | <p><b>A:</b> ! BC=UDI with V.110/X.30 rate adaption;</p> <p><b>C:</b> ? BC=UDI with V.110/X.30 rate adaption;</p>   |  |
| <b>PLMN parameter values:</b>   | CFNRy active  |  |

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| <b>Comments:</b> | <p>User <b>A</b> is notified of call diversion with a Notification indicator IE contained a NOTIFY or CALL PROCEEDING (state N01), ALERTING, PROGRESS, CONNECT, INFORMATION or NOTIFY (state N03), PROGRESS, CONNECT, INFORMATION or NOTIFY (state N04) message. The presentation of the diverted-to number is allowed accordance with the COLR supplementary service of the diverted-to user. The <b>Redirection number IE</b> with the presentation indicator can be contained in the ALERTING, CONNECT, NOTIFY, INFORMATION or PROGRESS (state N03), CONNECT, NOTIFY, INFORMATION or PROGRESS (state N04) message.</p> <p>User <b>C</b> can receive a SETUP message containing one <i>Redirecting number IE</i> giving the reason for call diversion with the presentation indicator set to "presentation allowed"</p> <p>User <b>B</b> is notified with a NOTIFY (Invoke = NotifySS [CFNRy, SS-Notification ]) message of call diversion.</p> <p>EDITORS NOTE 2: Stage 1, 2 and 3 descriptions of the call forwarding Supplementary_services are not in line with the pr ETS 300 646-1, item 6.1.1.10 (MSC acts like a diverting exchange according to ETS 300 356-15).</p> <p>The served mobile subscriber has not the ability to decide if the indication that the incoming call is a forwarded call is released to the diverted-to user.</p> <p>The setting of the <u>redirecting number</u> to the forwarded-to subscriber in the ISUP signalling of GSM operators has to be considered as an implementation option.</p> |
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| 231402                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15],<br>subclause 9.2.2,<br>subclause 9.2.5   | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 1<br>ETS 300 543 [31], subclause 1 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/UDI/CFNRy_CLI_COL/TC231402  |  |
| <b>ISDN selection criteria:</b> | The user A and the user C are in network N1. User A is provided with CLIR and COLP, user C is provided with COLR and CLIP.   |  |
| <b>PLMN selection criteria:</b> | The user B is in network N2 provided with CFNRy ("calling user is notified of call diversion" = <b>Yes</b> , "notification to forwarding subscriber" = <b>Yes</b> ). (Note 2)  |  |
| <b>Test purpose:</b>            | <p>Ensure that when user A calls user B, the call is forwarded to user C.</p> <p>User <b>A</b> is notified of call diversion.</p> <p>The presentation of the diverted-to number is <b>not</b> allowed accordance with the COLR supplementary service of the diverted-to user.</p> <p>User <b>C</b> can receive a SETUP message containing one <i>Redirecting number IE</i> giving the reason for call diversion with the presentation indicator set to "presentation allowed".</p> <p>User <b>B</b> is notified of call diversion.</p> |  |
| <b>ISDN parameter values:</b>   | <p><b>A:</b> ! BC=UDI with V.110/X.30 rate adaption;</p> <p><b>C:</b> ? BC=UDI with V.110/X.30 rate adaption;</p>  |  |
| <b>PLMN parameter values:</b>   | CFNRy active   |  |

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| <b>Comments:</b> | <p>User <b>A</b> is notified of call diversion with a Notification indicator IE contained in a NOTIFY or CALL PROCEEDING (state N01), ALERTING, PROGRESS, CONNECT, INFORMATION or NOTIFY (state N03), PROGRESS, CONNECT, INFORMATION or NOTIFY (state N04) message.</p> <p>The presentation of the diverted-to number is <b>not</b> allowed accordance with the COLR supplementary service of the diverted-to user.</p> <p>The <b>Redirection number IE</b> with the numbering identification field and the type of number field set to "unknown", without a number digits field and the presentation indicator either set to "presentation restricted" can be included in the ALERTING, CONNECT, NOTIFY or INFORMATION (state N03), CONNECT, NOTIFY or INFORMATION (state N04) message.</p> <p>User <b>C</b> can receive a SETUP message containing one <b>Redirecting number IE</b> giving the reason for call diversion with the presentation indicator set to "presentation allowed".</p> <p>User <b>B</b> is notified with a FACILITY (Invoke = NotifySS [CFNRy, SS-Notification ]) message of call diversion.</p> <p>EDITORS NOTE 2: Stage 1, 2 and 3 descriptions of the call forwarding Supplementary_services are not in line with the pr ETS 300 646-1, item 6.1.1.10 ETS 300 646-1, item 6.1.1.10 (MSC acts like a diverting exchange according to ETS 300 356-15).</p> <p>The served mobile subscriber has not the ability to decide if the indication that the incoming call is a forwarded call is released to the diverted-to user.</p> <p>The setting of the <u>redirecting number</u> to the forwarded-to subscriber in the ISUP signalling of GSM operators has to be considered as an implementation option.</p> |
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| 231403                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 9.2.2,<br>subclause 9.2.4.4,<br>subclause 9.2.5   | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 3<br><br>ETS 300 543 [31], subclause 3 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/UDI/CFNRy_CLI_COL/TC231403  |  |
| <b>ISDN selection criteria:</b> | The user A and the user C are in network N1. User A is provided with COLP, user C is provided with CLIP.   |  |
| <b>PLMN selection criteria:</b> | The user B is in network N2 and is provided with CFNRy ("calling user is notified of call diversion" = <b>No</b> "notification to forwarding subscriber" = <b>No</b> ) and <b>CLIR</b> . (Note 2)  |  |
| <b>Test purpose:</b>            | <p>Ensure that when user A calls user B, if unanswered, the call is forwarded to user C.</p> <p>User <b>A</b> is not notified of call diversion and not informed of the diverted-to number.</p> <p>User <b>C</b> can receive the <b>Redirecting number IE</b> giving the reason for call diversion with the presentation indicator set to "presentation restricted".</p> <p>User <b>B</b> is not notified of call diversion.</p> |  |
| <b>ISDN parameter values:</b>   | <p><b>A:</b> ! BC=UDI with V.110/X.30 rate adaption;</p> <p><b>C:</b> ? BC=UDI with V.110/X.30 rate adaption;</p>  |  |

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| <b>PLMN parameter values:</b> | CFNRy active   |
| <b>Comments:</b>              | <p>User <b>A</b> is not notified of call diversion and not informed of the diverted-to number. The <b>Redirection number IE</b> shall not be included in the ALERTING, CONNECT, NOTIFY or INFORMATION (state N03), CONNECT, NOTIFY or INFORMATION (state N04) message.</p> <p>User <b>C</b> can receive a SETUP message containing one <b>Redirecting number IE</b> giving the reason for call diversion with the presentation indicator set to "presentation restricted".</p> <p>EDITORS NOTE 2: Stage 1, 2 and 3 descriptions of the call forwarding Supplementary_services are not in line with the pr ETS 300 646-1, item 6.1.1.10 (MSC acts like a diverting exchange according to ETS 300 356-15)</p> <p>The served mobile subscriber has not the ability to decide if the indication that the incoming call is a forwarded call is released to the diverted-to user.</p> <p>The setting of the <u>redirecting number</u> to the forwarded-to subscriber in the ISUP signalling of GSM operators has to be considered as an implementation option.</p> |

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| 231501                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1], subclause 9.2.2,<br>subclause 9.2.4.4,<br>subclause 9.2.5   | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 3<br>ETS 300 543 [31], subclause 3 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/UDI/CFNRc_CLI_COL/TC231501   |  |
| <b>ISDN selection criteria:</b> | The user A and the user C are in network N1. User A is provided with COLP, user C is provided with CLIP.  |  |
| <b>PLMN selection criteria:</b> | The user B is in network N2 and is provided with CFNRc ("calling user is notified of call diversion" = <b>Yes</b> ). (Note 2)   |  |
| <b>Test purpose:</b>            | <p>Ensure that when user A calls user B, if detached, the call is forwarded to user C.</p> <p>User <b>A</b> is notified of call diversion.</p> <p>The presentation of the diverted-to number is allowed accordance with the COLR supplementary service of the diverted-to user.</p> <p>User <b>C</b> can receive the <b>Redirecting number IE</b> giving the reason for call diversion with the presentation indicator set to "presentation allowed".</p> |  |
| <b>ISDN parameter values:</b>   | <p><b>A:</b> ! BC=UDI with V.110/X.30 rate adaption;</p> <p><b>C:</b> ? BC=UDI with V.110/X.30 rate adaption;</p>   |  |
| <b>PLMN parameter values:</b>   | CFNRc active, the user is detached  |  |

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| <b>Comments:</b> | <p>User <b>A</b> is notified of call diversion with a Notification indicator IE contained a NOTIFY or CALL PROCEEDING (state N01), ALERTING, PROGRESS, CONNECT, INFORMATION or NOTIFY (state N03), PROGRESS, CONNECT, INFORMATION or NOTIFY (state N04) message.</p> <p>The presentation of the diverted-to number is allowed accordance with the COLR supplementary service of the diverted-to user. The <b>Redirection number IE</b> with the presentation indicator can be contained in the ALERTING, CONNECT, NOTIFY, INFORMATION or PROGRESS (state N03), CONNECT, NOTIFY, INFORMATION or PROGRESS (state N04) message.</p> <p>User <b>C can receive</b> a SETUP message containing one <i>Redirecting number IE</i> giving the reason for call diversion with the presentation indicator set to "presentation allowed".</p> <p>EDITORS NOTE 2: Stage 1, 2 and 3 descriptions of the call forwarding Supplementary_services are not in line with the pr ETS 300 646-1, item 6.1.1.10 (MSC acts like a diverting exchange according to ETS 300 356-15). The served mobile subscriber has not the ability to decide if the indication that the incoming call is a forwarded call is released to the diverted-to user.</p> <p>The setting of the <u>redirecting number</u> to the forwarded-to subscriber in the ISUP signalling of GSM operators has to be considered as an implementation option.</p> |
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| 231502                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15],<br>subclause 9.2.2,<br>subclause 9.2.5   | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 1<br>ETS 300 543 [31], subclause 1 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/UDI/CFNRc_CLI_COL/TC231502  |  |
| <b>ISDN selection criteria:</b> | The user A and the user C are in network N1. User A is provided with COLP, user C is provided with COLR and CLIP.  |  |
| <b>PLMN selection criteria:</b> | The user B is in network N2 provided with CFNRc ("calling user is notified of call diversion" = <b>Yes</b> ). (Note 2)   |  |
| <b>Test purpose:</b>            | <p>Ensure that when user A calls user B, if detached the call is forwarded to user C. User <b>A</b> is notified of call diversion.</p> <p>The presentation of the diverted-to number is <b>not</b> allowed accordance with the COLR supplementary service of the diverted-to user.</p> <p>User C <b>can receive</b> the <i>Redirecting number IE</i> giving the reason for call diversion with the presentation indicator set to "presentation allowed".</p> |  |
| <b>ISDN parameter values:</b>   | <p><b>A:</b> ! BC=UDI with V.110/X.30 rate adaption;</p> <p><b>C:</b> ? BC=UDI with V.110/X.30 rate adaption;</p>  |  |
| <b>PLMN parameter values:</b>   | CFNRc active, the user is detached   |  |

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| <b>Comments:</b> | <p>User <b>A</b> is notified of call diversion with a Notification indicator IE contained in a NOTIFY or CALL PROCEEDING (state N01), ALERTING, PROGRESS, CONNECT, INFORMATION or NOTIFY (state N03), PROGRESS, CONNECT, INFORMATION or NOTIFY (state N04) message.</p> <p>The presentation of the diverted-to number is <b>not</b> allowed accordance with the COLR supplementary service of the diverted-to user.</p> <p>The <b>Redirection number IE</b> with the numbering identification field and the type of number field set to "unknown", without a number digits field and the presentation indicator either set to "presentation restricted" can be included in the ALERTING, CONNECT, NOTIFY or INFORMATION (state N03), CONNECT, NOTIFY or INFORMATION (state N04) message.</p> <p>User C can receive a SETUP message containing one <b>Redirecting number IE</b> giving the reason for call diversion with the presentation indicator set to "presentation allowed".</p> <p>EDITORS NOTE 2: Stage 1, 2 and 3 descriptions of the call forwarding Supplementary_services are not in line with the pr ETS 300 646-1, item 6.1.1.10 ETS 300 646-1, item 6.1.1.10 (MSC acts like a diverting exchange according to ETS 300 356-15).</p> <p>The served mobile subscriber has not the ability to decide if the indication that the incoming call is a forwarded call is released to the diverted-to user.</p> <p>The setting of the <u>redirecting number</u> to the forwarded-to subscriber in the ISUP signalling of GSM operators has to be considered as an implementation option.</p> |
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| 231503                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15],<br>subclause 9.2.2,<br>subclause 9.2.4.4,<br>subclause 9.2.5   | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 3<br>ETS 300 543 [31], subclause 3 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/UDI/CFNRc_CLI_COL/TC231503  |  |
| <b>ISDN selection criteria:</b> | The user A and the user C are in network N1. User A is provided with COLP, user C is provided with CLIP.   |  |
| <b>PLMN selection criteria:</b> | The user B is in network N2 and is provided with CFNRc ("calling user is notified of call diversion" = <b>No</b> ) and <b>CLIR</b> .(Note 2)   |  |
| <b>Test purpose:</b>            | <p>Ensure that when user A calls user B, if detached the call is forwarded to user C.</p> <p>User <b>A</b> is not notified of call diversion and not informed of the diverted-to number.</p> <p>User <b>C can receive</b> the <i>Redirecting number</i> IE giving the reason for call diversion with the presentation indicator set to "presentation restricted".</p>  |  |
| <b>ISDN parameter values:</b>   | <p><b>A:</b> ! BC=UDI with V.110/X.30 rate adaption;</p> <p><b>C:</b> ? BC=UDI with V.110/X.30 rate adaption;</p>  |  |
| <b>PLMN parameter values:</b>   | CFNRc active, the user is detached   |  |
| <b>Comments:</b>                | <p>User <b>A</b> is not notified of call diversion and not informed of the diverted-to number. The <b>Redirection number</b> IE shall not be included in the ALERTING, CONNECT, NOTIFY or INFORMATION (state N03), CONNECT, NOTIFY or INFORMATION (state N04) message.</p> <p>User <b>C can receive</b> a SETUP message containing one <i>Redirecting number</i> IE giving the reason for call diversion with the presentation indicator set to "presentation restricted".</p> <p>EDITORS NOTE 2: Stage 1, 2 and 3 descriptions of the call forwarding Supplementary_services are not in line with the pr ETS 300 646-1, item 6.1.1.10 (MSC acts like a diverting exchange according to ETS 300 356-15). The served mobile subscriber has not the ability to decide if the indication that the incoming call is a forwarded call is released to the diverted-to user.</p> <p>The setting of the <u>redirecting number</u> to the forwarded-to subscriber in the ISUP signalling of GSM operators has to be considered as an implementation option.</p> |  |

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| 231601                          | <b>ISDN ref. to:</b><br>ETS 300 138-1 [10]   | <b>PLMN ref. to:</b><br>ETS 300 518 [30] |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/UDI/CUG_CFU/TC231601  |  |
| <b>ISDN selection criteria:</b> | CUG  |  |
| <b>PLMN selection criteria:</b> | CUG, CFU   |  |
| <b>Test purpose:</b>            | ISDN user A, ISDN user C and PLMN user B belong to the same CUG. No other CUG parameter are allocated to any of the users. B has an active call forwarding to C. Ensure that a call establishment is successful. |  |
| <b>ISDN parameter values:</b>   | BC= UDI with V.110/X.30 rate adaption  |  |
| <b>PLMN parameter values:</b>   | GSM-BC= UDI with V.110/X.30 rate adaption  |  |
| <b>Comments:</b>                | On PLMN side CUG SS according to the Stage 1 description.  |  |

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| 231602                          | <b>ISDN ref. to:</b><br>ETS 300 138-1 [10]  | <b>PLMN ref. to:</b><br>ETS 300 518 [30] |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/UDI/CUG_CFU/TC231602   |  |
| <b>ISDN selection criteria:</b> | CUG   |  |
| <b>PLMN selection criteria:</b> | CUG, CFU  |  |
| <b>Test purpose:</b>            | ISDN user A and PLMN user B belong to the same CUG. ISDN user C does not belong to the CUG. No other CUG parameter are allocated to any of the users. B has an active call forwarding to C. Ensure that a call establishment is not successful. The network initiate call clearing to the calling user A with cause value #87 "user not member of CUG". |  |
| <b>ISDN parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption  |  |
| <b>PLMN parameter values:</b>   |   |  |
| <b>Comments:</b>                | On PLMN side CUG SS according to the Stage 1 description.   |  |

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| 231603                          | <b>ISDN ref. to:</b><br>ETS 300 138-1 [10]  | <b>PLMN ref. to:</b><br>ETS 300 518 [30] |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/UDI/CUG_CFU/TC231603   |  |
| <b>ISDN selection criteria:</b> | CUG   |  |
| <b>PLMN selection criteria:</b> | CUG, CFU  |  |
| <b>Test purpose:</b>            | ISDN user A and PLMN user B belong to the same CUG. Additionally B has the CUG parameter OA = "allowed" and an active call forwarding to ISDN user C. C is not member of the CUG. Ensure that a call establishment is not successful. The network initiate call clearing to the calling user A with cause value #87 "user not member of CUG". |  |
| <b>ISDN parameter values:</b>   | BC= UDI with V.110/X.30 rate adaption   |  |
| <b>PLMN parameter values:</b>   |   |  |
| <b>Comments:</b>                | On PLMN side CUG SS according to the Stage 1 description.   |  |

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| 231604                          | <b>ISDN ref. to:</b><br>ETS 300 138-1 [10]  | <b>PLMN ref. to:</b><br>ETS 300 518 [30] |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/Speech/CUG_CFU/TC231604  |  |
| <b>PLMN selection criteria:</b> | CUG, CFU  |  |
| <b>Test purpose:</b>            | ISDN user A and PLMN user B belong to the same CUG. Additionally A has the CUG parameter OA = "allowed". User B has an active call forwarding to ISDN user C, which is not member of the CUG. Ensure that a call establishment is not successful. The network initiate call clearing to the calling user A with cause value #87 "user not member of CUG". |  |
| <b>ISDN parameter values:</b>   | BC= UDI with V.110/X.30 rate adaption   |  |
| <b>PLMN parameter values:</b>   |   |  |
| <b>Comments:</b>                | On PLMN side CUG SS according to the Stage 1 description.   |  |

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| 231605                          | <b>ISDN ref. to:</b><br>ETS 300 138-1 [10]   | <b>PLMN ref. to:</b><br>ETS 300 518 [30] |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/UDI/CUG_CFU/TC231605  |  |
| <b>ISDN selection criteria:</b> | CUG  |  |
| <b>PLMN selection criteria:</b> | CUG, CFU   |  |
| <b>Test purpose:</b>            | ISDN user A, PLMN user B and ISDN user C belong to the same CUG. Additionally A has the CUG parameter OA = "allowed". User B has an active call forwarding to ISDN user C. Ensure that a call establishment is successful but the OA indicator is not provided to C. |  |
| <b>ISDN parameter values:</b>   | BC = UDI with V.110/X.30 rate adaption   |  |
| <b>PLMN parameter values:</b>   | GSM-BC = UDI with V.110/X.30 rate adaption   |  |
| <b>Comments:</b>                | On PLMN side CUG SS according to the Stage 1 description.  |  |

## NON-SYMMETRICAL TESTS

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| 240101                          | <b>ISDN ref. to:</b><br>ETS 300 286-1 [13]<br>subclause 9.1.1.2.2<br>EN 300 403-1 [1], subclause 7  | <b>PLMN ref. to:</b><br>300 646-1, subclause 6.1.1.4 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/UDI/UUS1/TC240101  |  |
| <b>ISDN selection criteria:</b> | UU1e  |  |
| <b>PLMN selection criteria:</b> | UUS is implicit rejected  |  |
| <b>Test purpose:</b>            | The calling (served) user is provided with UUS1 explicit request as preferred (not-essential). Verify that the UUS service 1 explicit can be correctly implicitly rejected in the PLMN. |  |
| <b>ISDN Parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption  |  |
| <b>PLMN parameter values:</b>   |   |  |
| <b>Comments:</b>                |   |  |

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| 240102                          | <b>ISDN ref. to:</b><br>ETS 300 286-1 [13]<br>subclause 9.1.1.2.2<br>EN 300 403-1 [1], subclause 7   | <b>PLMN ref. to:</b><br>300 646-1, subclause 6.1.1.4 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/UDI/UUS1/TC240102   |  |
| <b>ISDN selection criteria:</b> | UUS1e  |  |
| <b>PLMN selection criteria:</b> | UUS is explicit rejected   |  |
| <b>Test purpose:</b>            | The calling (served) user is provided with UUS1 explicit request as preferred (not-essential). Verify that the UUS1 is explicitly discarded without disrupting the call establishment. |  |
| <b>ISDN Parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption   |  |
| <b>PLMN parameter values:</b>   |  |  |
| <b>Comments:</b>                |  |  |

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| 240103                          | <b>ISDN ref. to:</b><br>ETS 300 286-1 [13]<br>subclause 9.1.1.2.2<br>EN 300 403-1 [1], subclause 7  | <b>PLMN ref. to:</b><br>300 646-1, subclause 6.1.1.4 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/UDI/UUS1/TC240103  |  |
| <b>ISDN selection criteria:</b> | UUS1e   |  |
| <b>PLMN selection criteria:</b> |   |  |
| <b>Test purpose:</b>            | The calling (served) user is provided with UUS1 explicit request as required (essential).<br><br>Ensure that after explicit request of UUS1 indicating "required", the destination network rejects the UUS1 request and initiates call clearing to the calling user with cause value #69 "requested facility not implemented" or cause value #29 "facility rejected". |  |
| <b>ISDN Parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption  |  |
| <b>PLMN parameter values:</b>   |   |  |
| <b>Comments:</b>                |   |  |

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| 240104                          | <b>ISDN ref. to:</b><br>ETS 300 286-1 [13],<br>subclause 9.1.1.2.2<br>EN 300 403-1 [1], subclause 7  | <b>PLMN ref. to:</b><br>ETS 300 646-1 subclause 6.1.1.4 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/UDI/UUS2/TC240104   |   |
| <b>ISDN selection criteria:</b> | UUS2   |   |
| <b>PLMN selection criteria:</b> | UUS is implicit rejected   |   |
| <b>Test purpose:</b>            | The calling (served) user is provided with UUS2 explicit request as preferred (not-essential). Verify that the UUS2 implicit network rejection can be correctly handled. |   |
| <b>ISDN Parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption   |   |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption   |   |
| <b>Comments:</b>                |  |   |

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| 240105                          | <b>ISDN ref. to:</b><br>ETS 300 286-1 [13],<br>subclause 9.1.1.2.2<br>EN 300 403-1 [1], subclause 7   | <b>PLMN ref. to:</b><br>ETS 300 646-1 subclause 6.1.1.4 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/UDI/UUS2/TC240105  |   |
| <b>ISDN selection criteria:</b> | UUS2  |   |
| <b>PLMN selection criteria:</b> | UUS is explicit rejected  |   |
| <b>Test purpose:</b>            | The calling (served) user is provided with UUS2 explicit request as preferred (not-essential). Verify that the UUS 2 is explicitly discarded without disrupting the call establishment. |   |
| <b>ISDN Parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption  |   |
| <b>Comments:</b>                |   |   |

|                                 |  |   |
|---------------------------------|--|---|
| 240106                          | <b>ISDN ref. to:</b><br>ETS 300 286-1 [13],<br>subclause 9.1.1.2.2<br>EN 300 403-1 [1], subclause 7  | <b>PLMN ref. to:</b><br>ETS 300 646-1 subclause 6.1.1.4 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/UDI/UUS1/TC240106   |   |
| <b>ISDN selection criteria:</b> | UUS2   |   |
| <b>PLMN selection criteria:</b> |  |   |
| <b>Test purpose:</b>            | The calling (served) user is provided with UUS2 explicit request as required (essential). Ensure that after explicit request of UUS2 indicating "required", the destination network rejects the UUS2 request and initiates call clearing to the calling user with cause value #69 "requested facility not implemented" or cause value #29 "facility rejected". |   |
| <b>ISDN Parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption   |   |
| <b>PLMN parameter values:</b>   |  |   |
| <b>Comments:</b>                |  |   |

|                                 |   |   |
|---------------------------------|---|---|
| 240107                          | <b>ISDN ref. to:</b><br>ETS 300 286-1 [13],<br>subclause 9.1.1.2.2<br>EN 300 403-1 [1], subclause 7   | <b>PLMN ref. to:</b><br>ETS 300 646-1 subclause 6.1.1.4 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/UDI/UUS3/TC240107  |   |
| <b>ISDN selection criteria:</b> | UUS3  |   |
| <b>PLMN selection criteria:</b> | UUS is implicit rejected  |   |
| <b>Test purpose:</b>            | The calling (served) user is provided with UUS3 explicit request as preferred (not-essential), request during call establishment.<br><br>To verify that the UUS3 implicit network rejection can be correctly handled. |   |
| <b>ISDN Parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption  |   |
| <b>Comments:</b>                |   |   |

|                                 |   |   |
|---------------------------------|---|---|
| 240108                          | <b>ISDN ref. to:</b><br>ETS 300 286-1 [13],<br>subclause 9.1.1.2.2<br>EN 300 403-1 [1], subclause 7   | <b>PLMN ref. to:</b><br>ETS 300 646-1 subclause 6.1.1.4 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/UDI/UUS3/TC240108  |   |
| <b>ISDN selection criteria:</b> | UUS3  |   |
| <b>PLMN selection criteria:</b> | UUS is explicit rejected  |   |
| <b>Test purpose:</b>            | The calling (served) user is provided with UUS3 explicit request as preferred (not-essential), request during call establishment. Verify that the UUS3 is explicitly discarded without disrupting the call establishment. |   |
| <b>ISDN Parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption  |   |
| <b>Comments:</b>                |   |   |

|                                 |  |   |
|---------------------------------|--|---|
| 240109                          | <b>ISDN ref. to:</b><br>ETS 300 286-1 [13],<br>subclause 9.1.1.2.2<br>EN 300 403-1 [1], subclause 7  | <b>PLMN ref. to:</b><br>ETS 300 646-1 subclause 6.1.1.4 |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/UDI/UUS3/TC240109   |   |
| <b>ISDN selection criteria:</b> | UUS3   |   |
| <b>PLMN selection criteria:</b> |  |   |
| <b>Test purpose:</b>            | The calling (served) user is provided with UUS3 explicit request as required (essential), request during call establishment.<br><br>Ensure that after explicit request of UUS3 indicating "required", the destination network rejects the UUS3 request and initiates call clearing to the calling user with cause value #69 "requested facility not implemented" or cause value #29 "facility rejected". |   |
| <b>ISDN Parameter values:</b>   | BC= UDI with V.110/X.30 rate adaption  |   |
| <b>PLMN parameter values:</b>   |  |   |
| <b>Comments:</b>                |  |   |



|                                 |  |                      |
|---------------------------------|--|----------------------|
| 240201                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1]   | <b>PLMN ref. to:</b> |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/UDI/Call Barring/TC240201   |                      |
| <b>ISDN selection criteria:</b> |  |                      |
| <b>PLMN selection criteria:</b> | The Network B supports BAIC.   |                      |
| <b>Test purpose:</b>            | Ensure that when the called user activates barring of all incoming calls, call establishment is not possible and the network initiate call clearing to the calling user. |                      |
| <b>ISDN parameter values:</b>   | BC= UDI with V.110/X.30 rate adaption  |                      |
| <b>PLMN parameter values:</b>   |  |                      |
| <b>Comments:</b>                | EDITORS NOTE 3: The cause value with witch the call shall be rejected is not defined.  |                      |

|                                 |  |                      |
|---------------------------------|--|----------------------|
| 240202                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1]   | <b>PLMN ref. to:</b> |
| <b>TSS reference:</b>           | ISDN-PLMN/Supplementary_services/UDI/Call Barring/TC240202   |                      |
| <b>ISDN selection criteria:</b> |  |                      |
| <b>PLMN selection criteria:</b> | The Network B supports barring of all incoming calls BAIC and barring of incoming calls when roaming outside the home PLMN country (BIC-Roam). The MS is roaming outside the home PLMN country.  |                      |
| <b>Test purpose:</b>            | Ensure that when the called user activates barring of incoming calls when roaming outside the home PLMN country was already activated, barring of incoming calls when roaming outside the home PLMN country will be deactivated and barring of all incoming calls will be activated.<br><br>Call establishment is not possible and the network initiate call clearing to the calling user. |                      |
| <b>ISDN parameter values:</b>   | BC= UDI with V.110/X.30 rate adaption  |                      |
| <b>PLMN parameter values:</b>   |  |                      |
| <b>Comments:</b>                | EDITORS NOTE 3: The cause value with witch the call shall be rejected is not defined.  |                      |

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

## B-channel end-to-end performance

|                                 |  |  |
|---------------------------------|--|--|
| 310101                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1]   | <b>PLMN ref. to:</b> ETS 300 557 [35]<br><br>ITU-T Rec. G. 101 |
| <b>TSS reference:</b>           | ISDN-PLMN/ B-channel end-to-end performance /Speech/TC310101                             |  |
| <b>ISDN selection criteria:</b> | B - channel transmission   |  |
| <b>PLMN selection criteria:</b> | Voice transmission   |  |
| <b>Test purpose:</b>            | To ensure that speech transfer on the B-channel is performed correctly.                  |  |
| <b>ISDN parameter values:</b>   | BC= speech   |  |
| <b>PLMN parameter values:</b>   |  |  |
| <b>Comments:</b>                | The tests should be based on the E-Model described in the ITU-T Rec. G. 101, Appendix I. |  |

|                                 |  |  |
|---------------------------------|--|--|
| 310201                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1]   | <b>PLMN ref. to:</b> ETS 300 557 [35]<br><br>ITU-T Rec. G. 101 |
| <b>TSS reference:</b>           | ISDN-PLMN/ B-channel end-to-end performance /3,1 kHz audio/TC310201                      |  |
| <b>ISDN selection criteria:</b> | B - channel transmission   |  |
| <b>PLMN selection criteria:</b> | Data transmission  |  |
| <b>Test purpose:</b>            | To ensure that speech transfer on the B-channel is performed correctly.                  |  |
| <b>ISDN parameter values:</b>   | BC= 3,1 kHz audio  |  |
| <b>PLMN parameter values:</b>   |  |  |
| <b>Comments:</b>                | The tests should be based on the E-Model described in the ITU-T Rec. G. 101, Appendix I. |  |

|                                 |  |  |
|---------------------------------|--|--|
| 310301                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1]   | <b>PLMN ref. to:</b><br>ETS 300 557 [35]<br>ETS 300 578 [55] |
| <b>TSS reference:</b>           | ISDN-PLMN/ B-channel end-to-end performance /UDI/TC310301  |  |
| <b>ISDN selection criteria:</b> | B - channel transmission   |  |
| <b>PLMN selection criteria:</b> | Data transmission  |  |
| <b>Test purpose:</b>            | To verify compliance with the requirements for error and octet slip for the first or the last continuous 24 hour period. |  |
| <b>ISDN parameter values:</b>   | BC = UDI, V.110/X.30 synchronous mode; PRBS=2 <sup>11</sup> -1   |  |
| <b>PLMN parameter values:</b>   |  |  |
| <b>Comments:</b>                | The tests should be based on the requirements described in the ETS 300 578 [55]  |  |

## 6.2.4 Test purposes for PSTN-PLMN, Basic call

### 6.2.4.1 Successful

|                   |
|-------------------|
| <b>Successful</b> |
| <b>PSTN</b>       |

|                                 |  |  |
|---------------------------------|--|--|
| 410101                          | <b>PSTN ref. to:</b><br>ETS 300 001  | <b>PLMN ref. to:</b><br>ETS 300 557 [35]<br>ETS 300 604 [42], subclause 9.2.2 a,<br>subclause 10.2.2 |
| <b>TSS reference:</b>           | PSTN-PLMN/Basic_call/Successful/TC410101   |  |
| <b>PSTN selection criteria:</b> | Call establishment to a PLMN user  |  |
| <b>PLMN selection criteria:</b> | Multi-numbering Scheme, TS 11  |  |
| <b>Test purpose:</b>            | Ensure that call is delivered to the called PLMN user correctly.                                 |  |
| <b>PSTN parameter values:</b>   |  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |  |
| <b>Comments:</b>                | The call set-up to the mobile will contain a GSM BC mapped from the BC/LLC/HLC stored in the VLR |  |

|                                 |  |  |
|---------------------------------|--|--|
| 410102                          | <b>PSTN ref. to:</b><br>ETS 300 001  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.2<br>ETS 300 604 [42], subclause 9.2.2 b |
| <b>TSS reference:</b>           | PSTN-PLMN/Basic_call/Successful/TC410102   |  |
| <b>PSTN selection criteria:</b> | Call establishment to a PLMN user  |  |
| <b>PLMN selection criteria:</b> | PSTN, Single-numbering Scheme  |  |
| <b>Test purpose:</b>            | Ensure that call is delivered to the called PLMN user correctly (single-numbering scheme). |  |
| <b>PSTN parameter values:</b>   |  |  |
| <b>PLMN parameter values:</b>   |  |  |
| <b>Comments:</b>                | The call set-up to the mobile will not contain a GSM BC element.                           |  |

|                                 |  |   |
|---------------------------------|--|---|
| 410103                          | <b>PSTN ref. to:</b><br>ETS 300 001  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.2<br>ETS 300 604 [42], subclause 9.2.2 a,<br>subclause 10.2.2 |
| <b>TSS reference:</b>           | PSTN-PLMN/Basic_call/Successful/TC410103   |   |
| <b>PSTN selection criteria:</b> | Call establishment to a PLMN user  |   |
| <b>PLMN selection criteria:</b> | Multi-numbering Scheme, TS 11  |   |
| <b>Test purpose:</b>            | Ensure that the clearing procedure is performed correctly when the calling user clears the call after answering. |   |
| <b>PSTN parameter values:</b>   |  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |   |
| <b>Comments:</b>                | The call set-up to the mobile will contain a GSM BC mapped from the BC/LLC/HLC stored in the VLR                 |   |

|                                 |   |  |
|---------------------------------|---|--|
| 410104                          | <b>PSTN ref. to:</b><br>ETS 300 001   | <b>PLMN ref. to:</b><br>ETS 300 557 [35]<br><br>ETS 300 604 [42], subclause 9.2.2 a,<br>subclause 10.2.2 |
| <b>TSS reference:</b>           | PSTN-PLMN/Basic_call/Successful/TC410104  |  |
| <b>PSTN selection criteria:</b> | Call establishment to a PLMN user   |  |
| <b>PLMN selection criteria:</b> | Multi-numbering Scheme, TS 11   |  |
| <b>Test purpose:</b>            | Ensure that the clearing procedure is performed correctly when the called PLMN user clears the call after answering |  |
| <b>PSTN parameter values:</b>   |   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |  |
| <b>Comments:</b>                | The call set-up to the mobile will contain a GSM BC mapped from the BC/LLC/HLC stored in the VLR                    |  |

#### 6.2.4.2 Unsuccessful

|                     |
|---------------------|
| <b>PSTN</b>         |
| <b>UNSUCCESSFUL</b> |

|                                 |  |  |
|---------------------------------|--|--|
| 420101                          | <b>PSTN ref. to:</b><br>ETS 300 001  | <b>PLMN ref. to:</b><br>ETS 300 557 [35] Annex H 1.7 |
| <b>TSS reference:</b>           | PSTN-PLMN/Basic_call/Unsuccessful/TC420101   |  |
| <b>PSTN selection criteria:</b> | Call establishment to a PLMN user  |  |
| <b>PLMN selection criteria:</b> | Multi-numbering Scheme, TS 11  |  |
| <b>Test purpose:</b>            | Ensure that when the called PLMN user is busy (UDUB), the calling user receives a busy tone  |  |
| <b>PSTN parameter values:</b>   |  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |  |
| <b>Comments:</b>                | <p>The call set-up to the mobile will contain a GSM BC mapped from the BC/LLC/HLC stored in the VLR.</p> <p>After receiving the SETUP message, the MS replies immediately with a RELEASE COMPLETE (#17 "user busy").</p> |  |

|                                 |   |  |
|---------------------------------|---|--|
| 420102                          | <b>PSTN ref. to:</b><br>ETS 300 001   | <b>PLMN ref. to:</b><br>ETS 300 557 [35] Annex H 1.7 |
| <b>TSS reference:</b>           | PSTN-PLMN/Basic_call/Unsuccessful/TC420102  |  |
| <b>PSTN selection criteria:</b> | Call establishment to a PLMN user   |  |
| <b>PLMN selection criteria:</b> |   |  |
| <b>Test purpose:</b>            | Ensure that when the called PLMN user is busy (NDUB), the calling user receives a busy tone |  |
| <b>PSTN parameter values:</b>   |   |  |
| <b>PLMN parameter values:</b>   |   |  |
| <b>Comments:</b>                |   |  |

|                                 |  |   |
|---------------------------------|--|---|
| 420103                          | <b>PSTN ref. to:</b><br>ETS 300 001  | <b>PLMN ref. to:</b><br>ETS 300 599 [41], subclause 18.2, subclause 18.3.2<br>ETS 300 557 [35], Annex H.1.7 |
| <b>TSS reference:</b>           | PSTN-PLMN/Basic_call/Unsuccessful/TC420103   |   |
| <b>PSTN selection criteria:</b> | Call establishment to a PLMN user  |   |
| <b>PLMN selection criteria:</b> |  |   |
| <b>Test purpose:</b>            | The PLMN Subscriber is in mode "detached". The GMSC will be informed by the HLR (MAP Error #18) that the subscriber cannot be reached. The network initiates call clearing to the calling user with cause value #20 "Subscriber absent". The calling user receives an announcement that the called number cannot be reached. |   |
| <b>PSTN parameter values:</b>   |  |   |
| <b>PLMN parameter values:</b>   |  |   |
| <b>Comments:</b>                |  |   |

|                                 |  |   |
|---------------------------------|--|---|
| 420104                          | <b>PSTN ref. to:</b><br>ETS 300 001  | <b>PLMN ref. to: ref. to:</b><br>ETS 300 557 [35] |
| <b>TSS reference:</b>           | PSTN-PLMN/Basic_call/Unsuccessful/TC420104   |   |
| <b>PSTN selection criteria:</b> | Call establishment to a PLMN user  |   |
| <b>PLMN selection criteria:</b> |  |   |
| <b>Test purpose:</b>            | Ensure that when calling to unallocated PLMN number, the calling user receives in-band information that the called number is unallocated |   |
| <b>PSTN parameter values:</b>   |  |   |
| <b>PLMN parameter values:</b>   |  |   |
| <b>Comments:</b>                |  |   |

|                                 |   |   |
|---------------------------------|---|---|
| 420105                          | <b>PSTN ref. to:</b><br>ETS 300 001   | <b>PLMN ref. to :</b><br>ETS 300 557 [35] |
| <b>TSS reference:</b>           | PSTN-PLMN/Basic_call/Unsuccessful/TC420105  |   |
| <b>PSTN selection criteria:</b> | Call establishment to a PLMN user   |   |
| <b>PLMN selection criteria:</b> | Multi-numbering Scheme, TS 11   |   |
| <b>Test purpose:</b>            | Ensure that when the calling user clears before answer from the called PLMN user, the call is cleared. The called user is cleared with cause value # 16 "normal call clearing". |   |
| <b>PSTN parameter values:</b>   |   |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |   |
| <b>Comments:</b>                | The call set-up to the mobile will contain a GSM BC mapped from the BC/LLC/HLC stored in the VLR  |   |

|                                 |  |                       |
|---------------------------------|--|-----------------------|
| 420106                          | <b>PSTN ref. to:</b> ETS 300 001   | <b>PLMN ref. to :</b> |
| <b>TSS reference:</b>           | PSTN-PLMN/Basic_call/Unsuccessful/TC420106   |                       |
| <b>PSTN selection criteria:</b> | Call establishment to a PLMN user  |                       |
| <b>PLMN selection criteria:</b> | Multi-numbering Scheme, TS 11  |                       |
| <b>Test purpose:</b>            | Ensure that when the called PLMN user is alerted by not answering before timer Q.118 expires, the calling user receives a free tone followed by a network congestion tone and the network initiate call clearing to the called user with Cause # 102 "recovery on timer expire" or cause # 31 "normal, unspecified". |                       |
| <b>PSTN parameter values:</b>   |  |                       |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |                       |
| <b>Comments:</b>                | The call set-up to the mobile will contain a GSM BC mapped from the BC/LLC/HLC stored in the VLR   |                       |

|                                 |   |  |
|---------------------------------|---|--|
| 420107                          | <b>PSTN ref. to:</b><br>ETS 300 001   | <b>PLMN ref. to:</b><br>ETS 300 557 [35] Annex H 1.7 |
| <b>TSS reference:</b>           | PSTN-PLMN/Basic_call/Unsuccessful/TC420107  |  |
| <b>PSTN selection criteria:</b> | Call establishment to a PLMN user   |  |
| <b>PLMN selection criteria:</b> | PSTN, Single-numbering Scheme   |  |
| <b>Test purpose:</b>            | Ensure that when the called PLMN user (single-numbering scheme) is busy (UDUB), the calling user receives a free tone followed by a busy tone                                   |  |
| <b>PSTN parameter values:</b>   |   |  |
| <b>PLMN parameter values:</b>   |   |  |
| <b>Comments:</b>                | The call set-up to the mobile will not contain a GSM BC element.<br><br>After receiving the SETUP message, the MS replies immediately with a RELEASE COMPLETE (#17 "user busy") |  |



|                                 |   |  |
|---------------------------------|---|--|
| 420108                          | <b>PSTN ref. to:</b><br>ETS 300 001   | <b>PLMN ref. to:</b><br>ETS 300 557 [35] |
| <b>TSS reference:</b>           | PSTN-PLMN/Basic_call/Unsuccessful/TC420108  |  |
| <b>PSTN selection criteria:</b> | Call establishment to a PLMN user   |  |
| <b>PLMN selection criteria:</b> | PSTN, Single-numbering Scheme   |  |
| <b>Test purpose:</b>            | Ensure that when the calling user clears before answer from the called PLMN user (single-numbering scheme), the call is cleared. The called user is cleared with cause value # 16 "normal call clearing". |  |
| <b>PSTN parameter values:</b>   |   |  |
| <b>PLMN parameter values:</b>   |   |  |
| <b>Comments:</b>                | The call set-up to the mobile will not contain a GSM BC element.  |  |

|                                 |   |                          |
|---------------------------------|---|--------------------------|
| 420109                          | <b>PSTN ref. to:</b><br>ETS 300 001   | <b>PLMN ref. to: to:</b> |
| <b>TSS reference:</b>           | PSTN-PLMN/Basic_call/Unsuccessful/TC420109  |                          |
| <b>PSTN selection criteria:</b> | Call establishment to a PLMN user   |                          |
| <b>PLMN selection criteria:</b> | PSTN, Single-numbering Scheme   |                          |
| <b>Test purpose:</b>            | Ensure that when the called PLMN user is alerted (single-numbering scheme) but not answers before timer Q.118 expires, the calling user receives a free tone followed by a network congestion tone and the network initiate call clearing to the called user with Cause # 102 "recovery on timer expire" or cause # 31 "normal, unspecified". |                          |
| <b>PSTN parameter values:</b>   |   |                          |
| <b>PLMN parameter values:</b>   |   |                          |
| <b>Comments:</b>                | The call set-up to the mobile will not contain a GSM BC element.  |                          |

|                                 |   |  |
|---------------------------------|---|--|
| 420110                          | <b>PSTN ref. to:</b><br>ETS 300 001   | <b>PLMN ref. to:</b><br>ETS 300 557 [35] Annex H 1.7 |
| <b>TSS reference:</b>           | PSTN-PLMN/Basic_call/Unsuccessful/TC420110  |  |
| <b>PSTN selection criteria:</b> | Call establishment to a PLMN user   |  |
| <b>PLMN selection criteria:</b> | Multi-numbering Scheme, TS 11   |  |
| <b>Test purpose:</b>            | Ensure that when the called PLMN user is busy (UDUB) after being alerted, the calling user receives a free tone followed by a busy tone |  |
| <b>PSTN parameter values:</b>   |   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |  |
| <b>Comments:</b>                | While in the alerting state, the called user sends a DISCONNECT (#17 "user busy").  |  |

### 6.2.6A Test purposes for PSTN-PLMN, Supplementary\_services

|                        |
|------------------------|
| Supplementary_services |
| PSTN                   |

|                                 |  |   |
|---------------------------------|--|---|
| 510101                          | <b>PSTN ref. to:</b><br>ETS 300 001  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 10.5.4.9<br>ETS 300 565 [36], |
| <b>TSS reference:</b>           | PSTN-PLMN/Supplementary_services/CLIP/TC510101   |   |
| <b>PSTN selection criteria:</b> | Call to a PLMN user  |   |
| <b>PLMN selection criteria:</b> | The called user is provided with CLIP  |   |
| <b>Test purpose:</b>            | Ensure that the Calling party number is correctly delivered to the called (served) user.   |   |
| <b>PSTN parameter values:</b>   |  |   |
| <b>PLMN parameter values:</b>   | Calling party number: PI=PA, SI=NP, TON= national / international number NPI= ISDN/Telephony numbering plan (ITU-T Rec. E.164 [25] )                                       |   |
| <b>Comments:</b>                | 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. |   |

|                                 |   |   |
|---------------------------------|---|---|
| 510201                          | <b>PSTN ref. to:</b><br>ETS 300 649   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 10.5.4.9,<br>subclause 10.5.4.10<br><br>ETS 300 565 [36], subclause 1<br><br>ETS 300 542 [57] , subclause 1 |
| <b>TSS reference:</b>           | PSTN-PLMN/Supplementary_services/CLIR/TC510201  |   |
| <b>PSTN selection criteria:</b> | CLIR  |   |
| <b>PLMN selection criteria:</b> | The called user is provided with CLIP   |   |
| <b>Test purpose:</b>            | Ensure that the Calling party number information element is delivered to the called user without any digit information. |   |
| <b>PSTN parameter values:</b>   |   |   |
| <b>PLMN parameter values:</b>   | Calling party number: PI=PR, SI=NP, TON=unknown, NPI=unknown  |   |
| <b>Comments:</b>                |   |   |

|                                 |  |  |
|---------------------------------|--|--|
| 510301                          | <b>ISDN ref. to:</b><br>ETS 300 138-1 [10],<br>subclause 9.2.3   | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br><br>ETS 300 569 [39] |
| <b>TSS reference:</b>           | PSTN-PLMN/Supplementary_services/CUG/TC510301  |  |
| <b>PSTN selection criteria:</b> | CUG  |  |
| <b>PLMN selection criteria:</b> | CUG with incoming access "not allowed".  |  |
| <b>Test purpose:</b>            | Ensure that when the called user belongs to a CUG with incoming access "not allowed" and the calling user is not member of CUG, call establishment is not possible and the network initiate call clearing to the calling user with cause value #87 "user not member of CUG". |  |
| <b>PSTN parameter values:</b>   |  |  |
| <b>PLMN parameter values:</b>   |  |  |
| <b>Comments:</b>                |  |  |

|                                 |  |  |
|---------------------------------|--|--|
| 510401                          | <b>PSTN ref. to:</b><br>ETS 300 001  | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 1<br>ETS 300 543 [31], subclause 1 |
| <b>TSS reference:</b>           | PSTN-PLMN/Supplementary_services/CFU/TC510401  |  |
| <b>PSTN selection criteria:</b> | Call to a forwarding subscriber (CFU)  |  |
| <b>PLMN selection criteria:</b> | CFU  |  |
| <b>Test purpose:</b>            | The PSTN user A and the PSTN user C are in network N1. The PLMN user B is in network N2 and is provided with CFU. Ensure that when user A calls user B, the call is forwarded to user C. |  |
| <b>PSTN parameter values:</b>   |  |  |
| <b>PLMN parameter values:</b>   | CFU active   |  |
| <b>Comments:</b>                |  |  |

|                                 |  |  |
|---------------------------------|--|--|
| 510501                          | <b>PSTN ref. to:</b><br>ETS 300 001  | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 2<br>ETS 300 543 [31], subclause 2 |
| <b>TSS reference:</b>           | PSTN-PLMN/Supplementary_services/CFB/TC510501  |  |
| <b>PSTN selection criteria:</b> | Call to a forwarding subscriber (CFB)  |  |
| <b>PLMN selection criteria:</b> | CFB-UDUB   |  |
| <b>Test purpose:</b>            | The PSTN user A and the PSTN user C are in network N1.<br><br>The PLMN user B is in network N2 and is provided with CFB-UDUB.<br><br>Ensure that when user A calls busy user B, the call is forwarded to user C. User B is not notified of call diversion. |  |
| <b>PSTN parameter values:</b>   |  |  |
| <b>PLMN parameter values:</b>   | CFB-UDUB active  |  |
| <b>Comments:</b>                |  |  |

|                                 |   |  |
|---------------------------------|---|--|
| 510502                          | <b>PSTN ref. to:</b><br>ETS 300 001   | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 2<br>ETS 300 543 [31], subclause 2 |
| <b>TSS reference:</b>           | PSTN-PLMN/Supplementary_services/CFB/TC510502   |  |
| <b>PSTN selection criteria:</b> | Call to a forwarding subscriber (CFB)   |  |
| <b>PLMN selection criteria:</b> | CFB-NDUB. Notification to forwarding subscriber =Yes  |  |
| <b>Test purpose:</b>            | <p>The PSTN user A and the PSTN user C are in network N1.</p> <p>The PLMN user B is in network N2 and is provided with CFB-NDUB whereby the notification to forwarding subscriber is set to yes.</p> <p>Ensure that when user A calls busy user B, the call is forwarded to user C. User B is notified of call diversion.</p> |  |
| <b>PSTN parameter values:</b>   |   |  |
| <b>PLMN parameter values:</b>   | CFB-NDUB active   |  |
| <b>Comments:</b>                |   |  |

|                                 |  |  |
|---------------------------------|--|--|
| 510503                          | <b>PSTN ref. to:</b><br>ETS 300 001  | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 2<br>ETS 300 543 [31], subclause 2 |
| <b>TSS reference:</b>           | PSTN-PLMN/Supplementary_services/CFB/TC510503  |  |
| <b>PSTN selection criteria:</b> | Call to a forwarding subscriber (CFB)  |  |
| <b>PLMN selection criteria:</b> | CFB-NDUB. Notification to forwarding subscriber =No  |  |
| <b>Test purpose:</b>            | <p>The PSTN user A and the PSTN user C are in network N1.</p> <p>The PLMN user B is in network N2 and is provided with CFB-NDUB whereby the notification to forwarding subscriber is set to no.</p> <p>Ensure that when user A calls busy user B, the call is forwarded to user C. User B is not notified of call diversion.</p> |  |
| <b>PSTN parameter values:</b>   |  |  |
| <b>PLMN parameter values:</b>   | CFB-NDUB active  |  |
| <b>Comments:</b>                |  |  |

|                                 |  |  |
|---------------------------------|--|--|
| 510601                          | <b>PSTN ref. to:</b><br>ETS 300 001  | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 3<br>ETS 300 543 [31], subclause 3 |
| <b>TSS reference:</b>           | PSTN-PLMN/Supplementary_services/CFNRyTC510601   |  |
| <b>PSTN selection criteria:</b> | Call to a forwarding subscriber (CFNRy)  |  |
| <b>PLMN selection criteria:</b> | CFNRy. Notification to forwarding subscriber =Yes  |  |
| <b>Test purpose:</b>            | <p>The PSTN user A and the PSTN user C are in network N1.</p> <p>The PLMN user B is in network N2 and is provided with CFNRy whereby the notification to forwarding subscriber is set to yes.</p> <p>Ensure that if user A calls user B, who does not answered, the call is forwarded to user C. User B is notified of call diversion.</p> |  |
| <b>PSTN parameter values:</b>   |  |  |
| <b>PLMN parameter values:</b>   | CFNRy active   |  |
| <b>Comments:</b>                | .  |  |

|                                 |   |  |
|---------------------------------|---|--|
| 510602                          | <b>PSTN ref. to:</b><br>ETS 300 001   | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 3<br>ETS 300 543 [31], subclause 3 |
| <b>TSS reference:</b>           | PSTN-PLMN/Supplementary_services/CFNRyTC510602  |  |
| <b>PSTN selection criteria:</b> | Call to a forwarding subscriber (CFNRy)   |  |
| <b>PLMN selection criteria:</b> | CFNRy. Notification to forwarding subscriber = No   |  |
| <b>Test purpose:</b>            | <p>The PSTN user A and the PSTN user C are in network N1.</p> <p>The PLMN user B is in network N2 and is provided with CFNRy whereby the notification to forwarding subscriber is set to no.</p> <p>Ensure that if user A calls user B, who does not answered, the call is forwarded to user C. User B is not notified of call diversion.</p> |  |
| <b>PSTN parameter values:</b>   |   |  |
| <b>PLMN parameter values:</b>   | CFNRy active  |  |
| <b>Comments:</b>                | .   |  |

|                                 |   |  |
|---------------------------------|---|--|
| 510701                          | <b>PSTN ref. to:</b><br>ETS 300 001   | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 4<br>ETS 300 543 [31], subclause 4 |
| <b>TSS reference:</b>           | PSTN-PLMN/Supplementary_services/CFNRcTC510701  |  |
| <b>PSTN selection criteria:</b> | Call to a forwarding subscriber (CFNRc)   |  |
| <b>PLMN selection criteria:</b> | CFNRc   |  |
| <b>Test purpose:</b>            | The PSTN user A and the PSTN user C are in network N1.<br>The PLMN user B is in network N2 and is provided with CFNRc.<br>Ensure that when user A calls user B, if detached, the call is forwarded to user C. |  |
| <b>PSTN parameter values:</b>   |   |  |
| <b>PLMN parameter values:</b>   | CFNRc active  |  |
| <b>Comments:</b>                |   |  |

## NON-SYMMETRICAL TESTS

|                                 |  |  |
|---------------------------------|--|--|
| 520101                          | <b>PSTN ref. to:</b><br>ETS 300 001  | <b>PLMN ref. to:</b><br>ETS 300 548 [34] |
| <b>TSS reference:</b>           | PSTN-PLMN/Supplementary_services/Call barring service/TC520101   |  |
| <b>PSTN selection criteria:</b> |  |  |
| <b>PLMN selection criteria:</b> | The Network B supports BAIC.   |  |
| <b>Test purpose:</b>            | Ensure that when the called user activates barring of all incoming calls, call establishment is not possible and the network initiate call clearing to the calling user. |  |
| <b>PSTN parameter values:</b>   |  |  |
| <b>PLMN parameter values:</b>   |  |  |
| <b>Comments:</b>                | EDITORS NOTE 3: The cause value with witch the call shall be rejected is not defined.  |  |

|                                 |  |  |
|---------------------------------|--|--|
| 520102                          | <b>PSTN ref. to:</b><br>ETS 300 001  | <b>PLMN ref. to:</b><br>ETS 300 548 [34] |
| <b>TSS reference:</b>           | PSTN-PLMN/Supplementary_services/Call barring service/TC520102   |  |
| <b>PSTN selection criteria:</b> |  |  |
| <b>PLMN selection criteria:</b> | The Network B supports barring of all incoming calls (BAIC) and barring of incoming calls when roaming outside the home PLMN country (BIC-Roam). The MS is roaming outside the home PLMN country.  |  |
| <b>Test purpose:</b>            | Ensure that when the called user activates barring of incoming calls when roaming outside the home PLMN country was already activated, barring of incoming calls when roaming outside the home PLMN country will be deactivated and barring of all incoming calls will be activated.<br><br>Call establishment is not possible and the network initiate call clearing to the calling user. |  |
| <b>PSTN parameter values:</b>   |  |  |
| <b>PLMN parameter values:</b>   |  |  |
| <b>Comments:</b>                | EDITORS NOTE 3: The cause value with witch the call shall be rejected is not defined.  |  |

|                                 |  |  |
|---------------------------------|--|--|
| 520201                          | <b>PSTN ref. to:</b><br>ETS 300 001  | <b>PLMN ref. to:</b><br>ETS 300 517<br>ETS 300 545 |
| <b>TSS reference:</b>           | PSTN-PLMN/Supplementary_services/MPTY/TC520201   |  |
| <b>PSTN selection criteria:</b> |  |  |
| <b>PLMN selection criteria:</b> | MPTY   |  |
| <b>Test purpose:</b>            | The PSTN user A is in network N1. The PLMN user B and PLMN user C are in network N2. User A is calling user B. Ensure that the user B can establish a MPTY call to user A and user C. User B is terminating the entire multi party call. |  |
| <b>PSTN parameter values:</b>   |  |  |
| <b>PLMN parameter values:</b>   |  |  |
| <b>Comments:</b>                |  |  |



|                                 |   |   |
|---------------------------------|---|---|
| 520202                          | <b>PSTN ref. to:</b><br>ETS 300 001   | <b>PLMN ref. to:</b><br>ETS 300 517,<br>ETS 300 545 |
| <b>TSS reference:</b>           | PSTN-PLMN/Supplementary_services/MPTY/TC520202  |   |
| <b>PSTN selection criteria:</b> |   |   |
| <b>PLMN selection criteria:</b> | MPTY  |   |
| <b>Test purpose:</b>            | The PSTN user A is in network N1. The PLMN user B and PLMN user C are in network N2. User A is calling user B. Ensure that the user B can establish a MPTY call to user B and C. The user A is clearing the remote party C. The call clearing procedure to user B is performed from user A. |   |
| <b>PSTN parameter values:</b>   |   |   |
| <b>PLMN parameter values:</b>   |   |   |
| <b>Comments:</b>                |   |   |

|                                 |   |   |
|---------------------------------|---|---|
| 520203                          | <b>PSTN ref. to:</b><br>ETS 300 001   | <b>PLMN ref. to:</b><br>ETS 300 517,<br>ETS 300 545 |
| <b>TSS reference:</b>           | PSTN-PLMN/Supplementary_services/MPTY/TC520203  |   |
| <b>PSTN selection criteria:</b> |   |   |
| <b>PLMN selection criteria:</b> | MPTY  |   |
| <b>Test purpose:</b>            | The PSTN user A is in network N1. The PLMN user B and PLMN user C are in network N2. User A is calling user B. Ensure that the user B can establish a MPTY call to user A and user C. Afterwards the remote party C disconnects itself from the call. The call clearing procedure to user B is performed from user A. |   |
| <b>PSTN parameter values:</b>   |   |   |
| <b>PLMN parameter values:</b>   |   |   |
| <b>Comments:</b>                |   |   |

|                                 |   |   |
|---------------------------------|---|---|
| 520204                          | <b>PSTN ref. to:</b><br>ETS 300 001   | <b>PLMN ref. to:</b><br>ETS 300 517,<br><br>ETS 300 545 |
| <b>TSS reference:</b>           | PSTN-PLMN/Supplementary_services/MPTY/TC520204  |   |
| <b>PSTN selection criteria:</b> |   |   |
| <b>PLMN selection criteria:</b> | MPTY  |   |
| <b>Test purpose:</b>            | The PSTN user A is in network N1. The PLMN user B and PLMN user C are in network N2. User A is calling user B. Ensure that the user B can establish a MPTY call to user A and C. Afterwards the user B separates the remote user A from the multi-party call which is placed on hold (A-B ACTIVE / MPTY HELD). User B invokes the MPTY service and join the single active call and the held MPTY together. User B is terminating the entire multi party call. |   |
| <b>PSTN parameter values:</b>   |   |   |
| <b>PLMN parameter values:</b>   |   |   |
| <b>Comments:</b>                |   |   |

### 6.2.6B Test purposes for PSTN-PLMN, B-channel end-to-end performance

## B-channel end-to-end performance

|                                 |   |  |
|---------------------------------|---|--|
| 610101                          | <b>PSTN ref. to:</b><br>ETS 300 001   | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br><br>ITU-T Rec. G. 101 |
| <b>TSS reference:</b>           | PSTN-PLMN/ B-channel end-to-end performance/Voice/TC610101                              |  |
| <b>PSTN selection criteria:</b> | Voice transmission  |  |
| <b>PLMN selection criteria:</b> | Voice transmission  |  |
| <b>Test purpose:</b>            | To ensure that the voice transfer on the B-channel is performed correctly.              |  |
| <b>PSTN parameter values:</b>   |   |  |
| <b>PLMN parameter values:</b>   |   |  |
| <b>Comments:</b>                | The tests should be based on the E-Model described in the ITU-T Rec. G. 101 Appendix I. |  |

|                                 |   |   |
|---------------------------------|---|---|
| 610102                          | <b>PSTN ref. to:</b><br>ETS 300 001   | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>ETS 300 578 [55] |
| <b>TSS reference:</b>           | PSTN-PLMN/ B-channel end-to-end performance /data/TC610102                            |   |
| <b>PSTN selection criteria:</b> | Data transmission   |   |
| <b>PLMN selection criteria:</b> | Data transmission   |   |
| <b>Test purpose:</b>            | To ensure that data transfer with 1,2 kbit/s on the B-channel is performed correctly. |   |
| <b>PSTN parameter values:</b>   |   |   |
| <b>PLMN parameter values:</b>   |   |   |
| <b>Comments:</b>                | The tests should be based on the requirements described in the ETS 300 578 [55]       |   |

|                                 |   |  |
|---------------------------------|---|--|
| 610103                          | <b>PSTN ref. to:</b><br>ETS 300 001   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], ETS 300 578 [55] |
| <b>TSS reference:</b>           | PSTN-PLMN/ B-channel end-to-end performance /data/TC610103                            |  |
| <b>PSTN selection criteria:</b> | Data transmission   |  |
| <b>PLMN selection criteria:</b> | Data transmission   |  |
| <b>Test purpose:</b>            | To ensure that data transfer with 2,4 kbit/s on the B-channel is performed correctly. |  |
| <b>PSTN parameter values:</b>   |   |  |
| <b>PLMN parameter values:</b>   |   |  |
| <b>Comments:</b>                | The tests should be based on the requirements described in the ETS 300 578 [55]       |  |

|                                 |   |   |
|---------------------------------|---|---|
| 610104                          | <b>PSTN ref. to:</b><br>ETS 300 001   | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>ETS 300 578 [55] |
| <b>TSS reference:</b>           | PSTN-PLMN/ B-channel end-to-end performance /data/TC610104                            |   |
| <b>PSTN selection criteria:</b> | Data transmission   |   |
| <b>PLMN selection criteria:</b> | Data transmission   |   |
| <b>Test purpose:</b>            | To ensure that data transfer with 4,8 kbit/s on the B-channel is performed correctly. |   |
| <b>PSTN parameter values:</b>   |   |   |
| <b>PLMN parameter values:</b>   |   |   |
| <b>Comments:</b>                | The tests should be based on the requirements described in the ETS 300 578 [55]       |   |

|                                 |   |  |
|---------------------------------|---|--|
| 610105                          | <b>PSTN ref. to:</b><br>ETS 300 001   | <b>PLMN ref. to:</b><br>ETS 300 557 [35]<br>ETS 300 578 [55] |
| <b>TSS reference:</b>           | PSTN-PLMN/ B-channel end-to-end performance /data/TC610105                            |  |
| <b>PSTN selection criteria:</b> | Data transmission   |  |
| <b>PLMN selection criteria:</b> | Data transmission   |  |
| <b>Test purpose:</b>            | To ensure that data transfer with 9,6 kbit/s on the B-channel is performed correctly. |  |
| <b>PSTN parameter values:</b>   |   |  |
| <b>PLMN parameter values:</b>   |   |  |
| <b>Comments:</b>                | The tests should be based on the requirements described in the ETS 300 578 [55]       |  |

|                                 |  |  |
|---------------------------------|--|--|
| 610106                          | <b>PSTN ref. to:</b><br>ETS 300 001  | <b>PLMN ref. to:</b><br>ETS 300 557 [35]<br>ETS 300 578 [55] |
| <b>TSS reference:</b>           | PSTN-PLMN/ B-channel end-to-end performance /FAX/TC610106                              |  |
| <b>PSTN selection criteria:</b> | Data transmission  |  |
| <b>PLMN selection criteria:</b> | Data transmission  |  |
| <b>Test purpose:</b>            | To ensure that "facsimile group 2/3 transfer" on the B-channel is performed correctly. |  |
| <b>PSTN parameter values:</b>   |  |  |
| <b>PLMN parameter values:</b>   |  |  |
| <b>Comments:</b>                | The tests should be based on the requirements described in the ETS 300 578 [55]        |  |

## 6.2.7 Test purposes for PLMN-ISDN, Basic call

### 6.2.7.1 Successful

|                   |
|-------------------|
| <b>Successful</b> |
| <b>Speech</b>     |

|                                 |  |   |
|---------------------------------|--|---|
| 710101                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 4.5.5,<br>subclause 5.2   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2<br>ETS 300 604 [42], subclause 10.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Successful/Speech/TC710101  |   |
| <b>ISDN selection criteria:</b> | Speech   |   |
| <b>PLMN selection criteria:</b> | TS 11  |   |
| <b>Test purpose:</b>            | Ensure that call establishment and the call clearing procedure is performed correctly when the calling user clears after answer. |   |
| <b>ISDN parameter values:</b>   | BC=speech, no HLC  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech, no HLC  |   |
| <b>Comments:</b>                |  |   |

|                                 |   |   |
|---------------------------------|---|---|
| 710102                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 4.5.5,<br>subclause 5.2  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.1<br>ETS 300 604 [42], subclause 10.2.1 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Successful/Speech/TC710102   |   |
| <b>ISDN selection criteria:</b> | Speech  |   |
| <b>PLMN selection criteria:</b> | TS 11   |   |
| <b>Test purpose:</b>            | Ensure that call establishment and the call clearing procedure is performed correctly when the called user clears after answer. |   |
| <b>ISDN parameter values:</b>   | BC=speech, no HLC   |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech, no HLC   |   |
| <b>Comments:</b>                |   |   |

|                                 |   |   |
|---------------------------------|---|---|
| 710103                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 4.5.17<br>EG 201 018 [2] ,<br>subclause 6.3.1  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2<br>ETS 300 604 [42], subclause 10.2<br>ETS 300 502 [27], subclause 6<br>ETS 300 582 [40], Annex B.2.8 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Successful/Speech/TC710103   |   |
| <b>ISDN selection criteria:</b> | Speech  |   |
| <b>PLMN selection criteria:</b> | TS 11   |   |
| <b>Test purpose:</b>            | Ensure that the HLC information is transported transparently through the network and correctly delivered to the called user. After the call establishment the call clearing procedure is performed from the calling user. |   |
| <b>ISDN parameter values:</b>   | BC=speech, HLC=telephony  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech, HLC=telephony  |   |
| <b>Comments:</b>                |   |   |

|                                 |  |   |
|---------------------------------|--|---|
| 710104                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 4.5.17<br>EG 201 018 [2],<br>subclause 6.3.1  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2<br>ETS 300 604 [42], subclause 10.2<br>ETS 300 502 [27], subclause 6<br>ETS 300 582 [40], Annex B.2.8 |
| <b>TSS reference:</b>           | PLMN- ISDN/Basic_call/Successful/Speech/TC710104   |   |
| <b>ISDN selection criteria:</b> | Speech   |   |
| <b>PLMN selection criteria:</b> | TS 11  |   |
| <b>Test purpose:</b>            | Ensure that the HLC information is transported transparently through the network and correctly delivered to the called user. After the call establishment the call clearing procedure is performed from the called user. |   |
| <b>ISDN parameter values:</b>   | BC=speech, HLC=telephony   |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech, HLC=telephony   |   |
| <b>Comments:</b>                |  |   |

|                                 |  |   |
|---------------------------------|--|---|
| 710105                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1], subclause 3.1.10,<br>subclause 5.2   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 7.3.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Successful/Speech/TC710105  |   |
| <b>ISDN selection criteria:</b> | Speech   |   |
| <b>PLMN selection criteria:</b> | TS 11  |   |
| <b>Test purpose:</b>            | To verify that progress indicator information included in the ISDN-CONNECT message can be transported correctly to the calling MS.   |   |
| <b>ISDN parameter values:</b>   | B:? SETUP: BC=speech, HLC = telephony,<br>B:! CONNECT: progress indicator #2 "destination address is non-ISDN".  |   |
| <b>PLMN parameter values:</b>   | A:! SETUP: GSM-BC=speech, HLC=telephony<br>A:? CONNECT: progress indicator #2 "destination address is non-ISDN".   |   |
| <b>Comments:</b>                | The progress indicator information element is transported in the Access Transport parameter of the Answer message (ANM). The access transport parameter will be transported transparently. It is the responsibility of the end points to ensure compatibility. |   |

|                                 |  |  |
|---------------------------------|--|--|
| 710106                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 3.1, subclause 5.2  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 7.3.2, subclause 5.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Successful/Speech/TC710106  |  |
| <b>ISDN selection criteria:</b> | Speech   |  |
| <b>PLMN selection criteria:</b> | TS 11  |  |
| <b>Test purpose:</b>            | To verify that progress indicator information included in the ISDN - ALERT message can be transported correctly to the calling MS.   |  |
| <b>ISDN parameter values:</b>   | B:? SETUP: BC=speech, HLC=telephony,<br>B:! ALERT: progress indicator #2 "destination address is non-ISDN".  |  |
| <b>PLMN parameter values:</b>   | A:! SETUP: GSM-BC=speech HLC=telephony<br>A:? ALERT: progress indicator #2 "destination address is non-ISDN".  |  |
| <b>Comments:</b>                | The progress indicator information element is transported in the Access Transport parameter of the Address complete message (ACM). The access transport parameter will be transported transparently. It is the responsibility of the end points to ensure compatibility. |  |

**Successful**

**3,1 kHz audio, ex PLMN**



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| 710201                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.2,<br>subclause 4.5.5  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.1<br>ETS 300 604 [42], subclause 10.2<br>ETS 300 582 [40], Annex B.1.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Successful/3,1 kHz audio, ex PLMN/TC710201   |  |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio  |  |
| <b>PLMN selection criteria:</b> | Audio   |  |
| <b>Test purpose:</b>            | Support voice band data via modem. Ensure that the call establishment and the call clearing procedure is performed correctly when the calling user clears after answer. |  |
| <b>ISDN parameter values:</b>   | a) BC=3,1 kHz audio, voice band data via modem (EN 300 403-1 [1] )<br>b) BC=3,1 kHz audio (ETS 300 102-1 [46] )   |  |
| <b>PLMN parameter values:</b>   | GSM-BC = 3,1 kHz audio ex PLMN, voice band data via modem   |  |
| <b>Comments:</b>                | According ETS 300 102-1 [46] subclause 4.5.5 NOTE 4 the octets 6, 6a, 6b, 6c in the GSM-BC shall not be mapped to the octets 5a, 5b, 5c and 5d in the ISDN-BC           |  |

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| 710202                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.2, subclause 4.5.5  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2<br>ETS 300 604 [42], subclause 10.2<br>ETS 300 582 [40], Annex B.1.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Successful/3,1 kHz audio ex PLMN/TC710202   |  |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio   |  |
| <b>PLMN selection criteria:</b> | Audio  |  |
| <b>Test purpose:</b>            | Support voice band data via modem. Ensure that the call establishment and the call clearing procedure is performed correctly when the called user clears after answer. |  |
| <b>ISDN parameter values:</b>   | a) BC=3,1 kHz audio, voice band data via modem (EN 300 403-1 [1] )<br>b) BC=3,1 kHz audio (ETS 300 102-1 [46] )  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem  |  |
| <b>Comments:</b>                | According ETS 300 102-1 [46] subclause 4.5.5 NOTE 4 the octets 6, 6a, 6b, 6c in the GSM-BC shall not be mapped to the octets 5a, 5b, 5c and 5d in the ISDN-BC          |  |

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| 710203                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.2,<br>subclause 4.5.5   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.1<br>ETS 300 604 [42], subclause 10.2<br>ETS 300 582 [40], Annex B.1.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Successful/3,1 kHz audio, ex PLMN/TC710203  |  |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio   |  |
| <b>PLMN selection criteria:</b> | Audio, asynchronous mode, BS 21  |  |
| <b>Test purpose:</b>            | Support voice band data via modem. Ensure that the GSM-BC = 3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 0,3 kbit/s, no LLC is correctly mapped to the called user and the call clearing procedure is performed correctly when the calling user clears after answer. |  |
| <b>ISDN parameter values:</b>   | BC=3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 0,3 kbit/s, no LLC   |  |
| <b>PLMN parameter values:</b>   | GSM-BC = 3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 0,3 kbit/s, no LLC (EN 300 403-1 [1] )<br><br>BC=3,1 kHz audio (ETS 300 102-1 [46] )   |  |
| <b>Comments:</b>                | According ETS 300 102-1 [46] subclause 4.5.5 NOTE 4 the octets 6, 6a, 6b, 6c in the GSM-BC shall not be mapped to the octets 5a, 5b, 5c and 5d in the ISDN-BC  |  |

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| 710204                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.2, subclause 4.5.5  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2<br>ETS 300 604 [42], subclause 10.2<br>ETS 300 582 [40], Annex B.1.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Successful/3,1 kHz audio ex PLMN/TC710204   |  |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio   |  |
| <b>PLMN selection criteria:</b> | Audio, asynchronous mode, BS 22  |  |
| <b>Test purpose:</b>            | 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, no LLC is correctly mapped to the called user and the call clearing procedure is performed correctly when the called user clears after answer. |  |
| <b>ISDN parameter values:</b>   | BC=3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s, no LLC (EN 300 403-1 [1] )<br><br>BC=3,1 kHz audio, no LLC (ETS 300 102-1 [46] )   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s, no LLC   |  |
| <b>Comments:</b>                | According ETS 300 102-1 [46] subclause 4.5.5 NOTE 4 the octets 6, 6a, 6b, 6c in the GSM-BC shall not be mapped to the octets 5a, 5b, 5c and 5d in the ISDN-BC  |  |

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| 710205                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.2,<br>subclause 4.5.5   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2<br>ETS 300 604 [42], subclause 10.2<br>ETS 300 582 [40], Annex B.1.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Successful/3,1 kHz audio ex PLMN/TC710205   |  |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio   |  |
| <b>PLMN selection criteria:</b> | Audio, asynchronous mode, BS 24  |  |
| <b>Test purpose:</b>            | Support of voice band data via modem. Ensure that the GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 2,4 kbit/s, no LLC is correctly mapped to the called user. |  |
| <b>ISDN parameter values:</b>   | BC=3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 2,4 kbit/s, no LLC (EN 300 403-1 [1] )<br><br>BC=3,1 kHz audio (ETS 300 102-1 [46] )   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 2,4 kbit/s, no LLC   |  |
| <b>Comments:</b>                | According ETS 300 102-1 [46] subclause 4.5.5 NOTE 4 the octets 6, 6a, 6b, 6c in the GSM-BC shall not be mapped to the octets 5a, 5b, 5c and 5d in the ISDN-BC  |  |

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| 710206                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.2,<br>subclause 4.5.5   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2<br>ETS 300 604 [42], subclause 10.2<br>ETS 300 582 [40], Annex B.1.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Successful/3,1 kHz audio, ex PLMN/TC710206  |  |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio   |  |
| <b>PLMN selection criteria:</b> | Audio, asynchronous mode, BS 25  |  |
| <b>Test purpose:</b>            | Support of voice band data via modem. Ensure that the GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 4,8 kbit/s, no LLC is correctly mapped to the called user. |  |
| <b>ISDN parameter values:</b>   | BC=3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 4,8 kbit/s, no LLC (EN 300 403-1 [1] )<br>BC=3,1 kHz audio (ETS 300 102-1 [46] )   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 4,8 kbit/s, no LLC   |  |
| <b>Comments:</b>                | According ETS 300 102-1 [46] subclause 4.5.5 NOTE 4 the octets 6, 6a, 6b, 6c in the GSM-BC shall not be mapped to the octets 5a, 5b, 5c and 5d in the ISDN-BC  |  |

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| 710207                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.2,<br>subclause 4.5.5   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2<br>ETS 300 604 [42], subclause 10.2<br>ETS 300 582 [40], Annex B.1.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Successful/3,1 kHz audio ex PLMN/TC710207   |  |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio   |  |
| <b>PLMN selection criteria:</b> | Audio, asynchronous mode, BS 26  |  |
| <b>Test purpose:</b>            | Support of voice band data via modem. Ensure that the GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 9,6 kbit/s, no LLC is correctly mapped to the called user. |  |
| <b>ISDN parameter values:</b>   | BC=3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 9,6 kbit/s, no LLC (EN 300 403-1 [1] )<br>BC=3,1 kHz audio (ETS 300 102-1 [46] )   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 9,6 kbit/s, no LLC   |  |
| <b>Comments:</b>                | According ETS 300 102-1 [46] subclause 4.5.5 NOTE 4 the octets 6, 6a, 6b, 6c in the GSM-BC shall not be mapped to the octets 5a, 5b, 5c and 5d in the ISDN-BC  |  |

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| 710208                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.2,<br>subclause 4.5.5   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2<br>ETS 300 604 [42], subclause 10.2<br>ETS 300 582 [40], Annex B.1.2, B.2.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Successful/3,1 kHz audio ex PLMN/TC710208   |   |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio   |   |
| <b>PLMN selection criteria:</b> | Audio, asynchronous mode, BS 21  |   |
| <b>Test purpose:</b>            | Support of voice band data via modem. Ensure that the GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 0.3 kbit/s is correctly mapped and the LLC=3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 0,3 kbit/s is correctly delivered to the called user.                  |   |
| <b>ISDN parameter values:</b>   | BC=3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 0.3 kbit/s, LLC=3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 0,3 kbit/s (EN 300 403-1 [1] )<br><br>BC=3,1 kHz audio, LLC=3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 0,3 kbit/s (ETS 300 102-1 [46] ) |   |
| <b>PLMN parameter values:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 0.3 kbit/s, LLC=3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 0,3 kbit/s  |   |
| <b>Comments:</b>                | According ETS 300 102-1 [46] subclause 4.5.5 NOTE 4 the octets 6, 6a, 6b, 6c in the GSM-BC shall not be mapped to the octets 5a, 5b, 5c and 5d in the ISDN-BC  |   |

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| 710209                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.2,<br>subclause 4.5.5   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2<br>ETS 300 604 [42], subclause 10.2<br>ETS 300 582 [40], Annex B.1.2, B.2.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Successful/3,1 kHz audio ex PLMN/TC710209   |   |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio   |   |
| <b>PLMN selection criteria:</b> | Audio, asynchronous mode, BS 22  |   |
| <b>Test purpose:</b>            | Support of voice band data via modem. Ensure that the GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s is correctly mapped and the LLC information is correctly delivered to the called user.  |   |
| <b>ISDN parameter values:</b>   | BC=3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s, LLC=3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s (EN 300 403-1 [1] )<br><br>BC=3,1 kHz audio, LLC=3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s (ETS 300 102-1 [46] ) |   |
| <b>PLMN parameter values:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s, LLC=3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s  |   |
| <b>Comments:</b>                | According ETS 300 102-1 [46] subclause 4.5.5 NOTE 4 the octets 6, 6a, 6b, 6c in the GSM-BC shall not be mapped to the octets 5a, 5b, 5c and 5d in the ISDN-BC  |   |

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| 710210                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.2,<br>subclause 4.5.5   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2<br>ETS 300 604 [42], subclause 10.2<br>ETS 300 582 [40], Annex B.1.2, B.2.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Successful/3,1 kHz audio, ex PLMN/TC710210  |   |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio   |   |
| <b>PLMN selection criteria:</b> | Audio, asynchronous mode, BS 24  |   |
| <b>Test purpose:</b>            | Support of voice band data via modem. Ensure that the GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 2,4 kbit/s is correctly mapped and the LLC=3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 2,4 kbit/s is correctly delivered to the called user.                  |   |
| <b>ISDN parameter values:</b>   | BC=3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 2,4 kbit/s, LLC=3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 2,4 kbit/s (EN 300 403-1 [1] )<br><br>BC=3,1 kHz audio, LLC=3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 2,4 kbit/s (ETS 300 102-1 [46] ) |   |
| <b>PLMN parameter values:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 2,4 kbit/s, LLC=3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 2,4 kbit/s  |   |
| <b>Comments:</b>                | According ETS 300 102-1 [46] subclause 4.5.5 NOTE 4 the octets 6, 6a, 6b, 6c in the GSM-BC shall not be mapped to the octets 5a, 5b, 5c and 5d in the ISDN-BC  |   |

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| 710211                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.2, subclause 4.5.5   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2<br>ETS 300 604 [42], subclause 10.2<br>ETS 300 582 [40], Annex B.1.2, B.2.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Successful/3,1 kHz audio ex PLMN/TC710211  |   |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio  |   |
| <b>PLMN selection criteria:</b> | Audio, asynchronous mode, BS 25   |   |
| <b>Test purpose:</b>            | Support of terminal adapters voice band data via modem. Ensure that the GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 4,8 kbit/s is correctly mapped and the LLC=3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 4,8 kbit/s is correctly delivered to the called user. |   |
| <b>ISDN parameter values:</b>   | BC=3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 4,8 kbit/s, LLC=3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 4,8 kbit/s (EN 300 403-1 [1] )<br><br>BC=3,1 kHz audio, LLC=3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 4,8 kbit/s (ETS 300 102-1 [46] )  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 4,8 kbit/s, LLC=3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 4,8 kbit/s   |   |
| <b>Comments:</b>                | According ETS 300 102-1 [46] subclause 4.5.5 NOTE 4 the octets 6, 6a, 6b, 6c in the GSM-BC shall not be mapped to the octets 5a, 5b, 5c and 5d in the ISDN-BC   |   |



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| 710212                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.2, subclause 4.5.5  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2<br>ETS 300 604 [42], subclause 10.2<br>ETS 300 582 [40], Annex B.1.2, B.2.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Successful/3,1 kHz audio ex PLMN/TC710212   |   |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio   |   |
| <b>PLMN selection criteria:</b> | Audio, asynchronous mode, BS 26  |   |
| <b>Test purpose:</b>            | Support of voice band data via modem. Ensure that the GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 9,6 kbit/s is correctly mapped and the LLC=3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 9,6 kbit/s is correctly delivered to the called user.                  |   |
| <b>ISDN parameter values:</b>   | BC=3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 9,6 kbit/s, LLC=3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 9,6 kbit/s (EN 300 403-1 [1] )<br><br>BC=3,1 kHz audio, LLC=3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 9,6 kbit/s (ETS 300 102-1 [46] ) |   |
| <b>PLMN parameter values:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 9,6 kbit/s, LLC=3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 9,6 kbit/s  |   |
| <b>Comments:</b>                | According ETS 300 102-1 [46] subclause 4.5.5 NOTE 4 the octets 6, 6a, 6b, 6c in the GSM-BC shall not be mapped to the octets 5a, 5b, 5c and 5d in the ISDN-BC  |   |

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| 710213                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.2, subclause 4.5.5   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2<br>ETS 300 604 [42], subclause 10.2<br>ETS 300 582 [40], Annex B.1.3 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Successful/3,1 kHz audio ex PLMN/TC710213  |  |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio  |  |
| <b>PLMN selection criteria:</b> | Audio, synchronous mode, BS 31  |  |
| <b>Test purpose:</b>            | Support of terminal adapters voice band data via modem. Ensure that the GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 1,2 kbit/s, no LLC information is correctly mapped to the called user. |  |
| <b>ISDN parameter values:</b>   | BC=3,1 kHz audio, voice band data via modem, synchronous mode, user rate 1,2 kbit/s, no LLC ( EN 300 403-1 [1] )<br><br>BC=3,1 kHz audio, no LLC ( ETS 300 102-1 [46] )   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 1,2 kbit/s, no LLC   |  |
| <b>Comments:</b>                | According ETS 300 102-1 [46] subclause 4.5.5 NOTE 4 the octets 6, 6a, 6b, 6c in the GSM-BC shall not be mapped to the octets 5a, 5b, 5c and 5d in the ISDN-BC   |  |

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| 710214                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.2,<br>subclause 4.5.5  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2<br>ETS 300 604 [42], subclause 10.2<br>ETS 300 582 [40], Annex B.1.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Successful/3,1 kHz audio ex PLMN/TC710214  |  |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio  |  |
| <b>PLMN selection criteria:</b> | Audio, synchronous mode, BS 32  |  |
| <b>Test purpose:</b>            | Support of voice band data via modem. Ensure that the GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 2,4 kbit/s, no LLC is correctly mapped to the called user. |  |
| <b>ISDN parameter values:</b>   | BC=3,1 kHz audio, voice band data via modem, synchronous mode, user rate 2,4 kbit/s, no LLC (EN 300 403-1 [1] )<br><br>BC=3,1 kHz audio (ETS 300 102-1 [46] )   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 2,4 kbit/s, no LLC   |  |
| <b>Comments:</b>                | According ETS 300 102-1 [46] subclause 4.5.5 NOTE 4 the octets 6, 6a, 6b, 6c in the GSM-BC shall not be mapped to the octets 5a, 5b, 5c and 5d in the ISDN-BC   |  |

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| 710215                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.2,<br>subclause 4.5.5  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2<br>ETS 300 604 [42], subclause 10.2<br>ETS 300 582 [40], Annex B.1.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Successful/3,1 kHz audio, ex PLMN/TC710215   |  |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio  |  |
| <b>PLMN selection criteria:</b> | Audio, synchronous mode, BS 33  |  |
| <b>Test purpose:</b>            | Support of voice band data via modem. Ensure that the GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 4,8 kbit/s, no LLC is correctly mapped to the called user. |  |
| <b>ISDN parameter values:</b>   | BC=3,1 kHz audio, voice band data via modem, synchronous mode, user rate 4,8 kbit/s, no LLC (EN 300 403-1 [1] )<br>BC=3,1 kHz audio (ETS 300 102-1 [46] )   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 4,8 kbit/s, no LLC   |  |
| <b>Comments:</b>                | According ETS 300 102-1 [46] subclause 4.5.5 NOTE 4 the octets 6, 6a, 6b, 6c in the GSM-BC shall not be mapped to the octets 5a, 5b, 5c and 5d in the ISDN-BC   |  |

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| 710216                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.2,<br>subclause 4.5.5  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2<br>ETS 300 604 [42], subclause 10.2<br>ETS 300 582 [40], Annex B.1.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Successful/3,1 kHz audio ex PLMN/TC710216  |  |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio  |  |
| <b>PLMN selection criteria:</b> | Audio, synchronous mode, BS 34  |  |
| <b>Test purpose:</b>            | Support of voice band data via modem. Ensure that the GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 9,6 kbit/s, no LLC is correctly mapped to the called user. |  |
| <b>ISDN parameter values:</b>   | BC=3,1 kHz audio, voice band data via modem, synchronous mode, user rate 9,6 kbit/s, no LLC (EN 300 403-1 [1] )<br>BC=3,1 kHz audio (ETS 300 102-1 [46] )   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 9,6 kbit/s, no LLC   |  |
| <b>Comments:</b>                | According ETS 300 102-1 [46] subclause 4.5.5 NOTE 4 the octets 6, 6a, 6b, 6c in the GSM-BC shall not be mapped to the octets 5a, 5b, 5c and 5d in the ISDN-BC   |  |

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| 710217                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.2, subclause 4.5.5   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2<br>ETS 300 604 [42], subclause 10.2<br>ETS 300 582 [40], Annex B.1.3 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Successful/3,1 kHz audio ex PLMN/TC710217  |  |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio  |  |
| <b>PLMN selection criteria:</b> | Audio, synchronous mode, BS 31  |  |
| <b>Test purpose:</b>            | Support of voice band data via modem. Ensure that the GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 1,2 kbit/s is correctly mapped and the LLC=3,1 kHz audio, voice band data via modem, synchronous mode, user rate 1,2 kbit/s is correctly delivered to the called user.                   |  |
| <b>ISDN parameter values:</b>   | BC=3,1 kHz audio, voice band data via modem, synchronous mode, user rate 1,2 kbit/s<br>LLC=3,1 kHz audio, voice band data via modem, synchronous mode, user rate 1,2 kbit/s (EN 300 403-1 [1] )<br><br>BC=3,1 kHz audio, LLC=3,1 kHz audio, voice band data via modem, synchronous mode, user rate 1,2 kbit/s (ETS 300 102-1 [46] ) |  |
| <b>PLMN parameter values:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 1,2 kbit/s, LLC=3,1 kHz audio, voice band data via modem, synchronous mode, user rate 1,2 kbit/s   |  |
| <b>Comments:</b>                | According ETS 300 102-1 [46] subclause 4.5.5 NOTE 4 the octets 6, 6a, 6b, 6c in the GSM-BC shall not be mapped to the octets 5a, 5b, 5c and 5d in the ISDN-BC   |  |

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| 710218                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.2,<br>subclause 4.5.5  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2<br>ETS 300 604 [42], subclause 10.2<br>ETS 300 582 [40], Annex B.1.2, B.2.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Successful/3,1 kHz audio, ex PLMN/TC710218   |   |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio  |   |
| <b>PLMN selection criteria:</b> | Audio, synchronous mode, BS 32  |   |
| <b>Test purpose:</b>            | Support of voice band data via modem. Ensure that the GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 2,4 kbit/s is correctly mapped 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.                 |   |
| <b>ISDN parameter values:</b>   | BC=3,1 kHz audio, voice band data via modem, synchronous mode, user rate 2,4 kbit/s, LLC=3,1 kHz audio, voice band data via modem, synchronous mode, user rate 2,4 kbit/s (EN 300 403-1 [1] )<br><br>BC=3,1 kHz audio, LLC=3,1 kHz audio, voice band data via modem, synchronous mode, user rate 2,4 kbit/s (ETS 300 102-1 [46] ) |   |
| <b>PLMN parameter values:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 2,4 kbit/s, LLC=3,1 kHz audio, voice band data via modem, synchronous mode, user rate 2,4 kbit/s   |   |
| <b>Comments:</b>                | According ETS 300 102-1 [46] subclause 4.5.5 NOTE 4 the octets 6, 6a, 6b, 6c in the GSM-BC shall not be mapped to the octets 5a, 5b, 5c and 5d in the ISDN-BC   |   |

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| 710219                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.2, subclause 4.5.5   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2<br>ETS 300 604 [42], subclause 10.2<br>ETS 300 582 [40], Annex B.1.2, B.2.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Successful/3,1 kHz audio ex PLMN/TC710219  |   |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio  |   |
| <b>PLMN selection criteria:</b> | Audio, synchronous mode, BS 33  |   |
| <b>Test purpose:</b>            | Support of terminal adapters voice band data via modem. Ensure that the GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 4,8 kbit/s is correctly mapped and the LLC=3,1 kHz audio, voice band data via modem, synchronous mode, user rate 4,8 kbit/s is correctly delivered to the called user. |   |
| <b>ISDN parameter values:</b>   | BC=3,1 kHz audio, voice band data via modem, synchronous mode, user rate 4,8 kbit/s, LLC=3,1 kHz audio, voice band data via modem, synchronous mode, user rate 4,8 kbit/s (EN 300 403-1 [1] )<br><br>BC=3,1 kHz audio, LLC=3,1 kHz audio, voice band data via modem, synchronous mode, user rate 4,8 kbit/s (ETS 300 102-1 [46] )   |   |
| <b>PLMN parameter values:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 4,8 kbit/s, LLC=3,1 kHz audio, voice band data via modem, synchronous mode, user rate 4,8 kbit/s   |   |
| <b>Comments:</b>                | According ETS 300 102-1 [46] subclause 4.5.5 NOTE 4 the octets 6, 6a, 6b, 6c in the GSM-BC shall not be mapped to the octets 5a, 5b, 5c and 5d in the ISDN-BC   |   |

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| 710220                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.2, subclause 4.5.5   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2<br>ETS 300 604 [42], subclause 10.2<br>ETS 300 582 [40], Annex B.1.2, B.2.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Successful/3,1 kHz audio ex PLMN/TC710220  |   |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio  |   |
| <b>PLMN selection criteria:</b> | Audio, synchronous mode, BS 34  |   |
| <b>Test purpose:</b>            | Support of voice band data via modem. Ensure that the GSM-BC=3,1 kHz audio ex PLMN, 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.                 |   |
| <b>ISDN parameter values:</b>   | BC=3,1 kHz audio, voice band data via modem, synchronous mode, user rate 9,6 kbit/s, LLC=3,1 kHz audio, voice band data via modem, synchronous mode, user rate 9,6 kbit/s (EN 300 403-1 [1] )<br><br>BC=3,1 kHz audio, LLC=3,1 kHz audio, voice band data via modem, synchronous mode, user rate 9,6 kbit/s (ETS 300 102-1 [46] ) |   |
| <b>PLMN parameter values:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 9,6 kbit/s, LLC=3,1 kHz audio, voice band data via modem, synchronous mode, user rate 9,6 kbit/s   |   |
| <b>Comments:</b>                | According ETS 300 102-1 [46] subclause 4.5.5 NOTE 4 the octets 6, 6a, 6b, 6c in the GSM-BC shall not be mapped to the octets 5a, 5b, 5c and 5d in the ISDN-BC   |   |

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| 710221                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1], subclause 3.1.10,<br>subclause 5.2   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 7.3.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Successful/3,1 kHz audio ex PLMN /TC710221  |   |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio   |   |
| <b>PLMN selection criteria:</b> | Audio  |   |
| <b>Test purpose:</b>            | To verify that progress indicator information included in the ISDN-CONNECT message can be transported correctly to the calling MS.   |   |
| <b>ISDN parameter values:</b>   | B:? SETUP: GSM-BC = 3,1 kHz audio, voice band data via modem<br>B:! CONNECT: progress indicator #2 "destination address is non-ISDN".  |   |
| <b>PLMN parameter values:</b>   | A:! SETUP: GSM-BC = 3,1 kHz audio ex PLMN, voice band data via modem<br>A:? CONNECT: progress indicator #2 "destination address is non-ISDN".  |   |
| <b>Comments:</b>                | The progress indicator information element is transported in the Access Transport parameter of the Answer message (ANM). The access transport parameter will be transported transparently. It is the responsibility of the end points to ensure compatibility. |   |

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| 710222                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 3.1, subclause 5.2  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 7.3.2, subclause 5.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Successful/3,1 kHz audio ex PLMN/TC710222   |  |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio   |  |
| <b>PLMN selection criteria:</b> | Audio  |  |
| <b>Test purpose:</b>            | To verify that progress indicator information included in the ISDN – ALERT message can be transported correctly to the calling MS.   |  |
| <b>ISDN parameter values:</b>   | B:? SETUP: GSM-BC = 3,1 kHz audio, voice band data via modem<br>B:! ALERT: progress indicator #2 "destination address is non-ISDN".  |  |
| <b>PLMN parameter values:</b>   | A:! SETUP: GSM-BC = 3,1 kHz audio ex PLMN, voice band data via modem<br>A:? ALERT: progress indicator #2 "destination address is non-ISDN".  |  |
| <b>Comments:</b>                | The progress indicator information element is transported in the Access Transport parameter of the Address complete message (ACM). The access transport parameter will be transported transparently. It is the responsibility of the end points to ensure compatibility. |  |

## Successful

## UDI

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| 710301                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.2, subclause 4.5.5   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2<br>ETS 300 604 [42], subclause 10.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Successful/UDI/TC710301  |   |
| <b>ISDN selection criteria:</b> | Bearer service UDI  |   |
| <b>PLMN selection criteria:</b> | UDI   |   |
| <b>Test purpose:</b>            | Support of terminal adapters V.110/X.30. Ensure that call establishment and the call clearing procedure is performed correctly when the calling user clears after answer. |   |
| <b>ISDN parameter values:</b>   | BC = UDI, rate adaption V.110/X.30, LLC = UDI, rate adaption V.110/X.30   |   |
| <b>PLMN parameter values:</b>   | GSM-BC = UDI, rate adaption V.110/X.30, LLC= UDI, rate adaption V.110/X.30  |   |
| <b>Comments:</b>                | The user bitrate is out of scope of this test case  |   |



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| 710302                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.2, subclause 4.5.5  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2<br>ETS 300 604 [42], subclause 10.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Successful/UDI/TC710302   |   |
| <b>ISDN selection criteria:</b> | Bearer service UDI   |   |
| <b>PLMN selection criteria:</b> | UDI  |   |
| <b>Test purpose:</b>            | Support of terminal adapters V.110/X.30. Ensure that call establishment and the call clearing procedure is performed correctly when the called user clears after answer. |   |
| <b>ISDN parameter values:</b>   | BC = UDI, rate adaption V.110/X.30, LLC=UDI, rate adaption V.110/X.30  |   |
| <b>PLMN parameter values:</b>   | GSM-BC = UDI, rate adaption V.110/X.30, LLC=UDI, rate adaption V.110/X.30  |   |
| <b>Comments:</b>                | The user bitrate is out of scope of this test case   |   |

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| 710303                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.2, subclause 4.5.5  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2<br>ETS 300 604 [42], subclause 10.2<br>ETS 300 582 [40], Annex B.1.2; B 2.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Successful/UDI/TC710303   |   |
| <b>ISDN selection criteria:</b> | Bearer service UDI   |   |
| <b>PLMN selection criteria:</b> | UDI, asynchronous mode, BS 21  |   |
| <b>Test purpose:</b>            | Support of terminal adapters V.110/X.30. Ensure that the GSM-BC = UDI, V.110/X.30, asynchronous mode, user rate 0.3 kbit/s is correctly mapped and the LLC = UDI, V.110/X.30, asynchronous mode, user rate 0,3 kbit/s is correctly delivered to the called user. |   |
| <b>ISDN parameter values:</b>   | BC = UDI, V.110/X.30, asynchronous mode, user rate 0.3 kbit/s,<br>LLC=UDI, V.110/X.30, asynchronous mode, user rate 0,3 kbit/s   |   |
| <b>PLMN parameter values:</b>   | GSM-BC = UDI, V.110/X.30, asynchronous mode, user rate 0.3 kbit/s,<br>LLC=UDI, V.110/X.30, asynchronous mode, user rate 0,3 kbit/s   |   |
| <b>Comments:</b>                |  |   |

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| 710304                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.2, subclause 4.5.5   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2<br>ETS 300 604 [42], subclause 10.2<br>ETS 300 582 [40], Annex B.1.2; B 2.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Successful/UDI/TC710304  |   |
| <b>ISDN selection criteria:</b> | Bearer service UDI, V.110/X.30 rate adaption  |   |
| <b>PLMN selection criteria:</b> | UDI, asynchronous mode, BS 22   |   |
| <b>Test purpose:</b>            | Support of terminal adapters V.110/X.30. Ensure that the GSM-BC=UDI/X.30 [49] asynchronous mode, user rate 1,2 kbit/s is correctly mapped and the LLC = UDI, V.110/X.30, asynchronous mode, user rate 1,2 kbit/s is correctly delivered to the called user. |   |
| <b>ISDN parameter values:</b>   | BC = UDI, V.110/X.30, asynchronous mode, user rate 1,2 kbit/s,<br>LLC=UDI, V.110/X.30, asynchronous mode, user rate 1,2 kbit/s  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI, V.110/X.30, asynchronous mode, user rate 1,2 kbit/s,<br>LLC=UDI, V.110/X.30, asynchronous mode, user rate 1,2 kbit/s  |   |
| <b>Comments:</b>                |   |   |

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| 710305                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.2, subclause 4.5.5  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2<br>ETS 300 604 [42], subclause 10.2<br>ETS 300 582 [40], Annex B.1.2; B 2.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Successful/UDI/TC710305   |   |
| <b>ISDN selection criteria:</b> | Bearer service UDI, V.110/X.30 rate adaption   |   |
| <b>PLMN selection criteria:</b> | UDI, asynchronous mode, BS 24  |   |
| <b>Test purpose:</b>            | Support of terminal adapters V.110/X.30. Ensure that the GSM-BC = UDI, V.110/X.30, asynchronous mode, user rate 2,4 kbit/s is correctly mapped and the LLC=UDI, V.110/X.30, asynchronous mode, user rate 2,4 kbit/s is correctly delivered to the called user. |   |
| <b>ISDN parameter values:</b>   | BC = UDI, V.110/X.30, asynchronous mode, user rate 2,4 kbit/s,<br>LLC=UDI, V.110/X.30, asynchronous mode, user rate 2,4 kbit/s   |   |
| <b>PLMN parameter values:</b>   | GSM-BC = UDI, V.110/X.30, asynchronous mode, user rate 2,4 kbit/s,<br>LLC=UDI, V.110/X.30, asynchronous mode, user rate 2,4 kbit/s   |   |
| <b>Comments:</b>                |  |   |

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| 710306                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.2, subclause 4.5.5   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2<br>ETS 300 604 [42], subclause 10.2<br>ETS 300 582 [40], Annex B.1.2; B 2.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Successful/UDI/TC710306  |   |
| <b>ISDN selection criteria:</b> | Bearer service UDI  |   |
| <b>PLMN selection criteria:</b> | UDI, asynchronous mode, BS 25   |   |
| <b>Test purpose:</b>            | Support of terminal adapters V.110/X.30. Ensure that the BC = UDI, V.110/X.30, asynchronous mode, user rate 4,8 kbit/s, is correctly mapped and the LLC=UDI, V.110/X.30, asynchronous mode, user rate 4,8 kbit/s is correctly delivered to the called user. |   |
| <b>ISDN parameter values:</b>   | BC = UDI, V.110/X.30, asynchronous mode, user rate 4,8 kbit/s,<br>LLC=UDI, V.110/X.30, asynchronous mode, user rate 4,8 kbit/s  |   |
| <b>PLMN parameter values:</b>   | GSM-BC = UDI, V.110/X.30, asynchronous mode, user rate 4,8 kbit/s,<br>LLC=UDI, V.110/X.30, asynchronous mode, user rate 4,8 kbit/s  |   |
| <b>Comments:</b>                |   |   |

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| 710307                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.2, subclause 4.5.5  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2<br>ETS 300 604 [42], subclause 10.2<br>ETS 300 582 [40], Annex B.1.2; B 2.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Successful/UDI /TC710307  |   |
| <b>ISDN selection criteria:</b> | Bearer service UDI   |   |
| <b>PLMN selection criteria:</b> | UDI, asynchronous mode, BS 26  |   |
| <b>Test purpose:</b>            | Support of terminal adapters V.110/X.30. Ensure that the BC = UDI, V.110/X.30, asynchronous mode, user rate 9,6 kbit/s is correctly mapped and the LLC = UDI, V.110/X.30, asynchronous mode, user rate 9,6 kbit/s is correctly delivered to the called user. |   |
| <b>ISDN parameter values:</b>   | BC = UDI, V.110/X.30, asynchronous mode, user rate 9,6 kbit/s,<br>LLC=UDI, V.110/X.30, asynchronous mode, user rate 9,6 kbit/s   |   |
| <b>PLMN parameter values:</b>   | GSM-BC = UDI, V.110/X.30, asynchronous mode, user rate 9,6 kbit/s,<br>LLC=UDI, V.110/X.30, asynchronous mode, user rate 9,6 kbit/s   |   |
| <b>Comments:</b>                |  |   |

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| 710308                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.2, subclause 4.5.5   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2<br>ETS 300 604 [42], subclause 10.2<br>ETS 300 582 [40], Annex B.1.3; B 2.3 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Successful/UDI/TC710308  |   |
| <b>ISDN selection criteria:</b> | Bearer service UDI  |   |
| <b>PLMN selection criteria:</b> | UDI, synchronous mode, BS 31  |   |
| <b>Test purpose:</b>            | Support of terminal adapters V.110/X.30 Ensure that the GSM-BC = UDI, V.110/X.30, synchronous mode, user rate 1,2 kbit/s is correctly mapped and the LLC=UDI, V.110/X.30, synchronous mode, user rate 1,2 kbit/s is correctly delivered to the called user. |   |
| <b>ISDN parameter values:</b>   | BC = UDI, V.110/X.30, synchronous mode, user rate 1,2 kbit/s,<br>LLC=UDI, V.110/X.30, synchronous mode, user rate 1,2 kbit/s  |   |
| <b>PLMN parameter values:</b>   | GSM-BC = UDI, V.110/X.30, synchronous mode, user rate 1,2 kbit/s,<br>LLC=UDI, V.110/X.30, synchronous mode, user rate 1,2 kbit/s  |   |
| <b>Comments:</b>                |   |   |

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| 710309                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.2, subclause 4.5.5  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2<br>ETS 300 604 [42], subclause 10.2<br>ETS 300 582 [40], Annex B.1.2; B 2.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Successful/UDI/TC710309   |   |
| <b>ISDN selection criteria:</b> | Bearer service UDI   |   |
| <b>PLMN selection criteria:</b> | UDI, synchronous mode, BS 32   |   |
| <b>Test purpose:</b>            | Support of terminal adapters V.110/X.30. Ensure that the GSM-BC = UDI, V.110/X.30, synchronous mode, user rate 2,4 kbit/s is correctly mapped and the LLC=UDI, V.110/X.30, synchronous mode, user rate 2,4 kbit/s is correctly delivered to the called user. |   |
| <b>ISDN parameter values:</b>   | BC = UDI, V.110/X.30, synchronous mode, user rate 2,4 kbit/s,<br>LLC=UDI, V.110/X.30, synchronous mode, user rate 2,4 kbit/s   |   |
| <b>PLMN parameter values:</b>   | GSM-BC = UDI, V.110/X.30, synchronous mode, user rate 2,4 kbit/s,<br>LLC=UDI, V.110/X.30, synchronous mode, user rate 2,4 kbit/s   |   |
| <b>Comments:</b>                |  |   |

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| 710310                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.2, subclause 4.5.5   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2<br>ETS 300 604 [42], subclause 10.2<br>ETS 300 582 [40], Annex B.1.2; B 2.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Successful/UDI/TC710310  |   |
| <b>ISDN selection criteria:</b> | Bearer service UDI  |   |
| <b>PLMN selection criteria:</b> | UDI, synchronous mode, BS 33  |   |
| <b>Test purpose:</b>            | Support of terminal adapters V.110/X.30. Ensure that the BC = UDI, V.110/X.30, synchronous mode, user rate 4,8 kbit/s, is correctly mapped and the LLC=UDI, V.110/X.30, synchronous mode, user rate 4,8 kbit/s is correctly delivered to the called user. |   |
| <b>ISDN parameter values:</b>   | BC = UDI, V.110/X.30, synchronous mode, user rate 4,8 kbit/s,<br>LLC=UDI, V.110/X.30, synchronous mode, user rate 4,8 kbit/s  |   |
| <b>PLMN parameter values:</b>   | GSM-BC = UDI, V.110/X.30, synchronous mode, user rate 4,8 kbit/s,<br>LLC=UDI, V.110/X.30, synchronous mode, user rate 4,8 kbit/s  |   |
| <b>Comments:</b>                |   |   |

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| 710311                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.2, subclause 4.5.5  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2<br>ETS 300 604 [42], subclause 10.2<br>ETS 300 582 [40], Annex B.1.2; B 2.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Successful/UDI /TC710311  |   |
| <b>ISDN selection criteria:</b> | Bearer service UDI   |   |
| <b>PLMN selection criteria:</b> | UDI, synchronous mode, BS 34   |   |
| <b>Test purpose:</b>            | Support of terminal adapters V.110/X.30. Ensure that the BC=UDI, V.110/X.30, synchronous mode, user rate 9,6 kbit/s is correctly mapped and the LLC = UDI, V.110/X.30, synchronous mode, user rate 9,6 kbit/s is correctly delivered to the called user. |   |
| <b>ISDN parameter values:</b>   | BC = UDI, V.110/X.30, synchronous mode, user rate 9,6 kbit/s,<br>LLC=UDI, V.110/X.30, synchronous mode, user rate 9,6 kbit/s   |   |
| <b>PLMN parameter values:</b>   | GSM-BC = UDI, V.110/X.30, synchronous mode, user rate 9,6 kbit/s,<br>LLC=UDI, V.110/X.30, synchronous mode, user rate 9,6 kbit/s   |   |
| <b>Comments:</b>                |  |   |

|            |
|------------|
| Successful |
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|                   |
|-------------------|
| Facsimile group 3 |
|-------------------|

|                                 |   |  |
|---------------------------------|---|--|
| 710401                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 4.5.17<br>EG 201 018 [2]   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2<br><br>ETS 300 604 [42], subclause 10.2.2<br><br>ETS 300 582 [40], Annex B.1.1.1 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Successful/Facsimile G3/TC710401   |  |
| <b>ISDN selection criteria:</b> | Telefax G3 terminals  |  |
| <b>PLMN selection criteria</b>  | TS 62   |  |
| <b>Test purpose:</b>            | Support of Telefax G3. Ensure that call establishment and the call clearing procedure is performed correctly when the calling user clears after answer. |  |
| <b>ISDN parameter values:</b>   | BC=3,1 kHz audio, HLC = Facsimile G2/G3   |  |
| <b>PLMN parameter values:</b>   | GSM-BC= facsimile G3, no HLC  |  |
| <b>Comments:</b>                |   |  |

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| 710402                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 4.5.17  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2<br><br>ETS 300 604 [42], subclause 10.2.2<br><br>ETS 300 582 [40], Annex B.1.1.1; B 2.11 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Successful/Facsimile G3/TC710402  |  |
| <b>ISDN selection criteria:</b> | Telefax G3 terminals   |  |
| <b>PLMN selection criteria</b>  | TS 62  |  |
| <b>Test purpose:</b>            | Support of Telefax G3. Ensure that call establishment and the call clearing procedure is performed correctly when the called user clears after answer. |  |
| <b>ISDN parameter values:</b>   | BC=3,1 kHz audio, HLC = Facsimile G2/G3  |  |
| <b>PLMN parameter values:</b>   | GSM-BC= facsimile G3, HLC = Facsimile G2/G3  |  |
| <b>Comments:</b>                |  |  |

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|---------------------------------|--|---|
| 710403                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 4.5.17  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.1<br>ETS 300 604 [42], subclause 10.2<br>ETS 300 582 [40], Annex B.1.11 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Successful/Facsimile G3/TC710403  |   |
| <b>ISDN selection criteria:</b> | Telefax G3 terminals   |   |
| <b>PLMN selection criteria</b>  | TS 62  |   |
| <b>Test purpose:</b>            | Support of Telefax G3. Ensure that the GSM BC-IE representing facsimile group 3 is correctly mapped to the ISDN BC value "3,1 kHz audio" and the HLC "facsimile G2/G3" inserted by the network are delivered to the called user. |   |
| <b>ISDN parameter values:</b>   | BC= 3,1 kHz audio, HLC = Facsimile G2/G3   |   |
| <b>PLMN parameter values:</b>   | GSM-BC= facsimile G3, no HLC   |   |
| <b>Comments:</b>                |  |   |

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|---------------------------------|---|---|
| 710404                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 4.5.17   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.1<br>ETS 300 604 [42], subclause 10.2.2<br>ETS 300 582 [40], Annex B.1.11, B.2.11 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Successful/Facsimile G3/TC710404   |   |
| <b>ISDN selection criteria:</b> | Telefax G3 terminals  |   |
| <b>PLMN selection criteria</b>  | TS 62   |   |
| <b>Test purpose:</b>            | Support of Telefax G3. Ensure that the GSM BC-IE representing facsimile group 3 is correctly mapped to the ISDN BC value "3,1 kHz audio" and the HLC "facsimile G2/G3" received from the MS are delivered to the called user. |   |
| <b>ISDN parameter values:</b>   | BC= 3,1 kHz audio, HLC = Facsimile G2/G3  |   |
| <b>PLMN parameter values:</b>   | GSM-BC= facsimile G3, HLC = Facsimile G2/G3   |   |
| <b>Comments:</b>                |   |   |

Successful

Alternate speech and facsimile group 3

|                                 |  |   |
|---------------------------------|--|---|
| 710501                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 4.5.5, subclause 5.2  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.1<br>ETS 300 604 [42], subclause 10.2.2<br>ETS 300 582 [40], Annex B.1.10 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Successful/Alternate speech and facsimile G3/<br>TC710501   |   |
| <b>ISDN selection criteria:</b> | Telefax G3 terminals   |   |
| <b>PLMN selection criteria:</b> | TS 61  |   |
| <b>Test purpose:</b>            | Ensure that call establishment and the call clearing procedure is performed correctly when the calling user clears after answer. |   |
| <b>ISDN parameter values:</b>   | BC= 3,1 kHz audio, no HLC  |   |
| <b>PLMN parameter values:</b>   | first GSM-BC=speech<br>second GSM-BC= facsimile G3, no HLC   |   |
| <b>Comments:</b>                |  |   |

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|---------------------------------|---|---|
| 710502                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 4.5.5, subclause 5.2   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2<br>ETS 300 604 [42], subclause 10.2.2<br>ETS 300 582 [40], Annex B.1.10 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Successful/Alternate speech and facsimile G3/<br>TC710502  |   |
| <b>ISDN selection criteria:</b> | Telefax G3 terminals  |   |
| <b>PLMN selection criteria:</b> | TS 61   |   |
| <b>Test purpose:</b>            | Ensure that call establishment and the call clearing procedure is performed correctly when the called user clears after answer. |   |
| <b>ISDN parameter values:</b>   | BC= 3,1 kHz audio, no HLC   |   |
| <b>PLMN parameter values:</b>   | first GSM-BC=speech<br>second GSM-BC= facsimile G3, no HLC  |   |
| <b>Comments:</b>                |   |   |



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| 710503                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 4.5.5, subclause 5.1   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2<br>ETS 300 604 [42], subclause 10.2.2<br>ETS 300 582 [40], Annex B.1.10 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Successful/Alternate speech and facsimile G3/<br>TC710503  |   |
| <b>ISDN selection criteria:</b> | Telefax G3 terminals  |   |
| <b>PLMN selection criteria:</b> | TS 61   |   |
| <b>Test purpose:</b>            | Ensure that the repeated GSM BC-IE (preceded by a repeat indicator "circular"), the first indicating "speech" and the second indicating the service "facsimile G3" are mapped to the ISDN BC value "3,1 kHz audio". |   |
| <b>ISDN parameter values:</b>   | BC= 3,1 kHz audio, no HLC   |   |
| <b>PLMN parameter values:</b>   | first GSM-BC=speech<br>second GSM-BC= facsimile G3, no HLC  |   |
| <b>Comments:</b>                |   |   |

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| 710504                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 4.5.5, subclause 5.2   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2<br>ETS 300 604 [42], subclause 10.2.2<br>ETS 300 582 [40], Annex B.1.10 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Successful/Alternate speech and facsimile G3/<br>TC710504  |   |
| <b>ISDN selection criteria:</b> | Telefax G3 terminals  |   |
| <b>PLMN selection criteria:</b> | TS 61   |   |
| <b>Test purpose:</b>            | Ensure that the repeated GSM BC-IE (preceded by a repeat indicator "circular"), the first indicating "speech" and the second indicating the service "facsimile G3" are mapped to the ISDN BC value "3,1 kHz audio" without HLC. |   |
| <b>ISDN parameter values:</b>   | BC= 3,1 kHz audio, no HLC   |   |
| <b>PLMN parameter values:</b>   | first GSM-BC=speech<br>second GSM-BC= facsimile G3, HLC= Facsimile G2/G3  |   |
| <b>Comments:</b>                |   |   |

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| 710506                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 4.5.5, subclause 5.2  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2<br>ETS 300 604 [42], subclause 10.2.2<br>ETS 300 582 [40], Annex B.1.10 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Successful/Alternate speech and facsimile G3/<br>TC710506   |   |
| <b>ISDN selection criteria:</b> | Telefax G3 terminals   |   |
| <b>PLMN selection criteria:</b> | TS 61  |   |
| <b>Test purpose:</b>            | Ensure that the repeated GSM BC-IE (preceded by a repeat indicator "circular"), the first indicating the service "facsimile G3" and the second indicating "speech" are mapped to the ISDN BC value "3,1 kHz audio" with the HLC = Facsimile G2/G3. |   |
| <b>ISDN parameter values:</b>   | BC= 3,1 kHz audio, HLC = Facsimile G2/G3   |   |
| <b>PLMN parameter values:</b>   | first GSM-BC = Facsimile G3, no HLC<br>second GSM-BC=speech  |   |
| <b>Comments:</b>                |  |   |

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| 710507                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 4.5.5, subclause 5.2  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2<br>ETS 300 604 [42], subclause 10.2.2<br>ETS 300 582 [40], Annex B.1.10 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Successful/Alternate speech and facsimile G3/<br>TC710507   |   |
| <b>ISDN selection criteria:</b> | Telefax G3 terminals   |   |
| <b>PLMN selection criteria:</b> | TS 61  |   |
| <b>Test purpose:</b>            | Ensure that the repeated GSM BC-IE (preceded by a repeat indicator "circular"), the first indicating the service "facsimile G3" and the second indicating "speech" are mapped to the ISDN BC value "3,1 kHz audio" with the HLC = Facsimile G2/G3. |   |
| <b>ISDN parameter values:</b>   | BC= 3,1 kHz audio, HLC = Facsimile G2/G3   |   |
| <b>PLMN parameter values:</b>   | first GSM-BC = Facsimile G3, HLC = Facsimile G2/G3<br>second GSM-BC=speech   |   |
| <b>Comments:</b>                |  |   |

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| Successful              |
| Alternate Speech / Data |

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| 710601                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 4.5.5, subclause 5.2  | <b>PLMN ref. To:</b><br>ETS 300 557 [35], subclause 5.2<br>ETS 300 604 [42], subclause 10.3.1.2<br>ETS 300 582 [40], Annex B.1.6 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Successful/Alternate speech and data/<br>TC710601   |  |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio   |  |
| <b>PLMN selection criteria:</b> | BS 61  |  |
| <b>Test purpose:</b>            | Ensure that call establishment and the call clearing procedure is performed correctly when the calling user clears after answer. |  |
| <b>ISDN parameter values:</b>   | BC= 3,1 kHz audio, no HLC  |  |
| <b>PLMN parameter values:</b>   | first GSM-BC=speech<br>second GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 1,2 kbit/s    |  |
| <b>Comments:</b>                |  |  |

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| 710602                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 4.5.5, subclause 5.1   | <b>PLMN ref. To:</b><br>ETS 300 557 [35], subclause 5.2<br>ETS 300 604 [42], subclause 10.3.1.2<br>ETS 300 582 [40], B 1.6 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Successful/Alternate speech and data/<br>TC710602  |  |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio  |  |
| <b>PLMN selection criteria:</b> | BS 61   |  |
| <b>Test purpose:</b>            | Ensure that call establishment and the call clearing procedure is performed correctly when the called user clears after answer.   |  |
| <b>ISDN parameter values:</b>   | BC= 3,1 kHz audio, no HLC   |  |
| <b>PLMN parameter values:</b>   | first GSM-BC=speech<br>second GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 1,2 kbit/s, LLC=3,1 kHz audio, voice band data via modem, synchronous mode, user rate 1,2 kbit/s |  |
| <b>Comments:</b>                |   |  |

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|---------------------------------|---|--|
| 710603                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 4.5.5, subclause 5.1   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2<br>ETS 300 604 [42], subclause 10.3.1.2<br>ETS 300 582 [40], B 1.6 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Successful/Alternate speech and data/<br>TC710603  |  |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio  |  |
| <b>PLMN selection criteria:</b> | BS 61   |  |
| <b>Test purpose:</b>            | Ensure that the repeated GSM BC-IE (preceded by a repeat indicator "circular"), the first indicating "speech" and the second indicating the appropriate data service with the ITC "3,1 kHz audio ex PLMN are mapped to the ISDN BC value "3,1 kHz audio". |  |
| <b>ISDN parameter values:</b>   | BC= 3,1 kHz audio, no HLC   |  |
| <b>PLMN parameter values:</b>   | first GSM-BC=speech<br>second GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 1,2 kbit/s   |  |
| <b>Comments:</b>                |   |  |

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| 710604                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 4.5.5, subclause 5.2  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2<br>ETS 300 604 [42], subclause 10.3.1.2<br>ETS 300 582 [40], B 1.6 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Successful/Alternate speech and data/<br>TC710604   |  |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio   |  |
| <b>PLMN selection criteria:</b> | BS 61  |  |
| <b>Test purpose:</b>            | Ensure that the repeated GSM BC-IE (preceded by a repeat indicator "circular"), the first indicating "speech" and the second indicating the appropriate data service with the ITC "3,1 kHz audio ex PLMN) and LLC are mapped to the ISDN BC value "3,1 kHz audio" without LLC. |  |
| <b>ISDN parameter values:</b>   | BC= 3,1 kHz audio, no HLC  |  |
| <b>PLMN parameter values:</b>   | first GSM-BC=speech<br>second GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 1,2 kbit/s, LLC=3,1 kHz audio, voice band data via modem, synchronous mode, user rate 1,2 kbit/s  |  |
| <b>Comments:</b>                |  |  |

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| Successful |
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| Speech followed by data |
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| 710701                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 4.5.5, subclause 5.2  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.1<br>ETS 300 604 [42], subclause 10.2.2<br>ETS 300 582 [40], B.1.7 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Successful/Speech followed by data/<br>TC710701   |  |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio   |  |
| <b>PLMN selection criteria:</b> | BS 81  |  |
| <b>Test purpose:</b>            | Ensure that call establishment and the call clearing procedure is performed correctly when the calling user clears after answer. |  |
| <b>ISDN parameter values:</b>   | BC= 3,1 kHz audio, no HLC  |  |
| <b>PLMN parameter values:</b>   | first GSM-BC=speech<br>second GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 1,2 kbit/s    |  |
| <b>Comments:</b>                |  |  |

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|---------------------------------|---|---|
| 710702                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 4.5.5, subclause 5.2   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2<br>ETS 300 604 [42], subclause 10.2.2<br>ETS 300 582 [40], Annex B.1.7, B.2.7.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Successful/Speech followed by data/TC710702  |   |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio  |   |
| <b>PLMN selection criteria:</b> | BS 81   |   |
| <b>Test purpose:</b>            | Ensure that call establishment and the call clearing procedure is performed correctly when the called user clears after answer.   |   |
| <b>ISDN parameter values:</b>   | BC= 3,1 kHz audio, no HLC   |   |
| <b>PLMN parameter values:</b>   | first GSM-BC=speech<br>second GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 1,2 kbit/s, LLC=3,1 kHz audio, voice band data via modem, synchronous mode, user rate 1,2 kbit/s |   |
| <b>Comments:</b>                |   |   |

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| 710703                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 4.5.5, subclause 5.2  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2<br>ETS 300 604 [42], subclause 10.2.2<br>ETS 300 582 [40], Annex B.1.7, B.2.7.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Successful/Speech followed by data/<br>TC710703   |   |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio   |   |
| <b>PLMN selection criteria:</b> | BS 81  |   |
| <b>Test purpose:</b>            | Ensure that the repeated GSM BC-IE (preceded by a repeat indicator "sequential"), the first indicating "speech" and the second indicating the appropriate data service with the ITC "3,1 kHz audio ex PLMN) are mapped to the ISDN BC value "3,1 kHz audio". |   |
| <b>ISDN parameter values:</b>   | BC= 3,1 kHz audio, no HLC  |   |
| <b>PLMN parameter values:</b>   | first GSM-BC=speech<br>second GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 1,2 kbit/s  |   |
| <b>Comments:</b>                |  |   |

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|---------------------------------|--|--|
| 710704                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 4.5.5, subclause 5.2  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.1<br>ETS 300 604 [42], subclause 10.2.2<br>ETS 300 582 [40], Annex B.1.7, B.2.7.1, |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Successful/Speech followed by data/TC710704   |  |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio   |  |
| <b>PLMN selection criteria:</b> | BS 81  |  |
| <b>Test purpose:</b>            | Ensure that the repeated GSM BC-IE (preceded by a repeat indicator "sequential"), the first indicating "speech" and the second indicating the appropriate data service with the ITC "3,1 kHz audio ex PLMN) and LLC are mapped to the ISDN BC value "3,1 kHz audio" without LLC. |  |
| <b>ISDN parameter values:</b>   | BC= 3,1 kHz audio, no HLC  |  |
| <b>PLMN parameter values:</b>   | first GSM-BC=speech<br>second GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 1,2 kbit/s, LLC=3,1 kHz audio, voice band data via modem, synchronous mode, user rate 1,2 kbit/s  |  |
| <b>Comments:</b>                |  |  |

|                                 |  |  |
|---------------------------------|--|--|
| 710705                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 4.5.5, subclause 5.2  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2<br>ETS 300 604 [42], subclause 10.2.2<br>ETS 300 582 [40], Annex B.1.7 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Successful/Speech followed by data/<br>TC710705   |  |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio   |  |
| <b>PLMN selection criteria:</b> | BS 81  |  |
| <b>Test purpose:</b>            | Ensure that the repeated GSM BC-IE (preceded by a repeat indicator "sequential"), the first indicating "speech" and the second indicating the appropriate data service with the ITC "3,1 kHz audio ex PLMN) are mapped to the ISDN BC value "3,1 kHz audio". |  |
| <b>ISDN parameter values:</b>   | BC= 3,1 kHz audio, no HLC  |  |
| <b>PLMN parameter values:</b>   | first GSM-BC=speech<br>second GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s   |  |
| <b>Comments:</b>                |  |  |

|                                 |  |   |
|---------------------------------|--|---|
| 710706                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 4.5.5, subclause 5.2  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.1<br>ETS 300 582 [40], Annex B.1.7, B.2.7.1 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Successful/Speech followed by data/TC710706   |   |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio   |   |
| <b>PLMN selection criteria:</b> | BS 81  |   |
| <b>Test purpose:</b>            | Ensure that the repeated GSM BC-IE (preceded by a repeat indicator "sequential"), the first indicating "speech" and the second indicating the appropriate data service with the ITC "3,1 kHz audio ex PLMN) and LLC are mapped to the ISDN BC value "3,1 kHz audio" without LLC. |   |
| <b>ISDN parameter values:</b>   | BC= 3,1 kHz audio, no HLC  |   |
| <b>PLMN parameter values:</b>   | first GSM-BC=speech<br>second GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s, LLC=3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s  |   |
| <b>Comments:</b>                |  |   |



# Successful

## Emergency Calls

|                                 |  |   |
|---------------------------------|--|---|
| 710801                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 4.5.5,<br>subclause 5.2   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2<br>ETS 300 604 [42], subclause 10.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Successful/Emergency Call /TC710801   |   |
| <b>ISDN selection criteria:</b> | Emergency service, bearer service speech   |   |
| <b>PLMN selection criteria:</b> | TS 12  |   |
| <b>Test purpose:</b>            | Emergency call from a MS with a valid SIM card. Ensure that call establishment and the call clearing procedure is performed correctly when the calling user clears after answer. |   |
| <b>ISDN parameter values:</b>   | BC=speech, no HLC  |   |
| <b>PLMN parameter values:</b>   | EMERGENCY SETUP; GSM-BC=speech, no HLC   |   |
| <b>Comments:</b>                |  |   |

|                                 |   |   |
|---------------------------------|---|---|
| 710802                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 4.5.5,<br>subclause 5.2  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.1<br>ETS 300 604 [42], subclause 10.2.1 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Successful/ Emergency Call /TC710802   |   |
| <b>ISDN selection criteria:</b> | Emergency service, bearer service speech  |   |
| <b>PLMN selection criteria:</b> | TS 12;  |   |
| <b>Test purpose:</b>            | Emergency call from a MS with a valid SIM card. Ensure that call establishment and the call clearing procedure is performed correctly when the called user clears after answer. |   |
| <b>ISDN parameter values:</b>   | BC=speech, no HLC   |   |
| <b>PLMN parameter values:</b>   | EMERGENCY SETUP; GSM-BC=speech, no HLC  |   |
| <b>Comments:</b>                |   |   |

|                                 |   |   |
|---------------------------------|---|---|
| 710803                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 4.5.5,<br>subclause 5.2  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2<br>ETS 300 604 [42], subclause 10.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Successful/ Emergency Call /TC710803   |   |
| <b>ISDN selection criteria:</b> | Emergency service, bearer service speech  |   |
| <b>PLMN selection criteria:</b> | TS 12   |   |
| <b>Test purpose:</b>            | Emergency call from a MS without a SIM card. Ensure that call establishment and the call clearing procedure is performed correctly when the calling user clears after answer. |   |
| <b>ISDN parameter values:</b>   | BC=speech, no HLC   |   |
| <b>PLMN parameter values:</b>   | EMERGENCY SETUP; GSM-BC=speech, no HLC  |   |
| <b>Comments:</b>                | It is an option of the network operator whether to accept emergency calls coming from MSs which do not transmit an IMSI or a TMSI.  |   |

|                                 |  |   |
|---------------------------------|--|---|
| 710804                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 4.5.5,<br>subclause 5.2   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 4.5.1.5 subclause 5.2.1<br>ETS 300 604 [42], subclause 10.2.1 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Successful/ Emergency Call /TC710804  |   |
| <b>ISDN selection criteria:</b> | Emergency service, bearer service speech   |   |
| <b>PLMN selection criteria:</b> | TS 12  |   |
| <b>Test purpose:</b>            | Emergency call from a MS without a SIM card. Ensure that call establishment and the call clearing procedure is performed correctly when the called user clears after answer. |   |
| <b>ISDN parameter values:</b>   | BC=speech, no HLC  |   |
| <b>PLMN parameter values:</b>   | EMERGENCY SETUP; GSM-BC=speech, no HLC   |   |
| <b>Comments:</b>                | It is an option of the network operator whether to accept emergency calls coming from MSs which do not transmit an IMSI or a TMSI.   |   |

|                                 |   |   |
|---------------------------------|---|---|
| 710805                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 4.5.5,<br>subclause 5.2  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 4.5.1.5 subclause 5.2<br>ETS 300 604 [42], subclause 10.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Successful/ Emergency Call /TC710805   |   |
| <b>ISDN selection criteria:</b> | Emergency service, bearer service speech  |   |
| <b>PLMN selection criteria:</b> | TS 12   |   |
| <b>Test purpose:</b>            | Emergency call from a MS when the IMSI contained in the SIM Card is not recognized by the VLR. Ensure that call establishment and the call clearing procedure is performed correctly when the calling user clears after answer. |   |
| <b>ISDN parameter values:</b>   | BC=speech, no HLC   |   |
| <b>PLMN parameter values:</b>   | EMERGENCY SETUP; GSM-BC=speech, no HLC  |   |
| <b>Comments:</b>                | It is an option of the network operator whether to accept emergency calls coming from MSs when the IMSI contained in the SIM Card is not recognized by the VLR.   |   |

|                                 |  |   |
|---------------------------------|--|---|
| 710806                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 4.5.5,<br>subclause 5.2   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 4.5.1.5 subclause 5.2.1<br>ETS 300 604 [42], subclause 10.2.1 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Successful/ Emergency Call /TC710806  |   |
| <b>ISDN selection criteria:</b> | Emergency service, bearer service speech   |   |
| <b>PLMN selection criteria:</b> | TS 12  |   |
| <b>Test purpose:</b>            | Emergency call from a MS when the IMSI contained in the SIM Card is not recognized by the VLR. Ensure that call establishment and the call clearing procedure is performed correctly when the called user clears after answer. |   |
| <b>ISDN parameter values:</b>   | BC=speech, no HLC  |   |
| <b>PLMN parameter values:</b>   | EMERGENCY SETUP; GSM-BC=speech, no HLC   |   |
| <b>Comments:</b>                | It is an option of the network operator whether to accept emergency calls coming from MSs when the IMSI contained in the SIM Card is not recognized by the VLR.  |   |

## 6.2.7.2 Unsuccessful

|              |
|--------------|
| Unsuccessful |
| speech       |

|                                 |  |   |
|---------------------------------|--|---|
| 720101                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1], subclause 5.2  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.1.1 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Unsuccessful/Speech/TC720101  |   |
| <b>ISDN selection criteria:</b> | Speech   |   |
| <b>PLMN selection criteria:</b> | TS 11  |   |
| <b>Test purpose:</b>            | Ensure that, when calling to unallocated number, the network initiate call clearing to the calling user with cause value #1 "unassigned (unallocated) number". |   |
| <b>ISDN parameter values:</b>   |  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |   |
| <b>Comments:</b>                | NOTE: Some ISDNs provide announcements instead of sending cause value # 1.   |   |

|                                 |  |   |
|---------------------------------|--|---|
| 720102                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1], subclause 5.2  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.1.6 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Unsuccessful/Speech/TC720102  |   |
| <b>ISDN selection criteria:</b> | Bearer service speech;   |   |
| <b>PLMN selection criteria:</b> | TS 11  |   |
| <b>Test purpose:</b>            | Ensure that, when the called user is busy (UDUB) and responds with RELEASE COMPLETE indicating cause value #17 "user busy", the network transport the cause value to the calling user. |   |
| <b>ISDN parameter values:</b>   | BC=speech  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |   |
| <b>Comments:</b>                |  |   |

|                                 |   |   |
|---------------------------------|---|---|
| 720103                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.2  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], H.1.7<br><br>ETS 300 599 [41], subclause 18.2, subclause 18.3.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Unsuccessful/Speech/TC720103   |   |
| <b>ISDN selection criteria:</b> | Bearer service speech;  |   |
| <b>PLMN selection criteria:</b> | TS 11   |   |
| <b>Test purpose:</b>            | 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". |   |
| <b>ISDN parameter values:</b>   | BC=speech   |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |   |
| <b>Comments:</b>                |   |   |

|                                 |   |   |
|---------------------------------|---|---|
| 720104                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.2  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.1.8 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Unsuccessful/Speech/TC720104   |   |
| <b>ISDN selection criteria:</b> | Bearer service speech;  |   |
| <b>PLMN selection criteria:</b> | TS 11   |   |
| <b>Test purpose:</b>            | Ensure that when there is no answer from the called user (but user alerted), the network initiate call clearing to the calling user with a DISCONNECT message indicating cause value #19 "no answer from user (user alerted)" and sends to the called user a RELEASE message indicating cause # 102 "recovery on timer expire". |   |
| <b>ISDN parameter values:</b>   | BC=speech   |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |   |
| <b>Comments:</b>                |   |   |

|                                 |   |  |
|---------------------------------|---|--|
| 720105                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.1.9,<br>subclause 5.3.2, Annex M   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.1, Annex H.1.9 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Unsuccessful/Speech/TC720105   |  |
| <b>ISDN selection criteria:</b> | Bearer service speech;  |  |
| <b>PLMN selection criteria:</b> | TS 11   |  |
| <b>Test purpose:</b>            | 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. |  |
| <b>ISDN parameter values:</b>   | BC=speech   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |  |
| <b>Comments:</b>                |   |  |

|                                 |   |   |
|---------------------------------|---|---|
| 720106                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.2,<br>Annex M;<br>ETS 300 557 [35] Annex B.3.2   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.5.3 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Unsuccessful/Speech/TC720106   |   |
| <b>ISDN selection criteria:</b> | Bearer service speech   |   |
| <b>PLMN selection criteria:</b> | TS 11   |   |
| <b>Test purpose:</b>            | Ensure that when the called user is not compatible and responds with a RELEASE COMPLETE message indicating cause value #88 "incompatible destination", the network transport the cause value to the calling user. |   |
| <b>ISDN parameter values:</b>   | BC=speech   |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |   |
| <b>Comments:</b>                |   |   |

|                                 |  |   |
|---------------------------------|--|---|
| 720107                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1], Annex M  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.1.5 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Unsuccessful/Speech/TC720107  |   |
| <b>ISDN selection criteria:</b> | Bearer service speech  |   |
| <b>PLMN selection criteria:</b> | TS 11  |   |
| <b>Test purpose:</b>            | 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. |   |
| <b>ISDN parameter values:</b>   | BC=speech  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |   |
| <b>Comments:</b>                |  |   |

Unsuccessful

3,1 kHz audio ex PLMN

|                                 |  |   |
|---------------------------------|--|---|
| 720201                          | <b>ISDN ref. to:</b><br>300 403-1, subclause 5.2.1   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.1.1 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Unsuccessful/3,1 kHz audio ex PLMN /TC720201  |   |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio   |   |
| <b>PLMN selection criteria:</b> | Audio  |   |
| <b>Test purpose:</b>            | Ensure that, when calling to unallocated number, the network initiate call clearing to the calling user with cause value #1 "unassigned (unallocated) number". |   |
| <b>ISDN parameter values:</b>   |  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem  |   |
| <b>Comments:</b>                | NOTE: Some ISDNs provide announcements instead of sending cause value # 1.   |   |

|                                 |  |   |
|---------------------------------|--|---|
| 720202                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1], 5.2.5.3  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.1.6 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Unsuccessful/3,1 kHz audio ex PLMN /TC720202  |   |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio   |   |
| <b>PLMN selection criteria:</b> | Audio  |   |
| <b>Test purpose:</b>            | Ensure that, when the called user is busy (UDUB) and responds with RELEASE COMPLETE indicating cause value #17 "user busy" the network transports the cause value to the calling user. |   |
| <b>ISDN parameter values:</b>   | BC=3,1 kHz audio, voice band data via modem (EN 300 403-1 [1] )<br>b) BC=3,1 kHz audio (ETS 300 102-1 [46] )   |   |
| <b>PLMN parameter values:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem  |   |
| <b>Comments:</b>                | According ETS 300 102-1 [46] subclause 4.5.5 NOTE 4 the octets 6, 6a, 6b, 6c in the GSM-BC shall not be mapped to the octets 5a, 5b, 5c and 5d in the ISDN-BC                          |   |

|                                 |   |   |
|---------------------------------|---|---|
| 720203                          | <b>ISDN ref. to :</b><br>EN 300 403-1 [1],<br>subclause 5.2.5.4.  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.1.7<br><br>ETS 300 599 [41], subclause 18.2, subclause 18.3.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Unsuccessful/3,1 kHz audio ex PLMN /TC720203   |   |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio  |   |
| <b>PLMN selection criteria:</b> | Audio   |   |
| <b>Test purpose:</b>            | Ensure that when the called user is nor responding, the network initiate call clearing to the calling user with cause value #18 " no user responding".        |   |
| <b>ISDN parameter values:</b>   | BC=3,1 kHz audio, voice band data via modem (EN 300 403-1 [1] )<br>b) BC=3,1 kHz audio (ETS 300 102-1 [46] )  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=3,1 kHz audio ex PLMN  |   |
| <b>Comments:</b>                | According ETS 300 102-1 [46] subclause 4.5.5 NOTE 4 the octets 6, 6a, 6b, 6c in the GSM-BC shall not be mapped to the octets 5a, 5b, 5c and 5d in the ISDN-BC |   |



|                                 |   |   |
|---------------------------------|---|---|
| 720204                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.2.5.4.   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.1.8 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Unsuccessful/3,1 kHz audio ex PLMN /TC720204   |   |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio  |   |
| <b>PLMN selection criteria:</b> | Audio   |   |
| <b>Test purpose:</b>            | Ensure that when there is no answer from the called user (but user alerted), the network initiate call clearing to the calling user with a DISCONNECT message indicating cause value #19 "no answer from user (user alerted)" and sends to the called user a RELEASE message indicating cause # 102 "recovery on timer expire". |   |
| <b>ISDN parameter values:</b>   | BC=3,1 kHz audio, voice band data via modem (EN 300 403-1 [1] )<br>b) BC=3,1 kHz audio (ETS 300 102-1 [46] )  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=3,1 kHz audio ex PLMN  |   |
| <b>Comments:</b>                | According ETS 300 102-1 [46] subclause 4.5.5 NOTE 4 the octets 6, 6a, 6b, 6c in the GSM-BC shall not be mapped to the octets 5a, 5b, 5c and 5d in the ISDN-BC   |   |

|                                 |   |  |
|---------------------------------|---|--|
| 720205                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1], subclause 5.3.2, Annex M  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.2.3.1, Annex H.1.9 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Unsuccessful/3,1 kHz audio ex PLMN /TC720206   |  |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio  |  |
| <b>PLMN selection criteria:</b> | Audio   |  |
| <b>Test purpose:</b>            | 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. |  |
| <b>ISDN parameter values:</b>   | a) BC=3,1 kHz audio, voice band data via modem (EN 300 403-1 [1] )<br>b) BC=3,1 kHz audio (ETS 300 102-1 [46] )   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem   |  |
| <b>Comments:</b>                | According ETS 300 102-1 [46] subclause 4.5.5 NOTE 4 the octets 6, 6a, 6b, 6c in the GSM-BC shall not be mapped to the octets 5a, 5b, 5c and 5d in the ISDN-BC   |  |

|                                 |   |  |
|---------------------------------|---|--|
| 720206                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1], subclause 5.2.2, Annex M  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex B.3.2, H 5.3 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Unsuccessful/3,1 kHz audio ex PLMN /TC720206   |  |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio  |  |
| <b>PLMN selection criteria:</b> | Audio   |  |
| <b>Test purpose:</b>            | Ensure that when the called user is not compatible and responds with a RELEASE COMPLETE message indicating cause value #88 "incompatible destination", the network transport the cause value to the calling user. |  |
| <b>ISDN parameter values:</b>   | a) BC=3,1 kHz audio, voice band data via modem (EN 300 403-1 [1] )<br>b) BC=3,1 kHz audio (ETS 300 102-1 [46] )   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem   |  |
| <b>Comments:</b>                | According ETS 300 102-1 [46] subclause 4.5.5 NOTE 4 the octets 6, 6a, 6b, 6c in the GSM-BC shall not be mapped to the octets 5a, 5b, 5c and 5d in the ISDN-BC   |  |

|                                 |  |   |
|---------------------------------|--|---|
| 720207                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1], Annex M  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.1.5 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Unsuccessful/3,1 kHz audio ex PLMN /TC720207  |   |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio   |   |
| <b>PLMN selection criteria:</b> | Audio  |   |
| <b>Test purpose:</b>            | 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. |   |
| <b>ISDN parameter values:</b>   | a) BC=3,1 kHz audio, voice band data via modem (EN 300 403-1 [1] )<br>b) BC=3,1 kHz audio (ETS 300 102-1 [46] )  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem  |   |
| <b>Comments:</b>                | According ETS 300 102-1 [46] subclause 4.5.5 NOTE 4 the octets 6, 6a, 6b, 6c in the GSM-BC shall not be mapped to the octets 5a, 5b, 5c and 5d in the ISDN-BC                  |   |

|              |
|--------------|
| Unsuccessful |
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|     |
|-----|
| UDI |
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|                                 |  |   |
|---------------------------------|--|---|
| 720301                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1], subclause 5.1.4  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.1.1 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Unsuccessful/UDI/TC720301   |   |
| <b>ISDN selection criteria:</b> | Bearer service UDI   |   |
| <b>PLMN selection criteria:</b> | UDI  |   |
| <b>Test purpose:</b>            | Ensure that, when calling to unallocated number, the network initiate call clearing to the calling user with cause value #1 "unassigned (unallocated) number". |   |
| <b>ISDN parameter values:</b>   |  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption   |   |
| <b>Comments:</b>                |  |   |

|                                 |   |   |
|---------------------------------|---|---|
| 720302                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1], subclause 5.2.5.4.  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.1.6 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Unsuccessful/UDI/TC720302  |   |
| <b>ISDN selection criteria:</b> | Bearer service UDI  |   |
| <b>PLMN selection criteria:</b> | UDI   |   |
| <b>Test purpose:</b>            | Ensure that, when the called user is busy (UDUB) and responds with RELEASE COMPLETE indicating cause value #17 "user busy" the network transport the cause value to the calling user. |   |
| <b>ISDN parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption  |   |
| <b>Comments:</b>                |   |   |

|                                 |   |   |
|---------------------------------|---|---|
| 720303                          | <b>ISDN ref. to :</b><br>EN 300 403-1 [1],<br>subclause 5.2.5.4   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.1.7<br><br>ETS 300 599 [41], subclause 18.2, subclause 18.3.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Unsuccessful/UDI/TC720303  |   |
| <b>ISDN selection criteria:</b> | Bearer service UDI  |   |
| <b>PLMN selection criteria:</b> | UDI   |   |
| <b>Test purpose:</b>            | Ensure that when the called user is nor responding, the network initiate call clearing to the calling user with cause value #18 "no user responding". |   |
| <b>ISDN parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption  |   |
| <b>Comments:</b>                |   |   |

|                                 |   |   |
|---------------------------------|---|---|
| 720304                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.2.5.4  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.1.8 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Unsuccessful/UDI/TC720304  |   |
| <b>ISDN selection criteria:</b> | Bearer service UDI  |   |
| <b>PLMN selection criteria:</b> | UDI   |   |
| <b>Test purpose:</b>            | Ensure that when there is no answer from the called user (but user alerted), the network initiate call clearing to the calling user with a DISCONNECT message indicating cause value #19 "no answer from user (user alerted)" and sends to the called user a RELEASE message indicating cause # 102 "recovery on timer expire". |   |
| <b>ISDN parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption  |   |
| <b>Comments:</b>                |   |   |

|                                 |   |  |
|---------------------------------|---|--|
| 720305                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.3,<br>Annex M  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.2.3.1, Annex H.1.9 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Unsuccessful/UDI/TC720305  |  |
| <b>ISDN selection criteria:</b> | Bearer service UDI  |  |
| <b>PLMN selection criteria:</b> | UDI   |  |
| <b>Test purpose:</b>            | 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. |  |
| <b>ISDN parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption  |  |
| <b>Comments:</b>                |   |  |

|                                 |  |   |
|---------------------------------|--|---|
| 720306                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1], subclause 5.3,<br>Annex M  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.5.3 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Unsuccessful/UDI/TC720306   |   |
| <b>ISDN selection criteria:</b> | Bearer service UDI   |   |
| <b>PLMN selection criteria:</b> | UDI  |   |
| <b>Test purpose:</b>            | Ensure that when the called user is not compatible and responds with a RELEASE COMPLETE message indicating cause value #88 "incompatible destination ", the network transport the cause value to the calling user. |   |
| <b>ISDN parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption   |   |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption   |   |
| <b>Comments:</b>                |  |   |

|                                 |  |   |
|---------------------------------|--|---|
| 720307                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.3,<br>Annex M   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.1.5 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Unsuccessful/UDI/TC720307   |   |
| <b>ISDN selection criteria:</b> | Bearer service UDI   |   |
| <b>PLMN selection criteria:</b> | UDI  |   |
| <b>Test purpose:</b>            | 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. |   |
| <b>ISDN parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption   |   |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption   |   |
| <b>Comments:</b>                |  |   |

Unsuccessful

Facsimile group 3

|                                 |  |   |
|---------------------------------|--|---|
| 720401                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.2   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.1.1 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Unsuccessful/Facsimile G3/TC720401  |   |
| <b>ISDN selection criteria:</b> | Telefax G3 terminals   |   |
| <b>PLMN selection criteria:</b> | TS 62  |   |
| <b>Test purpose:</b>            | Ensure that, when calling to unallocated number, the network initiate call clearing to the calling user with cause value #1 "unassigned (unallocated) number". |   |
| <b>ISDN parameter values:</b>   |  |   |
| <b>PLMN parameter values:</b>   | GSM-BC = facsimile G3  |   |
| <b>Comments:</b>                | NOTE: Some ISDNs provide announcements instead of sending cause value # 1.   |   |

|                                 |  |   |
|---------------------------------|--|---|
| 720402                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.2.5.1   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.1.6 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Unsuccessful/Facsimile G3/TC720402  |   |
| <b>ISDN selection criteria:</b> | Telefax G3 terminals   |   |
| <b>PLMN selection criteria:</b> | TS 62  |   |
| <b>Test purpose:</b>            | Ensure that, when the called user is busy (UDUB) and responds with RELEASE COMPLETE indicating cause value #17 "user busy" the network transports the cause value to the calling user. |   |
| <b>ISDN parameter values:</b>   | BC=3,1 kHz audio, HLC = Facsimile G2/G3  |   |
| <b>PLMN parameter values:</b>   | GSM-BC= facsimile G3   |   |
| <b>Comments:</b>                |  |   |

|                                 |   |   |
|---------------------------------|---|---|
| 720403                          | <b>ISDN ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.2.5.4   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.1.7<br><br>ETS 300 599 [41], subclause 18.2, subclause 18.3.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Unsuccessful/Facsimile G3/TC720403   |   |
| <b>ISDN selection criteria:</b> | Telefax G3 terminals  |   |
| <b>PLMN selection criteria:</b> | TS 62   |   |
| <b>Test purpose:</b>            | Ensure that when the called user is nor responding, the network initiate call clearing to the calling user with cause value #18 "no user responding". |   |
| <b>ISDN parameter values:</b>   | BC=3,1 kHz audio, HLC = Facsimile G2/G3   |   |
| <b>PLMN parameter values:</b>   | GSM-BC = facsimile G3   |   |
| <b>Comments:</b>                |   |   |

|                                 |   |   |
|---------------------------------|---|---|
| 720404                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.2.5.4  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.1.8 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Unsuccessful/Facsimile G3/TC720404   |   |
| <b>ISDN selection criteria:</b> | Telefax G3 terminals  |   |
| <b>PLMN selection criteria:</b> | TS 62   |   |
| <b>Test purpose:</b>            | Ensure that when there is no answer from the called user (but user alerted), the network initiate call clearing to the calling user with a DISCONNECT message indicating cause value #19 "no answer from user (user alerted)" and sends to the called user a RELEASE message indicating cause # 102 "recovery on timer expire". |   |
| <b>ISDN parameter values:</b>   | BC=3,1 kHz audio, HLC = Facsimile G2/G3   |   |
| <b>PLMN parameter values:</b>   | GSM-BC = facsimile G3   |   |
| <b>Comments:</b>                |   |   |

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|---------------------------------|---|--|
| 720405                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1], subclause 5.1.9, subclause 5.3.2, Annex M   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.1, Annex H.1.9 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Unsuccessful/Facsimile G3/TC720405   |  |
| <b>ISDN selection criteria:</b> | Telefax G3 terminals  |  |
| <b>PLMN selection criteria:</b> | TS 62   |  |
| <b>Test purpose:</b>            | 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. |  |
| <b>ISDN parameter values:</b>   | BC=3,1 kHz audio, HLC = Facsimile G2/G3   |  |
| <b>PLMN parameter values:</b>   | GSM-BC = facsimile G3   |  |
| <b>Comments:</b>                |   |  |



|                                 |  |  |
|---------------------------------|--|--|
| 720406                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1], subclause 5.2.2, Annex M   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H. 5.3 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Unsuccessful/Facsimile G3/TC720406  |  |
| <b>ISDN selection criteria:</b> | Telefax G3 terminals   |  |
| <b>PLMN selection criteria:</b> | TS 62  |  |
| <b>Test purpose:</b>            | Ensure that when the called user is not compatible and responds with a RELEASE COMPLETE message indicating cause value #88 " incompatible destination", the network transport the cause value to the calling user. |  |
| <b>ISDN parameter values:</b>   | BC=3,1 kHz audio, HLC = Facsimile G2/G3  |  |
| <b>PLMN parameter values:</b>   | GSM-BC = facsimile G3  |  |
| <b>Comments:</b>                |  |  |

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| 720407                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1], Annex M  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.1.5 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Unsuccessful/Facsimile G3/TC720407  |   |
| <b>ISDN selection criteria:</b> | Telefax G3 terminals   |   |
| <b>PLMN selection criteria:</b> | TS 62  |   |
| <b>Test purpose:</b>            | 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. |   |
| <b>ISDN parameter values:</b>   | BC=3,1 kHz audio, HLC = Facsimile G2/G3  |   |
| <b>PLMN parameter values:</b>   | GSM-BC = facsimile G3  |   |
| <b>Comments:</b>                |  |   |

Unsuccessful

Alternate speech and facsimile group 3

|                                 |  |   |
|---------------------------------|--|---|
| 720501                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.2   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.1.1 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Unsuccessful/Alternate speech and facsimile G3<br>/TC720501   |   |
| <b>ISDN selection criteria:</b> |  |   |
| <b>PLMN selection criteria:</b> | TS 61  |   |
| <b>Test purpose:</b>            | Ensure that, when calling to unallocated number, the network initiate call clearing to the calling user with cause value #1 "unassigned (unallocated) number". |   |
| <b>ISDN parameter values:</b>   |  |   |
| <b>PLMN parameter values:</b>   | first GSM-BC=speech<br>second GSM-BC = Facsimile G3  |   |
| <b>Comments:</b>                | NOTE: Some ISDNs provide announcements instead of sending cause value # 1.   |   |

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| 720502                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1], subclause 5.2.5.1   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.1.6 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Unsuccessful/Alternate speech and facsimile G3<br>/TC720502  |   |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio  |   |
| <b>PLMN selection criteria:</b> | TS 61   |   |
| <b>Test purpose:</b>            | Ensure that, when the called user is busy (UDUB) and responds with RELEASE COMPLETE indicating cause value #17 "user busy", the network transports the cause value to the calling user. |   |
| <b>ISDN parameter values:</b>   | BC = 3,1 kHz audio, no HLC  |   |
| <b>PLMN parameter values:</b>   | first GSM-BC=speech<br>second GSM-BC = Facsimile G3   |   |
| <b>Comments:</b>                |   |   |

|                                 |   |   |
|---------------------------------|---|---|
| 720503                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.2.5.4  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.1.7<br><br>ETS 300 599 [41], subclause 18.2, subclause 18.3.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Unsuccessful/Alternate speech and facsimile G3<br>/TC720503  |   |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio  |   |
| <b>PLMN selection criteria:</b> | TS 61   |   |
| <b>Test purpose:</b>            | 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". |   |
| <b>ISDN parameter values:</b>   | BC = 3,1 kHz audio, no HLC  |   |
| <b>PLMN parameter values:</b>   | first GSM-BC=speech<br><br>second GSM-BC = Facsimile G3   |   |
| <b>Comments:</b>                |   |   |

|                                 |   |   |
|---------------------------------|---|---|
| 720504                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.2.5.4  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.1.8 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Unsuccessful/Alternate speech and facsimile group 3<br>/TC720504   |   |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio  |   |
| <b>PLMN selection criteria:</b> | TS 61   |   |
| <b>Test purpose:</b>            | Ensure that when there is no answer from the called user (but user alerted), the network initiate call clearing to the calling user with a DISCONNECT message indicating cause value #19 "no answer from user (user alerted)" and sends to the called user a RELEASE message indicating cause # 102 "recovery on timer expire". |   |
| <b>ISDN parameter values:</b>   | BC = 3,1 kHz audio, no HLC  |   |
| <b>PLMN parameter values:</b>   | first GSM-BC=speech<br><br>second GSM-BC = Facsimile G3   |   |
| <b>Comments:</b>                |   |   |

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|---------------------------------|---|--|
| 720505                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.1.9,<br>subclause 5.3.2, Annex M   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.1, Annex H.1.9 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Unsuccessful/Alternate speech and facsimile group 3 /TC720505  |  |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio  |  |
| <b>PLMN selection criteria:</b> | TS 61   |  |
| <b>Test purpose:</b>            | 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. |  |
| <b>ISDN parameter values:</b>   | BC = 3,1 kHz audio, no HLC  |  |
| <b>PLMN parameter values:</b>   | first GSM-BC=speech<br>second GSM-BC = Facsimile G3   |  |
| <b>Comments:</b>                |   |  |

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|---------------------------------|---|---|
| 720506                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1], subclause 5.2.2, Annex M  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.5.3 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Unsuccessful/Alternate speech and facsimile G3/TC720506  |   |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio  |   |
| <b>PLMN selection criteria:</b> | TS 61   |   |
| <b>Test purpose:</b>            | Ensure that when the called user is not compatible and responds with a RELEASE COMPLETE message indicating cause value #88 "incompatible destination", the network transport the cause value to the calling user. |   |
| <b>ISDN parameter values:</b>   | BC = 3,1 kHz audio, no HLC  |   |
| <b>PLMN parameter values:</b>   | first GSM-BC=speech<br>second GSM-BC = Facsimile G3   |   |
| <b>Comments:</b>                |   |   |

|                                 |  |   |
|---------------------------------|--|---|
| 720507                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1], Annex M  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.1.5 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Unsuccessful/Alternate speech and facsimile group 3 TC720507  |   |
| <b>ISDN selection criteria:</b> | Bearer service 3,1 kHz audio   |   |
| <b>PLMN selection criteria:</b> | TS 61  |   |
| <b>Test purpose:</b>            | 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. |   |
| <b>ISDN parameter values:</b>   | BC = 3,1 kHz audio, no HLC   |   |
| <b>PLMN parameter values:</b>   | first GSM-BC=speech<br>second GSM-BC = Facsimile G3  |   |
| <b>Comments:</b>                |  |   |

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|--------------|
| Unsuccessful |
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|                 |
|-----------------|
| Emergency Calls |
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|                                 |  |   |
|---------------------------------|--|---|
| 720601                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.2   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.1.1 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Unsuccessful/Emergency Calls/TC720601   |   |
| <b>ISDN selection criteria:</b> | Emergency service; bearer service speech   |   |
| <b>PLMN selection criteria:</b> | TS 12  |   |
| <b>Test purpose:</b>            | Emergency call from a MS with a valid SIM Card. Ensure that, when the called user is busy (UDUB) and responds with RELEASE COMPLETE indicating cause value #17 "user busy" the network transports the cause value to the calling user. |   |
| <b>ISDN parameter values:</b>   | BC=speech  |   |
| <b>PLMN parameter values:</b>   | EMERGENCY SETUP; GSM-BC=speech   |   |
| <b>Comments:</b>                |  |   |

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|---------------------------------|---|---|
| 720602                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1],<br>subclause 5.2.5.4  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.1.8 |
| <b>TSS reference:</b>           | PLMN-ISDN/Basic_call/Unsuccessful/Emergency Calls/TC720602  |   |
| <b>ISDN selection criteria:</b> | Emergency service; bearer service speech  |   |
| <b>PLMN selection criteria:</b> | TS 12   |   |
| <b>Test purpose:</b>            | Emergency call from a MS with a valid SIM Card. 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 answer from user (user alerted)". |   |
| <b>ISDN parameter values:</b>   | BC=speech   |   |
| <b>PLMN parameter values:</b>   | EMERGENCY SETUP; GSM-BC=speech  |   |
| <b>Comments:</b>                |   |   |

## 6.2.8 Test purposes for PLMN-ISDN Supplementary services

### 6.2.8.1 Bearer capability "speech"

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| <b>Supplementary Services</b> |
| <b>Speech</b>                 |

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| 810101                          | <b>ISDN ref. to:</b><br>ETS 300 092-1 [6]<br>EN 300 403-1 [1],<br>subclause 4.5.10,<br>subclause 4.5.11  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 9.3.23.2,<br>ETS 300 542 [57] , subclause 1<br>ETS 300 565 [36], subclause 1 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/CLIP/TC810101  |  |
| <b>ISDN selection criteria:</b> | The called user is provided with CLIP  |  |
| <b>PLMN selection criteria:</b> | CLIP   |  |
| <b>Test purpose:</b>            | Ensure that when the Calling party subaddress is provided by the calling user, the Calling party number and Calling party subaddress information elements are correctly delivered to the called (served) user. |  |
| <b>ISDN parameter values:</b>   | BC= speech<br>Calling party number: PI=PA TON= national/international number SI=NP<br>NPI=ISDN/Telephony numbering plan  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech, Calling party subaddress  |  |
| <b>Comments:</b>                |  |  |

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|---------------------------------|---|--|
| 810102                          | <b>ISDN ref. to:</b><br>ETS 300 092-1 [6]<br>subclause 9.3<br>EN 300 403-1 [1],<br>subclause 4.5.10   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 9.3.23.2<br>ETS 300 542 [57] , subclause 1,<br>ETS 300 565 [36], subclause 1 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/CLIP/TC810102   |  |
| <b>ISDN selection criteria:</b> | The called user is provided with CLIP   |  |
| <b>PLMN selection criteria:</b> | CLIP  |  |
| <b>Test purpose:</b>            | 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. |  |
| <b>ISDN parameter values:</b>   | BC= speech,<br>Calling party number: PI=PA TON= national/international number SI=NP<br>NPI=ISDN/Telephony numbering plan  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |  |
| <b>Comments:</b>                |   |  |

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| 810201                          | <b>ISDN ref. to:</b><br>ETS 300 093-1 [7]<br>ETS 300 092-1 [6] /A2 Fig2  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], 9.3.23.2<br>ETS 300 542 [57] , subclause 2,<br>ETS 300 565 [36], subclause 2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/CLIR/TC810201  |  |
| <b>ISDN selection criteria:</b> | The called user is provided with CLIP  |  |
| <b>PLMN selection criteria:</b> | CLIR   |  |
| <b>Test purpose:</b>            | The calling user is provided with CLIR permanent mode subscription<br>Ensure that when the Calling party subaddress is provided by the calling user the Calling party number information element is delivered to the called user without any digit information. The Calling party subaddress shall not be present. |  |
| <b>ISDN parameter values:</b>   | BC= speech<br>Calling party number: PI=PR TON = NP I= unknown SI=NP  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech, Calling party subaddress  |  |
| <b>Comments:</b>                |  |  |

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| 810202                          | <b>ISDN ref. to:</b><br>ETS 300 093-1 [7]<br>subclause 9.4.1<br>ETS 300 092-1 [6] /A2 Fig2  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], 9.3.23.2<br>ETS 300 542 [57] , subclause 2<br>ETS 300 565 [36], subclause 2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/CLIR/TC810202   |   |
| <b>ISDN selection criteria:</b> | The called user is provided with CLIP   |   |
| <b>PLMN selection criteria:</b> | CLIR  |   |
| <b>Test purpose:</b>            | The calling user is provided with CLIR permanent mode subscription<br><br>Ensure that when no Calling party subaddress is provided by the calling user the Calling party number information element is delivered to the called user without any digit information. The Calling party subaddress shall not be present. |   |
| <b>ISDN parameter values:</b>   | BC= speech<br><br>Calling party number: PI=PR TON = NP I= unknown SI=NP   |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |   |
| <b>Comments:</b>                |   |   |

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| 810301                          | <b>ISDN ref. to:</b><br>ETS 300 097-1 [8]<br>subclause 9.5.1  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], 9.3.5.2<br>ETS 300 542 [57] , subclause 3<br>ETS 300 565 [36], subclause 3 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/COLP/TC810301   |  |
| <b>ISDN selection criteria:</b> | COLP  |  |
| <b>PLMN selection criteria:</b> | The calling user is provided with COLP  |  |
| <b>Test purpose:</b>            | Ensure that when the Connected subaddress number is provided by the called user, the Connected number and Connected subaddress information elements are correctly delivered to the calling (served) user. |  |
| <b>ISDN parameter values:</b>   | Connected subaddress number   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech;<br><br>Connected number PI=PA, SI=UPVP, TON= national/international number,<br><br>NPI= ISDN/Telephony numbering plan (ITU-T Rec. E.164 [25] )<br><br>Connected subaddress number          |  |
| <b>Comments:</b>                |   |  |



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| 810302                          | <b>ISDN ref. to:</b><br>ETS 300 097-1 [8]<br>subclause 9.5.1  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], 9.3.5.2<br>ETS 300 542 [57] , subclause 3<br>ETS 300 565 [36], subclause 3 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/COLP/TC810302   |  |
| <b>ISDN selection criteria:</b> | COLP  |  |
| <b>PLMN selection criteria:</b> | The calling user is provided with COLP  |  |
| <b>Test purpose:</b>            | Ensure that when no Connected subaddress is provided by the called user, the Connected number information element is network provided and correctly delivered to the calling (served) user. |  |
| <b>ISDN parameter values:</b>   |   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech,<br>Connected number: SI=NP PI=PA TON= national/international number, NPI= ISDN/Telephony numbering plan (ITU-T Rec. E.164 [25] )   |  |
| <b>Comments:</b>                |   |  |

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| 810401                          | <b>ISDN ref. to:</b><br>ETS 300 098-1 [9]<br>subclause 9.3.1,<br>subclause 9.4.1<br>ETS 300 097-1 [8] /A2 Fig 4   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], 9.3.5.2<br>ETS 300 542 [57] , subclause 3<br>ETS 300 565 [36], subclause 3 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/COLR/TC810401   |  |
| <b>ISDN selection criteria:</b> | COLR  |  |
| <b>PLMN selection criteria:</b> | The calling user is provided with COLP  |  |
| <b>Test purpose:</b>            | The called (served) user is provided with COLR permanent mode subscription.<br>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. |  |
| <b>ISDN parameter values:</b>   |   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech,<br>Connected number: PI=PR, SI=NP, TON=unknown, NPI=unknown  |  |
| <b>Comments:</b>                |   |  |

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| 810501                          | <b>ISDN ref. to:</b><br>ETS 300 138-1 [10]<br>subclause 9.2.2,<br>subclause 9.2.4  | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39] |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/CUG/TC810501   |  |
| <b>ISDN selection criteria:</b> | Calling user and called user belong to the <b>same</b> CUG;<br>CUG supplementary options: <b>IA; not ICB</b>   |  |
| <b>PLMN selection criteria:</b> | CUG supplementary options: <b>not OA; not ocb; not Pref. CUG</b>   |  |
| <b>Test purpose:</b>            | <p>Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access is not allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> 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 the Facility IE which shall contain a ForwardCUG-Info with CUG Index (CI), Suppress Pref. CUG (SPC), Suppress OA (SOA)</p> <p>the called user receives a SETUP message with a Facility IE which contains a cUGCall invoke component encoded as "Outgoing access with default value, CUG index" and sends an ALERTING or CONNECT message.</p> |  |
| <b>ISDN parameter values:</b>   | BC=speech; Facility IE with cUGCall invoke component: "Outgoing access with default value, CUG index"  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech; ForwardCUG-Info: CUG Index (CI);<br>Suppress Pref. CUG (SPC);<br>Suppress OA (SOA)  |  |
| <b>Comments:</b>                |  |  |

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| 810502                          | <b>ISDN ref. to:</b><br>ETS 300 138-1 [10]<br>subclause 9.2.2,<br>subclause 9.2.4  | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39] |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/CUG/TC810502   |  |
| <b>ISDN selection criteria:</b> | The called user belongs to the <b>same</b> CUG with the following CUG supplementary options: <b>IA; not ICB</b>  |  |
| <b>PLMN selection criteria:</b> | The calling user belongs to a CUG with the following CUG supplementary options: <b>OA; not ocb; not Pref. CUG</b>  |  |
| <b>Test purpose:</b>            | <p>Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> 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 the Facility IE which shall contain a ForwardCUG-Info with CUG Index (CI), Suppress Pref. CUG (SPC), Suppress OA (SOA)</p> <p>the called user receives a SETUP message <b>with</b> a Facility IE which contains a cUGCall invoke component encoded as "Outgoing access with default value, CUG index" and sends an ALERTING or CONNECT message.</p> |  |
| <b>ISDN parameter values:</b>   | BC=speech; Facility IE with cUGCall invoke component: "Outgoing access with default value, CUG index"  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech; ForwardCUG-Info: CUG Index (CI);<br>Suppress Pref. CUG (SPC);<br>Suppress OA (SOA);   |  |
| <b>Comments:</b>                |  |  |

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| 810503                          | <b>ISDN ref. to:</b><br>ETS 300 138-1 [10]<br>subclause 9.2.2,<br>subclause 9.2.4   | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39] |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/CUG/TC810503  |  |
| <b>ISDN selection criteria:</b> | The called user belongs to the <b>same</b> CUG with the following CUG supplementary options: <b>IA; not ICB</b>   |  |
| <b>PLMN selection criteria:</b> | The calling user belongs to a CUG with the following CUG supplementary options: <b>OA; not ocb; not Pref. CUG</b>   |  |
| <b>Test purpose:</b>            | <p>Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> 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 the Facility IE which shall contain a ForwardCUG-Info with CUG Index (CI), Suppress Pref. CUG (SPC),</p> <p>the called user receives a SETUP message <b>without</b> a Facility IE which contains a cUGCall invoke component encoded as "Outgoing access with default value, CUG index" and sends an ALERTING or CONNECT message.</p> |  |
| <b>ISDN parameter values:</b>   | BC=speech   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech; ForwardCUG-Info: CUG Index (CI);<br>Suppress Pref. CUG (SPC);  |  |
| <b>Comments:</b>                |   |  |

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| 810504                          | <b>ISDN ref. to:</b><br>ETS 300 138-1 [10]<br>subclause 9.2.2,<br>subclause 9.2.4<br>Q.735  | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39] |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/CUG/TC810504  |  |
| <b>ISDN selection criteria:</b> | The called user belongs to CUG with the following CUG supplementary options:<br><b>IA; ICB</b>  |  |
| <b>PLMN selection criteria:</b> | The calling user belongs to the <b>same</b> CUG with the following CUG supplementary options: <b>OA; not ocb; not Pref. CUG</b>   |  |
| <b>Test purpose:</b>            | Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access is allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> 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 the Facility IE which shall contain a ForwardCUG-Info with CUG Index (CI), Suppress Pref. CUG (SPC),<br><br>the called user receives a SETUP message <b>without</b> a Facility IE. |  |
| <b>ISDN parameter values:</b>   | BC=speech   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech; ForwardCUG-Info: CUG Index (CI);<br><br>Suppress Pref. CUG (SPC);  |  |
| <b>Comments:</b>                |   |  |

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| 810505                          | <b>ISDN ref. to:</b><br>ETS 300 138-1 [10]<br>subclause 9.2.2,<br>subclause 9.2.4   | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39] |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/CUG/TC810505  |  |
| <b>ISDN selection criteria:</b> | The called user belongs to the same CUG with the following CUG supplementary options: <b>IA; not ICB</b>  |  |
| <b>PLMN selection criteria:</b> | The calling user belongs to a CUG with the following CUG supplementary options: <b>OA; not ocb; not Pref. CUG</b>   |  |
| <b>Test purpose:</b>            | Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access is allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> 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 the Facility IE which shall contain a ForwardCUG-Info with, Suppress Pref. CUG (SPC),<br><br>the called user receives a SETUP message <b>with</b> a Facility IE. |  |
| <b>ISDN parameter values:</b>   | BC=speech; Facility IE with cUGCall invoke component: "Outgoing access with default value, CUG index"   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech; ForwardCUG-Info: Suppress Pref. CUG (SPC);   |  |
| <b>Comments:</b>                |   |  |

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| 810506                          | <b>ISDN ref. to:</b><br>ETS 300 138-1 [10]<br>subclause 9.2.2  | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br><br>ETS 300 569 [39] |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/CUG/TC810506   |  |
| <b>ISDN selection criteria:</b> | The called user is <b>not a CUG subscriber</b>   |  |
| <b>PLMN selection criteria:</b> | The calling user belongs to a CUG with the following CUG supplementary options: <b>OA; not ocb; not Pref. CUG</b>  |  |
| <b>Test purpose:</b>            | Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access is allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> user belongs not to a CUG, after the receipt of a SETUP message with the Facility IE which shall contain a ForwardCUG-Info with CUG Index (CI), Suppress Pref. CUG (SPC),<br><br>the called user receives a SETUP message <b>without</b> a Facility IE. |  |
| <b>ISDN parameter values:</b>   |  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech; ForwardCUG-Info: CUG Index (CI);<br><br>Suppress Pref. CUG (SPC);   |  |
| <b>Comments:</b>                |  |  |

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| 810507                          | <b>ISDN ref. to:</b><br>ETS 300 138-1 [10]<br>subclause 9.2.3  | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br><br>ETS 300 569 [39] |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/CUG/TC810507   |  |
| <b>ISDN selection criteria:</b> | The called user belongs to CUG with the following CUG supplementary options: <b>not IA; not ICB</b>  |  |
| <b>PLMN selection criteria:</b> | The calling user is not member of CUG  |  |
| <b>Test purpose:</b>            | Ensure that when the <b>calling</b> user has not subscribed to the CUG and the <b>called</b> 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 ForwardCUG-Info the network initiate call clearing to the calling user with cause value # "87 user not a member of CUG". |  |
| <b>ISDN parameter values:</b>   |  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |  |
| <b>Comments:</b>                |  |  |

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| 810508                          | <b>ISDN ref. to:</b><br>ETS 300 138-1 [10]<br>subclause 9.2.2  | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br><br>ETS 300 569 [39] |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/CUG/TC810508   |  |
| <b>ISDN selection criteria:</b> | The called user is not member of CUG   |  |
| <b>PLMN selection criteria:</b> | The calling user belongs to a CUG with the following CUG supplementary options: <b>not OA; not ocb; not Pref. CUG</b>  |  |
| <b>Test purpose:</b>            | <p>Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access is not allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> user belongs not to a CUG, after the receipt of a SETUP message with the Facility IE which shall contain a ForwardCUG-Info with CUG Index (CI), Suppress Pref. CUG (SPC), Suppress OA (SOA)</p> <p>call establishment is not possible and the network initiate call clearing to the calling user with cause value # 87 "user not a member of CUG".</p> |  |
| <b>ISDN parameter values:</b>   |  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech; ForwardCUG-Info: CUG Index (CI);<br><br>Suppress Pref. CUG (SPC);<br><br>Suppress OA (SOA);   |  |
| <b>Comments:</b>                |  |  |

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| 810509                          | <b>ISDN ref. to:</b><br>ETS 300 138-1 [10],<br>subclause 9.2.2,<br>subclause 9.2.4   | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39] |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/CUG/TC810513   |  |
| <b>ISDN selection criteria:</b> | The called user belongs to the <b>same</b> CUG with the following CUG supplementary options: <b>not IA; ICB</b>  |  |
| <b>PLMN selection criteria:</b> | The calling user belongs to a CUG with the following CUG supplementary options: <b>OA; not ocb; not Pref. CUG</b>  |  |
| <b>Test purpose:</b>            | <p>Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access is allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> 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 the Facility IE which shall contain a ForwardCUG-Info with CUG Index (CI), Suppress Pref. CUG (SPC),</p> <p>call establishment is not possible and the network initiate call clearing to the calling user with cause value # 55 "incoming calls barred within CUG".</p> |  |
| <b>ISDN parameter values:</b>   |  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech; ForwardCUG-Info: CUG Index (CI);<br><br>Suppress Pref. CUG (SPC);   |  |
| <b>Comments:</b>                |  |  |



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| 810510                          | <b>ISDN ref. to:</b><br>ETS 300 138-1 [10],<br>subclause 9.2.2,<br>subclause 9.2.4  | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39] |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/CUG/TC810510  |  |
| <b>ISDN selection criteria:</b> | Calling user and called user belong to the <b>same</b> CUG;<br>CUG supplementary options: <b>not IA; not ICB</b>  |  |
| <b>PLMN selection criteria:</b> | CUG supplementary options: <b>not OA; not OCB; not Pref. CUG</b>  |  |
| <b>Test purpose:</b>            | Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access not allowed, not outgoing calls barred within the CUG within the CUG and not preferential CUG and the <b>called</b> user belongs 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 the Facility IE which shall contain a ForwardCUG-Info with CUG Index (CI),<br><br>the called user receives a SETUP message with a Facility IE which contains a cUGCall invoke component encoded as "Outgoing access with default value, CUG index" and sends an ALERTING or CONNECT message. |  |
| <b>ISDN parameter values:</b>   | BC=speech; Facility IE with cUGCall invoke component: "Outgoing access with default value, CUG index"   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech; ForwardCUG-Info: CUG Index (CI).   |  |
| <b>Comments:</b>                |   |  |

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| 810601                          | <b>ISDN ref. to:</b><br>ETS 300 061-1 [11],<br>subclause 9.2<br>EN 300 403-1 [1], subclause 4.5.9  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], 9.3.23.1.5 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/SUB/TC810601   |  |
| <b>ISDN selection criteria:</b> | SUB  |  |
| <b>PLMN selection criteria:</b> | SUB  |  |
| <b>Test purpose:</b>            | 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 |  |
| <b>ISDN parameter values:</b>   | BC=speech, Called party subaddress   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech, Called party subaddress   |  |
| <b>Comments:</b>                |  |  |

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| 810602                          | <b>ISDN ref. to:</b><br>ETS 300 061-1 [11],<br>subclause 9.2<br>EN 300 403-1 [1],<br>subclause 4.5.9   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 9.3.23.1.5 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/SUB/TC810602   |  |
| <b>ISDN selection criteria:</b> | SUB  |  |
| <b>PLMN selection criteria:</b> | SUB  |  |
| <b>Test purpose:</b>            | 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 |  |
| <b>ISDN parameter values:</b>   | BC=speech, Called party subaddress   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech, Called party subaddress   |  |
| <b>Comments:</b>                |  |  |

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| 810701                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15],<br>subclause 9.2.2,<br>subclause 9.2.5  | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 1<br>ETS 300 543 [31], subclause 1 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/CFU/TC810701  |  |
| <b>ISDN selection criteria:</b> | The user B is in network N2 and is provided with CFU ("calling user is notified of call diversion" = <b>Yes</b> , with diverted-to number, "diverting number is released to the diverted-to user" = <b>Yes</b> , "served user receives notification that the call has been forwarded" = <b>Yes</b> ).   |  |
| <b>PLMN selection criteria:</b> | Call to a forwarding subscriber (CFU)   |  |
| <b>Test purpose:</b>            | <p>Ensure that when user A calls user B, the call is forwarded to user C.</p> <p>User <b>A</b> is notified with a FACILITY (Invoke =NotifySS [CFU, SS-Notification]) message, user <b>C</b> is notified with a FACILITY IE (Invoke =NotifySS [CFU,SS-Notification]) of call diversion.</p> <p>User <b>B</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.</p> |  |
| <b>ISDN parameter values:</b>   | CFU active  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |  |
| <b>Comments:</b>                |   |  |

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| 810702                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15],<br>subclause 9.2.2,<br>subclause 9.2.5   | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 1<br>ETS 300 543 [31], subclause 1 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/CFU/TC810702   |  |
| <b>ISDN selection criteria:</b> | The user B is in network N2 and is provided with CFU ("calling user is notified of call diversion" = <b>No</b> , with diverted-to number, "diverting number is released to the diverted-to user" = <b>No</b> , "served user receives notification that the call has been forwarded" = <b>No</b> ). |  |
| <b>PLMN selection criteria:</b> | Call to a forwarding subscriber (CFU)  |  |
| <b>Test purpose:</b>            | Ensure that when user A calls user B, the call is forwarded to user C.<br><br>User A and B are not notified and C is notified of call diversion with a FACILITY IE (Invoke = NotifySS [CFU,SS-Notification]) contained in a SETUP message.   |  |
| <b>ISDN parameter values:</b>   | CFU active   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |  |
| <b>Comments:</b>                |  |  |

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| 810703                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15],<br>subclause 9.2.2,<br>subclause 9.2.5   | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 1<br>ETS 300 543 [31], subclause 1 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/CFU/TC810703   |  |
| <b>ISDN selection criteria:</b> | The user B is in network N2 and is provided with CFU ("calling user is notified of call diversion" = <b>Yes</b> , with diverted-to number, "diverting number is released to the diverted-to user" = <b>Yes</b> , "served user receives notification that the call has been forwarded" = <b>Yes</b> ).  |  |
| <b>PLMN selection criteria:</b> | Call to a forwarding subscriber (CFU)  |  |
| <b>Test purpose:</b>            | <p>To verify that a call is released correctly if CFU was not successful.</p> <p>User A calls user B, the call is forwarded to user C who is user determined user busy.</p> <p>User A is notified with a FACILITY (Invoke =NotifySS [CFU, SS-Notification]) message, user C is notified of call diversion with a FACILITY IE (Invoke =NotifySS [CFU,SS-Notification]) included in the incoming SETUP message from the network.</p> <p>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.</p> |  |
| <b>ISDN parameter values:</b>   | CFU active   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |  |
| <b>Comments:</b>                |  |  |

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| 810704                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15],<br>subclause 10.5   | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 1<br>ETS 300 543 [31], subclause 1 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/CFU/TC810704  |  |
| <b>ISDN selection criteria:</b> | The user B is in network N2. <b>Partial rerouting</b> provided in PTNX in case of CFU ("calling user is Notified of call diversion" = <b>Yes</b> )  |  |
| <b>PLMN selection criteria:</b> | Call to a forwarding subscriber (CFU)   |  |
| <b>Test purpose:</b>            | <p>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).</p> <p>User A is notified with a FACILITY (Invoke =NotifySS [CFU, SS-Notification]) message of call diversion.</p> |  |
| <b>ISDN parameter values:</b>   | CFU - partial rerouting   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |  |
| <b>Comments:</b>                |   |  |

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| 810705                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15],<br>subclause 10.5   | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 1<br><br>ETS 300 543 [31], subclause 1 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/CFU/TC810705  |  |
| <b>ISDN selection criteria:</b> | The user B is in network N2. <b>Partial rerouting</b> provided in PTNX in case of CFU ("calling user is Notified of call diversion" = <b>No</b> )   |  |
| <b>PLMN selection criteria:</b> | Call to a forwarding subscriber (CFU)   |  |
| <b>Test purpose:</b>            | 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).<br><br>User A is <b>not</b> notified with a FACILITY (Invoke =NotifySS [CFU, SS-Notification]) message of call diversion. |  |
| <b>ISDN parameter values:</b>   | CFU - partial rerouting   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |  |
| <b>Comments:</b>                |   |  |

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| 810801                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15],<br>subclause 9.2.2,<br>subclause 9.2.4.3,<br>subclause 9.2.5  | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 2<br><br>ETS 300 543 [31], subclause 2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/CFB/TC810801  |  |
| <b>ISDN selection criteria:</b> | The user B is in network N2 and is provided with CFB- <b>UDUB</b> ("calling user is notified of call diversion" = <b>Yes</b> , with diverted-to number, "diverting number is released to the diverted-to user" = <b>Yes</b> , "served user receives notification that the call has been forwarded" = <b>Yes</b> ).  |  |
| <b>PLMN selection criteria:</b> | Call to a forwarding subscriber (CFB)   |  |
| <b>Test purpose:</b>            | Ensure that when user A calls busy user B, the call is forwarded to user C.<br><br>User A is notified with a FACILITY (Invoke =NotifySS [CFB, SS-Notification]) message, user C is notified with a FACILITY IE (Invoke =NotifySS [CFB, SS-Notification]) of call diversion.<br><br>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. |  |
| <b>ISDN parameter values:</b>   | CFB-UDUB active   |  |
| <b>PLMN parameter values:</b>   | A: ! GSM-BC=speech;<br><br>C: ? GSM-BC=speech;  |  |
| <b>Comments:</b>                |   |  |

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| 810802                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15],<br>subclause 9.2.2,<br>subclause 9.2.4.3,<br>subclause 9.2.5  | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 2<br>ETS 300 543 [31], subclause 2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/CFB/TC810802  |  |
| <b>ISDN selection criteria:</b> | The user B is in network N2 and is provided with CFB- <b>UDUB</b> ("calling user is notified of call diversion" = <b>No</b> , with diverted-to number, "diverting number is released to the diverted-to User" = <b>No</b> , "served user receives notification that the call has been forwarded" = <b>No</b> ). |  |
| <b>PLMN selection criteria:</b> | Call to a forwarding subscriber (CFB)   |  |
| <b>Test purpose:</b>            | Ensure that when user A calls busy user B, the call is forwarded to user C.<br><br>User A and B are not notified and C is notified with of call diversion a FACILITY IE (Invoke =NotifySS [CFB,SS-Notification]) contained in a SETUP message.  |  |
| <b>ISDN parameter values:</b>   | CFB active  |  |
| <b>PLMN parameter values:</b>   | <b>A:</b> ! GSM-BC=speech;<br><b>C:</b> ?GSM-BC=speech;   |  |
| <b>Comments:</b>                |   |  |

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| 810803                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15],<br>subclause 9.2.2,<br>subclause 9.2.4.3,<br>subclause 9.2.5   | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 2<br>ETS 300 543 [31], subclause 2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/CFB/TC810803   |  |
| <b>ISDN selection criteria:</b> | The user B is in network N2 and is provided with CFB- <b>NDUB</b> ("calling user is notified of call diversion" = <b>Yes</b> , with diverted-to number, "diverting number is released to the diverted-to user" = <b>Yes</b> , "served user receives notification that the call has been forwarded" = <b>Yes</b> ).   |  |
| <b>PLMN selection criteria:</b> | Call to a forwarding subscriber (CFB)  |  |
| <b>Test purpose:</b>            | <p>Ensure that when user A calls busy user B, the call is forwarded to user C.</p> <p>User <b>A</b> is notified with a FACILITY (Invoke =NotifySS [CFB, SS-Notification]) message, user <b>C</b> is notified with a FACILITY IE (Invoke =NotifySS [CFB,SS-Notification]) of call diversion.</p> <p>User <b>B</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.</p> |  |
| <b>ISDN parameter values:</b>   | CFB active   |  |
| <b>PLMN parameter values:</b>   | <b>A:</b> ! GSM-BC=speech;<br><b>C:</b> ? GSM-BC=speech;   |  |
| <b>Comments:</b>                |  |  |

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| 810804                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15],<br>subclause 9.2.2,<br>subclause 9.2.4.3,<br>subclause 9.2.5  | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 2<br>ETS 300 543 [31], subclause 2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/CFB/TC810804  |  |
| <b>ISDN selection criteria:</b> | The user B is in network N2 and is provided with CFB- <b>NDUB</b> ("calling user is notified of call diversion" = <b>No</b> , with diverted-to number, "diverting number is released to the diverted-to User" = <b>No</b> , "served user receives notification that the call has been forwarded" = <b>No</b> ). |  |
| <b>PLMN selection criteria:</b> | Call to a forwarding subscriber (CFB)   |  |
| <b>Test purpose:</b>            | Ensure that when user A calls busy user B, the call is forwarded to user C.<br><br>User A and B are not notified and C is notified of call diversion with a FACILITY IE (Invoke =NotifySS (CFB, SS-Notification) contained in a SETUP message.  |  |
| <b>ISDN parameter values:</b>   | CFB active  |  |
| <b>PLMN parameter values:</b>   | <b>A:</b> ! GSM-BC=speech;<br><b>C:</b> ? GSM-BC=speech;  |  |
| <b>Comments:</b>                |   |  |



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| 810805                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15],<br>subclause 9.2.2,<br>subclause 9.2.4.3,<br>subclause 9.2.5   | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 2<br>ETS 300 543 [31], subclause 2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/CFB/TC810805   |  |
| <b>ISDN selection criteria:</b> | The user B is in network N2 and is provided with CFB ("calling user is notified of call diversion" = <b>Yes</b> , with diverted-to number, "diverting number is released to the diverted-to User" = <b>Yes</b> , "served user receives notification that the call has been forwarded" = <b>Yes</b> ).  |  |
| <b>PLMN selection criteria:</b> | Call to a forwarding subscriber (CFB)  |  |
| <b>Test purpose:</b>            | To verify that a call is released correctly if CFB was not successful.<br><br>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.  |  |
| <b>ISDN parameter values:</b>   | CFB active, User B is in the UDUB condition  |  |
| <b>PLMN parameter values:</b>   | <b>A:</b> ! GSM-BC=speech;<br><b>C:</b> ?GSM-BC=speech;  |  |
| <b>Comments:</b>                | User <b>A</b> is notified with a FACILITY (Invoke =NotifySS [CFB, SS-Notification]) message, user <b>C</b> is notified of call diversion with a FACILITY IE (Invoke =NotifySS [CFB,SS-Notification]) included in the incoming SETUP message from the network.<br><br>User <b>B</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. |  |

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| 810806                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15],<br>subclause 10.5  | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 2<br><br>ETS 300 543 [31], subclause 2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/CFB/TC810806   |  |
| <b>ISDN selection criteria:</b> | The user B is in network N2. <b>Partial rerouting</b> provided in PTNX in case of <b>CFB-NDUB</b> ("calling user is Notified of call diversion" = <b>Yes</b> , with diverted-to number).   |  |
| <b>PLMN selection criteria:</b> | Call to a forwarding subscriber (CFB)  |  |
| <b>Test purpose:</b>            | 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).<br><br>User A is notified with a FACILITY (Invoke =NotifySS [CFB, SS-Notification]) message of call diversion. |  |
| <b>ISDN parameter values:</b>   | CFB – partial rerouting  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |  |
| <b>Comments:</b>                |  |  |

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| 810807                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15],<br>subclause 10.5   | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 2<br><br>ETS 300 543 [31], subclause 2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/CFB/TC810807  |  |
| <b>ISDN selection criteria:</b> | The user B is in network N2. <b>Partial rerouting</b> provided in PTNX in case of <b>CFB-NDUB</b> ("calling user is Notified of call diversion" = <b>No</b> ).  |  |
| <b>PLMN selection criteria:</b> | Call to a forwarding subscriber (CFB)   |  |
| <b>Test purpose:</b>            | 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).<br><br>User A is <b>not</b> notified with a FACILITY (Invoke =NotifySS [CFB, SS-Notification]) message. |  |
| <b>ISDN parameter values:</b>   | CFB – partial rerouting   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |  |
| <b>Comments:</b>                |   |  |

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| 810808                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15],<br>subclause 10.5  | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 2<br><br>ETS 300 543 [31], subclause 2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/CFB/TC810808   |  |
| <b>ISDN selection criteria:</b> | The user B is in network N2. <b>Partial rerouting</b> provided in PTNX in case of <b>CFB-UDUB</b> ("calling user is Notified of call diversion" = <b>Yes</b> , with diverted-to number).   |  |
| <b>PLMN selection criteria:</b> | Call to a forwarding subscriber (CFB)  |  |
| <b>Test purpose:</b>            | 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).<br><br>User A is notified with a FACILITY (Invoke =NotifySS [CFB, SS-Notification]) message of call diversion. |  |
| <b>ISDN parameter values:</b>   | CFB – partial rerouting  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |  |
| <b>Comments:</b>                |  |  |

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| 810809                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15],<br>subclause 10.5  | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 2<br><br>ETS 300 543 [31], subclause 2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/CFB/TC810809   |  |
| <b>ISDN selection criteria:</b> | The user B is in network N2. <b>Partial rerouting</b> provided in PTNX in case of <b>CFB-UDUB</b> ("calling user is Notified of call diversion" = <b>No</b> ).   |  |
| <b>PLMN selection criteria:</b> | Call to a forwarding subscriber (CFB)  |  |
| <b>Test purpose:</b>            | 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).<br><br>User A is not notified with a FACILITY (Invoke =NotifySS [CFB, SS-Notification]) message of call diversion. |  |
| <b>ISDN parameter values:</b>   | CFB – partial rerouting  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |  |
| <b>Comments:</b>                |  |  |

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| 810901                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15], subclause 9.2.2,<br>subclause 9.2.4.4,<br>subclause 9.2.5   | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 3<br>ETS 300 543 [31], subclause 3 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/CFNR/TC810901   |  |
| <b>ISDN selection criteria:</b> | The user B is in network N2 and is provided with CFNR (option A, late release) ("calling user is Notified of call diversion" = <b>Yes</b> , with diverted-to number, "diverting number is released to the diverted-to user" = <b>Yes</b> ).   |  |
| <b>PLMN selection criteria:</b> | Call to a forwarding subscriber (CFNR)  |  |
| <b>Test purpose:</b>            | Ensure that when user A calls user B, if unanswered, the call is forwarded to user C.   |  |
| <b>ISDN parameter values:</b>   | CFNR active   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |  |
| <b>Comments:</b>                | <p>User <b>A</b> is Notified with a FACILITY (Invoke =NotifySS [CFNR, SS-Notification]) message, user <b>C</b> is Notified of call diversion with a FACILITY IE (Invoke =NotifySS [CFNR,SS-Notification]) included in the incoming SETUP message from the network.</p> <p>User <b>B</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.</p> |  |

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| 810902                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15], subclause 9.2.2,<br>subclause 9.2.4.4,<br>subclause 9.2.5   | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 3<br>ETS 300 543 [31], subclause 3 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/CFNR/TC810902   |  |
| <b>ISDN selection criteria:</b> | The user B is in network N2 and is provided with CFNR (option A, late release) ("calling user is Notified of call diversion" = <b>No</b> , with diverted-to number, "diverting number is released to the diverted-to User" = <b>No</b> ). |  |
| <b>PLMN selection criteria:</b> | Call to a forwarding subscriber (CFNR)  |  |
| <b>Test purpose:</b>            | Ensure that when user A calls busy user B, if unanswered, the call is forwarded to user C.  |  |
| <b>ISDN parameter values:</b>   | CFNR active   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |  |
| <b>Comments:</b>                | User A and user B are not Notified and user C is Notified of call diversion with a FACILITY IE (Invoke =NotifySS [CFNR,SS-Notification]) included in the incoming SETUP message from the network.   |  |

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| 810903                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1], subclause 9.2.2,<br>subclause 9.2.4.4,<br>subclause 9.2.5   | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 3<br>ETS 300 543 [31], subclause 3 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/CFNR/TC810903   |  |
| <b>ISDN selection criteria:</b> | The user B is in network N2 and is provided with CFNR (option B, immediate release) ("calling user is Notified of call diversion" = <b>Yes</b> , with diverted-to number, "diverting number is released to the diverted-to user" = <b>Yes</b> ).  |  |
| <b>PLMN selection criteria:</b> | Call to a forwarding subscriber (CFNR)  |  |
| <b>Test purpose:</b>            | Ensure that when user A calls user B, if unanswered, the call is forwarded to user C.   |  |
| <b>ISDN parameter values:</b>   | CFNR active   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |  |
| <b>Comments:</b>                | <p>User <b>A</b> is Notified with a FACILITY (Invoke =NotifySS [CFNR, SS-Notification]) message, user <b>C</b> is Notified of call diversion with a FACILITY IE (Invoke =NotifySS [CFNR,SS-Notification]) included in the incoming SETUP message from the network.</p> <p>User <b>B</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.</p> |  |

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| 810904                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1], subclause 9.2.2,<br>subclause 9.2.4.4,<br>subclause 9.2.5  | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 3<br>ETS 300 543 [31], subclause 3 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/CFNR/TC810904  |  |
| <b>ISDN selection criteria:</b> | The user B is in network N2 and is provided with CFNR (option B, immediate release) ("calling user is Notified of call diversion" = <b>No</b> , with diverted-to number, "diverting number is released to the diverted-to User" = <b>No</b> ). |  |
| <b>PLMN selection criteria:</b> | Call to a forwarding subscriber (CFNR)   |  |
| <b>Test purpose:</b>            | Ensure that when user A calls user B, if unanswered, the call is forwarded to user C.  |  |
| <b>ISDN parameter values:</b>   | CFNR active  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |  |
| <b>Comments:</b>                | User A and user B are not Notified and user C is Notified of call diversion with a FACILITY IE (Invoke =NotifySS [CFNR,SS-Notification]) included in the incoming SETUP message from the network.  |  |

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| 810905                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1], subclause 9.2.2,<br>subclause 9.2.4.4,<br>subclause 9.2.5  | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 3<br>ETS 300 543 [31], subclause 3 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/CFNR/TC810905  |  |
| <b>ISDN selection criteria:</b> | The user B is in network N2 and is provided with CFNR (option B, immediate release) ("calling user is Notified of call diversion" = <b>Yes</b> , with diverted-to number, "diverting number is released to the diverted-to User" = <b>Yes</b> ).   |  |
| <b>PLMN selection criteria:</b> | Call to a forwarding subscriber (CFNR)   |  |
| <b>Test purpose:</b>            | Ensure that when user A calls user B, the call is released correctly if CFNR was not successful.<br><br>Ensure that when user A calls user B, if unanswered, the call is forwarded to user C who is user determined user busy.   |  |
| <b>ISDN parameter values:</b>   | CFNR active  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |  |
| <b>Comments:</b>                | User <b>A</b> is Notified with a FACILITY (Invoke =NotifySS [CFNR, SS-Notification]) message, user <b>C</b> is Notified of call diversion with a FACILITY IE (Invoke =NotifySS [CFNR,SS-Notification]) included in the incoming SETUP message from the network.<br><br>User <b>B</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. |  |

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| 810906                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1], subclause 9.2.2,<br>subclause 10.5   | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 3<br>ETS 300 543 [31], subclause 3 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/CFNR/TC810906  |  |
| <b>ISDN selection criteria:</b> | The user B is in network N2. <b>Partial rerouting</b> provided in PTNX in case of CFNR (option A, late release) ("calling user is Notified of call diversion" = <b>Yes</b> , with diverted-to number).   |  |
| <b>PLMN selection criteria:</b> | Call to a forwarding subscriber (CFNR)   |  |
| <b>Test purpose:</b>            | 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).<br><br>User <b>A</b> is notified with a FACILITY (Invoke =NotifySS [CFNR, SS-Notification]) message of call diversion. |  |
| <b>ISDN parameter values:</b>   | CFNR - partial rerouting   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |  |
| <b>Comments:</b>                |  |  |

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| 810907                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1], subclause 9.2.2,<br>subclause 10.5   | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 3<br>ETS 300 543 [31], subclause 3 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/CFNR/TC810907  |  |
| <b>ISDN selection criteria:</b> | The user B is in network N2. <b>Partial rerouting</b> provided in PTNX in case of CFNR (option A, late release) ("calling user is Notified of call diversion" = <b>No</b> ).   |  |
| <b>PLMN selection criteria:</b> | Call to a forwarding subscriber (CFNR)   |  |
| <b>Test purpose:</b>            | 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).<br><br>User A is not notified with a FACILITY (Invoke =NotifySS [CFNR SS-Notification]) message of call diversion. |  |
| <b>ISDN parameter values:</b>   | CFNR - partial rerouting   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |  |
| <b>Comments:</b>                |  |  |

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| 810908                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1], subclause 9.2.2,<br>subclause 9.2.4.4,<br>subclause 9.2.5   | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 3<br>ETS 300 543 [31], subclause 3 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/CFNR/TC810908   |  |
| <b>ISDN selection criteria:</b> | 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" = <b>Yes</b> , with diverted-to number).   |  |
| <b>PLMN selection criteria:</b> | Call to a forwarding subscriber (CFNR)  |  |
| <b>Test purpose:</b>            | 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).<br><br>User A is notified with a FACILITY (Invoke =NotifySS [CFNR, SS-Notification]) message. |  |
| <b>ISDN parameter values:</b>   | CFNR - partial rerouting  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |  |
| <b>Comments:</b>                |   |  |

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| 810909                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1], subclause 9.2.2,<br>subclause 9.2.4.4,<br>subclause 9.2.5   | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 3<br>ETS 300 543 [31], subclause 3 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/CFNR/TC810909   |  |
| <b>ISDN selection criteria:</b> | The user B is in network N2. <b>Partial rerouting</b> provided in PTNX in case of CFNR (option B, immediate release). ("calling user is Notified of call diversion" = <b>No</b> ).  |  |
| <b>PLMN selection criteria:</b> | Call to a forwarding subscriber (CFNR)  |  |
| <b>Test purpose:</b>            | 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).<br><br>User A is <b>not</b> notified with a FACILITY (Invoke =NotifySS [CFNR SS-Notification]) message. |  |
| <b>ISDN parameter values:</b>   | CFNR - partial rerouting  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |  |
| <b>Comments:</b>                |   |  |

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| 811001                          | <b>ISDN ref. to:</b><br>ETS 300 141-1 [18],<br>subclause 7<br>ETS 300 196-1, subclause 7.1   | <b>PLMN ref. to:</b><br>ETS 300 544 [32], subclause 2<br>ETS 300 567 [38], subclause 2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/HOLD/TC811001  |  |
| <b>ISDN selection criteria:</b> | The calling user is provided with HOLD   |  |
| <b>PLMN selection criteria:</b> | HOLD   |  |
| <b>Test purpose:</b>            | Ensure that the calling user can initiate Call Hold, the called remote user is notified of call hold and the call can be retrieved |  |
| <b>ISDN parameter values:</b>   | BC=speech  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |  |
| <b>Comments:</b>                |  |  |



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| 811002                          | <b>ISDN ref. to:</b><br>ETS 300 141-1 [18],<br>subclause 7<br>ETS 300 196-1, subclause 7.1  | <b>PLMN ref. to:</b><br>ETS 300 544 [32], subclause 2<br>ETS 300 567 [38], subclause 2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/HOLD/TC811002   |  |
| <b>ISDN selection criteria:</b> | The called user is provided with HOLD   |  |
| <b>PLMN selection criteria:</b> | HOLD  |  |
| <b>Test purpose:</b>            | Ensure that the called user can initiate Call Hold, the calling remote user is notified of call hold and the call can be retrieved. |  |
| <b>ISDN parameter values:</b>   | BC=speech   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |  |
| <b>Comments:</b>                |   |  |

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| 811101                          | <b>ISDN ref. to:</b><br>ETS 300 058-1 [19],<br>subclause 7<br>EN 300 403-1 [1], subclause<br>4.5.2.1 | <b>PLMN ref. to:</b><br>ETS 300 544 [32], subclause 1<br>ETS 300 567 [38], subclause 1 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/CW/TC811901  |  |
| <b>ISDN selection criteria:</b> | The called user is provided with CW  |  |
| <b>PLMN selection criteria:</b> | CW   |  |
| <b>Test purpose:</b>            | Ensure that the called ISDN user is busy, the called user is notified of the call waiting.           |  |
| <b>ISDN parameter values:</b>   | BC=speech  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |  |
| <b>Comments:</b>                |  |  |

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| 811102                          | <b>ISDN ref. to:</b><br>ETS 300 058-1 [19],<br>subclause 7<br>EN 300 403-1 [1], subclause<br>4.5.2.1 | <b>PLMN ref. to:</b><br>ETS 300 544 [32], subclause 1<br>ETS 300 567 [38], subclause 1 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/CW/TC811102  |  |
| <b>ISDN selection criteria:</b> | The called user is provided with CW  |  |
| <b>PLMN selection criteria:</b> | CW   |  |
| <b>Test purpose:</b>            | Ensure that the Waiting call is released at the terminating exchange after timer expired             |  |
| <b>ISDN parameter values:</b>   | BC=speech  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |  |
| <b>Comments:</b>                |  |  |

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| 811201                          | <b>ISDN ref. to:</b><br>ETS 300 286-1 [13]<br>subclause 9.1.1.1,<br>subclause 9.1.2.1<br>EN 300 403-1 [1],<br>subclause 4.5.30   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 10.5.4.25, |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/UUS1/TC811201  |  |
| <b>ISDN selection criteria:</b> | UUS1i  |  |
| <b>PLMN selection criteria:</b> | The calling (served) user is provided with UUS1 implicit request   |  |
| <b>Test purpose:</b>            | 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 |  |
| <b>ISDN parameter values:</b>   | BC=speech, UI length=32  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech, UI length=32  |  |
| <b>Comments:</b>                |  |  |

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| 811202                          | <b>ISDN ref. to:</b><br>ETS 300 286-1 [13],<br>subclause 9.1.2.1<br>EN 300 403-1 [1],<br>subclause 4.5.30  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 10.5.4.25, |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/UUS1/TC811202  |  |
| <b>ISDN selection criteria:</b> | UUS1i  |  |
| <b>PLMN selection criteria</b>  | The calling (served) user is provided with UUS1 implicit request   |  |
| <b>Test purpose:</b>            | 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. |  |
| <b>ISDN parameter values:</b>   | BC=speech, UI length=32  |  |
| <b>PLMN parameter values</b>    | GSM-BC=speech, UI length=32  |  |
| <b>Comments:</b>                |  |  |

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| 811203                          | <b>ISDN ref. to:</b><br>ETS 300 286-1 [13],<br>subclause 9.1.2.1<br>EN 300 403-1 [1],<br>subclause 4.5.30  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 10.5.4.25, |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/UUS1/TC811203  |  |
| <b>ISDN selection criteria:</b> | UUS1i  |  |
| <b>PLMN selection criteria</b>  | The calling (served) user is provided with UUS1 implicit request   |  |
| <b>Test purpose:</b>            | 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 |  |
| <b>ISDN Parameter values:</b>   | BC=speech, UI length=32  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech, UI length=32  |  |
| <b>Comments:</b>                |  |  |

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| 811204                          | <b>ISDN ref. to:</b><br>ETS 300 286-1 [13],<br>subclause 9.1.2.2.1a<br>EN 300 403-1 [1],   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 10.5.4.25, |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/UUS1/TC811204  |  |
| <b>ISDN selection criteria:</b> | UUS1i  |  |
| <b>PLMN selection criteria:</b> | The calling (served) user is provided with UUS1 implicit request   |  |
| <b>Test purpose:</b>            | 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. |  |
| <b>ISDN parameter values:</b>   | BC=speech, UI length=32  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech, UI length=32  |  |
| <b>Comments:</b>                |  |  |

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| 811205                          | <b>ISDN ref. to:</b><br>ETS 300 286-1 [13],<br>subclause 9.1.2.2.1b<br>EN 300 403-1 [1],   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 10.5.4.25, |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/UUS1/TC811205  |  |
| <b>ISDN selection criteria:</b> | UUS1i  |  |
| <b>PLMN selection criteria:</b> | The calling (served) user is provided with UUS1 implicit request   |  |
| <b>Test purpose:</b>            | 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 |  |
| <b>ISDN parameter values:</b>   | BC=speech, UI length=32  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech, UI length=32  |  |
| <b>Comments:</b>                |  |  |

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| 811206                          | <b>ISDN ref. to:</b><br>ETS 300 286-1 [13],<br>subclause 9.1.1.2.2<br>EN 300 403-1 [1], subclause 7 | <b>PLMN ref. to:</b> |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/UUS1/TC811206   |                      |
| <b>ISDN selection criteria:</b> | UUS1i   |                      |
| <b>PLMN selection criteria:</b> | The calling (served) user is provided with UUS1 implicit request.                                   |                      |
| <b>Test purpose:</b>            | To verify that UUI can be discarded by the ISDN network without disrupting Normal call handling     |                      |
| <b>ISDN Parameter values:</b>   | BC=speech   |                      |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |                      |
| <b>Comments:</b>                | .   |                      |

## NON-SYMMETRICAL TESTS

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| 820101                          | <b>ISDN ref. to:</b><br>ETS 300 055-1 [12],<br>subclause 9.2.1<br>EN 300 403-1 [1], subclause 5.6 | <b>PLMN ref. to:</b><br>ETS 300 646-1subclause 6.1.1.3 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/TP/TC820101   |  |
| <b>ISDN selection criteria:</b> | TP  |  |
| <b>PLMN selection criteria:</b> |   |  |
| <b>Test purpose:</b>            | Ensure that the calling user is notified of the call suspension and resumption by the called user |  |
| <b>ISDN parameter values:</b>   | BC=speech   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |  |
| <b>Comments:</b>                | The called user must be a basic access  |  |

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| 820102                          | <b>ISDN ref. to:</b><br>ETS 300 055-1 [12],<br>subclause 9.2.2<br>EN 300 403-1 [1], subclause<br>5.6.5  | <b>PLMN ref. to:</b><br>ETS 300 646-1 subclause 6.1.1.3 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/TP/TC820102   |   |
| <b>ISDN selection criteria:</b> | TP  |   |
| <b>PLMN selection criteria:</b> |   |   |
| <b>Test purpose:</b>            | Ensure that when the call is suspended, with the expire 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 expire". |   |
| <b>ISDN Parameter values:</b>   | BC=speech   |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |   |
| <b>Comments:</b>                | The called user must be a basic access  |   |

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| 820201                          | <b>ISDN ref. to:</b><br>ETS 300 130-1 [16]  | <b>PLMN ref. to:</b><br>ETS 300 646-1 subclause 6.1.1.7 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/MCID/TC820201   |   |
| <b>ISDN selection criteria:</b> | MCID  |   |
| <b>PLMN selection criteria:</b> |   |   |
| <b>Test purpose:</b>            | Ensure that if MCID is invoked by the called user in the Active call state, the call is registered. |   |
| <b>ISDN Parameter values:</b>   | BC=speech   |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |   |
| <b>Comments:</b>                |   |   |

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| 820202                          | <b>ISDN ref. to:</b><br>ETS 300 130-1 [16]   | <b>PLMN ref. to:</b><br>ETS 300 646-1 subclause 6.1.1.7 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/MCID/TC820202  |   |
| <b>ISDN selection criteria:</b> | MCID   |   |
| <b>PLMN selection criteria:</b> |  |   |
| <b>Test purpose:</b>            | Ensure that if MCID is invoked by the called user in the Disconnect Indication call state, the call is registered. |   |
| <b>ISDN Parameter values:</b>   | BC=speech  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |   |
| <b>Comments:</b>                |  |   |

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| 820301                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1] subclause 5.2  | <b>PLMN ref. to:</b><br>ETS 300 517, ETS 300 545 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/MPTY/TC820301   |  |
| <b>ISDN selection criteria:</b> | MTPY  |  |
| <b>PLMN selection criteria:</b> |   |  |
| <b>Test purpose:</b>            | Ensure that the user A can establish a MPTY call to user B and user C.<br>User A is terminating the entire multi party call.  |  |
| <b>ISDN Parameter values:</b>   | BC=speech   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |  |
| <b>Comments:</b>                | The ISDN user B is in network N2. The PLMN user A and PLMN user C are in network N1. User A calls user B. After call establishment user A initiates call hold. Then user A calls user C. After call establishment user A invokes the MPTY service by sending a FACILITY message to the network containing the BuildMPTY request which indicates to the network that the mobile subscriber wishes all his calls to be connected together in a multi party call. User A is terminating the entire multi party call. |  |

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| 820302                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1] subclause 5.2   | <b>PLMN ref. to:</b><br>ETS 300 517, ETS 300 545 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/MPTY/TC820302  |  |
| <b>ISDN selection criteria:</b> | MPTY   |  |
| <b>PLMN selection criteria:</b> |  |  |
| <b>Test purpose:</b>            | Ensure that the user A can establish a MPTY call to user B and user C and release the remote party C. The call clearing procedure to user B is performed from user A.  |  |
| <b>ISDN Parameter values:</b>   | BC=speech  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |  |
| <b>Comments:</b>                | The ISDN user B is in network N2. The PLMN user A and PLMN user C are in network N1. User A calls user B. After call establishment user A initiates call hold. Then user A calls user C. After call establishment user A invokes the MPTY service by sending a FACILITY message to the network containing the BuildMPTY request which indicates to the network that the mobile subscriber wishes all his calls to be connected together in a multi party call. The call clearing procedure to user B is performed from user A. |  |

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| 820303                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1] subclause 5.2  | <b>PLMN ref. to:</b><br>ETS 300 517, ETS 300 545 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/MPTY/TC820303   |  |
| <b>ISDN selection criteria:</b> | MPTY  |  |
| <b>PLMN selection criteria:</b> |   |  |
| <b>Test purpose:</b>            | The ISDN User B is in network N2. The PLMN user A and PLMN user C are in network N1. Ensure that the user A can establish a MPTY call to user B and user C. Afterwards the remote party C disconnects itself from the call. The call clearing procedure to user B is performed from user A.   |  |
| <b>ISDN Parameter values:</b>   | BC=speech   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |  |
| <b>Comments:</b>                | User A calls user B. After call establishment user A initiates call hold. Then user A calls user C. After call establishment user A invokes the MPTY service by sending a FACILITY message to the network containing the BuildMPTY request which indicates to the network that the mobile subscriber wishes all his calls to be connected together in a multi party call. |  |



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| 820304                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1] subclause 5.2   | <b>PLMN ref. to:</b><br>ETS 300 517, ETS 300 545 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/MPTY/TC820304  |  |
| <b>ISDN selection criteria:</b> | MPTY   |  |
| <b>PLMN selection criteria:</b> |  |  |
| <b>Test purpose:</b>            | The ISDN User B is in network N2. The PLMN user A and PLMN user C are in network N1. Ensure that the user A can establish a MPTY call to user B and user C and separate the remote user B from the multi-party call which is placed on hold (A-B ACTIVE / MPTY HELD). User A terminates the multi-party call and the single active call.   |  |
| <b>ISDN Parameter values:</b>   | BC=speech  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |  |
| <b>Comments:</b>                | <p>User A calls user B. After call establishment user A initiates call hold. Then user A calls user C. After call establishment user A invokes the MPTY service by sending a FACILITY message to the network containing the BuildMPTY request which indicates to the network that the mobile subscriber wishes all his calls to be connected together in a multi party call.</p> <p>To separate the remote user B from the MPTY, the served mobile will send a SplitMPTY message to the network. The network will send normal CallOnHold notifications to the remote parties on hold in the MPTY call.</p> |  |

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| 820305                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1] subclause 5.2   | <b>PLMN ref. to:</b><br>ETS 300 517, ETS 300 545 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/MPTY/TC820305  |  |
| <b>ISDN selection criteria:</b> | MPTY   |  |
| <b>PLMN selection criteria:</b> |  |  |
| <b>Test purpose:</b>            | The ISDN User B is in network N2. The PLMN user A and PLMN user C are in network N1. Ensure that the user A can establish a MPTY call to user B and user C and separate the remote user B from the multi-party call which is placed on hold (A-B ACTIVE / MPTY HELD). User A terminates the held multi party, user B clears the A-B ACTIVE call.   |  |
| <b>ISDN Parameter values:</b>   | BC=speech  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |  |
| <b>Comments:</b>                | <p>User A calls user B. After call establishment user A initiates call hold. Then user A calls user C. After call establishment user A invokes the MPTY service by sending a FACILITY message to the network containing the BuildMPTY request which indicates to the network that the mobile subscriber wishes all his calls to be connected together in a multi party call.</p> <p>To separate the remote user B from the MPTY, the served mobile will send a SplitMPTY message to the network. The network will send normal CallOnHold notifications to the remote parties on hold in the MPTY call.</p> |  |

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| 820306                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1] subclause 5.2   | <b>PLMN ref. to:</b><br>ETS 300 517, ETS 300 545 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/MPTY/TC820306  |  |
| <b>ISDN selection criteria:</b> | MPTY   |  |
| <b>PLMN selection criteria:</b> |  |  |
| <b>Test purpose:</b>            | The ISDN User B is in network N2. The PLMN user A and PLMN user C are in network N1. Ensure that the user A can establish a MPTY call to user B and user C and separate the remote user B from the multi-party call which is placed on hold (A-B ACTIVE / MPTY HELD). User B is clearing the A-B Active call. After the completion of the Retrieve function user A terminates the multi-party call.  |  |
| <b>ISDN Parameter values:</b>   | BC=speech  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |  |
| <b>Comments:</b>                | <p>User A calls user B. After call establishment user A initiates call hold. Then user A calls user C. After call establishment user A invokes the MPTY service by sending a FACILITY message to the network containing the BuildMPTY request which indicates to the network that the mobile subscriber wishes all his calls to be connected together in a multi party call.</p> <p>To separate the remote user B from the MPTY, the served mobile will send a SplitMPTY message to the network. The network will send normal CallOnHold notifications to the remote parties on hold in the MPTY call.</p> <p>User B is clearing the A-B Active call. After the completion of the Retrieve function with a FACILITY message with a transaction identifier corresponding to any call in the MPTY, user A terminates the multi-party call.</p> |  |

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| 820307                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1] subclause 5.2   | <b>PLMN ref. to:</b><br>ETS 300 517, ETS 300 545 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/MPTY/TC820307  |  |
| <b>ISDN selection criteria:</b> | MPTY   |  |
| <b>PLMN selection criteria:</b> |  |  |
| <b>Test purpose:</b>            | The ISDN User B is in network N2. The PLMN user A and PLMN user C are in network N1. Ensure that the user A can establish a MPTY call to user B and user C and separate the remote user B from the multi-party call which is placed on hold (A-B ACTIVE / MPTY HELD). User C is clearing the MPTY held call. User B is clearing the A-B Active call.   |  |
| <b>ISDN Parameter values:</b>   | BC=speech  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |  |
| <b>Comments:</b>                | <p>User A calls user B. After call establishment user A initiates call hold. Then user A calls user C. After call establishment user A invokes the MPTY service by sending a FACILITY message to the network containing the BuildMPTY request which indicates to the network that the mobile subscriber wishes all his calls to be connected together in a multi party call.</p> <p>To separate the remote user B from the MPTY, the served mobile will send a SplitMPTY message to the network. The network will send normal CallOnHold notifications to the remote parties on hold in the MPTY call.</p> <p>User C is clearing the MPTY held call. User B is clearing the A-B Active call.</p> |  |

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| 820308                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1] subclause 5.2   | <b>PLMN ref. to:</b><br>ETS 300 517, ETS 300 545 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/MPTY/TC820308  |  |
| <b>ISDN selection criteria:</b> | MPTY   |  |
| <b>PLMN selection criteria:</b> |  |  |
| <b>Test purpose:</b>            | The ISDN User B is in network N2. The PLMN user A and PLMN user C are in network N1. Ensure that the user A can establish a MPTY call to user B and user C and separate the remote user B from the multi-party call which is placed on hold (A-B ACTIVE / MPTY HELD). User A invokes the MPTY service and join the single active call and the held MPTY together. User A is terminating the entire multi party call.   |  |
| <b>ISDN Parameter values:</b>   | BC=speech  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |  |
| <b>Comments:</b>                | <p>User A calls user B. After call establishment user A initiates call hold. Then user A calls user C. After call establishment user A invokes the MPTY service by sending a FACILITY message to the network containing the BuildMPTY request which indicates to the network that the mobile subscriber wishes all his calls to be connected together in a multi party call.</p> <p>To separate the remote user B from the MPTY, the served mobile will send a SplitMPTY message to the network. The network will send normal CallOnHold notifications to the remote parties on hold in the MPTY call.</p> <p>User A invokes the MPTY service by sending a FACILITY message to the network containing the BuildMPTY request which indicates to the network that the mobile subscriber wishes to join the single active call and the held MPTY together in a multi party call. User A is terminating the entire multi party call.</p> |  |

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| 820309                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1] subclause 5.2   | <b>PLMN ref. to:</b><br>ETS 300 517, ETS 300 545 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/MPTY/TC820309  |  |
| <b>ISDN selection criteria:</b> | MPTY   |  |
| <b>PLMN selection criteria:</b> |  |  |
| <b>Test purpose:</b>            | <p>The ISDN User B is in network N2. The PLMN user A and PLMN user C are in network N1. Ensure that the user A can establish a MPTY call to user B and user C and separate the remote user B from the multi-party call which is placed on hold (A-B ACTIVE / MPTY HELD). After initiating of call hold, the call A-B has an ACTIVE –HOLD- REQUEST connection.</p> <p>After the completion of the Retrieve function concerning the MPTY call, the MPTY call is an active connection and the A-B call has an Active-Held connection. (A-B HELD / MPTY ACTIVE).</p> <p>User A is terminating the multi party call. User B is clearing the Active-Held call.</p> |  |
| <b>ISDN Parameter values:</b>   | BC=speech  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |  |
| <b>Comments:</b>                |  |  |

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| 820310                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1] subclause 5.2   | <b>PLMN ref. to:</b><br>ETS 300 517, ETS 300 545 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/MPTY/TC820310  |  |
| <b>ISDN selection criteria:</b> | MPTY   |  |
| <b>PLMN selection criteria:</b> |  |  |
| <b>Test purpose:</b>            | <p>The ISDN User B is in network N2. The PLMN user A and PLMN user C are in network N1.</p> <p>Ensure that the user A can establish a MPTY call to user B and user C and separate the remote user B from the multi-party call which is placed on hold (A-B ACTIVE / MPTY HELD). After initiating of call hold, the call A-B has an ACTIVE –HOLD- REQUEST connection.</p> <p>After the completion of the Retrieve function concerning the MPTY call, the MPTY call is an active connection and the A-B call has an Active-Held connection. (A-B HELD / MPTY ACTIVE).</p> <p>User B is terminating the multi party call. After the completion of the Retrieve function concerning the A-B Active-Held call, user A is clearing the A-B connection.</p> |  |
| <b>ISDN Parameter values:</b>   | BC=speech  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |  |
| <b>Comments:</b>                |  |  |

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| 820311                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1] subclause 5.2  | <b>PLMN ref. to:</b><br>ETS 300 517, ETS 300 545 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/MPTY/TC820311   |  |
| <b>ISDN selection criteria:</b> | MPTY  |  |
| <b>PLMN selection criteria:</b> |   |  |
| <b>Test purpose:</b>            | <p>The ISDN User B is in network N2. The PLMN user A and PLMN user C are in network N1.</p> <p>Ensure that the user A can establish a MPTY call to user B and user C and separate the remote user B from the multi-party call which is placed on hold (A-B ACTIVE / MPTY HELD). After initiating of call hold, the call A-B has an ACTIVE –HOLD- REQUEST connection.</p> <p>After the completion of the Retrieve function concerning the MPTY call, the MPTY call is an active connection and the A-B call has an Active-Held connection. (A-B HELD / MPTY ACTIVE).</p> <p>User B is terminating the multi party call. After the completion of the Retrieve function concerning the A-B Active-Held call, user A is clearing the A-B connection.</p> <p>Ensure that the user A can establish a MPTY call to user B and user C and separate the remote user B from the multi-party call which is placed on hold (A-B ACTIVE / MPTY HELD). After initiating of call hold, the call A-B has an ACTIVE –HOLD- REQUEST connection.</p> <p>After the completion of the Retrieve function concerning the MPTY call, the MPTY call is an active connection and the A-B call has an Active-Held connection. (A-B HELD / MPTY ACTIVE).</p> <p>User C is terminating the multi party call. After the completion of the Retrieve function concerning the A-B Active-Held call, user B is clearing the A-B connection.</p> |  |
| <b>ISDN Parameter values:</b>   | BC=speech   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |  |
| <b>Comments:</b>                |   |  |



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| 820401                          | <b>ISDN ref. to:</b><br>ETS 300 369-1 [20],<br>subclause 9  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/ECT/TC820401  |   |
| <b>ISDN selection criteria:</b> | ECT   |   |
| <b>PLMN selection criteria:</b> |   |   |
| <b>Test purpose:</b>            | <p>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.</p> <p>Ensure that when user B invokes ECT in which the call <b>A-B</b> is in the <b>Active call state – Call Held auxiliary state</b> and the call <b>B-C</b> is in the <b>Active call state</b> 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.</p> |   |
| <b>ISDN Parameter values:</b>   | BC=speech   |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |   |
| <b>Comments:</b>                |   |   |

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| 820402                          | <b>ISDN ref. to:</b><br>ETS 300 369-1 [20],<br>subclause 9   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/ECT/TC820402   |   |
| <b>ISDN selection criteria:</b> | ECT  |   |
| <b>PLMN selection criteria:</b> |  |   |
| <b>Test purpose:</b>            | <p>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.</p> <p>Ensure that when user B invokes ECT in which the call <b>A-B</b> is in the <b>Active call state</b> and the call <b>B-C</b> is in the <b>Active call state – Call Held auxiliary state</b>, 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.</p> |   |
| <b>ISDN Parameter values:</b>   | BC=speech  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |   |
| <b>Comments:</b>                |  |   |

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| 820403                          | <b>ISDN ref. to:</b><br>ETS 300 369-1 [20],<br>subclause 9   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/ECT/TC820403   |   |
| <b>ISDN selection criteria:</b> | ECT  |   |
| <b>PLMN selection criteria:</b> |  |   |
| <b>Test purpose:</b>            | <p>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 <b>A-B</b> is in the <b>Active call state - Call Held auxiliary state</b> and the call <b>B-C</b> is in the <b>Call Delivered State</b> 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.</p> <p>The call clearing procedure of the B-C connection is performed from user B.</p> |   |
| <b>ISDN Parameter values:</b>   | BC=speech  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |   |
| <b>Comments:</b>                |  |   |

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| 820404                          | <b>ISDN ref. to:</b><br>ETS 300 369-1 [20],<br>subclause 9   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/ECT/TC820403   |   |
| <b>ISDN selection criteria:</b> | ECT  |   |
| <b>PLMN selection criteria:</b> |  |   |
| <b>Test purpose:</b>            | <p>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 <b>A-B</b> is in the <b>Active call state</b> and the call <b>B-C</b> is in the <b>Call Delivered State - Call Held auxiliary state</b>, 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.</p> |   |
| <b>ISDN Parameter values:</b>   | BC=speech  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |   |
| <b>Comments:</b>                |  |   |

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| 820501                          | <b>ISDN ref. to:</b><br>ETS 300 207   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/CD/TC820501   |   |
| <b>ISDN selection criteria:</b> | CD; Network provider option "served user call retention on invocation of diversion" is "clear call on invocation".  |   |
| <b>PLMN selection criteria:</b> |   |   |
| <b>Test purpose:</b>            | <p>The ISDN user B is in network N2 and is provided with CD.</p> <p>The PLMN user A and PLMN user C are in network N1.</p> <p>Ensure that when user A calls user B, the local exchange of user B goes to the Call Received call state N07. Then user B sends a FACILITY message containing a Facility information element coded as CallDeflection invoke component. The network performs the call deflection to user C. Afterwards the network shall release user B with a DISCONNECT message with cause #31 and a facility IE with a CallDeflection return result component.</p> |   |
| <b>ISDN Parameter values:</b>   | BC=speech   |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |   |
| <b>Comments:</b>                |   |   |

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| 820502                          | <b>ISDN ref. to:</b><br>ETS 300 207   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/CD/TC820502   |   |
| <b>ISDN selection criteria:</b> | CD; Network provider option "served user call retention on invocation of diversion" is "clear call on invocation"   |   |
| <b>PLMN selection criteria:</b> |   |   |
| <b>Test purpose:</b>            | <p>The ISDN user B is in network N2 and is provided with CD. The PLMN user A and PLMN user C are in network N1.</p> <p>Ensure that when user A calls user B, the local exchange of user B goes to the Incoming Call Proceeding call state N09. Then user B sends a FACILITY message containing a Facility information element coded as CallDeflection invoke component. The network performs the call deflection to user C. Afterwards the network shall release user B with a DISCONNECT message with cause #31 and a facility IE with a CallDeflection return result component.</p> |   |
| <b>ISDN Parameter values:</b>   | BC=speech   |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |   |
| <b>Comments:</b>                |   |   |

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| 820503                          | <b>ISDN ref. to:</b><br>ETS 300 207  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/CD/TC820503  |   |
| <b>ISDN selection criteria:</b> | CD; Network provider option "served user call retention on invocation of diversion" is "clear call on invocation"  |   |
| <b>PLMN selection criteria:</b> |  |   |
| <b>Test purpose:</b>            | <p>The ISDN user B is in network N2 and is provided with CD. The PLMN user A and PLMN user C are in network N1.</p> <p>Ensure that when user A calls user B, the local exchange of user B goes to the Overlap Receiving call state N25. Then user B sends a FACILITY message containing a Facility information element coded as CallDeflection invoke component. The network performs the call deflection to user C. Afterwards the network shall release user B with a DISCONNECT message with cause #31 and a facility IE with a CallDeflection return result component.</p> |   |
| <b>ISDN Parameter values:</b>   | BC=speech  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |   |
| <b>Comments:</b>                |  |   |

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| 820504                          | <b>ISDN ref. to:</b><br>ETS 300 207   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/CD/TC820504   |   |
| <b>ISDN selection criteria:</b> | CD; Network provider option "served user call retention on invocation of diversion" is "retain call until alerting begins at diverted-to user".   |   |
| <b>PLMN selection criteria:</b> |   |   |
| <b>Test purpose:</b>            | <p>The ISDN user B is in network N2 and is provided with CD. The PLMN user A and PLMN user C are in network N1. Ensure that when user A calls user B, the local exchange of user B goes to the Call Received call state N07. Then user B sends a FACILITY message containing a Facility information element coded as CallDeflection invoke component. The network performs the call deflection to user C. On the indication that the diverted-to network is in the Call Received Call state N07 the user B receives a DISCONNECT or RELEASE message with cause #31.</p> |   |
| <b>ISDN Parameter values:</b>   | BC=speech   |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |   |
| <b>Comments:</b>                |   |   |

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| 820505                          | <b>ISDN ref. to:</b><br>ETS 300 207   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/CD/TC820505   |   |
| <b>ISDN selection criteria:</b> | CD; Network provider option "served user call retention on invocation of diversion" is "retain call until alerting begins at diverted-to user"  |   |
| <b>PLMN selection criteria:</b> |   |   |
| <b>Test purpose:</b>            | <p>The ISDN user B is in network N2 and is provided with CD. The PLMN user A and PLMN user C are in network N1.</p> <p>Ensure that when user A calls user B, the local exchange of user B goes to the Incoming Call Proceeding call state N09. Then user B sends a FACILITY message containing a Facility information element coded as CallDeflection invoke component. The network performs the call deflection to user C. On the indication that the diverted-to network is in the Call Received Call state N07 the user B receives a DISCONNECT or RELEASE message with cause #31.</p> |   |
| <b>ISDN Parameter values:</b>   | BC=speech   |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |   |
| <b>Comments:</b>                |   |   |

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| 820506                          | <b>ISDN ref. to:</b><br>ETS 300 207  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/CD/TC820506  |   |
| <b>ISDN selection criteria:</b> | CD; Network provider option "served user call retention on invocation of diversion" is "retain call until alerting begins at diverted-to user"   |   |
| <b>PLMN selection criteria:</b> |  |   |
| <b>Test purpose:</b>            | <p>The ISDN user B is in network N2 and is provided with CD. The PLMN user A and PLMN user C are in network N1.</p> <p>Ensure that when user A calls user B, the local exchange of user B goes to the Overlap Receiving call state N25. Then user B sends a FACILITY message containing a Facility information element coded as CallDeflection invoke component. The network performs the call deflection to user C. On the indication that the diverted-to network is in the Call Received Call state N07 the user B receives a DISCONNECT or RELEASE message with cause #31.</p> |   |
| <b>ISDN Parameter values:</b>   | BC=speech  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |   |
| <b>Comments:</b>                |  |   |

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| 820507                          | <b>ISDN ref. to:</b><br>ETS 300 207  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/CD/TC820507  |   |
| <b>ISDN selection criteria:</b> | CD; Network provider option "served user call retention on invocation of diversion" is "retain call until alerting begins at diverted-to user".  |   |
| <b>PLMN selection criteria:</b> |  |   |
| <b>Test purpose:</b>            | The ISDN user B is in network N2 and is provided with CD. The PLMN user A and user C are in network N1. Ensure that when user A calls user B, the local exchange of user B goes to the Call Received call state N07. Then user B sends a FACILITY message containing a Facility information element coded as CallDeflection invoke component. The network performs the call deflection to user C. On the indication that the diverted-to network is in the Connect Request call state N08, the user B receives a DISCONNECT or RELEASE message with cause #31. |   |
| <b>ISDN Parameter values:</b>   | BC=speech  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |   |
| <b>Comments:</b>                |  |   |

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| 820508                          | <b>ISDN ref. to:</b><br>ETS 300 207  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/CD/TC820508  |   |
| <b>ISDN selection criteria:</b> | CD; (Network provider option "served user call retention on invocation of diversion" is "retain call until alerting begins at diverted-to user").  |   |
| <b>PLMN selection criteria:</b> |  |   |
| <b>Test purpose:</b>            | The ISDN user B is in network N2 and is provided with CD. The PLMN user A and PLMN user C are in network N1. Ensure that when user A calls user B, the local exchange of user B goes to the Incoming Call Proceeding call state N09. Then user B sends a FACILITY message containing a Facility information element coded as CallDeflection invoke component. The network performs the call deflection to user C. On the indication that the diverted-to network is in the Connect Request call state N08, the user B receives a DISCONNECT or RELEASE message with cause #31. |   |
| <b>ISDN Parameter values:</b>   | BC=speech  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |   |
| <b>Comments:</b>                |  |   |

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| 820509                          | <b>ISDN ref. to:</b><br>ETS 300 207   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/CD/TC820509   |   |
| <b>ISDN selection criteria:</b> | CD; Network provider option "served user call retention on invocation of diversion" is "retain call until alerting begins at diverted-to user".   |   |
| <b>PLMN selection criteria:</b> |   |   |
| <b>Test purpose:</b>            | <p>The ISDN user B is in network N2 and is provided with CD. The PLMN user A and PLMN user C are in network N1. Ensure that when user A calls user B, the local exchange of user B goes to the Overlap Receiving call state N25 receives a FACILITY message containing a Facility information element coded as CallDeflection invoke component.</p> <p>The network performs the call deflection to user C. On the indication that the diverted-to network is in the Connect Request call state N08, the user B receives a DISCONNECT or RELEASE message with cause #31.</p> |   |
| <b>ISDN Parameter values:</b>   | BC=speech   |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |   |
| <b>Comments:</b>                |   |   |

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| 820510                          | <b>ISDN ref. to:</b><br>ETS 300 207   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/CD/TC820510   |   |
| <b>ISDN selection criteria:</b> | CD; Network provider option "served user call retention on invocation of diversion" is "retain call until alerting begins at diverted-to user".   |   |
| <b>PLMN selection criteria:</b> |   |   |
| <b>Test purpose:</b>            | <p>The ISDN user B is in network N2 and is provided with CD. The PLMN user A and PLMN user C are in network N1.</p> <p>Ensure that when user A calls user B, the local exchange of user B goes to the Call Received call state N07. Then user B sends a FACILITY message containing a Facility information element coded as CallDeflection invoke component. The network performs the call deflection to user C. On the indication that the diverted-to network is in the Active state, the user B receives a DISCONNECT or RELEASE message with cause #31.</p> |   |
| <b>ISDN Parameter values:</b>   | BC=speech   |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |   |
| <b>Comments:</b>                |   |   |

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| 820511                          | <b>ISDN ref. to:</b><br>ETS 300 207  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/CD/TC820511  |   |
| <b>ISDN selection criteria:</b> | CD; Network provider option "served user call retention on invocation of diversion" is "retain call until alerting begins at diverted-to user".  |   |
| <b>PLMN selection criteria:</b> |  |   |
| <b>Test purpose:</b>            | <p>The ISDN user B is in network N2 and is provided with CD. The PLMN user A and PLMN user C are in network N1.</p> <p>Ensure that when user A calls user B, the local exchange of user B goes to the Incoming Call Proceeding call state N09. Then user B sends a FACILITY message containing a Facility information element coded as CallDeflection invoke component. The network performs the call deflection to user C. On the indication that the diverted-to network is in the Active state, the user B receives a DISCONNECT or RELEASE message with cause #31.</p> |   |
| <b>ISDN Parameter values:</b>   | BC=speech  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |   |
| <b>Comments:</b>                |  |   |

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| 820512                          | <b>ISDN ref. to:</b><br>ETS 300 207  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/CD/TC820512  |   |
| <b>ISDN selection criteria:</b> | CD; Network provider option "served user call retention on invocation of diversion" is "retain call until alerting begins at diverted-to user".  |   |
| <b>PLMN selection criteria:</b> |  |   |
| <b>Test purpose:</b>            | <p>The ISDN user B is in network N2 and is provided with CD. The PLMN user A and user C are in network N1.</p> <p>Ensure that when user A calls user B, the local exchange of user B goes to the Overlap Receiving call state N25. Then user B sends a FACILITY message containing a Facility information element coded as CallDeflection invoke component. The network performs the call deflection to user C. On the indication that the diverted-to network is in the Active state, the user B receives a DISCONNECT or RELEASE message with cause #31.</p> |   |
| <b>ISDN Parameter values:</b>   | BC=speech  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |   |
| <b>Comments:</b>                |  |   |



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| 820601                          | <b>ISDN ref. to:</b>   | <b>PLMN ref. to:</b><br>ETS 300 548 [34] |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/Call barring service/TC820601  |  |
| <b>ISDN selection criteria:</b> |  |  |
| <b>PLMN selection criteria:</b> | Call barring service   |  |
| <b>Test purpose:</b>            | <p>The calling user activates Barring of Outgoing international Calls except those to the home PLMN country (BOIC-exHC). The user is roaming outside the home PLMN country. Barring of Outgoing international Calls except those to the home PLMN country is supported by the PLMN in which the served mobile subscriber currently roams.</p> <p>Ensure that when the calling user activates Barring of Outgoing International Calls except those to the home PLMN country (BOIC-exHC) and the user is roaming outside the home PLMN country, call establishment to the home PLMN country is successful.</p> |  |
| <b>ISDN Parameter values:</b>   | BC=speech  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |  |
| <b>Comments:</b>                |  |  |

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| 820701                          | <b>ISDN ref. to:</b><br>ETS 300 185-1 [14],<br>subclause 9.2.2, ANNEX A,<br>Figure A.2  | <b>PLMN ref. to:</b><br>ETS 300 646-1 subclause 6.1.1.8 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/CONF/TC820701   |   |
| <b>ISDN selection criteria:</b> | CONF  |   |
| <b>PLMN selection criteria:</b> |   |   |
| <b>Test purpose:</b>            | <p>The ISDN user B is in network N2 and is provided with CONF. The PLMN user A and PLMN user C are in network N2.</p> <p>Ensure that user A calls user B. User B can establish a conference from the Active call state to user C.</p>   |   |
| <b>ISDN Parameter values:</b>   | BC=speech   |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |   |
| <b>Comments:</b>                | <p>User A calls user B. After the call establishment</p> <p>[in the (Active, Idle) state] user B sends a FACILITY message including a Facility IE which shall contain a <b>BeginCONF</b> invoke component indicating the call reference of the call to be added.</p> <p>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.</p> |   |

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| 820801                          | <b>ISDN ref. to:</b><br>ETS 300 188-1 [17],<br>subclause 9.2   | <b>PLMN ref. to:</b><br>ETS 300 646-1, subclause 6.1.1.14 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/3PTY/TC820801  |   |
| <b>ISDN selection criteria:</b> | 3PTY   |   |
| <b>PLMN selection criteria:</b> |  |   |
| <b>Test purpose:</b>            | <p>The ISDN user B is in network N2 and is provided with 3PTY.</p> <p>The PLMN user A and PLMN user C are in the network N1.</p> <p>Ensure that user A calls user B. User B can establish a three-way conversation call with user C. User B release the Active-Idle connection. After the completion of the Retrieve function, the call clearing procedure is performed from user B.</p>   |   |
| <b>ISDN Parameter values:</b>   | BC=speech  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |   |
| <b>Comments:</b>                | <p>User A calls user B. After initiating of call hold from the user B, the call A-B has an Active-Held connection.</p> <p>User B is calling user C (with the CRy). The call (B-C) has an Active-Idle connection.</p> <p>When user B 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. The three-way bridge is established.</p> <p>On receipt of a DISCONNECT message from the user B 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 A the notification "Remote hold".</p> <p>User B sends a RETRIEVE message for CRx. User B shall receive a RETRIEVE ACKNOWLEDGE message. The call A-B has an Active-Idle connection.</p> <p>The call clearing procedure is performed from user A.</p> |   |

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| 820802                          | <b>ISDN ref. to:</b><br>ETS 300 188-1 [17],<br>subclause 9.2  | <b>PLMN ref. to:</b><br>ETS 300 646-1, subclause 6.1.1.14 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/Speech/3PTY/TC820802   |   |
| <b>ISDN selection criteria:</b> | 3PTY  |   |
| <b>PLMN selection criteria:</b> |   |   |
| <b>Test purpose:</b>            | <p>The ISDN user B is in network N2 and is provided with 3PTY.</p> <p>The PLMN user A and PLMN user C are in the network N1.</p> <p>Ensure that user A calls user B. User B can establish a three-way conversation call with user C. User B release the Active-Idle connection. After the completion of the Retrieve function, the call clearing procedure is performed from user B.</p>  |   |
| <b>ISDN Parameter values:</b>   | BC=speech   |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |   |
| <b>Comments:</b>                | <p>User A calls user B. After initiating of call hold from the user B, the call A-B has an Active-Held connection.</p> <p>User B is calling user C (with the CRy). The call (B-C) has an Active-Idle connection.</p> <p>When user B 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. The three-way bridge is established.</p> <p>On receipt of a DISCONNECT message from the user B relating to the Active-Held connection (CRx) the network shall clear the call to user A with a DISCONNECT message. After the release of the three-way bridge the call B-C has an Active-Idle connection.</p> <p>The call clearing procedure is performed from user C.</p> |   |

### 6.2.8.2 Bearer capability "UDI"

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| <b>Supplementary Services</b> |  |
| <b>UDI</b>                    |  |

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| 830101                          | <b>ISDN ref. to:</b><br>ETS 300 092-1 [6],<br>subclause 9.3,<br>EN 300 403-1 [1],<br>subclause 4.5.10,<br>subclause 4.5.11 | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 9.3.23.2<br>ETS 300 542 [57] , subclause 1,<br>ETS 300 565 [36], subclause 1 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/UDI/CLIP/TC830101   |  |
| <b>ISDN selection criteria:</b> | The called user is provided with CLIP  |  |

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| <b>PLMN selection criteria:</b> | CLIP   |
| <b>Test purpose:</b>            | Ensure that when Calling party subaddress is provided by the calling user, the Calling party number and Calling party subaddress information elements are correctly delivered to the called (served) user. |
| <b>ISDN parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption,<br>Calling party number PI=PA SI=NP, TON=national/international NPI=ISDN/Telephony numbering plan<br>Calling party subaddress number                                 |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption,<br>Calling party subaddress number   |
| <b>Comments:</b>                |  |

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| 830102                          | <b>ISDN ref. to:</b><br>ETS 300 092-1 [6]<br>subclause 9.3<br>EN 300 403-1 [1],<br>subclause 4.5.10   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 9.3.23.2<br>ETS 300 542 [57] , subclause 1,<br>ETS 300 565 [36], subclause 1 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/UDI/CLIP/TC830102  |  |
| <b>ISDN selection criteria:</b> | The called user is provided with CLIP   |  |
| <b>PLMN selection criteria:</b> | CLIP  |  |
| <b>Test purpose:</b>            | Ensure that when No Calling party subaddress information element is provided by the calling user, the Calling party number information element is network provided and correctly delivered to the called (served) user. |  |
| <b>ISDN parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption;<br>Calling party number PI= PA, SI=NP TON= national/international;<br>NPI= ISDN/Telephony numbering plan (ITU-T Rec. E.164 [25] )   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption  |  |
| <b>Comments:</b>                |   |  |

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| 830201                          | <b>ISDN ref. to:</b><br>ETS 300 093-1 [7],<br>subclause 9.4.1:<br>ETS 300 092-1 [6] /A2 Fig2             | <b>PLMN ref. to:</b><br>ETS 300 557 [35], 9.3.23.2<br>ETS 300 542 [57] , subclause 2,<br>ETS 300 565 [36], subclause 2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/UDI/CLIR/TC830201   |  |
| <b>ISDN selection criteria:</b> | The called user is provided with CLIP  |  |
| <b>PLMN selection criteria:</b> | CLIR   |  |
| <b>Test purpose:</b>            | The calling user is provided with CLIR permanent mode subscription                                       |  |
| <b>ISDN parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption;<br>Calling party number: PI=PR, TON = unknown, NPI = unknown SI=NP |  |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption,<br>Calling party subaddress                                    |  |
| <b>Comments:</b>                |  |  |

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| 830301                          | <b>ISDN ref. to:</b><br>ETS 300 097-1 [8],<br>subclause 9.5.1   | <b>PLMN ref. to:</b><br>ETS 300 557 9.3.subclause 5.1, 9.3.23.2<br>ETS 300 542 [57] , subclause 3,<br>ETS 300 565 [36], subclause 3 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/UDI/COLP/TC830301  |   |
| <b>ISDN selection criteria:</b> | COLP  |   |
| <b>PLMN selection criteria:</b> | The calling user is provided with COLP  |   |
| <b>Test purpose:</b>            | Ensure that when the Connected subaddress number is provided by the called user, the Connected number and Connected subaddress information elements are correctly delivered to the calling (served) user. |   |
| <b>ISDN parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption;<br>Connected subaddress   |   |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption;<br>PI= PA, SI=UPVP, TON= national/international, Connected subaddress,<br>NPI= ISDN/Telephony numbering plan (ITU-T Rec. E.164 [25] )                           |   |
| <b>Comments:</b>                |   |   |

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| 830302                          | <b>ISDN ref. to:</b><br>ETS 300 097-1 [8],<br>subclause 9.5.1   | <b>PLMN ref. to:</b><br>ETS 300 557 9.3.subclause 5.1,<br>ETS 300 542 [57] , subclause 3,<br>ETS 300 565 [36], subclause 3 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/UDI/COLP/TC830302  |  |
| <b>ISDN selection criteria:</b> | COLP  |  |
| <b>PLMN selection criteria:</b> | The calling user is provided with COLP  |  |
| <b>Test purpose:</b>            | Ensure that when No Connected subaddress is provided by the called user, the Connected number information element is network provided and correctly delivered to the calling (served) user. |  |
| <b>ISDN parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption,<br>Connected number: PI= PA SI=NP TON= national/international,<br>NPI= ISDN/Telephony numbering plan (ITU-T Rec. E.164 [25] )                     |  |
| <b>Comments:</b>                |   |  |

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| 830401                          | <b>ISDN ref. to:</b><br>ETS 300 098-<br>subclause 19.3.1,<br>subclause 9.4.1<br>ETS 300 097-1 [8] /A2 Fig 4   | <b>PLMN ref. to:</b><br>ETS 300 557 [35] subclause 9.3, subclause 5.1,<br>subclause 9.3.23.2<br>ETS 300 542 [57] , clause 3<br>ETS 300 565 [36], clause 3 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/UDI/COLR/TC830401  |   |
| <b>ISDN selection criteria:</b> | COLR  |   |
| <b>PLMN selection criteria:</b> | The calling user is provided with COLP  |   |
| <b>Test purpose:</b>            | The called (served) user is provided with COLR permanent mode subscription.<br><br>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. |   |
| <b>ISDN parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption,<br>Connected number PI=PR, SI=NP, TON=unknown, NPI=unknown  |   |
| <b>Comments:</b>                |   |   |

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| 830501                          | <b>ISDN ref. to:</b><br>ETS 300 138-1 [10],<br>subclause 9.2.2,<br>subclause 9.2.4   | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br><br>ETS 300 569 [39] |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/UDI/CUG/TC830501  |  |
| <b>ISDN selection criteria:</b> | Calling user and called user belong to the <b>same</b> CUG;<br><br>CUG supplementary options: <b>IA; not ICB</b>   |  |
| <b>PLMN selection criteria:</b> | CUG supplementary options: <b>not OA; not ocb; not Pref. CUG</b>   |  |
| <b>Test purpose:</b>            | Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access is not allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> 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 the Facility IE which shall contain a ForwardCUG-Info with CUG Index (CI),<br><br>Suppress Pref. CUG (SPC), Suppress OA (SOA)<br><br>the called user receives a SETUP message with a Facility IE which contains a cUGCall invoke component encoded as "Outgoing access with default value, CUG index" and sends an ALERTING or CONNECT message. |  |
| <b>ISDN parameter values:</b>   | BC=speech; Facility IE with cUGCall invoke component: "Outgoing access with default value, CUG index"  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption;<br><br>ForwardCUG-Info: CUG Index (CI);<br><br>Suppress Pref. CUG (SPC);<br><br>Suppress OA (SOA)  |  |
| <b>Comments:</b>                |  |  |

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| 830502                          | <b>ISDN ref. to:</b><br>ETS 300 138-1 [10],<br>subclause 9.2.2,<br>subclause 9.2.4   | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br><br>ETS 300 569 [39] |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/UDI/CUG/TC830502  |  |
| <b>ISDN selection criteria:</b> | The called user belongs to the <b>same</b> CUG with the following CUG supplementary options: <b>IA; not ICB</b>  |  |
| <b>PLMN selection criteria:</b> | The calling user belongs to a CUG with the following CUG supplementary options: <b>OA; not ocb; not Pref. CUG</b>  |  |
| <b>Test purpose:</b>            | <p>Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> 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 the Facility IE which shall contain a ForwardCUG-Info with CUG Index (CI), Suppress Pref. CUG (SPC), Suppress OA (SOA)</p> <p>the called user receives a SETUP message <b>with</b> a Facility IE which contains a cUGCall invoke component encoded as "Outgoing access with default value, CUG index" and sends an ALERTING or CONNECT message.</p> |  |
| <b>ISDN parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption; Facility IE with cUGCall invoke component: "Outgoing access with default value, CUG index"   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption;<br><br>ForwardCUG-Info: CUG Index (CI);<br><br>Suppress Pref. CUG (SPC);<br><br>Suppress OA (SOA);   |  |
| <b>Comments:</b>                |  |  |



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| 830503                          | <b>ISDN ref. to:</b><br>ETS 300 138-1 [10],<br>subclause 9.2.2,<br>subclause 9.2.4  | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br><br>ETS 300 569 [39] |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/UDI/CUG/TC830503   |  |
| <b>ISDN selection criteria:</b> | The called user belongs to the <b>same</b> CUG with the following CUG supplementary options: <b>IA; not ICB</b>   |  |
| <b>PLMN selection criteria:</b> | The calling user belongs to a CUG with the following CUG supplementary options: <b>OA; not ocb; not Pref. CUG</b>   |  |
| <b>Test purpose:</b>            | <p>Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> 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 the Facility IE which shall contain a ForwardCUG-Info with CUG Index (CI), Suppress Pref. CUG (SPC),</p> <p>the called user receives a SETUP message <b>without</b> a Facility IE which contains a cUGCall invoke component encoded as "Outgoing access with default value, CUG index" and sends an ALERTING or CONNECT message.</p> |  |
| <b>ISDN parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption;   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption;<br><br>ForwardCUG-Info: CUG Index (CI);<br><br>Suppress Pref. CUG (SPC);  |  |
| <b>Comments:</b>                |   |  |

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| 830504                          | <b>ISDN ref. to:</b><br>ETS 300 138-1 [10],<br>subclause 9.2.2,<br>subclause 9.2.4  | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br><br>ETS 300 569 [39] |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/UDI/CUG/TC830504   |  |
| <b>ISDN selection criteria:</b> | The called user belongs to CUG with the following CUG supplementary options:<br><b>IA; ICB</b>  |  |
| <b>PLMN selection criteria:</b> | The calling user belongs to the <b>same</b> CUG with the following CUG supplementary options: <b>OA; not ocb; not Pref. CUG</b>   |  |
| <b>Test purpose:</b>            | Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access is allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> 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 the Facility IE which shall contain a ForwardCUG-Info with CUG Index (CI), Suppress Pref. CUG (SPC),<br><br>the called user receives a SETUP message <b>without</b> a Facility IE. |  |
| <b>ISDN parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption;   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption;<br><br>ForwardCUG-Info: CUG Index (CI);<br><br>Suppress Pref. CUG (SPC);  |  |
| <b>Comments:</b>                |   |  |

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| 830505                          | <b>ISDN ref. to:</b><br>ETS 300 138-1 [10],<br>subclause 9.2.2,<br>subclause 9.2.4  | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br><br>ETS 300 569 [39] |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/UDI/CUG/TC830505   |  |
| <b>ISDN selection criteria:</b> | The called user belongs to the <b>same</b> CUG with the following CUG supplementary options: <b>IA; not ICB</b>   |  |
| <b>PLMN selection criteria:</b> | The calling user belongs to a CUG with the following CUG supplementary options: <b>OA; not ocb; not Pref. CUG</b>   |  |
| <b>Test purpose:</b>            | Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access is allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> 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 the Facility IE which shall contain a ForwardCUG-Info with, Suppress Pref. CUG (SPC),<br><br>the called user receives a SETUP message <b>with</b> a Facility IE. |  |
| <b>ISDN parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption; Facility IE with cUGCall invoke component: "Outgoing access with default value, CUG index"  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption;<br><br>ForwardCUG-Info: Suppress Pref. CUG (SPC);   |  |
| <b>Comments:</b>                |   |  |

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| 830506                          | <b>ISDN ref. to:</b><br>ETS 300 138-1 [10],<br>subclause 9.2.2   | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br><br>ETS 300 569 [39] |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/UDI/CUG/TC830506  |  |
| <b>ISDN selection criteria:</b> | The called user is <b>not a CUG subscriber</b>   |  |
| <b>PLMN selection criteria:</b> | The calling user belongs to a CUG with the following CUG supplementary options: <b>OA; not ocb; not Pref. CUG</b>  |  |
| <b>Test purpose:</b>            | Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access is allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> user belongs not to a CUG, after the receipt of a SETUP message with the Facility IE which shall contain a ForwardCUG-Info with CUG Index (CI), Suppress Pref. CUG (SPC),<br><br>the called user receives a SETUP message <b>without</b> a Facility IE. |  |
| <b>ISDN parameter values:</b>   |  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption;<br><br>ForwardCUG-Info: CUG Index (CI);<br><br>Suppress Pref. CUG (SPC);   |  |
| <b>Comments:</b>                |  |  |

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| 830507                          | <b>ISDN ref. to:</b><br>ETS 300 138-1 [10],<br>subclause 9.2.3   | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br><br>ETS 300 569 [39] |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/UDI/CUG/TC830507  |  |
| <b>ISDN selection criteria:</b> | The called user belongs to CUG with the following CUG supplementary options:<br><b>not IA; not ICB</b>   |  |
| <b>PLMN selection criteria:</b> | The calling user is not member of CUG  |  |
| <b>Test purpose:</b>            | Ensure that when the <b>calling</b> user has not subscribed to the CUG and the <b>called</b> 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 ForwardCUG-Info the network initiate call clearing to the calling user with cause value # "87 user not a member of CUG". |  |
| <b>ISDN parameter values:</b>   |  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption;  |  |
| <b>Comments:</b>                |  |  |

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| 830508                          | <b>ISDN ref. to:</b><br>ETS 300 138-1 [10],<br>subclause 9.2.2  | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br><br>ETS 300 569 [39] |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/UDI/CUG/TC830508   |  |
| <b>ISDN selection criteria:</b> | The called user is not member of CUG  |  |
| <b>PLMN selection criteria:</b> | The calling user belongs to a CUG with the following CUG supplementary options: <b>not OA; not ocb; not Pref. CUG</b>   |  |
| <b>Test purpose:</b>            | <p>Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access is not allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> user belongs not to a CUG, after the receipt of a SETUP message with the Facility IE which shall contain a ForwardCUG-Info with</p> <p>CUG Index (CI), Suppress Pref. CUG (SPC), Suppress OA (SOA)</p> <p>call establishment is not possible and the network initiate call clearing to the calling user with cause value # 87 "user not a member of CUG".</p> |  |
| <b>ISDN parameter values:</b>   |   |  |
| <b>PLMN parameter values:</b>   | <p>GSM-BC=UDI with V.110/X.30 rate adaption;</p> <p>ForwardCUG-Info: CUG Index (CI);</p> <p>Suppress Pref. CUG (SPC);</p> <p>Suppress OA (SOA);</p>   |  |
| <b>Comments:</b>                |   |  |

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| 830509                          | <b>ISDN ref. to:</b><br>ETS 300 138-1 [10],<br>subclause 9.2.2,<br>subclause 9.2.4   | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39] |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/UDI/CUG/TC830513  |  |
| <b>ISDN selection criteria:</b> | The called user belongs to the same CUG with the following CUG supplementary options: <b>not IA; ICB</b>   |  |
| <b>PLMN selection criteria:</b> | The calling user belongs to a CUG with the following CUG supplementary options: <b>OA; not ocb; not Pref. CUG</b>  |  |
| <b>Test purpose:</b>            | <p>Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access is allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> 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 the Facility IE which shall contain a ForwardCUG-Info with CUG Index (CI), Suppress Pref. CUG (SPC),</p> <p>call establishment is not possible and the network initiate call clearing to the calling user with cause value # 55 "incoming calls barred within CUG".</p> |  |
| <b>ISDN parameter values:</b>   |  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption;<br><br>ForwardCUG-Info: CUG Index (CI);<br><br>Suppress Pref. CUG (SPC);   |  |
| <b>Comments:</b>                |  |  |

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| 830510                          | <b>ISDN ref. to:</b><br>ETS 300 138-1 [10],<br>subclause 9.2.2,<br>subclause 9.2.4   | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39] |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/UDI/CUG/TC830510  |  |
| <b>ISDN selection criteria:</b> | Calling user and called user belong to the <b>same</b> CUG;<br>CUG supplementary options: <b>not IA; not ICB</b>   |  |
| <b>PLMN selection criteria:</b> | CUG supplementary options: <b>not OA; not OCB; not Pref. CUG</b>   |  |
| <b>Test purpose:</b>            | Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access not allowed, not outgoing calls barred within the CUG within the CUG and not preferential CUG and the <b>called</b> user belongs to the same CUG with incoming access not allowed and not incoming calls barred within the CUG within the CUG, after the receipt of a SETUP message with the Facility IE which shall contain a ForwardCUG-Info with CUG Index (CI),<br><br>the called user receives a SETUP message with a Facility IE which contains a cUGCall invoke component encoded as "Outgoing access with default value, CUG index" and sends an ALERTING or CONNECT message. |  |
| <b>ISDN parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption;; Facility IE with cUGCall invoke component: "Outgoing access with default value, CUG index"  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption;<br><br>ForwardCUG-Info: CUG Index (CI).  |  |
| <b>Comments:</b>                |  |  |

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| 830601                          | <b>ISDN ref. to:</b><br>ETS 300 073-1,subclause 9.2<br>EN 300 403-1 [1],<br>subclause 4.5.9  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 9.3.23.1.5 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/UDI/SUB/TC830601  |  |
| <b>ISDN selection criteria:</b> | SUB  |  |
| <b>PLMN selection criteria:</b> | SUB  |  |
| <b>Test purpose:</b>            | 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 |  |
| <b>ISDN parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption, Called party subaddress  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption   |  |
| <b>Comments:</b>                |  |  |

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| 830602                          | <b>ISDN ref. to:</b><br>ETS 300 061-1 [11],<br>subclause 9.2<br>EN 300 403-1 [1],<br>subclause 4.5.9   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 9.3.23.1.5 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/UDI/SUB/TC830602  |  |
| <b>ISDN selection criteria:</b> | SUB  |  |
| <b>PLMN selection criteria:</b> | SUB  |  |
| <b>Test purpose:</b>            | 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 |  |
| <b>ISDN parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption, Called party subaddress  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption, Called party subaddress  |  |
| <b>Comments:</b>                |  |  |

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| 830701                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15],<br>subclause 9.2.2,<br>subclause 9.2.5  | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 1<br><br>ETS 300 543 [31], subclause 1 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/UDI/CFU/TC830701   |  |
| <b>ISDN selection criteria:</b> | The user B is in network N2 and is provided with CFU ("calling user is notified of call diversion" = <b>Yes</b> , with diverted-to number, "diverting number is released to the diverted-to user" = <b>Yes</b> , "served user receives notification that the call has been forwarded" = <b>Yes</b> ).   |  |
| <b>PLMN selection criteria:</b> | Call to a forwarding subscriber (CFU)   |  |
| <b>Test purpose:</b>            | <p>Ensure that when user A calls user B, the call is forwarded to user C.</p> <p>User <b>A</b> is notified with a FACILITY (Invoke =NotifySS [CFU, SS-Notification]) message, user <b>C</b> is notified with a FACILITY IE (Invoke =NotifySS [CFU,SS-Notification]) of call diversion.</p> <p>User <b>B</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.</p> |  |
| <b>ISDN parameter values:</b>   | CFU active  |  |
| <b>PLMN parameter values:</b>   | GSM-BC= UDI with V.110/X.30 rate adaption   |  |
| <b>Comments:</b>                |   |  |



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| 830702                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15],<br>subclause 9.2.2,<br>subclause 9.2.5   | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 1<br>ETS 300 543 [31], subclause 1 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/UDI/CFU/TC830702  |  |
| <b>ISDN selection criteria:</b> | The user B is in network N2 and is provided with CFU ("calling user is notified of call diversion" = <b>No</b> , with diverted-to number, "diverting number is released to the diverted-to User" = <b>No</b> , "served user receives notification that the call has been forwarded" = <b>No</b> ). |  |
| <b>PLMN selection criteria:</b> | Call to a forwarding subscriber (CFU)  |  |
| <b>Test purpose:</b>            | Ensure that when user A calls user B, the call is forwarded to user C. User A and B are not notified and C is notified of call diversion with a FACILITY IE (Invoke = NotifySS [CFU,SS-Notification]) contained in a SETUP message.  |  |
| <b>ISDN parameter values:</b>   | CFU active   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption   |  |
| <b>Comments:</b>                |  |  |

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| 830703                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15],<br>subclause 9.2.2,<br>subclause 9.2.5   | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 1<br><br>ETS 300 543 [31], subclause 1 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/UDI/CFU/TC830703  |  |
| <b>ISDN selection criteria:</b> | The user B is in network N2 and is provided with CFU ("calling user is notified of call diversion" = <b>Yes</b> , with diverted-to number, "diverting number is released to the diverted-to user" = <b>Yes</b> , "served user receives notification that the call has been forwarded" = <b>Yes</b> ).  |  |
| <b>PLMN selection criteria:</b> | Call to a forwarding subscriber (CFU)  |  |
| <b>Test purpose:</b>            | To verify that a call is released correctly if CFU was not successful.<br><br>User A calls user B, the call is forwarded to user C who is user determined user busy.<br><br>User <b>A</b> is notified with a FACILITY (Invoke =NotifySS [CFU, SS-Notification]) message, user <b>C</b> is notified of call diversion with a FACILITY IE (Invoke =NotifySS [CFU,SS-Notification]) included in the incoming SETUP message from the network.<br><br>User <b>B</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. |  |
| <b>ISDN parameter values:</b>   | CFU active   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption   |  |
| <b>Comments:</b>                |  |  |

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| 830704                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15],<br>subclause 10.5  | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 1<br><br>ETS 300 543 [31], subclause 1 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/UDI/CFU/TC830704  |  |
| <b>ISDN selection criteria:</b> | The user B is in network N2. <b>Partial rerouting</b> provided in PTNX in case of CFU("calling user is Notified of call diversion" = <b>Yes</b> )  |  |
| <b>PLMN selection criteria:</b> | Call to a forwarding subscriber (CFU)  |  |
| <b>Test purpose:</b>            | 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).<br><br>User A is notified with a FACILITY (Invoke =NotifySS [CFU, SS-Notification]) message of call diversion. |  |
| <b>ISDN parameter values:</b>   | CFU – partial rerouting  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption   |  |
| <b>Comments:</b>                |  |  |

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| 830705                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15],<br>subclause 10.5   | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 1<br><br>ETS 300 543 [31], subclause 1 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/UDI/CFU/TC830705   |  |
| <b>ISDN selection criteria:</b> | The user B is in network N2. <b>Partial rerouting</b> provided in PTNX in case of CFU ("calling user is Notified of call diversion" = <b>No</b> )   |  |
| <b>PLMN selection criteria:</b> | Call to a forwarding subscriber (CFU)   |  |
| <b>Test purpose:</b>            | 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).<br><br>User A is <b>not</b> notified with a FACILITY (Invoke =NotifySS [CFU, SS-Notification]) message of call diversion. |  |
| <b>ISDN parameter values:</b>   | CFU – partial rerouting   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption  |  |
| <b>Comments:</b>                |   |  |

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| 830801                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15],<br>subclause 9.2.2,<br>subclause 9.2.4.3,<br>subclause 9.2.5   | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 2<br>ETS 300 543 [31], subclause 2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/UDI/CFB/TC830801  |  |
| <b>ISDN selection criteria:</b> | The user B is in network N2 and is provided with CFB-UDUB ("calling user is notified of call diversion" = <b>Yes</b> , with diverted-to number, "diverting number is released to the diverted-to user" = <b>Yes</b> , "served user receives notification that the call has been forwarded" = <b>Yes</b> ).   |  |
| <b>PLMN selection criteria:</b> | Call to a forwarding subscriber (CFB)  |  |
| <b>Test purpose:</b>            | Ensure that when user A calls busy user B, the call is forwarded to user C. User <b>A</b> is notified with a FACILITY (Invoke =NotifySS [CFB, SS-Notification]) message, user <b>C</b> is notified with a FACILITY IE (Invoke =NotifySS [CFB,SS-Notification]) of call diversion.<br>User <b>B</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. |  |
| <b>ISDN parameter values:</b>   | CFB-UDUB active  |  |
| <b>PLMN parameter values:</b>   | <b>A:</b> ! GSM-BC=UDI with V.110/X.30 rate adaption;<br><b>C:</b> ? GSM-BC=UDI with V.110/X.30 rate adaption;   |  |
| <b>Comments:</b>                |  |  |

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| 830802                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15],<br>subclause 9.2.2,<br>subclause 9.2.4.3,<br>subclause 9.2.5  | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 2<br>ETS 300 543 [31], subclause 2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/UDI/CFB/TC830802   |  |
| <b>ISDN selection criteria:</b> | The user B is in network N2 and is provided with CFB-UDUB ("calling user is notified of call diversion" = <b>No</b> , with diverted-to number, "diverting number is released to the diverted-to User" = <b>No</b> , "served user receives notification that the call has been forwarded" = <b>No</b> ). |  |
| <b>PLMN selection criteria:</b> | Call to a forwarding subscriber (CFB)   |  |
| <b>Test purpose:</b>            | Ensure that when user A calls busy user B, the call is forwarded to user C. User A and B are not notified and C is notified with of call diversion a FACILITY IE (Invoke =NotifySS [CFB,SS-Notification]) contained in a SETUP message.   |  |
| <b>ISDN parameter values:</b>   | CFB active  |  |
| <b>PLMN parameter values:</b>   | <b>A:</b> ! GSM-BC=UDI with V.110/X.30 rate adaption;<br><b>C:</b> ?GSM-BC=UDI with V.110/X.30 rate adaption;   |  |
| <b>Comments:</b>                |   |  |

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| 830803                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15],<br>subclause 9.2.2,<br>subclause 9.2.4.3,<br>subclause 9.2.5   | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 2<br>ETS 300 543 [31], subclause 2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/UDI/CFB/TC830803  |  |
| <b>ISDN selection criteria:</b> | The user B is in network N2 and is provided with CFB- <b>NDUB</b> ("calling user is notified of call diversion" = <b>Yes</b> , with diverted-to number, "diverting number is released to the diverted-to user" = <b>Yes</b> , "served user receives notification that the call has been forwarded" = <b>Yes</b> ).   |  |
| <b>PLMN selection criteria:</b> | Call to a forwarding subscriber (CFB)  |  |
| <b>Test purpose:</b>            | Ensure that when user A calls busy user B, the call is forwarded to user C. User <b>A</b> is notified with a FACILITY (Invoke =NotifySS [CFB, SS-Notification]) message, user <b>C</b> is notified with a FACILITY IE (Invoke =NotifySS [CFB,SS-Notification]) of call diversion.<br>User <b>B</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. |  |
| <b>ISDN parameter values:</b>   | CFB active;  |  |
| <b>PLMN parameter values:</b>   | <b>A:</b> ! GSM-BC=UDI with V.110/X.30 rate adaption;<br><b>C:</b> ? GSM-BC=UDI with V.110/X.30 rate adaption;   |  |
| <b>Comments:</b>                |  |  |

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| 830804                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15],<br>subclause 9.2.2,<br>subclause 9.2.4.3,<br>subclause 9.2.5  | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 2<br>ETS 300 543 [31], subclause 2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/UDI/CFB/TC830804   |  |
| <b>ISDN selection criteria:</b> | The user B is in network N2 and is provided with CFB- <b>NDUB</b> ("calling user is notified of call diversion" = <b>No</b> , with diverted-to number, "diverting number is released to the diverted-to User" = <b>No</b> , "served user receives notification that the call has been forwarded" = <b>No</b> ). |  |
| <b>PLMN selection criteria:</b> | Call to a forwarding subscriber (CFB)   |  |
| <b>Test purpose:</b>            | Ensure that when user A calls busy user B, the call is forwarded to user C. User A and B are not notified and C is notified of call diversion with a FACILITY IE (Invoke =NotifySS (CFB, SS-Notification) contained in a SETUP message.   |  |
| <b>ISDN parameter values:</b>   | CFB active  |  |
| <b>PLMN parameter values:</b>   | <b>A:</b> ! GSM-BC=UDI with V.110/X.30 rate adaption;<br><b>C:</b> ? GSM-BC=UDI with V.110/X.30 rate adaption;  |  |
| <b>Comments:</b>                |   |  |

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| 830805                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15],<br>subclause 9.2.2,<br>subclause 9.2.4.3,<br>subclause 9.2.5   | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 2<br>ETS 300 543 [31], subclause 2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/UDI/CFB/TC830805  |  |
| <b>ISDN selection criteria:</b> | The user B is in network N2 and is provided with CFB ("calling user is notified of call diversion" = <b>Yes</b> , with diverted-to number, "diverting number is released to the diverted-to User" = <b>Yes</b> , "served user receives notification that the call has been forwarded" = <b>Yes</b> ).  |  |
| <b>PLMN selection criteria:</b> | Call to a forwarding subscriber (CFB)  |  |
| <b>Test purpose:</b>            | <b>To verify that a call is released correctly if CFB was not successful.</b><br><br>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.   |  |
| <b>ISDN parameter values:</b>   | CFB active, User B is in the UDUB condition  |  |
| <b>PLMN parameter values:</b>   | <b>A:</b> ! GSM-BC=UDI with V.110/X.30 rate adaption   |  |
| <b>Comments:</b>                | User <b>A</b> is notified with a FACILITY (Invoke =NotifySS [CFB, SS-Notification]) message, user <b>C</b> is notified of call diversion with a FACILITY IE (Invoke =NotifySS [CFB,SS-Notification]) included in the incoming SETUP message from the network.<br><br>User <b>B</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. |  |

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| 830806                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15],<br>subclause 10.5   | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 2<br>ETS 300 543 [31], subclause 2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/UDI/CFB/TC830806   |  |
| <b>ISDN selection criteria:</b> | The user B is in network N2. <b>Partial rerouting</b> provided in PTNX in case of <b>CFB-NDUB</b> ("calling user is Notified of call diversion" = <b>Yes</b> , with diverted-to number).  |  |
| <b>PLMN selection criteria:</b> | Call to a forwarding subscriber (CFB)   |  |
| <b>Test purpose:</b>            | 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).<br><br>User <b>A</b> is notified with a FACILITY (Invoke =NotifySS [CFB, SS-Notification]) message of call diversion. |  |
| <b>ISDN parameter values:</b>   | CFB – partial rerouting   |  |
| <b>PLMN parameter values:</b>   | <b>A:</b> ! GSM-BC=UDI with V.110/X.30 rate adaption;<br><b>C:</b> ? GSM-BC=UDI with V.110/X.30 rate adaption;  |  |
| <b>Comments:</b>                |   |  |

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| 830807                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15],<br>subclause 10.5   | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 2<br><br>ETS 300 543 [31], subclause 2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/UDI/CFB/TC830807   |  |
| <b>ISDN selection criteria:</b> | The user B is in network N2. <b>Partial rerouting</b> provided in PTNX in case of <b>CFB-NDUB</b> ("calling user is Notified of call diversion" = <b>No</b> ).  |  |
| <b>PLMN selection criteria:</b> | Call to a forwarding subscriber (CFB)   |  |
| <b>Test purpose:</b>            | 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).<br><br>User A is <b>not</b> notified with a FACILITY (Invoke =NotifySS [CFB, SS-Notification]) message. |  |
| <b>ISDN parameter values:</b>   | CFB – partial rerouting   |  |
| <b>PLMN parameter values:</b>   | <b>A:</b> ! GSM-BC=UDI with V.110/X.30 rate adaption;<br><b>C:</b> ? GSM-BC=UDI with V.110/X.30 rate adaption;  |  |
| <b>Comments:</b>                |   |  |

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| 830808                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15],<br>subclause 10.5  | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 2<br><br>ETS 300 543 [31], subclause 2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/UDI/CFB/TC830808  |  |
| <b>ISDN selection criteria:</b> | The user B is in network N2. <b>Partial rerouting</b> provided in PTNX in case of <b>CFB-UDUB</b> ("calling user is Notified of call diversion" = <b>Yes</b> , with diverted-to number).   |  |
| <b>PLMN selection criteria:</b> | Call to a forwarding subscriber (CFB)  |  |
| <b>Test purpose:</b>            | 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).<br><br>User A is notified with a FACILITY (Invoke =NotifySS [CFB, SS-Notification]) message of call diversion. |  |
| <b>ISDN parameter values:</b>   | CFB – partial rerouting  |  |
| <b>PLMN parameter values:</b>   | <b>A:</b> ! GSM-BC=UDI with V.110/X.30 rate adaption;<br><b>C:</b> ? GSM-BC=UDI with V.110/X.30 rate adaption;   |  |
| <b>Comments:</b>                |  |  |

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| 830809                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15]<br>subclause 10.5   | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 2<br><br>ETS 300 543 [31], subclause 2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/UDI/CFB/TC830809  |  |
| <b>ISDN selection criteria:</b> | The user B is in network N2. <b>Partial rerouting</b> provided in PTNX in case of <b>CFB-UDUB</b> ("calling user is Notified of call diversion" = <b>No</b> ).   |  |
| <b>PLMN selection criteria:</b> | Call to a forwarding subscriber (CFB)  |  |
| <b>Test purpose:</b>            | 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).<br><br>User A is not notified with a FACILITY (Invoke =NotifySS [CFB, SS-Notification]) message of call diversion. |  |
| <b>ISDN parameter values:</b>   | CFB – partial rerouting  |  |
| <b>PLMN parameter values:</b>   | <b>A:</b> ! GSM-BC=UDI with V.110/X.30 rate adaption;<br><b>C:</b> ? GSM-BC=UDI with V.110/X.30 rate adaption;   |  |
| <b>Comments:</b>                |  |  |

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| 830901                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15], subclause 9.2.2,<br>subclause 9.2.4.4,<br>subclause 9.2.5   | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 3<br><br>ETS 300 543 [31], subclause 3 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/UDI/CFNR/TC830901  |  |
| <b>ISDN selection criteria:</b> | The user B is in network N2 and is provided with CFNR (option A, late release) ("calling user is Notified of call diversion" = <b>Yes</b> , with diverted-to number, "diverting number is released to the diverted-to user" = <b>Yes</b> ).   |  |
| <b>PLMN selection criteria:</b> | Call to a forwarding subscriber (CFNR)  |  |
| <b>Test purpose:</b>            | Ensure that when user A calls user B, if unanswered, the call is forwarded to user C.   |  |
| <b>ISDN parameter values:</b>   | CFNR active   |  |
| <b>PLMN parameter values:</b>   | <b>A:</b> ! GSM-BC=UDI with V.110/X.30 rate adaption;<br><b>C:</b> ? GSM-BC=UDI with V.110/X.30 rate adaption;  |  |
| <b>Comments:</b>                | User A is Notified with a FACILITY (Invoke =NotifySS [CFNR, SS-Notification]) message, user C is Notified of call diversion with a FACILITY IE (Invoke =NotifySS [CFNR,SS-Notification]) included in the incoming SETUP message from the network.<br><br>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. |  |

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| 830902                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15], subclause 9.2.2,<br>subclause 9.2.4.4,<br>subclause 9.2.5   | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 3<br>ETS 300 543 [31], subclause 3 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/UDI/CFNR/TC830902  |  |
| <b>ISDN selection criteria:</b> | The user B is in network N2 and is provided with CFNR (option A, late release) ("calling user is Notified of call diversion" = <b>No</b> , with diverted-to number, "diverting number is released to the diverted-to User" = <b>No</b> ). |  |
| <b>PLMN selection criteria:</b> | Call to a forwarding subscriber (CFNR)  |  |
| <b>Test purpose:</b>            | Ensure that when user A calls busy user B, if unanswered, the call is forwarded to user C.  |  |
| <b>ISDN parameter values:</b>   | CFNR active   |  |
| <b>PLMN parameter values:</b>   | <b>A:</b> ! GSM-BC=UDI with V.110/X.30 rate adaption;<br><b>C:</b> ? GSM-BC=UDI with V.110/X.30 rate adaption;  |  |
| <b>Comments:</b>                | User A and user B are not Notified and user C is Notified of call diversion with a FACILITY IE (Invoke =NotifySS [CFNR,SS-Notification]) included in the incoming SETUP message from the network.   |  |

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| 830903                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15], subclause 9.2.2,<br>subclause 9.2.4.4,<br>subclause 9.2.5   | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 3<br>ETS 300 543 [31], subclause 3 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/UDI/CFNR/TC830903  |  |
| <b>ISDN selection criteria:</b> | The user B is in network N2 and is provided with CFNR (option B, immediate release) ("calling user is Notified of call diversion" = <b>Yes</b> , with diverted-to number, "diverting number is released to the diverted-to user" = <b>Yes</b> ).  |  |
| <b>PLMN selection criteria:</b> | Call to a forwarding subscriber (CFNR)  |  |
| <b>Test purpose:</b>            | Ensure that when user A calls user B, if unanswered, the call is forwarded to user C.   |  |
| <b>ISDN parameter values:</b>   | CFNR active   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption  |  |
| <b>Comments:</b>                | <p>User <b>A</b> is Notified with a FACILITY (Invoke =NotifySS [CFNR, SS-Notification]) message, user <b>C</b> is Notified of call diversion with a FACILITY IE (Invoke =NotifySS [CFNR,SS-Notification]) included in the incoming SETUP message from the network.</p> <p>User <b>B</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.</p> |  |



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| 830904                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15], subclause 9.2.2,<br>subclause 9.2.4.4,<br>subclause 9.2.5  | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 3<br>ETS 300 543 [31], subclause 3 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/UDI/CFNR/TC830904   |  |
| <b>ISDN selection criteria:</b> | The user B is in network N2 and is provided with CFNR (option B, immediate release) ("calling user is Notified of call diversion" = <b>No</b> , with diverted-to number, "diverting number is released to the diverted-to User" = <b>No</b> ). |  |
| <b>PLMN selection criteria:</b> | Call to a forwarding subscriber (CFNR)   |  |
| <b>Test purpose:</b>            | Ensure that when user A calls user B, if unanswered, the call is forwarded to user C.  |  |
| <b>ISDN parameter values:</b>   | CFNR active  |  |
| <b>PLMN parameter values:</b>   | <b>A:</b> ! GSM-BC=UDI with V.110/X.30 rate adaption;<br><b>C:</b> ? GSM-BC=UDI with V.110/X.30 rate adaption;   |  |
| <b>Comments:</b>                | User A and user B are not Notified and user C is Notified of call diversion with a FACILITY IE (Invoke =NotifySS [CFNR,SS-Notification]) included in the incoming SETUP message from the network.  |  |

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| 830905                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15], subclause 9.2.2,<br>subclause 9.2.4.4,<br>subclause 9.2.5  | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 3<br>ETS 300 543 [31], subclause 3 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/UDI/CFNR/TC830905   |  |
| <b>ISDN selection criteria:</b> | The user B is in network N2 and is provided with CFNR (option B, immediate release) ("calling user is Notified of call diversion" = <b>Yes</b> , with diverted-to number, "diverting number is released to the diverted-to User" = <b>Yes</b> ).   |  |
| <b>PLMN selection criteria:</b> | Call to a forwarding subscriber (CFNR)   |  |
| <b>Test purpose:</b>            | Ensure that when user A calls user B, the call is released correctly if CFNR was not successful.<br><br>Ensure that when user A calls user B, if unanswered, the call is forwarded to user C who is user determined user busy.   |  |
| <b>ISDN parameter values:</b>   | CFNR active  |  |
| <b>PLMN parameter values:</b>   | <b>A:</b> ! GSM-BC=UDI with V.110/X.30 rate adaption;<br><b>C:</b> ? GSM-BC=UDI with V.110/X.30 rate adaption;   |  |
| <b>Comments:</b>                | User <b>A</b> is Notified with a FACILITY (Invoke =NotifySS [CFNR, SS-Notification]) message, user <b>C</b> is Notified of call diversion with a FACILITY IE (Invoke =NotifySS [CFNR,SS-Notification]) included in the incoming SETUP message from the network.<br><br>User <b>B</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. |  |

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| 830906                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15], subclause 9.2.2,<br>subclause 10.5  | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 3<br>ETS 300 543 [31], subclause 3 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/UDI/CFNR/TC830906  |  |
| <b>ISDN selection criteria:</b> | The user B is in network N2. <b>Partial rerouting</b> provided in PTNX in case of CFNR (option A, late release) ("calling user is Notified of call diversion" = <b>Yes</b> , with diverted-to number).  |  |
| <b>PLMN selection criteria:</b> | Call to a forwarding subscriber (CFNR)  |  |
| <b>Test purpose:</b>            | 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).<br><br>User A is notified with a FACILITY (Invoke =NotifySS [CFNR, SS-Notification]) message of call diversion. |  |
| <b>ISDN parameter values:</b>   | CFNR – partial rerouting  |  |
| <b>PLMN parameter values:</b>   | <b>A:</b> ! GSM-BC=UDI with V.110/X.30 rate adaption;<br><b>C:</b> ? GSM-BC=UDI with V.110/X.30 rate adaption;  |  |
| <b>Comments:</b>                |   |  |

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| 830907                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15], subclause 9.2.2,<br>subclause 10.5  | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 3<br>ETS 300 543 [31], subclause 3 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/UDI/CFNR/TC830907  |  |
| <b>ISDN selection criteria:</b> | The user B is in network N2. <b>Partial rerouting</b> provided in PTNX in case of CFNR (option A, late release) ("calling user is Notified of call diversion" = <b>No</b> ).  |  |
| <b>PLMN selection criteria:</b> | Call to a forwarding subscriber (CFNR)  |  |
| <b>Test purpose:</b>            | 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).<br><br>User A is <b>not</b> notified with a FACILITY (Invoke =NotifySS [CFNR SS-Notification]) message of call diversion. |  |
| <b>ISDN parameter values:</b>   | CFNR – partial rerouting  |  |
| <b>PLMN parameter values:</b>   | <b>A:</b> ! GSM-BC=UDI with V.110/X.30 rate adaption;<br><b>C:</b> ? GSM-BC=UDI with V.110/X.30 rate adaption;  |  |
| <b>Comments:</b>                |   |  |

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| 830908                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15], subclause 9.2.2,<br>subclause 9.2.4.4,<br>subclause 9.2.5   | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 3<br>ETS 300 543 [31], subclause 3 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/UDI/CFNR/TC830908  |  |
| <b>ISDN selection criteria:</b> | 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" = <b>Yes</b> , with diverted-to number).   |  |
| <b>PLMN selection criteria:</b> | Call to a forwarding subscriber (CFNR)  |  |
| <b>Test purpose:</b>            | 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).<br><br>User A is notified with a FACILITY (Invoke =NotifySS [CFNR, SS-Notification]) message. |  |
| <b>ISDN parameter values:</b>   | CFNR – partial rerouting  |  |
| <b>PLMN parameter values:</b>   | <b>A:</b> ! GSM-BC=UDI with V.110/X.30 rate adaption;<br><b>C:</b> ? GSM-BC=UDI with V.110/X.30 rate adaption;  |  |
| <b>Comments:</b>                |   |  |

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| 830909                          | <b>ISDN ref. to:</b><br>ETS 300 207-1 [15], subclause 9.2.2,<br>subclause 9.2.4.4,<br>subclause 9.2.5   | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 3<br>ETS 300 543 [31], subclause 3 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/UDI/CFNR/TC830909  |  |
| <b>ISDN selection criteria:</b> | The user B is in network N2. <b>Partial rerouting</b> provided in PTNX in case of CFNR (option B, immediate release). ("calling user is Notified of call diversion" = <b>No</b> ).  |  |
| <b>PLMN selection criteria:</b> | Call to a forwarding subscriber (CFNR)  |  |
| <b>Test purpose:</b>            | 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).<br><br>User A is <b>not</b> notified with a FACILITY (Invoke =NotifySS [CFNR SS-Notification]) message. |  |
| <b>ISDN parameter values:</b>   | CFNR – partial rerouting  |  |
| <b>PLMN parameter values:</b>   | <b>A:</b> ! GSM-BC=UDI with V.110/X.30 rate adaption;<br><b>C:</b> ? GSM-BC=UDI with V.110/X.30 rate adaption;  |  |
| <b>Comments:</b>                |   |  |

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| 831001                          | <b>ISDN ref. to:</b><br>ETS 300 286-1 [13],<br>subclause 9.1.1.1,<br>subclause 9.1.2.1<br>EN 300 403-1 [1],<br>subclause 4.5.30  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 10.5.4.25, |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/UDI/UUS1/TC831001   |  |
| <b>ISDN selection criteria:</b> | UUS1i  |  |
| <b>PLMN selection criteria</b>  | The calling (served) user is provided with UUS1 implicit request   |  |
| <b>Test purpose:</b>            | 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 |  |
| <b>ISDN parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption, UI length=32   |  |
| <b>PLMN parameter values</b>    | GSM-BC=UDI with V.110/X.30 rate adaption, UI length=32   |  |
| <b>Comments:</b>                |  |  |

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| 831002                          | <b>ISDN ref. to:</b><br>ETS 300 286-1 [13],<br>subclause 9.1.2.1<br>EN 300 403-1 [1],<br>subclause 4.5.30  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 10.5.4.25, |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/UDI/UUS1/TC831002   |  |
| <b>ISDN selection criteria:</b> | UUS1i  |  |
| <b>PLMN selection criteria</b>  | The calling (served) user is provided with UUS1 implicit request   |  |
| <b>Test purpose:</b>            | 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 |  |
| <b>ISDN Parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption, UI length=32   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption, UI length=32   |  |
| <b>Comments:</b>                |  |  |

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| 831003                          | <b>ISDN ref. to:</b><br>ETS 300 286-1 [13],<br>subclause 9.1.2.2.1a<br>EN 300 403-1 [1], subclause 4.<br>5.30  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 10.5.4.25, |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/UDI/UUS1/TC831003   |  |
| <b>ISDN selection criteria:</b> | UUS1i  |  |
| <b>PLMN selection criteria:</b> | The calling (served) user is provided with UUS1 implicit request   |  |
| <b>Test purpose:</b>            | 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. |  |
| <b>ISDN parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption, UI length=32   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption, UI length=32   |  |
| <b>Comments:</b>                |  |  |

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|---------------------------------|--|--|
| 831004                          | <b>ISDN ref. to:</b><br>ETS 300 286-1 [13],<br>subclause 9.1.2.2.1b<br>EN 300 403-1 [1],<br>subclause 4.5.30   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 10.5.4.25, |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/UDI/UUS1/TC831004   |  |
| <b>ISDN selection criteria:</b> | UUS1i  |  |
| <b>PLMN selection criteria:</b> | The calling (served) user is provided with UUS1 implicit request   |  |
| <b>Test purpose:</b>            | 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 |  |
| <b>ISDN parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption, UI length=32   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption, UI length=32   |  |
| <b>Comments:</b>                |  |  |

|                                 |   |  |
|---------------------------------|---|--|
| 831005                          | <b>ISDN ref. to:</b><br>ETS 300 286-1 [13], subclause 9.1.1.2.2<br>EN 300 403-1 [1], subclause 7  | <b>PLMN ref. to:</b><br>ETS 300 557 [35] |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/UDI/UUS1/TC831005  |  |
| <b>ISDN selection criteria:</b> | UUS1i   |  |
| <b>PLMN selection criteria:</b> | UUS1i   |  |
| <b>Test purpose:</b>            | The requested UUS is not supported in Network B.<br><br>Verify that UUI can be discarded by the network without disrupting Normal call handling |  |
| <b>ISDN Parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption, UI length=32  |  |
| <b>Comments:</b>                | .   |  |

|                                 |   |  |
|---------------------------------|---|--|
| 840101                          | <b>ISDN ref. to:</b>  | <b>PLMN ref. to:</b><br>ETS 300 548 [34] |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/UDI/Call barring service/TC840101  |  |
| <b>ISDN selection criteria:</b> |   |  |
| <b>PLMN selection criteria:</b> | Call barring service  |  |
| <b>Test purpose:</b>            | The calling user activates Barring of Outgoing international Calls except those to the home PLMN country (BOIC-exHC). The user is roaming outside the home PLMN country. Barring of Outgoing international Calls except those to the home PLMN country is supported by the PLMN in which the served mobile subscriber currently roams.<br><br>Ensure that when the calling user activates Barring of Outgoing International Calls except those to the home PLMN country (BOIC-exHC) and the user is roaming outside the home PLMN country, call establishment to the home PLMN country is successful. |  |
| <b>ISDN Parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption  |  |
| <b>Comments:</b>                |   |  |

|                                 |  |   |
|---------------------------------|--|---|
| 840201                          | <b>ISDN ref. to:</b><br>ETS 300 207  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/UDI/CD/TC840201   |   |
| <b>ISDN selection criteria:</b> | CD; Network provider option "served user call retention on invocation of diversion" is "clear call on invocation".   |   |
| <b>PLMN selection criteria:</b> |  |   |
| <b>Test purpose:</b>            | <p>The ISDN user B is in network N2 and is provided with CD. The PLMN user A and PLMN user C are in network N1.</p> <p>Ensure that when user A calls user B, the local exchange of user B goes to the Call Received call state N07. Then user B sends a FACILITY message containing a Facility information element coded as CallDeflection invoke component. The network performs the call deflection to user C. Afterwards the network shall release user B with a DISCONNECT message with cause #31 and a facility IE with a CallDeflection return result component.</p> |   |
| <b>ISDN Parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption   |   |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption   |   |
| <b>Comments:</b>                |  |   |

|                                 |   |   |
|---------------------------------|---|---|
| 840202                          | <b>ISDN ref. to:</b><br>ETS 300 207   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/UDI/CD/TC840202  |   |
| <b>ISDN selection criteria:</b> | CD; Network provider option "served user call retention on invocation of diversion" is "clear call on invocation".  |   |
| <b>PLMN selection criteria:</b> |   |   |
| <b>Test purpose:</b>            | <p>The ISDN user B is in network N2 and is provided with CD</p> <p>The PLMN user A and PLMN user C are in network N1.</p> <p>Ensure that when user A calls user B, the local exchange of user B goes to the Incoming Call Proceeding call state N09. Then user B sends a FACILITY message containing a Facility information element coded as CallDeflection invoke component. The network performs the call deflection to user C. Afterwards the network shall release user B with a DISCONNECT message with cause #31 and a facility IE with a CallDeflection return result component.</p> |   |
| <b>ISDN Parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption  |   |
| <b>Comments:</b>                |   |   |

|                                 |   |   |
|---------------------------------|---|---|
| 840203                          | <b>ISDN ref. to:</b><br>ETS 300 207   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/UDI/CD/TC840203  |   |
| <b>ISDN selection criteria:</b> | CD; Network provider option "served user call retention on invocation of diversion" is "clear call on invocation".  |   |
| <b>PLMN selection criteria:</b> |   |   |
| <b>Test purpose:</b>            | <p>The ISDN user B is in network N2 and is provided with CD.</p> <p>The PLMN user A and PLMN user C are in network N1.</p> <p>Ensure that when user A calls user B, the local exchange of user B goes to the Overlap Receiving call state N25. Then user B sends a FACILITY message containing a Facility information element coded as CallDeflection invoke component. The network performs the call deflection to user C. Afterwards the network shall release user B with a DISCONNECT message with cause #31 and a facility IE with a CallDeflection return result component.</p> |   |
| <b>ISDN Parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption  |   |
| <b>Comments:</b>                |   |   |

|                                 |  |   |
|---------------------------------|--|---|
| 840204                          | <b>ISDN ref. to:</b><br>ETS 300 207  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/UDI/CD/TC840204   |   |
| <b>ISDN selection criteria:</b> | CD; Network provider option "served user call retention on invocation of diversion" is "retain call until alerting begins at diverted-to user".  |   |
| <b>PLMN selection criteria:</b> |  |   |
| <b>Test purpose:</b>            | <p>The ISDN user B is in network N2 and is provided with CD. The PLMN user A and PLMN user C are in network N1.</p> <p>Ensure that when user A calls user B, the local exchange of user B goes to the Call Received call state N07. Then user B sends a FACILITY message containing a Facility information element coded as CallDeflection invoke component. The network performs the call deflection to user C. On the indication that the diverted-to network is in the Call Received Call state N07 the user B receives a DISCONNECT or RELEASE message with cause #31.</p> |   |
| <b>ISDN Parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption   |   |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption   |   |
| <b>Comments:</b>                |  |   |



|                                 |   |   |
|---------------------------------|---|---|
| 840205                          | <b>ISDN ref. to:</b><br>ETS 300 207   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/UDI/CD/TC840205  |   |
| <b>ISDN selection criteria:</b> | CD; Network provider option "served user call retention on invocation of diversion" is "retain call until alerting begins at diverted-to user"  |   |
| <b>PLMN selection criteria:</b> |   |   |
| <b>Test purpose:</b>            | <p>The ISDN user B is in network N2 and is provided with CD</p> <p>The PLMN user A and PLMN user C are in network N1.</p> <p>Ensure that when user A calls user B, the local exchange of user B goes to the Incoming Call Proceeding call state N09. Then user B sends a FACILITY message containing a Facility information element coded as CallDeflection invoke component. The network performs the call deflection to user C. On the indication that the diverted-to network is in the Call Received Call state N07 the user B receives a DISCONNECT or RELEASE message with cause #31.</p> |   |
| <b>ISDN Parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption  |   |
| <b>Comments:</b>                |   |   |

|                                 |   |   |
|---------------------------------|---|---|
| 840206                          | <b>ISDN ref. to:</b><br>ETS 300 207   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/UDI/CD/TC840206  |   |
| <b>ISDN selection criteria:</b> | CD; Network provider option "served user call retention on invocation of diversion" is "retain call until alerting begins at diverted-to user").  |   |
| <b>PLMN selection criteria:</b> |   |   |
| <b>Test purpose:</b>            | <p>The ISDN user B is in network N2 and is provided with CD The PLMN user A and PLMN user C are in network N1.</p> <p>Ensure that when user A calls user B, the local exchange of user B goes to the Overlap Receiving call state N25. Then user B sends a FACILITY message containing a Facility information element coded as CallDeflection invoke component. The network performs the call deflection to user C. On the indication that the diverted-to network is in the Call Received Call state N07 the user B receives a DISCONNECT or RELEASE message with cause #31.</p> |   |
| <b>ISDN Parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption  |   |
| <b>Comments:</b>                |   |   |

|                                 |   |   |
|---------------------------------|---|---|
| 840207                          | <b>ISDN ref. to:</b><br>ETS 300 207   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/UDI/CD/TC840207  |   |
| <b>ISDN selection criteria:</b> | CD; Network provider option "served user call retention on invocation of diversion" is "retain call until alerting begins at diverted-to user".   |   |
| <b>PLMN selection criteria:</b> |   |   |
| <b>Test purpose:</b>            | <p>The ISDN user B is in network N2 and is provided with CD</p> <p>The PLMN user A and PLMN user C are in network N1.</p> <p>Ensure that when user A calls user B, the local exchange of user B goes to the Call Received call state N07. Then user B sends a FACILITY message containing a Facility information element coded as CallDeflection invoke component. The network performs the call deflection to user C. On the indication that the diverted-to network is in the Connect Request call state N08, the user B receives a DISCONNECT or RELEASE message with cause #31.</p> |   |
| <b>ISDN Parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption  |   |
| <b>Comments:</b>                |   |   |

|                                 |   |   |
|---------------------------------|---|---|
| 840208                          | <b>ISDN ref. to:</b><br>ETS 300 207   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/UDI/CD/TC840208  |   |
| <b>ISDN selection criteria:</b> | CD; Network provider option "served user call retention on invocation of diversion" is "retain call until alerting begins at diverted-to user"  |   |
| <b>PLMN selection criteria:</b> |   |   |
| <b>Test purpose:</b>            | <p>The ISDN user B is in network N2 and is provided with CD.</p> <p>The PLMN user A and PLMN user C are in network N1.</p> <p>Ensure that when user A calls user B, the local exchange of user B goes to the Incoming Call Proceeding call state N09. Then user B sends a FACILITY message containing a Facility information element coded as CallDeflection invoke component. The network performs the call deflection to user C. On the indication that the diverted-to network is in the Connect Request call state N08, the user B receives a DISCONNECT or RELEASE message with cause #31.</p> |   |
| <b>ISDN Parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption  |   |
| <b>Comments:</b>                |   |   |

|                                 |   |   |
|---------------------------------|---|---|
| 840209                          | <b>ISDN ref. to:</b><br>ETS 300 207   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/UDI/CD/TC840209  |   |
| <b>ISDN selection criteria:</b> | CD, Network provider option "served user call retention on invocation of diversion" is "retain call until alerting begins at diverted-to user"  |   |
| <b>PLMN selection criteria:</b> |   |   |
| <b>Test purpose:</b>            | <p>The ISDN user B is in network N2 and is provided with CD.</p> <p>The PLMN user A and PLMN user C are in network N1.</p> <p>Ensure that when user A calls user B, the local exchange of user B goes to the Overlap Receiving call state N25 receives a FACILITY message containing a Facility information element coded as CallDeflection invoke component.</p> <p>The network performs the call deflection to user C. On the indication that the diverted-to network is in the Connect Request call state N08, the user B receives a DISCONNECT or RELEASE message with cause #31.</p> |   |
| <b>ISDN Parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption  |   |
| <b>Comments:</b>                |   |   |

|                                 |  |   |
|---------------------------------|--|---|
| 840210                          | <b>ISDN ref. to:</b><br>ETS 300 207  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/UDI/CD/TC840210   |   |
| <b>ISDN selection criteria:</b> | CD; Network provider option "served user call retention on invocation of diversion" is "retain call until alerting begins at diverted-to user"   |   |
| <b>PLMN selection criteria:</b> |  |   |
| <b>Test purpose:</b>            | <p>The ISDN user B is in network N2 and is provided with CD. The PLMN user A and user C are in network N1.</p> <p>Ensure that when user A calls user B, the local exchange of user B goes to the Call Received call state N07. Then user B sends a FACILITY message containing a Facility information element coded as CallDeflection invoke component. The network performs the call deflection to user C. On the indication that the diverted-to network is in the Active state, the user B receives a DISCONNECT or RELEASE message with cause #31.</p> |   |
| <b>ISDN Parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption   |   |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption   |   |
| <b>Comments:</b>                |  |   |

|                                 |   |   |
|---------------------------------|---|---|
| 840211                          | <b>ISDN ref. to:</b><br>ETS 300 207   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/UDI/CD/TC840211  |   |
| <b>ISDN selection criteria:</b> | CD; Network provider option "served user call retention on invocation of diversion" is "retain call until alerting begins at diverted-to user"  |   |
| <b>PLMN selection criteria:</b> |   |   |
| <b>Test purpose:</b>            | <p>The ISDN user B is in network N2 and is provided with CD. The PLMN user A and user C are in network N1.</p> <p>Ensure that when user A calls user B, the local exchange of user B goes to the Incoming Call Proceeding call state N09. Then user B sends a FACILITY message containing a Facility information element coded as CallDeflection invoke component. The network performs the call deflection to user C. On the indication that the diverted-to network is in the Active state, the user B receives a DISCONNECT or RELEASE message with cause #31.</p> |   |
| <b>ISDN Parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption  |   |
| <b>Comments:</b>                |   |   |

|                                 |   |   |
|---------------------------------|---|---|
| 840212                          | <b>ISDN ref. to:</b><br>ETS 300 207   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2 |
| <b>TSS reference:</b>           | PLMN-ISDN/Supplementary_services/UDI/CD/TC840212  |   |
| <b>ISDN selection criteria:</b> | CD; Network provider option "served user call retention on invocation of diversion" is "retain call until alerting begins at diverted-to user"  |   |
| <b>PLMN selection criteria:</b> |   |   |
| <b>Test purpose:</b>            | <p>The ISDN user B is in network N2 and is provided with CD. The PLMN user A and PLMN user C are in network N1.</p> <p>Ensure that when user A calls user B, the local exchange of user B goes to the Overlap Receiving call state N25. Then user B sends a FACILITY message containing a Facility information element coded as CallDeflection invoke component. The network performs the call deflection to user C. On the indication that the diverted-to network is in the Active state, the user B receives a DISCONNECT or RELEASE message with cause #31.</p> |   |
| <b>ISDN Parameter values:</b>   | BC=UDI with V.110/X.30 rate adaption  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption  |   |
| <b>Comments:</b>                |   |   |

## 6.2.9 Test purposes for PLMN-ISDN, B-channel end-to-end performance

|                                 |   |  |
|---------------------------------|---|--|
| 910101                          | <b>ISDN ref. to:</b><br>EN 300 403-1 [1]  | <b>PLMN ref. to:</b><br>ETS 300 557 [35]<br>ITU-T Rec. G 101 |
| <b>TSS reference:</b>           | PLMN-ISDN/ B-channel end-to-end performance /Speech/TC910101                            |  |
| <b>ISDN selection criteria:</b> | Data transmission   |  |
| <b>PLMN selection criteria:</b> | B-channel transmission  |  |
| <b>Test purpose:</b>            | To ensure that speech transfer on the B-channel is performed correctly.                 |  |
| <b>ISDN parameter values:</b>   |   |  |
| <b>PLMN parameter values:</b>   | GSM-BC= speech  |  |
| <b>Comments:</b>                | The tests should be based on the E-Model described in the ITU-T Rec. G. 101 Appendix I. |  |

|                                 |   |  |
|---------------------------------|---|--|
| 910201                          | <b>ISDN ref. to:</b><br>ETS 300 195-1 [21],<br>subclause 5.29,<br>subclause 5.27        | <b>PLMN ref. to:</b><br>ETS 300 557 [35]<br>ITU-T Rec. G 101 |
| <b>TSS reference:</b>           | PLMN-ISDN/ B-channel end-to-end performance /3,1 kHz audio ex PLMN /TC910201            |  |
| <b>ISDN selection criteria:</b> |   |  |
| <b>PLMN selection criteria:</b> |   |  |
| <b>Test purpose:</b>            | To ensure that 3,1 kHz signal transfer on the B-channel is performed correctly.         |  |
| <b>ISDN parameter values:</b>   |   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=3,1 kHz audio ex PLMN  |  |
| <b>Comments:</b>                | The tests should be based on the E-Model described in the ITU-T Rec. G. 101 Appendix I. |  |

|                                 |  |  |
|---------------------------------|--|--|
| 910301                          | <b>ISDN ref. to:</b><br>ETS 300 195-1 [21],<br>subclause 5.29,<br>subclause 5.27   | <b>PLMN ref. to:</b><br>ETS 300 578 [55] |
| <b>TSS reference:</b>           | PLMN-ISDN/ B-channel end-to-end performance/UDI/TC910301   |  |
| <b>ISDN selection criteria:</b> | B-channel transmission   |  |
| <b>PLMN selection criteria:</b> | Data transmission  |  |
| <b>Test purpose:</b>            | To verify compliance with the requirements for error and octet slip for the first or the last continuous 24 hour period. |  |
| <b>ISDN parameter values:</b>   |  |  |
| <b>PLMN parameter values:</b>   | GSM-BC = UDI, V.110 [47] /X.30 [49] synchronous mode; PRBS=2 <sup>11</sup> -1  |  |
| <b>Comments:</b>                | The test should be based in the requirements described in the ETS 300 578 [55]   |  |

## 6.2.10 Test purposes for PLMN-PSTN, Basic call

### 6.2.10.1 Successful

|            |
|------------|
| Successful |
| Speech     |

|                                 |  |  |
|---------------------------------|--|--|
| 1010101                         | <b>PSTN ref. to:</b><br>ETS 300 001  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.1.4.1,<br>subclause 5.5.1, subclause 7.3.2 |
| <b>TSS reference:</b>           | PLMN-PSTN/Basic_call/Successful/Speech/1010101   |  |
| <b>PSTN selection criteria:</b> |  |  |
| <b>PLMN selection criteria:</b> | TS 11  |  |
| <b>Test purpose:</b>            | Ensure that the call 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", #2 "destination address is non-ISDN" or #8 „In-band information or appropriate pattern now available". |  |
| <b>PSTN parameter values:</b>   |  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |  |
| <b>Comments:</b>                | The progress indicator information elements are created by the originating exchange according to the coding of the address complete message (ACM) in the ISUP. The table 1 shows the sending criteria of each value.   |  |

|                                 |  |  |
|---------------------------------|--|--|
| 1010102                         | <b>PSTN ref. to:</b><br>ETS 300 001  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.1, subclause 7.3.2 |
| <b>TSS reference:</b>           | PLMN-PSTN/Basic_call/Successful/Speech/TC1010102   |  |
| <b>PSTN selection criteria:</b> |  |  |
| <b>PLMN selection criteria:</b> | TS 11  |  |
| <b>Test purpose:</b>            | Ensure that the clearing procedure is performed correctly when the calling user clears after answer. The SETUP message contains the GSM-BC=speech and can contain a HLC=telephony. |  |
| <b>PSTN parameter values:</b>   |  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |  |
| <b>Comments:</b>                |  |  |

|                                 |   |  |
|---------------------------------|---|--|
| 1010103                         | <b>PSTN ref. to:</b><br>ETS 300 001   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.1, subclause 7.3.2 |
| <b>TSS reference:</b>           | PLMN-PSTN/Basic_call/Successful/Speech/TC1010103  |  |
| <b>PSTN selection criteria:</b> |   |  |
| <b>PLMN selection criteria:</b> | TS 11   |  |
| <b>Test purpose:</b>            | Ensure that the clearing procedure is performed correctly when the called user clears after answer. The SETUP message contains the GSM-BC=speech and can contain a HLC=telephony. |  |
| <b>PSTN parameter values:</b>   |   |  |
| <b>PLMN parameter values:</b>   | BC=speech   |  |
| <b>Comments:</b>                |   |  |

|                                 |  |  |
|---------------------------------|--|--|
| 1010104                         | <b>PSTN ref. to:</b><br>ETS 300 001  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.1, subclause 7.3.2 |
| <b>TSS reference:</b>           | PLMN-PSTN/Basic_call/Successful/Speech/TC1010104   |  |
| <b>PSTN selection criteria:</b> |  |  |
| <b>PLMN selection criteria:</b> | TS 11  |  |
| <b>Test purpose:</b>            | Ensure that the reanswer procedure is performed correctly when the called user clears and reanswers. The SETUP message contains the GSM-BC=speech and can contain a HLC=telephony. |  |
| <b>PSTN parameter values:</b>   |  |  |
| <b>PLMN parameter values:</b>   | BC=speech  |  |
| <b>Comments:</b>                |  |  |

|                                 |  |   |
|---------------------------------|--|---|
| 1010105                         | <b>PSTN ref. to:</b><br>ETS 300 001  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.1, subclause 5.5.1, subclause 7.3.2 |
| <b>TSS reference:</b>           | PLMN-PSTN/Basic_call/Successful/Speech/TC1010105   |   |
| <b>PSTN selection criteria:</b> |  |   |
| <b>PLMN selection criteria:</b> | TS 11  |   |
| <b>Test purpose:</b>            | 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", #2 "destination address is non-ISDN" or #8 „In-band information or appropriate pattern now available". |   |
| <b>PSTN parameter values:</b>   |  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech, HLC=telephony   |   |
| <b>Comments:</b>                | The progress indicator information elements are created by the originating exchange according to the coding of the address complete message (ACM) in the ISUP. The table 1 shows the sending criteria of each value.   |   |

|            |
|------------|
| Successful |
|------------|

|                       |
|-----------------------|
| 3,1 kHz audio ex PLMN |
|-----------------------|



|                                 |  |  |
|---------------------------------|--|--|
| 1010201                         | <b>PSTN ref. to:</b><br>ETS 300 001  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.1.4.1,<br>subclause 5.5.1, subclause 7.3.2 |
| <b>TSS reference:</b>           | PLMN-PSTN/Basic_call/Successful/3,1 kHz audio ex PLMN/1010201  |  |
| <b>PSTN selection criteria:</b> |  |  |
| <b>PLMN selection criteria:</b> | Audio  |  |
| <b>Test purpose:</b>            | Ensure that the call 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", #2 "destination address is non-ISDN" or #8 „In-band information or appropriate pattern now available". |  |
| <b>PSTN parameter values:</b>   |  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, no LLC  |  |
| <b>Comments:</b>                | The progress indicator information elements are created by the originating exchange according to the coding of the address complete message (ACM) in the ISUP. The table 1 shows the sending criteria of each value.   |  |

|                                 |  |  |
|---------------------------------|--|--|
| 1010202                         | <b>PSTN ref. to:</b><br>ETS 300 001  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.1, subclause 7.3.2 |
| <b>TSS reference:</b>           | PLMN-PSTN/Basic_call/Successful/3,1 kHz audio ex PLMN /TC1010202                                     |  |
| <b>PSTN selection criteria:</b> |  |  |
| <b>PLMN selection criteria:</b> | Audio  |  |
| <b>Test purpose:</b>            | Ensure that the clearing procedure is performed correctly when the calling user clears after answer. |  |
| <b>PSTN parameter values:</b>   |  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, no LLC                                      |  |
| <b>Comments:</b>                |  |  |

|                                 |   |  |
|---------------------------------|---|--|
| 1010203                         | <b>PSTN ref. to:</b><br>ETS 300 001   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.1, subclause 7.3.2 |
| <b>TSS reference:</b>           | PLMN-PSTN/Basic_call/Successful/3,1 kHz audio ex PLMN /TC1010203                                    |  |
| <b>PSTN selection criteria:</b> |   |  |
| <b>PLMN selection criteria:</b> | Audio   |  |
| <b>Test purpose:</b>            | Ensure that the clearing procedure is performed correctly when the called user clears after answer. |  |
| <b>PSTN parameter values:</b>   |   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, no LLC                                     |  |
| <b>Comments:</b>                |   |  |

|                                 |  |   |
|---------------------------------|--|---|
| 1010204                         | <b>PSTN ref. to:</b><br>ETS 300 001  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.1, subclause 5.5.1, subclause 7.3.2 |
| <b>TSS reference:</b>           | PLMN-PSTN/Basic_call/Successful/3,1 kHz audio ex PLMN /TC1010204   |   |
| <b>PSTN selection criteria:</b> |  |   |
| <b>PLMN selection criteria:</b> | Audio  |   |
| <b>Test purpose:</b>            | 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", #2 "destination address is non-ISDN" or #8 „In-band information or appropriate pattern now available". |   |
| <b>PSTN parameter values:</b>   |  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem,<br>LLC=3,1 kHz audio, voice band data via modem   |   |
| <b>Comments:</b>                | The progress indicator information elements are created by the originating exchange according to the coding of the address complete message (ACM) in the ISUP. The table 1 shows the sending criteria of each value.   |   |

|            |
|------------|
| Successful |
|------------|

|                   |
|-------------------|
| Facsimile group 3 |
|-------------------|

|                                 |  |  |
|---------------------------------|--|--|
| 1010301                         | <b>PSTN ref. to:</b><br>ETS 300 001  | <b>PLMN ref. To:</b><br>ETS 300 557 [35], subclause 5.2.1, subclause 5.5.1,<br>subclause 7.3.2 |
| <b>TSS reference:</b>           | PLMN-PSTN/Basic_call/Successful/Facsimile G3/TC1010301   |  |
| <b>PSTN selection criteria:</b> |  |  |
| <b>PLMN selection criteria:</b> | TS 62  |  |
| <b>Test purpose:</b>            | Ensure that the call 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", #2 "destination address is non-ISDN" or #8 „In-band information or appropriate pattern now available". |  |
| <b>PSTN parameter values:</b>   |  |  |
| <b>PLMN parameter values:</b>   | GSM-BC = facsimile G3, HLC = Facsimile G2/G3   |  |
| <b>Comments:</b>                | The progress indicator information elements are created by the originating exchange according to the coding of the address complete message (ACM) in the ISUP. The table 1 shows the sending criteria of each value.   |  |

|                                 |  |  |
|---------------------------------|--|--|
| 1010302                         | <b>PSTN ref. to:</b><br>ETS 300 001  | <b>PLMN ref. To:</b><br>ETS 300 557 [35], subclause 5.2.1, subclause 7.3.2 |
| <b>TSS reference:</b>           | PLMN-PSTN/Basic_call/Successful/Facsimile G3/TC1010302   |  |
| <b>PSTN selection criteria:</b> |  |  |
| <b>PLMN selection criteria:</b> | TS 62  |  |
| <b>Test purpose:</b>            | Ensure that the clearing procedure is performed correctly when the calling user clears after answer. |  |
| <b>PSTN parameter values:</b>   |  |  |
| <b>PLMN parameter values:</b>   | GSM-BC = facsimile G3, HLC = Facsimile G2/G3   |  |
| <b>Comments:</b>                |  |  |

|                                 |  |  |
|---------------------------------|--|--|
| 1010303                         | <b>PSTN ref. to:</b><br>ETS 300 001  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.1, subclause 7.3.2 |
| <b>TSS reference:</b>           | PLMN-PSTN/Basic_call/Successful/Facsimile G3/TC1010303   |  |
| <b>PSTN selection criteria:</b> |  |  |
| <b>PLMN selection criteria:</b> | TS 62  |  |
| <b>Test purpose:</b>            | Ensure that the clearing procedure is performed correctly when the called user clears after answer |  |
| <b>PSTN parameter values:</b>   |  |  |
| <b>PLMN parameter values:</b>   | BC = facsimile G3, HLC = Facsimile G2/G3   |  |
| <b>Comments:</b>                |  |  |

|  |
|--|
| Successful                             |
| Alternate speech and facsimile group 3 |

|                                 |  |   |
|---------------------------------|--|---|
| 1010401                         | <b>PSTN ref. to:</b><br>ETS 300 001  | <b>PLMN ref. To:</b><br>ETS 300 557 [35], subclause 5.2.1 |
| <b>TSS reference:</b>           | PLMN-PSTN/Basic_call/Successful/Alternate speech and facsimile G3/<br>TC1010401  |   |
| <b>PSTN selection criteria:</b> |  |   |
| <b>PLMN selection criteria:</b> | TS 61  |   |
| <b>Test purpose:</b>            | Ensure that call establishment and the call clearing procedure is performed correctly when the calling user clears after answer. |   |
| <b>PSTN parameter values:</b>   |  |   |
| <b>PLMN parameter values:</b>   | first GSM-BC=speech<br>second GSM-BC= facsimile G3, no HLC   |   |
| <b>Comments:</b>                |  |   |

|                                 |   |   |
|---------------------------------|---|---|
| 1010402                         | <b>PSTN ref. to:</b><br>ETS 300 001   | <b>PLMN ref. To:</b><br>ETS 300 557 [35], subclause 5.2<br>ETS 300 604 [42], subclause 10.2.2<br>ETS 300 582 [40], Annex B.1.10 |
| <b>TSS reference:</b>           | PLMN-PSTN/Basic_call/Successful/Alternate speech and facsimile G3/<br>TC1010402   |   |
| <b>PSTN selection criteria:</b> |   |   |
| <b>PLMN selection criteria:</b> | TS 61   |   |
| <b>Test purpose:</b>            | Ensure that call establishment and the call clearing procedure is performed correctly when the called user clears after answer. |   |
| <b>PSTN parameter values:</b>   |   |   |
| <b>PLMN parameter values:</b>   | first GSM-BC=speech<br>second GSM-BC= facsimile G3,   |   |
| <b>Comments:</b>                |   |   |

|                                 |   |   |
|---------------------------------|---|---|
| 1010403                         | <b>PSTN ref. to:</b><br>ETS 300 001   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2, subclause 5.5.1,<br>ETS 300 604 [42], subclause 10.2.2<br>ETS 300 582 [40], Annex B.1.10 |
| <b>TSS reference:</b>           | PLMN-PSTN/Basic_call/Successful/Alternate speech and facsimile G3/<br>TC1010403   |   |
| <b>PSTN selection criteria:</b> |   |   |
| <b>PLMN selection criteria:</b> | TS 61   |   |
| <b>Test purpose:</b>            | Ensure that the call 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 no end-to-end ISDN", #2 "destination address in non-ISDN" or #8 „In-band information or appropriate pattern now available". |   |
| <b>PSTN parameter values:</b>   |   |   |
| <b>PLMN parameter values:</b>   | first GSM-BC=speech<br>second GSM-BC= facsimile G3,   |   |
| <b>Comments:</b>                | The progress indicator information elements are created by the originating exchange according to the coding of the address complete message (ACM) in the ISUP. The table 1 shows the sending criteria of each value.  |   |

|                                 |   |  |
|---------------------------------|---|--|
| 1010404                         | <b>PSTN ref. to:</b><br>ETS 300 001   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2, subclause 5.5.1<br>ETS 300 604 [42], subclause 10.2.2<br>ETS 300 582 [40], Annex B.1.10 |
| <b>TSS reference:</b>           | PLMN-PSTN/Basic_call/Successful/Alternate speech and facsimile G3/<br>TC1010404   |  |
| <b>PSTN selection criteria:</b> |   |  |
| <b>PLMN selection criteria:</b> | TS 61   |  |
| <b>Test purpose:</b>            | Ensure that the call 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 no end-to-end ISDN", #2 "destination address in non-ISDN" or #8 „In-band information or appropriate pattern now available". |  |
| <b>PSTN parameter values:</b>   |   |  |
| <b>PLMN parameter values:</b>   | first GSM-BC= speech<br>second GSM-BC= facsimile G3, HLC= Facsimile G2/G3   |  |
| <b>Comments:</b>                | The progress indicator information elements are created by the originating exchange according to the coding of the address complete message (ACM) in the ISUP. The table 1 shows the sending criteria of each value.  |  |

|  |  |
|--|--|
| ← Message sent to the MS   | ← ACM  |
| Progress indicator information element   | Content  |
| No.1<br>(Call is not end-to-end ISDN: further progress information may be available) | Backward call indicators parameter<br><br>ISDN user part indicator<br>0 ISDN user Part<br><br>not used all the way   |
| No. 2<br>(Destination address is non -ISDN)  | Backward call indicators parameter<br><br>ISDN user part indicator<br>1 ISDN user Part<br><br>used all the way<br><br>ISDN access indicator<br>0 terminating access non-ISDN |
| No.8   | Optional backward call indicator parameter   |

|  |  |
|--|--|
| (In-band information or appropriate pattern now available) | In-band information indicator<br><br>1 In-band info. |
|--|--|

Table 1

|                 |
|-----------------|
| Successful      |
| Emergency Calls |

|                                 |  |   |
|---------------------------------|--|---|
| 1010501                         | <b>PSTN ref. to:</b><br>ETS 300 001  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.1.4.1,<br>subclause 7.3.2 |
| <b>TSS reference:</b>           | PLMN-PSTN/Basic_call/Successful/Emergency Call/1010501   |   |
| <b>PSTN selection criteria:</b> | Emergency service;   |   |
| <b>PLMN selection criteria:</b> | TS 12  |   |
| <b>Test purpose:</b>            | Emergency call from MS with a valid SIM Card. Ensure that the call 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", #2 "destination address is non-ISDN" or #8 „In-band information or appropriate pattern now available". The SETUP message contains the GSM-BC=speech and can contain a HLC=telephony. |   |
| <b>PSTN parameter values:</b>   |  |   |
| <b>PLMN parameter values:</b>   | EMERGENCY SETUP; GSM-BC=speech   |   |
| <b>Comments:</b>                | The progress indicator information elements are created by the originating exchange according to the coding of the address complete message (ACM) in the ISUP. The table 1 shows the sending criteria of each value.   |   |

|                                 |  |  |
|---------------------------------|--|--|
| 1010502                         | <b>PSTN ref. to:</b><br>ETS 300 001  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.1, subclause 7.3.2 |
| <b>TSS reference:</b>           | PLMN-PSTN/Basic_call/Successful/Emergency Call/TC1010502   |  |
| <b>PSTN selection criteria:</b> | Emergency service;   |  |
| <b>PLMN selection criteria:</b> | TS 12  |  |
| <b>Test purpose:</b>            | Emergency call from MS with a valid SIM Card. Ensure that the clearing procedure is performed correctly when the calling user clears after answer. The SETUP message contains the GSM-BC=speech and can contain a HLC=telephony. |  |
| <b>PSTN parameter values:</b>   |  |  |
| <b>PLMN parameter values:</b>   | EMERGENCY SETUP; GSM-BC=speech, no HLC   |  |
| <b>Comments:</b>                |  |  |

|                                 |   |  |
|---------------------------------|---|--|
| 1010503                         | <b>PSTN ref. to:</b><br>ETS 300 001   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.1, subclause 7.3.2 |
| <b>TSS reference:</b>           | PLMN-PSTN/Basic_call/Successful/Emergency Call/TC1010503  |  |
| <b>PSTN selection criteria:</b> | Emergency service;  |  |
| <b>PLMN selection criteria:</b> | TS 12   |  |
| <b>Test purpose:</b>            | Emergency call from MS with a valid SIM Card. Ensure that the clearing procedure is performed correctly when the called user clears after answer. The SETUP message contains the GSM-BC=speech and can contain a HLC=telephony. |  |
| <b>PSTN parameter values:</b>   |   |  |
| <b>PLMN parameter values:</b>   | EMERGENCY SETUP; GSM-BC=speech  |  |
| <b>Comments:</b>                |   |  |



|                                 |  |  |
|---------------------------------|--|--|
| 1010504                         | <b>PSTN ref. to:</b><br>ETS 300 001  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.1, subclause 7.3.2 |
| <b>TSS reference:</b>           | PLMN-PSTN/Basic_call/Successful/Emergency Call/TC1010504   |  |
| <b>PSTN selection criteria:</b> | Emergency service;   |  |
| <b>PLMN selection criteria:</b> | TS 12  |  |
| <b>Test purpose:</b>            | Emergency call from MS with a valid SIM Card. Ensure that the reanswer procedure is performed correctly when the called user clears and reanswers. The SETUP message contains the GSM-BC=speech and can contain a HLC=telephony. |  |
| <b>PSTN parameter values:</b>   |  |  |
| <b>PLMN parameter values:</b>   | EMERGENCY SETUP; GSM-BC=speech   |  |
| <b>Comments:</b>                |  |  |

|                                 |  |  |
|---------------------------------|--|--|
| 1010505                         | <b>PSTN ref. to:</b><br>ETS 300 001  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.1, subclause 7.3.2 |
| <b>TSS reference:</b>           | PLMN-PSTN/Basic_call/Successful/Emergency Call/TC1010505   |  |
| <b>PSTN selection criteria:</b> | Emergency service;   |  |
| <b>PLMN selection criteria:</b> | TS 12  |  |
| <b>Test purpose:</b>            | Emergency call from MS without a SIM Card. Ensure that the clearing procedure is performed correctly when the calling user clears after answer.<br><br>The SETUP message contains the GSM-BC=speech and can contain a HLC=telephony. |  |
| <b>PSTN parameter values:</b>   |  |  |
| <b>PLMN parameter values:</b>   | EMERGENCY SETUP; GSM-BC=speech   |  |
| <b>Comments:</b>                | It is an option of the network operator whether to accept emergency calls coming from MSs which do not transmit an IMSI or a TMSI.   |  |

|                                 |  |  |
|---------------------------------|--|--|
| 1010506                         | <b>PSTN ref. to:</b><br>ETS 300 001  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.1, subclause 7.3.2 |
| <b>TSS reference:</b>           | PLMN-PSTN/Basic_call/Successful/Emergency Call/TC1010506   |  |
| <b>PSTN selection criteria:</b> | Emergency service;   |  |
| <b>PLMN selection criteria:</b> | TS 12  |  |
| <b>Test purpose:</b>            | Emergency call from MS without a SIM Card. Ensure that the clearing procedure is performed correctly when the called user clears after answer. The SETUP message contains the GSM-BC=speech and can contain a HLC=telephony. |  |
| <b>PSTN parameter values:</b>   |  |  |
| <b>PLMN parameter values:</b>   | EMERGENCY SETUP; GSM-BC=speech   |  |
| <b>Comments:</b>                | It is an option of the network operator whether to accept emergency calls coming from MSs which do not transmit an IMSI or a TMSI.   |  |

|                                 |   |  |
|---------------------------------|---|--|
| 1010507                         | <b>PSTN ref. to:</b><br>ETS 300 001   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.1, subclause 7.3.2 |
| <b>TSS reference:</b>           | PLMN-PSTN/Basic_call/Successful/Emergency Call/TC1010507  |  |
| <b>PSTN selection criteria:</b> | Emergency service;  |  |
| <b>PLMN selection criteria:</b> | TS 12   |  |
| <b>Test purpose:</b>            | Emergency call from MS when the IMSI contained in the SIM Card is not recognized by the VLR. Ensure that the clearing procedure is performed correctly when the calling user clears after answer. The SETUP message contains the GSM-BC=speech and can contain a HLC=telephony. |  |
| <b>PSTN parameter values:</b>   |   |  |
| <b>PLMN parameter values:</b>   | EMERGENCY SETUP; GSM-BC=speech  |  |
| <b>Comments:</b>                | It is an option of the network operator whether to accept emergency calls coming from MSs when the IMSI contained in the SIM Card is not recognized by the VLR.   |  |

|                                 |  |  |
|---------------------------------|--|--|
| 1010508                         | <b>PSTN ref. to:</b><br>ETS 300 001  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.1, subclause 7.3.2 |
| <b>TSS reference:</b>           | PLMN-PSTN/Basic_call/Successful/Emergency Call/TC1010508   |  |
| <b>PSTN selection criteria:</b> | Emergency service;   |  |
| <b>PLMN selection criteria:</b> | TS 12  |  |
| <b>Test purpose:</b>            | Emergency call from MS when the IMSI contained in the SIM Card is not recognized by the VLR. Ensure that the clearing procedure is performed correctly when the called user clears after answer. The SETUP message contains the GSM-BC=speech and a can contain a HLC=telephony. |  |
| <b>PSTN parameter values:</b>   |  |  |
| <b>PLMN parameter values:</b>   | EMERGENCY SETUP; GSM-BC=speech   |  |
| <b>Comments:</b>                | It is an option of the network operator whether to accept emergency calls coming from MSs when the IMSI contained in the SIM Card is not recognized by the VLR.  |  |

## 6.2.10.2 Unsuccessful

|                     |  |
|---------------------|--|
| <b>UNSUCCESSFUL</b> |  |
| <b>Speech</b>       |  |

|                                 |  |  |
|---------------------------------|--|--|
| 1020101                         | <b>PSTN ref. to:</b><br>ETS 300 001  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.1, subclause 5.4 subclause 7.3.2 |
| <b>TSS reference:</b>           | PLMN-PSTN/Basic_call/Unsuccessful/Speech/TC1020101   |  |
| <b>PSTN selection criteria:</b> |  |  |
| <b>PLMN selection criteria:</b> | TS 11  |  |
| <b>Test purpose:</b>            | Ensure that when the called PSTN user is busy the network transport the cause value #17 "user busy" to the calling user. |  |
| <b>PSTN parameter values:</b>   |  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |  |
| <b>Comments:</b>                | The SETUP message contains the GSM-BC=speech and can contain a HLC=telephony.  |  |

|                                 |  |   |
|---------------------------------|--|---|
| 1020102                         | <b>PSTN ref. to:</b><br>ETS 300 001  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.1, subclause 5.4<br>subclause 7.3.2 |
| <b>TSS reference:</b>           | PLMN-PSTN/Basic_call/Unsuccessful/Speech/TC1020102   |   |
| <b>PSTN selection criteria:</b> |  |   |
| <b>PLMN selection criteria:</b> | TS 11  |   |
| <b>Test purpose:</b>            | Ensure that when calling to a unallocated PSTN number, the network initiate call clearing to the calling user with cause value #1 "unassigned (unallocated) number". |   |
| <b>PSTN parameter values:</b>   |  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |   |
| <b>Comments:</b>                | The SETUP message contains the GSM-BC=speech and can contain a HLC=telephony.<br><br>NOTE: some PSTNs provide announcements instead of sending cause value #1.       |   |

|                                 |  |   |
|---------------------------------|--|---|
| 1020103                         | <b>PSTN ref. to:</b><br>ETS 300 001  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.1, subclause 5.4<br>subclause 7.3.2 |
| <b>TSS reference:</b>           | PLMN-PSTN/Basic_call/Unsuccessful/Speech/TC1020103   |   |
| <b>PSTN selection criteria:</b> |  |   |
| <b>PLMN selection criteria:</b> | TS 11  |   |
| <b>Test purpose:</b>            | 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. |   |
| <b>PSTN parameter values:</b>   |  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |   |
| <b>Comments:</b>                | The SETUP message contains the GSM-BC=speech and can contain a HLC=telephony.  |   |

|                                 |  |   |
|---------------------------------|--|---|
| 1020104                         | <b>PSTN ref. to:</b><br>ETS 300 001  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.1, subclause 5.4<br>subclause 7.3.2 |
| <b>TSS reference:</b>           | PLMN-PSTN/Basic_call/Unsuccessful/Speech/TC1020104   |   |
| <b>PSTN selection criteria:</b> |  |   |
| <b>PLMN selection criteria:</b> | TS 11  |   |
| <b>Test purpose:</b>            | Ensure that when the called PSTN user is ringing but not answering, the network initiate call clearing to the calling user with cause value cause value # 19 "no answer from user (user alerted)". |   |
| <b>PSTN parameter values:</b>   |  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |   |
| <b>Comments:</b>                | The SETUP message contains the GSM-BC=speech and can contain a HLC=telephony.  |   |

## UNSUCCESSFUL

### 3,1 kHz ex PLMN

|                                 |  |  |
|---------------------------------|--|--|
| 1020201                         | <b>PSTN ref. to:</b><br>ETS 300 001  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.1, subclause 5.4,<br>subclause 7.3.2 |
| <b>TSS reference:</b>           | PLMN-PSTN/Basic_call/Unsuccessful/3,1 kHz ex PLMN/TC1020201  |  |
| <b>PSTN selection criteria:</b> |  |  |
| <b>PLMN selection criteria:</b> | Audio  |  |
| <b>Test purpose:</b>            | Ensure that when calling to a unallocated PSTN number, the network initiate call clearing to the calling user with cause value #1 "unassigned (unallocated) number". |  |
| <b>PSTN parameter values:</b>   |  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=3,1 kHz ex PLMN, voice band data via modem  |  |
| <b>Comments:</b>                | NOTE: some PSTNs provide announcements instead of sending cause value #1.  |  |

|                                 |  |  |
|---------------------------------|--|--|
| 1020202                         | <b>PSTN ref. to:</b><br>ETS 300 001  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.1, subclause 5.4 subclause 7.3.2 |
| <b>TSS reference:</b>           | PLMN-PSTN/Basic_call/Unsuccessful/3,1 kHz ex PLMN/TC1020202  |  |
| <b>PSTN selection criteria:</b> |  |  |
| <b>PLMN selection criteria:</b> | Audio  |  |
| <b>Test purpose:</b>            | Ensure that when the called PSTN user is busy the network transport the cause value #17 "user busy" to the calling user. |  |
| <b>PSTN parameter values:</b>   |  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=3,1 kHz ex PLMN, voice band data via modem  |  |
| <b>Comments:</b>                |  |  |

|                                 |  |  |
|---------------------------------|--|--|
| 1020203                         | <b>PSTN ref. to:</b><br>ETS 300 001  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.1, subclause 5.4 subclause 7.3.2 |
| <b>TSS reference:</b>           | PLMN-PSTN/Basic_call/Unsuccessful/3,1 kHz ex PLMN/TC1020203  |  |
| <b>PSTN selection criteria:</b> |  |  |
| <b>PLMN selection criteria:</b> | Audio  |  |
| <b>Test purpose:</b>            | 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. |  |
| <b>PSTN parameter values:</b>   |  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=3,1 kHz ex PLMN, voice band data via modem  |  |
| <b>Comments:</b>                |  |  |

|                                 |  |  |
|---------------------------------|--|--|
| 1020204                         | <b>PSTN ref. to:</b><br>ETS 300 001  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.1, subclause 5.4 subclause 7.3.2 |
| <b>TSS reference:</b>           | PLMN-PSTN/Basic_call/Unsuccessful/3,1 kHz ex PLMN/TC1020204  |  |
| <b>PSTN selection criteria:</b> |  |  |
| <b>PLMN selection criteria:</b> | Audio  |  |
| <b>Test purpose:</b>            | Ensure that when the called PSTN user is ringing but not answering, the network initiate call clearing to the calling user with cause value cause value # 19 "no answer from user (user alerted)". |  |
| <b>PSTN parameter values:</b>   |  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=3,1 kHz ex PLMN, voice band data via modem  |  |
| <b>Comments:</b>                |  |  |

Unsuccessful

Facsimile group 3

|                                 |  |   |
|---------------------------------|--|---|
| 1020301                         | <b>PSTN ref. to:</b><br>ETS 300 001  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.1.1 |
| <b>TSS reference:</b>           | PLMN-PSTN/Basic_call/Unsuccessful/Facsimile G3/TC1020301   |   |
| <b>PSTN selection criteria:</b> |  |   |
| <b>PLMN selection criteria:</b> | TS 62  |   |
| <b>Test purpose:</b>            | Ensure that, when calling to unallocated number, the network initiate call clearing to the calling user with cause value #1 "unassigned (unallocated) number". |   |
| <b>PSTN parameter values:</b>   |  |   |
| <b>PLMN parameter values:</b>   | GSM-BC= facsimile G3   |   |
| <b>Comments:</b>                | NOTE: some PSTNs provide announcements instead of sending cause value #1.  |   |

|                                 |  |   |
|---------------------------------|--|---|
| 1020302                         | <b>PSTN ref. to:</b><br>ETS 300 001  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.1.6 |
| <b>TSS reference:</b>           | PLMN-PSTN/Basic_call/Unsuccessful/Facsimile G3/TC1020302   |   |
| <b>PSTN selection criteria:</b> |  |   |
| <b>PLMN selection criteria:</b> | TS 62  |   |
| <b>Test purpose:</b>            | Ensure that when the called PSTN user is busy the network transport the cause value #17 "user busy" to the calling user. |   |
| <b>PSTN parameter values:</b>   |  |   |
| <b>PLMN parameter values:</b>   | GSM-BC = facsimile G3  |   |
| <b>Comments:</b>                |  |   |

|                                 |   |   |
|---------------------------------|---|---|
| 1020303                         | <b>PSTN ref. to:</b><br>ETS 300 001   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.1.8 |
| <b>TSS reference:</b>           | PLMN-PSTN/Basic_call/Unsuccessful/Facsimile G3/TC1020303  |   |
| <b>PSTN selection criteria:</b> |   |   |
| <b>PLMN selection criteria:</b> | TS 62   |   |
| <b>Test purpose:</b>            | Ensure that when the called PSTN user is ringing but not answering, the network initiate call clearing to the calling user with cause value #19 "no answer from user (user alerted)". |   |
| <b>PSTN parameter values:</b>   |   |   |
| <b>PLMN parameter values:</b>   | GSM-BC = facsimile G3   |   |
| <b>Comments:</b>                |   |   |



|                                 |  |   |
|---------------------------------|--|---|
| 1020304                         | <b>PSTN ref. to:</b><br>ETS 300 001  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.1.5 |
| <b>TSS reference:</b>           | PLMN-PSTN/Basic_call/Unsuccessful/Facsimile G3/TC1020304   |   |
| <b>PSTN selection criteria:</b> |  |   |
| <b>PLMN selection criteria:</b> | TS 62  |   |
| <b>Test purpose:</b>            | 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. |   |
| <b>PSTN parameter values:</b>   |  |   |
| <b>PLMN parameter values:</b>   | GSM-BC = facsimile G3  |   |
| <b>Comments:</b>                |  |   |

Unsuccessful

Alternate speech and facsimile group 3

|                                 |  |   |
|---------------------------------|--|---|
| 1020401                         | <b>PSTN ref. to:</b><br>ETS 300 001  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.1.1 |
| <b>TSS reference:</b>           | PLMN-PSTN/Basic_call/Unsuccessful/Alternate speech and facsimile G3 /TC1020401   |   |
| <b>PSTN selection criteria:</b> |  |   |
| <b>PLMN selection criteria:</b> | TS 61  |   |
| <b>Test purpose:</b>            | Ensure that, when calling to unallocated number, the network initiate call clearing to the calling user with cause value #1 "unassigned (unallocated) number". |   |
| <b>PSTN parameter values:</b>   |  |   |
| <b>PLMN parameter values:</b>   | first GSM-BC=speech<br>second GSM-BC = Facsimile G3  |   |
| <b>Comments:</b>                | NOTE: some PSTNs provide announcements instead of sending cause value #1.  |   |

|                                 |  |   |
|---------------------------------|--|---|
| 1020402                         | <b>PSTN ref. to:</b><br>ETS 300 001  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.1.6 |
| <b>TSS reference:</b>           | PSTN-PLMN/Basic_call/Unsuccessful/Alternate speech and facsimile G3/TC1020402  |   |
| <b>PSTN selection criteria:</b> |  |   |
| <b>PLMN selection criteria:</b> | TS 61  |   |
| <b>Test purpose:</b>            | Ensure that when the called PSTN user is busy the network transport the cause value #17 "user busy" to the calling user. |   |
| <b>PSTN parameter values:</b>   |  |   |
| <b>PLMN parameter values:</b>   | first GSM-BC=speech<br>second GSM-BC = Facsimile G3  |   |
| <b>Comments:</b>                |  |   |

|                                 |   |   |
|---------------------------------|---|---|
| 1020403                         | <b>PSTN ISDN ref. to:</b><br>ETS 300 001  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.1.7<br>ETS 300 599 [41], subclause 18.2, subclause 18.3.2 |
| <b>TSS reference:</b>           | PLMN-PSTN/Basic_call/Unsuccessful/Alternate speech and facsimile G3/TC1020403   |   |
| <b>PSTN selection criteria:</b> |   |   |
| <b>PLMN selection criteria:</b> | TS 61   |   |
| <b>Test purpose:</b>            | Ensure that when the called PSTN user is ringing but not answering, the network initiate call clearing to the calling user with cause value #19 "no answer from user (user alerted)". |   |
| <b>PSTN parameter values:</b>   |   |   |
| <b>PLMN parameter values:</b>   | first GSM-BC=speech<br>second GSM-BC = Facsimile G3   |   |
| <b>Comments:</b>                |   |   |

|                                 |  |   |
|---------------------------------|--|---|
| 1020404                         | <b>PSTN ref. to:</b> ETS 300 001   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.1.5 |
| <b>TSS reference:</b>           | PLMN-PSTN/Basic_call/Unsuccessful/Alternate speech and facsimile G3/TC1020404  |   |
| <b>PSTN selection criteria:</b> |  |   |
| <b>PLMN selection criteria:</b> | TS 61  |   |
| <b>Test purpose:</b>            | 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. |   |
| <b>PSTN parameter values:</b>   |  |   |
| <b>PLMN parameter values:</b>   | first GSM-BC=speech<br>second GSM-BC = Facsimile G3  |   |
| <b>Comments:</b>                |  |   |

**UNSUCCESSFUL**

**UDI**

|                                 |   |  |
|---------------------------------|---|--|
| 1020501                         | <b>PSTN ref. to:</b><br>ETS 300 001   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.1, subclause 5.4 subclause 7.3.2 |
| <b>TSS reference:</b>           | PLMN-PSTN/Basic_call/Unsuccessful/UDI /TC1020501  |  |
| <b>PSTN selection criteria:</b> |   |  |
| <b>PLMN selection criteria:</b> | UDI   |  |
| <b>Test purpose:</b>            | 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, # 65 "bearer service not implemented" or # 88 "incompatible destination". |  |
| <b>PSTN parameter values:</b>   |   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption  |  |
| <b>Comments:</b>                |   |  |

**UNSUCCESSFUL****Emergency Calls**

|                                 |  |   |
|---------------------------------|--|---|
| 1020601                         | <b>PSTN ref. to:</b> ETS 300 001   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 5.2.1, subclause 5.4<br>subclause 7.3.2 |
| <b>TSS reference:</b>           | PLMN-PSTN/Basic_call/Unsuccessful/Emergency Call/TC1020601   |   |
| <b>PSTN selection criteria:</b> |  |   |
| <b>PLMN selection criteria:</b> | TS 12  |   |
| <b>Test purpose:</b>            | Emergency call from MS with a valid SIM Card. Ensure that when the called PSTN user is busy the network transport the cause value #17 "user busy" to the calling user. |   |
| <b>PSTN parameter values:</b>   |  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |   |
| <b>Comments:</b>                |  |   |

## 6.2.11 Test purposes for PLMN-PSTN, Supplementary Services

**Supplementary Services****Speech**

|                                 |   |  |
|---------------------------------|---|--|
| 1110101                         | <b>PSTN ref. to:</b><br>ETS 300 001<br>ETS 300 648<br>ETS 300 659   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 9.3.23.2,<br>ETS 300 542 [57] , subclause 1<br>ETS 300 565 [36], subclause 1 |
| <b>TSS reference:</b>           | PLMN-PSTN/Supplementary_services/Speech/CLIP/TC1110101  |  |
| <b>PSTN selection criteria:</b> | The called user is provided with CLIP   |  |
| <b>PLMN selection criteria:</b> |   |  |
| <b>Test purpose:</b>            | 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. |  |
| <b>PSTN parameter values:</b>   | Calling Line Identity parameter   |  |

|                               |   |
|-------------------------------|---|
| <b>PLMN parameter values:</b> | GSM-BC=speech, Calling party subaddress |
| <b>Comments:</b>              |   |

|                                 |   |  |
|---------------------------------|---|--|
| 1110102                         | <b>PSTN ref. to:</b><br>ETS 300 001<br>ETS 300 648<br>ETS 300 659   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 9.3.23.2<br>ETS 300 542 [57] , subclause 1,<br>ETS 300 565 [36], subclause 1 |
| <b>TSS reference:</b>           | PLMN-PSTN/Supplementary_services/Speech/CLIP/TC1110102  |  |
| <b>PSTN selection criteria:</b> | The called user is provided with CLIP   |  |
| <b>PLMN selection criteria:</b> |   |  |
| <b>Test purpose:</b>            | 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. |  |
| <b>PSTN parameter values:</b>   | Calling Line Identity parameter   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |  |
| <b>Comments:</b>                |   |  |

|                                 |   |   |
|---------------------------------|---|---|
| 1110201                         | <b>PSTN ref. to:</b><br>ETS 300 001<br>ETS 300 648<br>ETS 300 659-1   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 9.3.23.2<br>ETS 300 542 [57] , subclause 2<br>ETS 300 565 [36], subclause 2 |
| <b>TSS reference:</b>           | PLMN-PSTN/Supplementary_services/Speech/CLIR/TC1110201  |   |
| <b>PSTN selection criteria:</b> | The called user is provided with CLIP   |   |
| <b>PLMN selection criteria:</b> | CLIR  |   |
| <b>Test purpose:</b>            | The calling user is provided with CLIR permanent mode subscription<br><br>Ensure that when the Calling party subaddress is provided by the calling user the Calling party number is not delivered to the called user. |   |
| <b>PSTN parameter values:</b>   |   |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech, Calling party subaddress   |   |
| <b>Comments:</b>                |   |   |

|                                 |  |   |
|---------------------------------|--|---|
| 1110202                         | <b>PSTN ref. to:</b><br>ETS 300 001<br>ETS 300 648<br>ETS 300 659-1  | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 9.3.23.2<br><br>ETS 300 542 [57] , subclause 2<br><br>ETS 300 565 [36], subclause 2 |
| <b>TSS reference:</b>           | PLMN-PSTN/Supplementary_services/Speech/CLIR/TC1110202   |   |
| <b>PSTN selection criteria:</b> | The called user is provided with CLIP  |   |
| <b>PLMN selection criteria:</b> | CLIR   |   |
| <b>Test purpose:</b>            | The calling user is provided with CLIR permanent mode subscription<br><br>Ensure that when No Calling party subaddress is provided by the calling user the Calling party number is not delivered to the called user. |   |
| <b>PSTN parameter values:</b>   |  |   |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |   |
| <b>Comments:</b>                | 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.   |   |

|                                 |   |  |
|---------------------------------|---|--|
| 1110301                         | <b>PSTN ref. to:</b><br>ETS 300 001<br>ETS 300 648<br>ETS 300 659-1   | <b>PLMN ref. to:</b><br>ETS 300 557 [35], subclause 9.3.5.2<br><br>ETS 300 542 [57] , subclause 3<br><br>ETS 300 565 [36], subclause 3 |
| <b>TSS reference:</b>           | PLMN-PSTN/Supplementary_services/Speech/COLR/TC1110301  |  |
| <b>PSTN selection criteria:</b> | COLR  |  |
| <b>PLMN selection criteria:</b> | The calling user is provided with COLP  |  |
| <b>Test purpose:</b>            | The called (served) user is provided with COLR permanent mode subscription.<br><br>The Connected number information element is network provided and delivered to the calling user without any digit information. If the PSTN does not support this service, the presentation indicator shall indicate "number not available due to interworking". |  |
| <b>PSTN parameter values:</b>   |   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech,<br>Connected number: PI=PR, SI=NP, TON=unknown, NPI=unknown;   |  |
| <b>Comments:</b>                |   |  |

|                                 |  |  |
|---------------------------------|--|--|
| 1110401                         | <b>PSTN ref. to:</b><br>ETS 300 001<br>ETS 300 648<br>ETS 300 659-1  | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39] |
| <b>TSS reference:</b>           | PLMN-PSTN/Supplementary_services/Speech/CUG/TC1110401  |  |
| <b>PSTN selection criteria:</b> | The called user is not member of CUG.  |  |
| <b>PLMN selection criteria:</b> | The calling user belongs to a CUG with outgoing access "allowed".  |  |
| <b>Test purpose:</b>            | Ensure that when the calling user belongs to a CUG with outgoing access allowed and the called user is not a CUG subscriber, the call establishment is possible.           |  |
| <b>PSTN parameter values:</b>   |  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech, CUG default request   |  |
| <b>Comments:</b>                | 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. |  |

|                                 |   |  |
|---------------------------------|---|--|
| 1110402                         | <b>PSTN ref. to:</b>  | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39] |
| <b>TSS reference:</b>           | PLMN-PSTN /Supplementary_services/Speech/CUG/TC1110402  |  |
| <b>PSTN selection criteria:</b> | The called user is not member of CUG.   |  |
| <b>PLMN selection criteria:</b> | The calling user belong to a CUG with outgoing access "not allowed"   |  |
| <b>Test purpose:</b>            | Ensure that when the calling user belong to CUG with outgoing access "not allowed" and the called user is not member of CUG, call establishment is not possible and the network initiate call clearing to the calling user with cause value #87 "user not a member of CUG". |  |
| <b>PSTN parameter values:</b>   |   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech, CUG default request  |  |
| <b>Comments:</b>                | 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.  |  |

|                                 |   |  |
|---------------------------------|---|--|
| 1110501                         | <b>PSTN ref. to:</b><br>network operator specific   | <b>PLMN ref. to:</b><br>ETS 300 546 [33] subclause 1<br><br>ETS 300 569 [39] subclause 1 |
| <b>TSS reference:</b>           | PLMN-PSTN /Supplementary_services/Speech/CFU/TC1110501  |  |
| <b>PSTN selection criteria:</b> | 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). |  |
| <b>PLMN selection criteria:</b> | Call to a forwarding subscriber (CFU)   |  |
| <b>Test purpose:</b>            | Ensure that when user A calls user B, the call is forwarded to user C, user A and user C are Notified of call diversion.  |  |
| <b>PSTN parameter values:</b>   | CFU active  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |  |
| <b>Comments:</b>                | 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.                        |  |

|                                 |  |  |
|---------------------------------|--|--|
| 1110502                         | <b>PSTN ref. to:</b><br>network operator specific  | <b>PLMN ref. to:</b><br>ETS 300 543 [31] subclause 1<br><br>ETS 300 566 [37] subclause 1 |
| <b>TSS reference:</b>           | PLMN-PSTN /Supplementary_services/Speech/CFU/TC1110502   |  |
| <b>PSTN selection criteria:</b> | 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). |  |
| <b>PLMN selection criteria:</b> | Call to a forwarding subscriber (CFU)  |  |
| <b>Test purpose:</b>            | Ensure that when user A calls user B, the call is forwarded to user C, user A and user C are Notified of call diversion.   |  |
| <b>PSTN parameter values:</b>   | CFU active   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |  |
| <b>Comments:</b>                | 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.                       |  |



|                                 |   |  |
|---------------------------------|---|--|
| 1110601                         | <b>PSTN ref. to:</b><br>network operator specific   | <b>PLMN ref. to:</b><br>ETS 300 543 [31] subclause 2<br><br>ETS 300 566 [37] subclause 2 |
| <b>TSS reference:</b>           | PLMN-PSTN /Supplementary_services/Speech/CFB/TC1110601  |  |
| <b>PSTN selection criteria:</b> | 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). |  |
| <b>PLMN selection criteria:</b> | Call to a forwarding subscriber (CFB)   |  |
| <b>Test purpose:</b>            | Ensure that when user A calls busy user B, the call is forwarded to user C, user A and user C are notified of call diversion.   |  |
| <b>PSTN parameter values:</b>   | CFB active  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |  |
| <b>Comments:</b>                | 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.                        |  |

|                                 |  |  |
|---------------------------------|--|--|
| 1110602                         | <b>PSTN ref. to:</b><br>network operator specific  | <b>PLMN ref. to:</b><br>ETS 300 543 [31] subclause 2<br><br>ETS 300 566 [37] subclause 2 |
| <b>TSS reference:</b>           | PLMN-PSTN /Supplementary_services/Speech/CFB/TC1110602   |  |
| <b>PSTN selection criteria:</b> | 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). |  |
| <b>PLMN selection criteria:</b> | Call to a forwarding subscriber (CFB)  |  |
| <b>Test purpose:</b>            | Ensure that when user A calls busy user B, the call is forwarded to user C, user A and user C are notified of call diversion.  |  |
| <b>PSTN parameter values:</b>   | CFB active   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |  |
| <b>Comments:</b>                | 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.                       |  |

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| 1110701                         | <b>PSTN ref. to:</b><br>network operator specific  | <b>PLMN ref. to:</b><br>ETS 300 543 [31] subclause 3<br>ETS 300 566 [37] subclause 3 |
| <b>TSS reference:</b>           | PLMN-PSTN /Supplementary_services/Speech/CFNR/TC1110701  |  |
| <b>PSTN selection criteria:</b> | 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). |  |
| <b>PLMN selection criteria:</b> | Call to a forwarding subscriber (CFNR)   |  |
| <b>Test purpose:</b>            | Ensure that when user A calls user B, if unanswered, the call is forwarded to user C, user A and user C are notified of call diversion.  |  |
| <b>PSTN parameter values:</b>   | CFNR active  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |  |
| <b>Comments:</b>                | 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.                         |  |

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| 1110702                         | <b>PSTN ref. to:</b><br>network operator specific   | <b>PLMN ref. to:</b><br>ETS 300 543 [31] subclause 3<br>ETS 300 566 [37] subclause 3 |
| <b>TSS reference:</b>           | PLMN-PSTN /Supplementary_services/Speech/CFNR/TC1110702   |  |
| <b>PSTN selection criteria:</b> | 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). |  |
| <b>PLMN selection criteria:</b> | Call to a forwarding subscriber (CFNR)  |  |
| <b>Test purpose:</b>            | Ensure that when user A calls user B, if unanswered the call is forwarded to user C, user A and user C are notified of call diversion.  |  |
| <b>PSTN parameter values:</b>   | CFNR active   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |  |
| <b>Comments:</b>                | 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.                        |  |

## NON-SYMMETRICAL TESTS

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|---------------------------------|--|--|
| 1120101                         | <b>PSTN ref. to:</b><br>network operator specific  | <b>PLMN ref. to:</b><br>ETS 300 646-1, subclause 6.1.1.7 |
| <b>TSS reference:</b>           | PLMN-PSTN/Supplementary_services/Speech/MCID/TC 1120101  |  |
| <b>PSTN selection criteria:</b> | The called (served) user is provided with MCID   |  |
| <b>PLMN selection criteria:</b> |  |  |
| <b>Test purpose:</b>            | Ensure that if MCID is invoked by the called user in the Active call state, the call is registered.  |  |
| <b>PSTN parameter values:</b>   |  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |  |
| <b>Comments:</b>                | 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. |  |

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|---------------------------------|--|--|
| 1120102                         | <b>PSTN ref. to:</b><br>network operator specific  | <b>PLMN ref. to:</b><br>ETS 300 646-1, subclause 6.1.1.7 |
| <b>TSS reference:</b>           | PLMN-PSTN/Supplementary_services/Speech/MCID/TC1120102   |  |
| <b>PSTN selection criteria:</b> | The called (served) user is provided with MCID   |  |
| <b>PLMN selection criteria:</b> |  |  |
| <b>Test purpose:</b>            | Ensure that if MCID in invoked by the called user in the Disconnect Indication call state, the call is registered.   |  |
| <b>PSTN parameter values:</b>   |  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |  |
| <b>Comments:</b>                | 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. |  |

|                                 |   |  |
|---------------------------------|---|--|
| 1120201                         | <b>PSTN ref. to:</b><br>ETS 300 001   | <b>PLMN ref. to:</b><br>ETS 300 517, ETS 300 545 |
| <b>TSS reference:</b>           | PLMN-PSTN/Supplementary_services/Speech/MPTY/TC1120201  |  |
| <b>PSTN selection criteria:</b> |   |  |
| <b>PLMN selection criteria:</b> | MPTY  |  |
| <b>Test purpose:</b>            | <p>The PSTN User B is in network N2. The PLMN user A and PLMN user C are in network N1.</p> <p>Ensure that the user A can establish a MPTY call to user B and user C. User A is terminating the entire multi party call.</p>  |  |
| <b>PSTN parameter values:</b>   |   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |  |
| <b>Comments:</b>                | <p>User A calls user B. After call establishment user A initiates call hold. Then user A calls user C. After call establishment user A invokes the MPTY service by sending a FACILITY message to the network containing the BuildMTPY request which indicates to the network that the mobile subscriber wishes all his calls to be connected together in a multi party call. User A is terminating the entire multi party call.</p> |  |

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| 1120202                         | <b>PSTN ref. to:</b><br>ETS 300 001  | <b>PLMN ref. to:</b><br>ETS 300 517, ETS 300 545 |
| <b>TSS reference:</b>           | PLMN-PSTN/Supplementary_services/Speech/MPTY/TC1120202   |  |
| <b>PSTN selection criteria:</b> |  |  |
| <b>PLMN selection criteria:</b> | MPTY   |  |
| <b>Test purpose:</b>            | <p>The PSTN User B is in network N2. The PLMN user A and PLMN user C are in network N1.</p> <p>Ensure that the user A can establish a MPTY call to user B and user C and release the remote party C. The call clearing procedure to user B is performed from user A.</p>   |  |
| <b>PSTN parameter values:</b>   |  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |  |
| <b>Comments:</b>                | <p>User A calls user B. After call establishment user A initiates call hold. Then user A calls user C. After call establishment user A invokes the MPTY service by sending a FACILITY message to the network containing the BuildMTPY request which indicates to the network that the mobile subscriber wishes all his calls to be connected together in a multi party call. The call clearing procedure to user B is performed from user A.</p> |  |

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| 1120203                         | <b>PSTN ref. to:</b><br>ETS 300 001  | <b>PLMN ref. to:</b><br>ETS 300 517, ETS 300 545 |
| <b>TSS reference:</b>           | PLMN-PSTN/Supplementary_services/Speech/MPTY/TC1120203   |  |
| <b>PSTN selection criteria:</b> |  |  |
| <b>PLMN selection criteria:</b> | MPTY   |  |
| <b>Test purpose:</b>            | <p>The PSTN User B is in network N2. The PLMN user A and PLMN user C are in network N1.</p> <p>Ensure that the user A can establish a MPTY call to user B and user C.</p> <p>Afterwards the remote party C disconnects itself from the call. The call clearing procedure to user B is performed from user A.</p>   |  |
| <b>PSTN parameter values:</b>   |  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |  |
| <b>Comments:</b>                | <p>User A calls user B. After call establishment user A initiates call hold. Then user A calls user C. After call establishment user A invokes the MPTY service by sending a FACILITY message to the network containing the BuildMTPY request which indicates to the network that the mobile subscriber wishes all his calls to be connected together in a multi party call.</p> |  |

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|---------------------------------|--|--|
| 1120204                         | <b>PSTN ref. to:</b><br>ETS 300 001  | <b>PLMN ref. to:</b><br>ETS 300 517, ETS 300 545 |
| <b>TSS reference:</b>           | PLMN-PSTN/Supplementary_services/Speech/MPTY/TC1120204   |  |
| <b>PSTN selection criteria:</b> |  |  |
| <b>PLMN selection criteria:</b> | MPTY   |  |
| <b>Test purpose:</b>            | <p>The PSTN User B is in network N2. The PLMN user A and PLMN user C are in network N1.</p> <p>Ensure that the user A can establish a MPTY call to user B and user C and separate the remote user B from the multi-party call which is placed on hold (A-B ACTIVE / MPTY HELD). User A terminates the multi-party call and the single active call.</p>   |  |
| <b>PSTN parameter values:</b>   |  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |  |
| <b>Comments:</b>                | <p>User A calls user B. After call establishment user A initiates call hold. Then user A calls user C. After call establishment user A invokes the MPTY service by sending a FACILITY message to the network containing the BuildMPTY request which indicates to the network that the mobile subscriber wishes all his calls to be connected together in a multi party call.</p> <p>To separate the remote user B from the MPTY, the served mobile will send a SplitMPTY message to the network. The network will send normal CallOnHold notifications to the remote parties on hold in the MPTY call.</p> |  |

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| 1120205                         | <b>PSTN ref. to:</b><br>ETS 300 001  | <b>PLMN ref. to:</b><br>ETS 300 517, ETS 300 545 |
| <b>TSS reference:</b>           | PLMN-PSTN/Supplementary_services/Speech/MPTY/TC1120205   |  |
| <b>PSTN selection criteria:</b> |  |  |
| <b>PLMN selection criteria:</b> | MPTY   |  |
| <b>Test purpose:</b>            | <p>The PSTN User B is in network N2. The PLMN user A and PLMN user C are in network N1.</p> <p>Ensure that the user A can establish a MPTY call to user B and user C and separate the remote user B from the multi-party call which is placed on hold (A-B ACTIVE / MPTY HELD). User A is terminates the held multi party, user B is clears the A-B ACTIVE call.</p>   |  |
| <b>PSTN parameter values:</b>   |  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |  |
| <b>Comments:</b>                | <p>User A calls user B. After call establishment user A initiates call hold. Then user A calls user C. After call establishment user A invokes the MPTY service by sending a FACILITY message to the network containing the BuildMPTY request which indicates to the network that the mobile subscriber wishes all his calls to be connected together in a multi party call.</p> <p>To separate the remote user B from the MPTY, the served mobile will send a SplitMPTY message to the network. The network will send normal CallOnHold notifications to the remote parties on hold in the MPTY call.</p> |  |

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| 1120206                         | <b>PSTN ref. to:</b><br>ETS 300 001  | <b>PLMN ref. to:</b><br>ETS 300 517, ETS 300 545 |
| <b>TSS reference:</b>           | PLMN-PSTN/Supplementary_services/Speech/MPTY/TC1120206   |  |
| <b>PSTN selection criteria:</b> |  |  |
| <b>PLMN selection criteria:</b> | MPTY   |  |
| <b>Test purpose:</b>            | <p>The PSTN User B is in network N2. The PLMN user A and PLMN user C are in network N1.</p> <p>Ensure that the user A can establish a MPTY call to user B and user C and separate the remote user B from the multi-party call which is placed on hold (A-B ACTIVE / MPTY HELD). User B is clearing the A-B Active call.</p> <p>After the completion of the Retrieve function user A terminates the multi-party call.</p>   |  |
| <b>PSTN parameter values:</b>   |  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |  |
| <b>Comments:</b>                | <p>User A calls user B. After call establishment user A initiates call hold. Then user A calls user C. After call establishment user A invokes the MPTY service by sending a FACILITY message to the network containing the BuildMPTY request which indicates to the network that the mobile subscriber wishes all his calls to be connected together in a multi party call.</p> <p>To separate the remote user B from the MPTY, the served mobile will send a SplitMPTY message to the network. The network will send normal CallOnHold notifications to the remote parties on hold in the MPTY call.</p> <p>User B is clearing the A-B Active call. After the completion of the Retrieve function with a FACILITY message with a transaction identifier corresponding to any call in the MPTY, user A terminates the multi-party call.</p> |  |



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| 1120207                         | <b>PSTN ref. to:</b><br>ETS 300 001  | <b>PLMN ref. to:</b><br>ETS 300 517, ETS 300 545 |
| <b>TSS reference:</b>           | PLMN-PSTN/Supplementary_services/Speech/MPTY/TC1120207   |  |
| <b>PSTN selection criteria:</b> |  |  |
| <b>PLMN selection criteria:</b> | MPTY   |  |
| <b>Test purpose:</b>            | <p>The PSTN User B is in network N2. The PLMN user A and PLMN user C are in network N1.</p> <p>Ensure that the user A can establish a MPTY call to user B and user C and separate the remote user B from the multi-party call which is placed on hold (A-B ACTIVE / MPTY HELD). User C is clearing the MPTY held call.</p> <p>User B is clearing the A-B Active call.</p>  |  |
| <b>PSTN parameter values:</b>   |  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |  |
| <b>Comments:</b>                | <p>User A calls user B. After call establishment user A initiates call hold. Then user A calls user C. After call establishment user A invokes the MPTY service by sending a FACILITY message to the network containing the BuildMPTY request which indicates to the network that the mobile subscriber wishes all his calls to be connected together in a multi party call.</p> <p>To separate the remote user B from the MPTY, the served mobile will send a SplitMPTY message to the network. The network will send normal CallOnHold notifications to the remote parties on hold in the MPTY call.</p> <p>User C is clearing the MPTY held call. User B is clearing the A-B Active call.</p> |  |

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| 1120208                         | <b>PSTN ref. to:</b><br>ETS 300 001  | <b>PLMN ref. to:</b><br>ETS 300 517, ETS 300 545 |
| <b>TSS reference:</b>           | PLMN-PSTN/Supplementary_services/Speech/MPTY/TC1120208   |  |
| <b>PSTN selection criteria:</b> |  |  |
| <b>PLMN selection criteria:</b> | MPTY   |  |
| <b>Test purpose:</b>            | <p>The PSTN User B is in network N2. The PLMN user A and PLMN user C are in network N1.</p> <p>Ensure that the user A can establish a MPTY call to user B and user C and separate the remote user B from the multi-party call which is placed on hold (A-B ACTIVE / MPTY HELD). User A invokes the MPTY service and join the single active call and the held MPTY together. User A is terminating the entire multi party call.</p>   |  |
| <b>PSTN parameter values:</b>   |  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |  |
| <b>Comments:</b>                | <p>User A calls user B. After call establishment user A initiates call hold. Then user A calls user C. After call establishment user A invokes the MPTY service by sending a FACILITY message to the network containing the BuildMPTY request which indicates to the network that the mobile subscriber wishes all his calls to be connected together in a multi party call.</p> <p>To separate the remote user B from the MPTY, the served mobile will send a SplitMPTY message to the network. The network will send normal CallOnHold notifications to the remote parties on hold in the MPTY call.</p> <p>User A invokes the MPTY service by sending a FACILITY message to the network containing the BuildMPTY request which indicates to the network that the mobile subscriber wishes to join the single active call and the held MPTY together in a multi party call. User A is terminating the entire multi party call.</p> |  |

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| 1120209                         | <b>PSTN ref. to:</b><br>ETS 300 001   | <b>PLMN ref. to:</b><br>ETS 300 517, ETS 300 545 |
| <b>TSS reference:</b>           | PLMN-PSTN/Supplementary_services/Speech/MPTY/TC1120209  |  |
| <b>PSTN selection criteria:</b> |   |  |
| <b>PLMN selection criteria:</b> | MPTY  |  |
| <b>Test purpose:</b>            | <p>The PSTN User B is in network N2. The PLMN user A and PLMN user C are in network N1.</p> <p>Ensure that the user A can establish a MPTY call to user B and user C and separate the remote user B from the multi-party call which is placed on hold (A-B ACTIVE / MPTY HELD). After initiating of call hold, the call A-B has an ACTIVE –HOLD- REQUEST connection.</p> <p>After the completion of the Retrieve function concerning the MPTY call, the MPTY call is an active connection and the A-B call has an Active-Held connection. (A-B HELD / MPTY ACTIVE).</p> <p>User A is terminating the multi party call. User B is clearing the Active-Held call.</p> |  |
| <b>PSTN parameter values:</b>   |   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |  |
| <b>Comments:</b>                |   |  |

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|---------------------------------|--|--|
| 1120210                         | <b>PSTN ref. to:</b><br>ETS 300 001  | <b>PLMN ref. to:</b><br>ETS 300 517, ETS 300 545 |
| <b>TSS reference:</b>           | PLMN-PSTN/Supplementary_services/Speech/MPTY/TC1120210   |  |
| <b>PSTN selection criteria:</b> |  |  |
| <b>PLMN selection criteria:</b> | MPTY   |  |
| <b>Test purpose:</b>            | <p>The PSTN User B is in network N2. The PLMN user A and PLMN user C are in network N1.</p> <p>Ensure that the user A can establish a MPTY call to user B and user C and separate the remote user B from the multi-party call which is placed on hold (A-B ACTIVE / MPTY HELD). After initiating of call hold, the call A-B has an ACTIVE –HOLD- REQUEST connection.</p> <p>After the completion of the Retrieve function concerning the MPTY call, the MPTY call is an active connection and the A-B call has an Active-Held connection. (A-B HELD / MPTY ACTIVE).</p> <p>User B is terminating the multi party call. After the completion of the Retrieve function concerning the A-B Active-Held call, user A is clearing the A-B connection.</p> |  |
| <b>PSTN parameter values:</b>   |  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |  |
| <b>Comments:</b>                |  |  |

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|---------------------------------|--|--|
| 1120211                         | <b>PSTN ref. to:</b><br>ETS 300 001  | <b>PLMN ref. to:</b><br>ETS 300 517, ETS 300 545 |
| <b>TSS reference:</b>           | PLMN-PSTN/Supplementary_services/Speech/MPTY/TC1120211   |  |
| <b>PSTN selection criteria:</b> |  |  |
| <b>PLMN selection criteria:</b> | MPTY   |  |
| <b>Test purpose:</b>            | <p>The PSTN User B is in network N2. The PLMN user A and PLMN user C are in network N1.</p> <p>Ensure that the user A can establish a MPTY call to user B and user C and separate the remote user B from the multi-party call which is placed on hold (A-B ACTIVE / MPTY HELD). After initiating of call hold, the call A-B has an ACTIVE –HOLD- REQUEST connection.</p> <p>After the completion of the Retrieve function concerning the MPTY call, the MPTY call is an active connection and the A-B call has an Active-Held connection. (A-B HELD / MPTY ACTIVE).</p> <p>User C is terminating the multi party call. After the completion of the Retrieve function concerning the A-B Active-Held call, user B is clearing the A-B connection.</p> |  |
| <b>PSTN parameter values:</b>   |  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |  |
| <b>Comments:</b>                |  |  |

|                                 |  |  |
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| 1120301                         | <b>PSTN ref. to:</b>   | <b>PLMN ref. to:</b><br>ETS 300 548 [34] |
| <b>TSS reference:</b>           | PLMN-PSTN/Supplementary_services/Speech/Call barring service/<br>TC1120301   |  |
| <b>PSTN selection criteria:</b> |  |  |
| <b>PLMN selection criteria:</b> | Barring of Outgoing international Calls  |  |
| <b>Test purpose:</b>            | <p>The calling user activates Barring of Outgoing international Calls except those to the home PLMN country (BOIC-exHC). The user is roaming outside the home PLMN country. Barring of Outgoing international Calls except those to the home PLMN country is supported by the PLMN in which the served mobile subscriber currently roams.</p> <p>Ensure that when the calling user activates Barring of Outgoing International Calls except those to the home PLMN country (BOIC-exHC) and the user is roaming outside the home PLMN country, call establishment to the home PLMN country is successful.</p> |  |
| <b>PSTN parameter values:</b>   |  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |  |
| <b>Comments:</b>                |  |  |

## 6.2.12 Test purposes for PLMN- PSTN, B-channel end-to-end performance

### B-channel end-to-end performance

|                                 |   |  |
|---------------------------------|---|--|
| 1210101                         | <b>PSTN ref. to:</b><br>ETS 300 001   | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>ITU-T Rec. G.101 [56] |
| <b>TSS reference:</b>           | PLMN-PSTN/ B-channel end-to-end performance /Speech/TC1210101                                 |  |
| <b>PSTN selection criteria:</b> | Voice transmission  |  |
| <b>PLMN selection criteria:</b> | TS 11, Voice transmission   |  |
| <b>Test purpose:</b>            | To ensure that the voice transfer on the B-channel is performed correctly.                    |  |
| <b>PSTN parameter values:</b>   |   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech   |  |
| <b>Comments:</b>                | The tests should be based on the E-Model described in the ITU-T Rec. G.101 [56] , Appendix I. |  |

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| 1210201                         | <b>PSTN ref. to:</b><br>ETS 300 001  | <b>PLMN ref. to:</b><br>ETS 300 557 [35]<br>ETS 300 578 [55] |
| <b>TSS reference:</b>           | PLMN-PSTN/ B-channel end-to-end performance /3,1 kHz audio ex PLMN/TC1210201                                   |  |
| <b>PSTN selection criteria:</b> | Data transmission  |  |
| <b>PLMN selection criteria:</b> | Data transmission  |  |
| <b>Test purpose:</b>            | To ensure that the voice band data via modem transfer with 1,2 kbit/s on the B-channel is performed correctly. |  |
| <b>PSTN parameter values:</b>   |  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem  |  |
| <b>Comments:</b>                | The tests should be based on the requirements described in the ETS 300 578 [55]                                |  |

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| 1210202                         | <b>PSTN ref. to:</b><br>ETS 300 001  | <b>PLMN ref. to:</b><br>ETS 300 557 [35]<br>ETS 300 578 [55] |
| <b>TSS reference:</b>           | PLMN-PSTN/ B-channel end-to-end performance /<br>3,1 kHz audio ex PLMN/TC1210202                               |  |
| <b>PSTN selection criteria:</b> | Data transmission  |  |
| <b>PLMN selection criteria:</b> | Data transmission  |  |
| <b>Test purpose:</b>            | To ensure that the voice band data via modem transfer with 2,4 kbit/s on the B-channel is performed correctly. |  |
| <b>PSTN parameter values:</b>   |  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem  |  |
| <b>Comments:</b>                | The tests should be based on the requirements described in the ETS 300 578 [55]                                |  |

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| 1210203                         | <b>PSTN ref. to:</b><br>ETS 300 001  | <b>PLMN ref. to:</b><br>ETS 300 557 [35]<br>ETS 300 578 [55] |
| <b>TSS reference:</b>           | PLMN-PSTN/ B-channel end-to-end performance /3,1 kHz audio ex PLMN/1210203                                     |  |
| <b>PSTN selection criteria:</b> | Data transmission  |  |
| <b>PLMN selection criteria:</b> | Data transmission  |  |
| <b>Test purpose:</b>            | To ensure that the voice band data via modem transfer with 4,8 kbit/s on the B-channel is performed correctly. |  |
| <b>PSTN parameter values:</b>   |  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem  |  |
| <b>Comments:</b>                | The tests should be based on the requirements described in the ETS 300 578 [55]                                |  |

|                                 |  |  |
|---------------------------------|--|--|
| 1210204                         | <b>PSTN ref. to:</b><br>ETS 300 001  | <b>PLMN ref. to:</b><br>ETS 300 557 [35]<br>ETS 300 578 [55] |
| <b>TSS reference:</b>           | PLMN-PSTN/ B-channel end-to-end performance /<br>3,1 kHz audio ex PLMN/TC1210204                               |  |
| <b>PSTN selection criteria:</b> | Data transmission  |  |
| <b>PLMN selection criteria:</b> | Data transmission  |  |
| <b>Test purpose:</b>            | To ensure that the voice band data via modem transfer with 9,6 kbit/s on the B-channel is performed correctly. |  |
| <b>PSTN parameter values:</b>   |  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem  |  |
| <b>Comments:</b>                | The tests should be based on the requirements described in the ETS 300 578 [55]                                |  |



|                                 |  |  |
|---------------------------------|--|--|
| 1210301                         | <b>PSTN ref. to:</b><br>ETS 300 001  | <b>PLMN ref. to:</b><br>ETS 300 557 [35]<br>ETS 300 578 [55] |
| <b>TSS reference:</b>           | PLMN-PSTN/ B-channel end-to-end performance /Facsimile G3/1210301  |  |
| <b>PSTN selection criteria:</b> | Data transmission  |  |
| <b>PLMN selection criteria:</b> | TS 62, Data transmission   |  |
| <b>Test purpose:</b>            | To ensure that the Facsimile group 2/3 transfer with 9,6 kbit/s on the B-channel is performed correctly. |  |
| <b>PSTN parameter values:</b>   |  |  |
| <b>PLMN parameter values:</b>   | GSM-BC = facsimile G3, HLC = Facsimile G2/G3   |  |
| <b>Comments:</b>                | The tests should be based on the requirements described in the ETS 300 578 [55]                          |  |

|                                 |   |  |
|---------------------------------|---|--|
| 1210401                         | <b>PSTN ref. to:</b><br>ETS 300 001   | <b>PLMN ref. to:</b><br>ETS 300 557 [35]<br>ETS 300 578 [55] |
| <b>TSS reference:</b>           | PLMN-PSTN/ B-channel end-to-end performance /Alternate speech and facsimile G3/ TC1210401                           |  |
| <b>PSTN selection criteria:</b> | Data transmission   |  |
| <b>PLMN selection criteria:</b> | TS 61, Data transmission  |  |
| <b>Test purpose:</b>            | To ensure that the voice and Facsimile group 2/3 transfer with 9,6 kbit/s on the B-channel are performed correctly. |  |
| <b>ISDN parameter values:</b>   |   |  |
| <b>PLMN parameter values:</b>   | first GSM-BC=speech<br>second GSM-BC= facsimile G3, no HLC  |  |
| <b>Comments:</b>                | The tests should be based on the requirements described in the ETS 300 578 [55]                                     |  |

|                                 |   |  |
|---------------------------------|---|--|
| 1210501                         | <b>PSTN ref. to:</b><br>ETS 300 001   | <b>PLMN ref. to:</b><br>ETS 300 557 [35]<br>ETS 300 578 [55] |
| <b>TSS reference:</b>           | PLMN-PSTN/ B-channel end-to-end performance /Speech followed by data / TC1210501      |  |
| <b>PSTN selection criteria:</b> | Data transmission   |  |
| <b>PLMN selection criteria:</b> | TS 61, Data transmission  |  |
| <b>Test purpose:</b>            | To ensure that the voice and data transfer on the B-channel are performed correctly.  |  |
| <b>ISDN parameter values:</b>   |   |  |
| <b>PLMN parameter values:</b>   | first GSM-BC=speech<br>second GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem |  |
| <b>Comments:</b>                | The tests should be based on the requirements described in the ETS 300 578 [55]       |  |

|                                 |   |  |
|---------------------------------|---|--|
| 1210601                         | <b>PSTN ref. to:</b><br>ETS 300 001   | <b>PLMN ref. to:</b><br>ETS 300 557 [35]<br>ETS 300 578 [55] |
| <b>TSS reference:</b>           | PLMN-PSTN/ B-channel end-to-end performance /Emergency Call/1210601             |  |
| <b>PSTN selection criteria:</b> | Voice transmission  |  |
| <b>PLMN selection criteria:</b> | TS 12; MS with valid SIM Card, Voice transmission                               |  |
| <b>Test purpose:</b>            | To ensure that the voice transfer on the B-channel is performed correctly.      |  |
| <b>PSTN parameter values:</b>   |   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech, no HLC   |  |
| <b>Comments:</b>                | The tests should be based on the requirements described in the ETS 300 578 [55] |  |

|                                 |   |  |
|---------------------------------|---|--|
| 1210602                         | <b>PSTN ref. to:</b><br>ETS 300 001   | <b>PLMN ref. to:</b><br>ETS 300 557 [35]<br>ETS 300 578 [55] |
| <b>TSS reference:</b>           | PLMN-PSTN/ B-channel end-to-end performance /Emergency Call/<br>TC1210602       |  |
| <b>PSTN selection criteria:</b> | Voice transmission  |  |
| <b>PLMN selection criteria:</b> | TS 12; MS without SIM Card, Voice transmission                                  |  |
| <b>Test purpose:</b>            | To ensure that the voice transfer on the B-channel is performed correctly.      |  |
| <b>PSTN parameter values:</b>   |   |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech, no HLC   |  |
| <b>Comments:</b>                | The tests should be based on the requirements described in the ETS 300 578 [55] |  |

|                                 |  |  |
|---------------------------------|--|--|
| 1210603                         | <b>PSTN ref. to:</b><br>ETS 300 001  | <b>PLMN ref. to:</b><br>ETS 300 557 [35]<br>ETS 300 578 [55] |
| <b>TSS reference:</b>           | PLMN-PSTN/ B-channel end-to-end performance /Emergency Call/<br>TC1210603              |  |
| <b>PSTN selection criteria:</b> | Voice transmission   |  |
| <b>PLMN selection criteria:</b> | TS 12; IMSI contained in the SIM Card is not recognized by the VLR, Voice transmission |  |
| <b>Test purpose:</b>            | To ensure that the voice transfer on the B-channel is performed correctly.             |  |
| <b>PSTN parameter values:</b>   |  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech, no HLC  |  |
| <b>Comments:</b>                | The tests should be based on the requirements described in the ETS 300 578 [55]        |  |

### 6.2.13 Test purposes for PLMN-PLMN, Basic call

In the following PLMN-PLMN Tests are used two configurations.

By the first configuration the PLMN networks are connected only over the ISUP V2. The user A in the PLMN network N1 is calling the user B in the PLMN network N2.

By the second configuration the user A and user B are subscribed to the same PMLN (Network N1) and user B is roaming in a VPLMN (Network N2). This configuration is used only in the groups: Alternate speech and facsimile group 3, Alternate Speech/Data and Speech followed by data.

## 6.2.13.1 Successful

**Successful****Speech**

|   |  |  |
|---|--|--|
| 1310101                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 10.2                                |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/Speech/TC1310101   |  |
| <b>PLMN selection criteria origin.:</b> | TS 11  |  |
| <b>PLMN selection criteria term.:</b>   | TS 11  |  |
| <b>Test purpose:</b>                    | Ensure that call establishment and the call clearing procedure is performed correctly when the calling user clears after answer. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech, no HLC  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=speech, no HLC  |  |
| <b>Comments:</b>                        |  |  |

|   |   |  |
|---|---|--|
| 1310102                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2.1<br>ETS 300 604 [42],<br>subclause 10.2.1                           |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/Speech/TC1310102  |  |
| <b>PLMN selection criteria origin.:</b> | TS 11   |  |
| <b>PLMN selection criteria term.:</b>   | TS 11   |  |
| <b>Test purpose:</b>                    | Ensure that call establishment and the call clearing procedure is performed correctly when the called user clears after answer. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech, no HLC   |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=speech, no HLC   |  |
| <b>Comments:</b>                        |   |  |

|   |   |  |
|---|---|--|
| 1310103                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 10.2<br>ETS 300 502 [27], subclause 6<br>ETS 300 582 [40], Annex B.2.8   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/Speech/TC1310103  |  |
| <b>PLMN selection criteria origin.:</b> | TS 11   |  |
| <b>PLMN selection criteria term.:</b>   | TS 11   |  |
| <b>Test purpose:</b>                    | Ensure that the HLC information is transported transparently through the network and correctly delivered to the called user. After the call establishment the call clearing procedure is performed from the calling user. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech, HLC=telephony  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=speech, HLC=telephony  |  |
| <b>Comments:</b>                        |   |  |

|   |  |  |
|---|--|--|
| 1310104                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 10.2<br>ETS 300 502 [27], subclause 6<br>ETS 300 582 [40], Annex B.2.8  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/Speech/TC1310104   |  |
| <b>PLMN selection criteria origin.:</b> | TS 11  |  |
| <b>PLMN selection criteria term.:</b>   | TS 11  |  |
| <b>Test purpose:</b>                    | Ensure that the HLC information is transported transparently through the network and correctly delivered to the called user. After the call establishment the call clearing procedure is performed from the called user. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech, HLC=telephony   |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=speech, HLC=telephony   |  |
| <b>Comments:</b>                        |  |  |

**Successful**

**3,1 kHz audio, ex PLMN**

|   |  |  |
|---|--|--|
| 1310201                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2, subclause 5.4<br>ETS 300 604 [42],<br>subclause 10.2                 |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/3,1 kHz audio, ex PLMN/TC1310201   |  |
| <b>PLMN selection criteria origin.:</b> | Audio  |  |
| <b>PLMN selection criteria term.:</b>   | Audio  |  |
| <b>Test purpose:</b>                    | Ensure that call establishment and the call clearing procedure is performed correctly when the calling user clears after answer. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem  |  |
| <b>Comments:</b>                        |  |  |

|   |   |  |
|---|---|--|
| 1310202                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2.1, subclause 5.4<br>ETS 300 604 [42],<br>subclause 10.2              |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/3,1 kHz audio, ex PLMN/TC1310202  |  |
| <b>PLMN selection criteria origin.:</b> | Audio   |  |
| <b>PLMN selection criteria term.:</b>   | Audio   |  |
| <b>Test purpose:</b>                    | Ensure that call establishment and the call clearing procedure is performed correctly when the called user clears after answer. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem   |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem   |  |
| <b>Comments:</b>                        |   |  |

|                                       |   |  |
|---------------------------------------|---|--|
| 1310203                               | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2.1<br>ETS 300 604 [42],<br>subclause 10.2<br>ETS 300 582 [40], Annex B.1.2  |  |
| <b>TSS reference:</b>                 | PLMN-PLMN/Basic_call/Successful/3,1 kHz audio, ex PLMN/TC1310203  |  |
| <b>PLMN selection criteria act:</b>   | Audio, asynchronous mode, BS 21   |  |
| <b>PLMN selection criteria term.:</b> | Audio, asynchronous mode, BS 21   |  |
| <b>Test purpose:</b>                  | Support voice band data via modem. Ensure that the GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 0,3 kbit/s is correctly mapped to the called user. |  |
| <b>PLMN parameter values origin.:</b> | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 0,3 kbit/s, no LLC  |  |
| <b>PLMN parameter values term.:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 0,3 kbit/s, no LLC  |  |
| <b>Comments:</b>                      |   |  |

|   |  |  |
|---|--|--|
| 1310204                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 10.2<br>ETS 300 582 [40], Annex B.1.2   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/3,1 kHz audio ex PLMN/TC1310204  |  |
| <b>PLMN selection criteria origin.:</b> | Audio, asynchronous mode, BS 22  |  |
| <b>PLMN selection criteria term.:</b>   | Audio, asynchronous mode, BS 22  |  |
| <b>Test purpose:</b>                    | Support of voice band data via modem: Ensure that the GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s is correctly mapped to the called user. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s, no LLC   |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s, no LLC   |  |
| <b>Comments:</b>                        |  |  |

|   |  |  |
|---|--|--|
| 1310205                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 10.2<br>ETS 300 582 [40], Annex B.1.2   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/3,1 kHz audio ex PLMN/TC1310205  |  |
| <b>PLMN selection criteria origin.:</b> | Audio, asynchronous mode, BS 24  |  |
| <b>PLMN selection criteria term.:</b>   | Audio, asynchronous mode, BS 24  |  |
| <b>Test purpose:</b>                    | Support of voice band data via modem. Ensure that the GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 2,4 kbit/s is correctly mapped to the called user. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 2,4 kbit/s, no LLC   |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 2,4 kbit/s, no LLC   |  |
| <b>Comments:</b>                        |  |  |

|   |   |  |
|---|---|--|
| 1310206                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 10.2<br>ETS 300 582 [40], Annex B.1.2  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/3,1 kHz audio, ex PLMN/TC1310206  |  |
| <b>PLMN selection criteria origin.:</b> | Audio, asynchronous mode, BS 25   |  |
| <b>PLMN selection criteria term.:</b>   | Audio, asynchronous mode, BS 25   |  |
| <b>Test purpose:</b>                    | Support of voice band data via modem. Ensure that the GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 4,8 kbit/s, is correctly mapped to the called user. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 4,8 kbit/s, no LLC  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 4,8 kbit/s, no LLC  |  |
| <b>Comments:</b>                        |   |  |



|   |   |  |
|---|---|--|
| 1310207                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 10.2<br>ETS 300 582 [40], Annex B.1.2  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/3,1 kHz audio ex PLMN/TC1310207   |  |
| <b>PLMN selection criteria origin.:</b> | Audio, asynchronous mode, BS 26   |  |
| <b>PLMN selection criteria term.:</b>   | Audio, asynchronous mode, BS 26   |  |
| <b>Test purpose:</b>                    | Support of voice band data via modem. Ensure that the GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 9,6 kbit/s, is correctly mapped to the called user. |  |
| <b>PLMN parameter values origin.</b>    | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 9,6 kbit/s, no LLC  |  |
| <b>PLMN parameter values term.</b>      | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 9,6 kbit/s, no LLC  |  |
| <b>Comments:</b>                        |   |  |

|   |   |  |
|---|---|--|
| 1310208                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 10.2<br>ETS 300 582 [40], Annex B.1.2,<br>B.2.2  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/3,1 kHz audio ex PLMN/TC1310208   |  |
| <b>PLMN selection criteria origin.:</b> | Audio, asynchronous mode, BS 21   |  |
| <b>PLMN selection criteria term.:</b>   | Audio, asynchronous mode, BS 21   |  |
| <b>Test purpose:</b>                    | Support of voice band data via modem. Ensure that the GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 0.3 kbit/s is correctly mapped and the LLC = 3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 0,3 kbit/s is correctly delivered to the called user. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 0.3 kbit/s, LLC=3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 0,3 kbit/s   |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 0.3 kbit/s, LLC=3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 0,3 kbit/s   |  |
| <b>Comments:</b>                        |   |  |

|   |   |  |
|---|---|--|
| 1310209                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 10.2<br>ETS 300 582 [40], Annex B.1.2,<br>B.2.2  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/3,1 kHz audio ex PLMN/TC1310209   |  |
| <b>PLMN selection criteria origin.:</b> | Audio, asynchronous mode, BS 22   |  |
| <b>PLMN selection criteria term.:</b>   | Audio, asynchronous mode, BS 22   |  |
| <b>Test purpose:</b>                    | Support of voice band data via modem. Ensure that the GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s is correctly mapped and the LLC=3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s is correctly delivered to the called user. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s, LLC=3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s   |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s, LLC=3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s   |  |
| <b>Comments:</b>                        |   |  |

|   |   |  |
|---|---|--|
| 1310210                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 10.2<br>ETS 300 582 [40],<br>Annex B.1.2, B.2.2  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/3,1 kHz audio, ex PLMN/TC1310210  |  |
| <b>PLMN selection criteria origin.:</b> | Audio, asynchronous mode, BS 24   |  |
| <b>PLMN selection criteria term.:</b>   | Audio, asynchronous mode, BS 24   |  |
| <b>Test purpose:</b>                    | Support of voice band data via modem. Ensure that the GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 2,4 kbit/s is correctly mapped and the LLC = 3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 2,4 kbit/s is correctly delivered to the called user. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 2,4 kbit/s, LLC=3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 2,4 kbit/s   |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 2,4 kbit/s, LLC=3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 2,4 kbit/s   |  |
| <b>Comments:</b>                        |   |  |

|                                       |  |  |
|---------------------------------------|--|--|
| 1310211                               | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 10.2<br>ETS 300 582 [40], Annex B.1.2,<br>B.2.2   |  |
| <b>TSS reference:</b>                 | PLMN-PLMN/Basic_call/Successful/3,1 kHz audio ex PLMN/TC1310211  |  |
| <b>PLMN selection criteria act:</b>   | Audio, asynchronous mode, BS 25  |  |
| <b>PLMN selection criteria term.:</b> | Audio, asynchronous mode, BS 25  |  |
| <b>Test purpose:</b>                  | Support of terminal adapters voice band data via modem. Ensure that the GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 4,8 kbit/s, is correctly mapped 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. |  |
| <b>PLMN parameter values origin.:</b> | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 4,8 kbit/s, LLC=3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 4,8 kbit/s  |  |
| <b>PLMN parameter values term.:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 4,8 kbit/s, LLC=3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 4,8 kbit/s  |  |
| <b>Comments:</b>                      |  |  |

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| 1310212                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 10.2<br>ETS 300 582 [40], Annex B.1.2,<br>B.2.2  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/3,1 kHz audio ex PLMN/TC1310212   |  |
| <b>PLMN selection criteria origin.:</b> | Audio, asynchronous mode, BS 26   |  |
| <b>PLMN selection criteria term.:</b>   | Audio, asynchronous mode, BS 26   |  |
| <b>Test purpose:</b>                    | Support of voice band data via modem. Ensure that the GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 9,6 kbit/s is correctly mapped and the LLC=3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 9,6 kbit/s is correctly delivered to the called user. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 9,6 kbit/s, LLC=3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 9,6 kbit/s   |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 9,6 kbit/s, LLC=3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 9,6 kbit/s   |  |
| <b>Comments:</b>                        |   |  |

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| 1310213                                | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 10.2<br>ETS 300 582 [40], Annex B.1.3  |  |
| <b>TSS reference:</b>                  | PLMN-PLMN/Basic_call/Successful/3,1 kHz audio ex PLMN/TC1310213   |  |
| <b>PLMN selection criteria origin.</b> | Audio, synchronous mode, BS 31  |  |
| <b>PLMN selection criteria term.:</b>  | Audio, synchronous mode, BS 31  |  |
| <b>Test purpose:</b>                   | Support of terminal adapters voice band data via modem. Ensure that the GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 1,2 kbit/s is correctly mapped to the called user. |  |
| <b>PLMN parameter values act:</b>      | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 1,2 kbit/s, no LLC   |  |
| <b>PLMN parameter values term.:</b>    | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 1,2 kbit/s, no LLC   |  |
| <b>Comments:</b>                       |   |  |

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| 1310214                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 10.2<br>ETS 300 582 [40], Annex B.1.2  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/3,1 kHz audio ex PLMN/TC1310214   |  |
| <b>PLMN selection criteria origin.:</b> | Audio, synchronous mode, BS 32  |  |
| <b>PLMN selection criteria term.:</b>   | Audio, synchronous mode, BS 32  |  |
| <b>Test purpose:</b>                    | Support of voice band data via modem. Ensure that the GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 2,4 kbit/s is correctly mapped to the called user. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 2,4 kbit/s, no LLC   |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 2,4 kbit/s, no LLC   |  |
| <b>Comments:</b>                        |   |  |

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| 1310215                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 10.2<br>ETS 300 582 [40], Annex B.1.2   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/3,1 kHz audio, ex PLMN/TC1310215   |  |
| <b>PLMN selection criteria origin.:</b> | Audio, synchronous mode, BS 33   |  |
| <b>PLMN selection criteria term.:</b>   | Audio, synchronous mode, BS 33   |  |
| <b>Test purpose:</b>                    | Support of voice band data via modem. Ensure that the GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 4,8 kbit/s, is correctly mapped to the called user. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 4,8 kbit/s, no LLC  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 4,8 kbit/s, no LLC  |  |
| <b>Comments:</b>                        |  |  |

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| 1310216                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 10.2<br>ETS 300 582 [40], Annex B.1.2   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/3,1 kHz audio ex PLMN/TC1310216  |  |
| <b>PLMN selection criteria origin.:</b> | Audio, synchronous mode, BS 34   |  |
| <b>PLMN selection criteria term.:</b>   | Audio, synchronous mode, BS 34   |  |
| <b>Test purpose:</b>                    | Support of voice band data via modem. Ensure that the GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 9,6 kbit/s, is correctly mapped to the called user. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 9,6 kbit/s, no LLC  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 9,6 kbit/s, no LLC  |  |
| <b>Comments:</b>                        |  |  |

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| 1310217                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 10.2<br>ETS 300 582 [40], Annex B.1.3  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/3,1 kHz audio ex PLMN/TC1310217   |  |
| <b>PLMN selection criteria origin.:</b> | Audio, synchronous mode, BS 31  |  |
| <b>PLMN selection criteria term.:</b>   | Audio, synchronous mode, BS 31  |  |
| <b>Test purpose:</b>                    | Support of voice band data via modem. Ensure that the GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 1,2 kbit/s is correctly mapped and the LLC=3,1 kHz audio, voice band data via modem, synchronous mode, user rate 1,2 kbit/s is correctly delivered to the called user. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 1,2 kbit/s, LLC=3,1 kHz audio, voice band data via modem, synchronous mode, user rate 1,2 kbit/s   |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 1,2 kbit/s, LLC=3,1 kHz audio, voice band data via modem, synchronous mode, user rate 1,2 kbit/s   |  |
| <b>Comments:</b>                        |   |  |

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| 1310218                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 10.2<br>ETS 300 582 [40],<br>Annex B.1.2, B.2.2  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/3,1 kHz audio, ex PLMN/TC1310218  |  |
| <b>PLMN selection criteria origin.:</b> | Audio, synchronous mode, BS 32  |  |
| <b>PLMN selection criteria term.:</b>   | Audio, synchronous mode, BS 32  |  |
| <b>Test purpose:</b>                    | Support of voice band data via modem. Ensure that the GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 2,4 kbit/s is correctly mapped 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. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 2,4 kbit/s, LLC=3,1 kHz audio, voice band data via modem, synchronous mode, user rate 2,4 kbit/s   |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 2,4 kbit/s, LLC=3,1 kHz audio, voice band data via modem, synchronous mode, user rate 2,4 kbit/s   |  |
| <b>Comments:</b>                        |   |  |

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| 1310219                               | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 10.2<br>ETS 300 582 [40], Annex B.1.2,<br>B.2.2   |  |
| <b>TSS reference:</b>                 | PLMN-PLMN/Basic_call/Successful/3,1 kHz audio ex PLMN/TC1310219  |  |
| <b>PLMN selection criteria act:</b>   | Audio, synchronous mode, BS 33   |  |
| <b>PLMN selection criteria term.:</b> | Audio, synchronous mode, BS 33   |  |
| <b>Test purpose:</b>                  | Support of terminal adapters voice band data via modem. Ensure that the GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 4,8 kbit/s, is correctly mapped and the LLC=3,1 kHz audio, voice band data via modem, synchronous mode, user rate 4,8 kbit/s information is correctly delivered to the called user. |  |
| <b>PLMN parameter values origin.:</b> | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 4,8 kbit/s, LLC=3,1 kHz audio, voice band data via modem, synchronous mode, user rate 4,8 kbit/s  |  |
| <b>PLMN parameter values term.:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 4,8 kbit/s, LLC=3,1 kHz audio, voice band data via modem, synchronous mode, user rate 4,8 kbit/s  |  |
| <b>Comments:</b>                      |  |  |

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| 1310220                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 10.2<br>ETS 300 582 [40], Annex B.1.2,<br>B.2.2  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/3,1 kHz audio ex PLMN/TC1310220   |  |
| <b>PLMN selection criteria origin.:</b> | Audio, synchronous mode, BS 34  |  |
| <b>PLMN selection criteria term.:</b>   | Audio, synchronous mode, BS 34  |  |
| <b>Test purpose:</b>                    | Support of voice band data via modem. Ensure that the GSM-BC=3,1 kHz audio ex PLMN, 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. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 9,6 kbit/s, LLC=3,1 kHz audio, voice band data via modem, synchronous mode, user rate 9,6 kbit/s   |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 9,6 kbit/s, LLC=3,1 kHz audio, voice band data via modem, synchronous mode, user rate 9,6 kbit/s   |  |
| <b>Comments:</b>                        |   |  |

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| 1310221                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2, subclause 5.4<br>ETS 300 604 [42],<br>subclause 10.2   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/3,1 kHz audio, ex PLMN/TC1310221   |  |
| <b>PLMN selection criteria origin.:</b> | Audio  |  |
| <b>PLMN selection criteria term.:</b>   | Audio, Single numbering Scheme   |  |
| <b>Test purpose:</b>                    | Ensure that call establishment (single-numbering scheme) and the call clearing procedure is performed correctly when the calling user clears after answer. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem  |  |
| <b>Comments:</b>                        |  |  |

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| 1310222                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2.1, subclause 5.4<br>ETS 300 604 [42],<br>subclause 10.2  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/3,1 kHz audio, ex PLMN/TC1310222  |  |
| <b>PLMN selection criteria origin.:</b> | Audio   |  |
| <b>PLMN selection criteria term.:</b>   | Audio, Single numbering Scheme  |  |
| <b>Test purpose:</b>                    | Ensure that call establishment (single-numbering scheme) and the call clearing procedure is performed correctly when the called user clears after answer. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem   |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem   |  |
| <b>Comments:</b>                        |   |  |

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| 1310301                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 10.2   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/UDI/TC1310301   |  |
| <b>PLMN selection criteria origin.:</b> | UDI   |  |
| <b>PLMN selection criteria term.:</b>   | UDI   |  |
| <b>Test purpose:</b>                    | Support of terminal adapters V.110/X.30. Ensure that call establishment and the call clearing procedure is performed correctly when the calling user clears after answer. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC = UDI, rate adaption V.110/X.30, LLC=UDI, rate adaption V.110/X.30   |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC = UDI, rate adaption V.110/X.30, LLC= UDI, rate adaption V.110/X.30  |  |
| <b>Comments:</b>                        |   |  |

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| 1310302                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 10.2  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/UDI/TC1310302  |  |
| <b>PLMN selection criteria origin.:</b> | UDI  |  |
| <b>PLMN selection criteria term.:</b>   | UDI  |  |
| <b>Test purpose:</b>                    | Support of terminal adapters V.110/X.30. Ensure that call establishment and the call clearing procedure is performed correctly when the called user clears after answer. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC = UDI, rate adaption V.110/X.30, LLC=UDI, rate adaption V.110/X.30  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC = UDI, rate adaption V.110/X.30, LLC=UDI, rate adaption V.110/X.30  |  |
| <b>Comments:</b>                        |  |  |

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| 1310303                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 10.2<br>ETS 300 582 [40], Annex B.1.2;<br>B 2.2   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/UDI/TC1310303  |  |
| <b>PLMN selection criteria origin.:</b> | UDI, asynchronous mode, BS 21  |  |
| <b>PLMN selection criteria term.:</b>   | UDI, asynchronous mode, BS 21  |  |
| <b>Test purpose:</b>                    | Support of terminal adapters V.110/X.30. Ensure that the GSM-BC = UDI, V.110/X.30, asynchronous mode, user rate 0.3 kbit/s is correctly mapped and the LLC = UDI, V.110/X.30, asynchronous mode, user rate 0,3 kbit/s information is correctly delivered to the called user. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC = UDI, V.110/X.30, asynchronous mode, user rate 0.3 kbit/s,<br>LLC=UDI, V.110/X.30, asynchronous mode, user rate 0,3 kbit/s   |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC = UDI, V.110/X.30, asynchronous mode, user rate 0.3 kbit/s,<br>LLC=UDI, V.110/X.30, asynchronous mode, user rate 0,3 kbit/s   |  |
| <b>Comments:</b>                        |  |  |

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| 1310304                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 10.2<br>ETS 300 582 [40], Annex B.1.2;<br>B 2.2   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/UDI/TC1310304  |  |
| <b>PLMN selection criteria origin.:</b> | UDI, asynchronous mode, BS 22  |  |
| <b>PLMN selection criteria term.:</b>   | UDI, asynchronous mode, BS 22  |  |
| <b>Test purpose:</b>                    | Support of terminal adapters V.110/X.30 Ensure that the GSM-BC=UDI/X.30 [49] , asynchronous mode, user rate 1,2 kbit/s is correctly mapped and the LLC=UDI, V.110/X.30, asynchronous mode, user rate 1,2 kbit/s is correctly delivered to the called user. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=UDI/X.30 [49] , asynchronous mode, user rate 1,2 kbit/s,<br>LLC=UDI, V.110/X.30, asynchronous mode, user rate 1,2 kbit/s  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=UDI/X.30 [49] , asynchronous mode, user rate 1,2 kbit/s,<br>LLC=UDI, V.110/X.30, asynchronous mode, user rate 1,2 kbit/s  |  |
| <b>Comments:</b>                        |  |  |

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| 1310305                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 10.2<br>ETS 300 582 [40], Annex B.1.2;<br>B 2.2  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/UDI/TC1310305   |  |
| <b>PLMN selection criteria origin.:</b> | UDI, asynchronous mode, BS 24   |  |
| <b>PLMN selection criteria term.:</b>   | UDI, asynchronous mode, BS 24   |  |
| <b>Test purpose:</b>                    | Support of terminal adapters V.110/X.30 Ensure that the GSM-BC = UDI, V.110/X.30, asynchronous mode, user rate 2,4 kbit/s is correctly mapped and the LLC = UDI, V.110/X.30, asynchronous mode, user rate 2,4 kbit/s is correctly delivered to the called user. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC = UDI, V.110/X.30, asynchronous mode, user rate 2,4 kbit/s,<br>LLC=UDI, V.110/X.30, asynchronous mode, user rate 2,4 kbit/s  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC = UDI, V.110/X.30, asynchronous mode, user rate 2,4 kbit/s,<br>LLC=UDI, V.110/X.30, asynchronous mode, user rate 2,4 kbit/s  |  |
| <b>Comments:</b>                        |   |  |

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| 1310306                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 10.2<br>ETS 300 582 [40], Annex B.1.2;<br>B 2.2  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/UDI/TC1310306   |  |
| <b>PLMN selection criteria origin.:</b> | UDI, asynchronous mode, BS 25   |  |
| <b>PLMN selection criteria term.:</b>   | UDI, asynchronous mode, BS 25   |  |
| <b>Test purpose:</b>                    | Support of terminal adapters V.110/X.30 Ensure that the GSM-BC = UDI, V.110/X.30, asynchronous mode, user rate 4,8 kbit/s is correctly mapped and the LLC = UDI, V.110/X.30, asynchronous mode, user rate 4,8 kbit/s is correctly delivered to the called user. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC = UDI, V.110/X.30, asynchronous mode, user rate 4,8 kbit/s,<br>LLC=UDI, V.110/X.30, asynchronous mode, user rate 4,8 kbit/s  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC = UDI, V.110/X.30, asynchronous mode, user rate 4,8 kbit/s,<br>LLC=UDI, V.110/X.30, asynchronous mode, user rate 4,8 kbit/s  |  |
| <b>Comments:</b>                        |   |  |

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| 1310307                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 10.2<br>ETS 300 582 [40], Annex B.1.2;<br>B 2.2  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/UDI /TC1310307  |  |
| <b>PLMN selection criteria origin.:</b> | UDI, asynchronous mode, BS 26   |  |
| <b>PLMN selection criteria term.:</b>   | UDI, asynchronous mode, BS 26   |  |
| <b>Test purpose:</b>                    | Support of terminal adapters V.110/X.30 Ensure that the GSM-BC = UDI, V.110/X.30, asynchronous mode, user rate 9,6 kbit/s is correctly mapped and the LLC = UDI, V.110/X.30, asynchronous mode, user rate 9,6 kbit/s is correctly delivered to the called user. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC = UDI, V.110/X.30, asynchronous mode, user rate 9,6 kbit/s,<br>LLC=UDI, V.110/X.30, asynchronous mode, user rate 9,6 kbit/s  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC = UDI, V.110/X.30, asynchronous mode, user rate 9,6 kbit/s,<br>LLC=UDI, V.110/X.30, asynchronous mode, user rate 9,6 kbit/s  |  |
| <b>Comments:</b>                        |   |  |

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| 1310308                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 10.2<br>ETS 300 582 [40], Annex B.1.3;<br>B 2.3                      |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/UDI/TC1310308   |  |
| <b>PLMN selection criteria origin.:</b> | UDI, synchronous mode, BS 31  |  |
| <b>PLMN selection criteria term.:</b>   | UDI, synchronous mode, BS 31  |  |
| <b>Test purpose:</b>                    | Support of terminal adapters V.110/X.30. Ensure that the GSM-BC = UDI, V.110/X.30, synchronous mode, user rate 1,2 kbit/s is correctly mapped to the called user. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC = UDI, V.110/X.30, synchronous mode, user rate 1,2 kbit/s, no LLC  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC = UDI, V.110/X.30, synchronous mode, user rate 1,2 kbit/s, no LLC  |  |
| <b>Comments:</b>                        |   |  |

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| 1310309                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 10.2<br>ETS 300 582 [40], Annex B.1.3;<br>B 2.3  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/UDI/TC1310309   |  |
| <b>PLMN selection criteria origin.:</b> | UDI, synchronous mode, BS 31  |  |
| <b>PLMN selection criteria term.:</b>   | UDI, synchronous mode, BS 31  |  |
| <b>Test purpose:</b>                    | Support of terminal adapters V.110/X.30 Ensure that the GSM-BC = UDI, V.110/X.30, synchronous mode, user rate 1,2 kbit/s is correctly mapped and the LLC = UDI, V.110/X.30, synchronous mode, user rate 1,2 kbit/s is correctly delivered to the called user. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC = UDI, V.110/X.30, synchronous mode, user rate 1,2 kbit/s,<br>LLC=UDI, V.110/X.30, synchronous mode, user rate 1,2 kbit/s  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC = UDI, V.110/X.30, synchronous mode, user rate 1,2 kbit/s,<br>LLC=UDI, V.110/X.30, synchronous mode, user rate 1,2 kbit/s  |  |
| <b>Comments:</b>                        |   |  |

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| 1310310                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 10.2<br>ETS 300 582 [40], Annex B.1.2;<br>B 2.2  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/UDI/TC1310310   |  |
| <b>PLMN selection criteria origin.:</b> | UDI, synchronous mode, BS 32  |  |
| <b>PLMN selection criteria term.:</b>   | UDI, synchronous mode, BS 32  |  |
| <b>Test purpose:</b>                    | Support of terminal adapters V.110/X.30 Ensure that the GSM-BC = UDI, V.110/X.30, synchronous mode, user rate 2,4 kbit/s is correctly mapped and the LLC = UDI, V.110/X.30, synchronous mode, user rate 2,4 kbit/s is correctly delivered to the called user. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC = UDI, V.110/X.30, synchronous mode, user rate 2,4 kbit/s,<br>LLC=UDI, V.110/X.30, synchronous mode, user rate 2,4 kbit/s  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC = UDI, V.110/X.30, synchronous mode, user rate 2,4 kbit/s,<br>LLC=UDI, V.110/X.30, synchronous mode, user rate 2,4 kbit/s  |  |
| <b>Comments:</b>                        |   |  |

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| 1310311                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 10.2<br>ETS 300 582 [40], Annex B.1.2;<br>B 2.2  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/UDI/TC1310311   |  |
| <b>PLMN selection criteria origin.:</b> | UDI, synchronous mode, BS 33  |  |
| <b>PLMN selection criteria term.:</b>   | UDI, synchronous mode, BS 33  |  |
| <b>Test purpose:</b>                    | Support of terminal adapters V.110/X.30 Ensure that the GSM-BC = UDI, V.110/X.30, synchronous mode, user rate 4,8 kbit/s is correctly mapped and the LLC = UDI, V.110/X.30, synchronous mode, user rate 4,8 kbit/s is correctly delivered to the called user. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC = UDI, V.110/X.30, synchronous mode, user rate 4,8 kbit/s,<br>LLC=UDI, V.110/X.30, synchronous mode, user rate 4,8 kbit/s  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC = UDI, V.110/X.30, synchronous mode, user rate 4,8 kbit/s,<br>LLC=UDI, V.110/X.30, synchronous mode, user rate 4,8 kbit/s  |  |
| <b>Comments:</b>                        |   |  |

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| 1310312                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 10.2<br>ETS 300 582 [40], Annex B.1.2;<br>B 2.2  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/UDI /TC1310312  |  |
| <b>PLMN selection criteria origin.:</b> | UDI, synchronous mode, BS 34  |  |
| <b>PLMN selection criteria term.:</b>   | UDI, synchronous mode, BS 34  |  |
| <b>Test purpose:</b>                    | Support of terminal adapters V.110/X.30 Ensure that the GSM-BC = UDI, V.110/X.30, synchronous mode, user rate 9,6 kbit/s is correctly mapped and the LLC = UDI, V.110/X.30, synchronous mode, user rate 9,6 kbit/s is correctly delivered to the called user. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC = UDI, V.110/X.30, synchronous mode, user rate 9,6 kbit/s,<br>LLC=UDI, V.110/X.30, synchronous mode, user rate 9,6 kbit/s  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC = UDI, V.110/X.30, synchronous mode, user rate 9,6 kbit/s,<br>LLC=UDI, V.110/X.30, synchronous mode, user rate 9,6 kbit/s  |  |
| <b>Comments:</b>                        |   |  |

|                   |
|-------------------|
| Successful        |
| Facsimile group 3 |

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|---|---|--|
| 1310401                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 10.2.2<br>ETS 300 582 [40], Annex<br>B.1.1.1               |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/Facsimile G3/TC1310401  |  |
| <b>PLMN selection criteria origin.:</b> | TS 62   |  |
| <b>PLMN selection criteria term.</b>    | TS 62   |  |
| <b>Test purpose:</b>                    | Support of Telefax G3. Ensure that call establishment and the call clearing procedure is performed correctly when the calling user clears after answer. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC= facsimile G3, no HLC  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC= facsimile G3, HLC = Facsimile G2/G3   |  |
| <b>Comments:</b>                        |   |  |

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| 1310402                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 10.2.2<br>ETS 300 582 [40], Annex<br>B.1.1.1; B 2.11      |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/Facsimile G3/TC1310402   |  |
| <b>PLMN selection criteria origin.:</b> | TS 62  |  |
| <b>PLMN selection criteria term.</b>    | TS 62  |  |
| <b>Test purpose:</b>                    | Support of Telefax G3. Ensure that call establishment and the call clearing procedure is performed correctly when the called user clears after answer. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC= facsimile G3, HLC = Facsimile G2/G3  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC= facsimile G3, HLC = Facsimile G2/G3  |  |
| <b>Comments:</b>                        |  |  |

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| 1310403                                | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2.1<br>ETS 300 604 [42],<br>subclause 10.2<br>ETS 300 582 [40], Annex<br>B.1.11  |  |
| <b>TSS reference:</b>                  | PLMN-PLMN/Basic_call/Successful/Facsimile G3/TC1310403  |  |
| <b>PLMN selection criteria origin.</b> | TS 62   |  |
| <b>PLMN selection criteria origin.</b> | TS 62   |  |
| <b>Test purpose:</b>                   | Support of Telefax G3. Ensure that the GSM BC-IE representing facsimile group 3 is correctly delivered (mapped to ISDN-BC= 3,1 kHz audio over the ISUP and mapped again to GSM-BC= facsimile G3). The HLC "facsimile G2/G3" inserted by the network is also delivered to the called user. |  |
| <b>PLMN parameter values origin.:</b>  | GSM-BC= facsimile G3, no HLC  |  |
| <b>PLMN parameter values term.:</b>    | GSM-BC= facsimile G3, HLC = Facsimile G2/G3   |  |
| <b>Comments:</b>                       |   |  |

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| 1310404                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2.1<br>ETS 300 604 [42],<br>subclause 10.2.2<br>ETS 300 582 [40], Annex<br>B.1.11, B.2.11  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/Facsimile G3/TC1310404  |  |
| <b>PLMN selection criteria origin.:</b> | TS 62   |  |
| <b>PLMN selection criteria term.:</b>   | TS 62   |  |
| <b>Test purpose:</b>                    | Support of Telefax G3. Ensure that the GSM BC-IE representing facsimile group 3 is correctly delivered (mapped to ISDN-BC= 3,1 kHz audio over the ISUP and mapped again to GSM-BC= facsimile G3). The HLC "facsimile G2/G3" received from the MS is delivered to the called user. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC= facsimile G3, HLC = Facsimile G2/G3   |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC= facsimile G3, HLC = Facsimile G2/G3   |  |
| <b>Comments:</b>                        |   |  |

Successful

Alternate speech and facsimile group 3



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| 1310501                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2.1<br>ETS 300 604 [42],<br>subclause 10.2.2<br>ETS 300 582 [40], Annex<br>B.1.10 |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/Alternate speech and facsimile G3/<br>TC1310501  |  |
| <b>PLMN selection criteria origin.:</b> | TS 61  |  |
| <b>PLMN selection criteria term.:</b>   | TS 61  |  |
| <b>Test purpose:</b>                    | Ensure that call establishment and the call clearing procedure is performed correctly when the calling user clears after answer.           |  |
| <b>PLMN parameter values origin.:</b>   | first GSM-BC=speech<br>second GSM-BC= facsimile G3, no HLC   |  |
| <b>PLMN parameter values term.:</b>     | first GSM-BC=speech<br>second GSM-BC = facsimile G3, no HLC  |  |
| <b>Comments:</b>                        | The call set-up to the mobile will contain a GSM BC mapped from the BC/LLC/HLC stored in the VLR   |  |

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| 1310502                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2.1<br>ETS 300 604 [42],<br>subclause 10.2.2<br>ETS 300 582 [40], Annex<br>B.1.10                 |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/Alternate speech and facsimile G3/<br>TC1310502  |  |
| <b>PLMN selection criteria origin.:</b> | TS 61  |  |
| <b>PLMN selection criteria term.:</b>   | Single numbering Scheme, TS 61   |  |
| <b>Test purpose:</b>                    | Ensure that call establishment (single-numbering scheme) and the call clearing procedure is performed correctly when the calling user clears after answer. |  |
| <b>PLMN parameter values origin.:</b>   | first GSM-BC=speech<br>second GSM-BC= facsimile G3, no HLC   |  |
| <b>PLMN parameter values term.:</b>     |  |  |
| <b>Comments:</b>                        | In case of "single numbering" the call set-up to the mobile will not contain a GSM-BC element  |  |

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| 1310503                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2.1<br>ETS 300 604 [42],<br>subclause 10.2.2<br>ETS 300 582 [40], Annex<br>B.1.10 |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/Alternate speech and facsimile G3/<br>TC1310503  |  |
| <b>PLMN selection criteria origin.:</b> | TS 61  |  |
| <b>PLMN selection criteria term.:</b>   | TS 61  |  |
| <b>Test purpose:</b>                    | Ensure that call establishment and the call clearing procedure is performed correctly when the calling user clears after answer.           |  |
| <b>PLMN parameter values origin.:</b>   | first GSM-BC= facsimile G3, no HLC<br>second GSM-BC= speech  |  |
| <b>PLMN parameter values term.:</b>     | first GSM-BC=speech<br>second GSM-BC = facsimile G3  |  |
| <b>Comments:</b>                        |  |  |

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|---|---|--|
| 1310504                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2.1<br>ETS 300 604 [42],<br>subclause 10.2.2<br>ETS 300 582 [40], Annex<br>B.1.10                |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/Alternate speech and facsimile G3/<br>TC1310504   |  |
| <b>PLMN selection criteria origin.:</b> | TS 61   |  |
| <b>PLMN selection criteria term.:</b>   | Single numbering Scheme, TS 61  |  |
| <b>Test purpose:</b>                    | Ensure that call establishment (single-numbering scheme)and the call clearing procedure is performed correctly when the calling user clears after answer. |  |
| <b>PLMN parameter values origin.:</b>   | first GSM-BC= facsimile G3, no HLC<br>second GSM-BC= speech   |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC= facsimile G3, HLC = Facsimile G2/G3   |  |
| <b>Comments:</b>                        |   |  |

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| 1310505                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 10.2.2<br>ETS 300 582 [40], Annex<br>B.1.10 |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/Alternate speech and facsimile G3/<br>TC1310505  |  |
| <b>PLMN selection criteria origin.:</b> | TS 61  |  |
| <b>PLMN selection criteria term.:</b>   | TS 61  |  |
| <b>Test purpose:</b>                    | Ensure that call establishment and the call clearing procedure is performed correctly when the called user clears after answer.          |  |
| <b>PLMN parameter values origin.:</b>   | first GSM-BC=speech<br>second GSM-BC= facsimile G3, no HLC   |  |
| <b>PLMN parameter values term.:</b>     | User A and user B are subscribed to different PLMN's<br>first GSM-BC=speech<br>second GSM-BC= facsimile G3, no HLC                       |  |
| <b>Comments:</b>                        | The call set-up to the mobile will contain a GSM BC mapped from the BC/LLC/HLC stored in the VLR.  |  |

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| 1310506                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2.1<br>ETS 300 604 [42],<br>subclause 10.2.2<br>ETS 300 582 [40], Annex<br>B.1.10                |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/Alternate speech and facsimile G3/<br>TC1310506   |  |
| <b>PLMN selection criteria origin.:</b> | TS 61   |  |
| <b>PLMN selection criteria term.:</b>   | Single numbering Scheme, TS 61  |  |
| <b>Test purpose:</b>                    | Ensure that call establishment (single-numbering scheme) and the call clearing procedure is performed correctly when the called user clears after answer. |  |
| <b>PLMN parameter values origin.:</b>   | first GSM-BC=speech<br>second GSM-BC= facsimile G3, no HLC  |  |
| <b>PLMN parameter values term.:</b>     |   |  |
| <b>Comments:</b>                        | In case of "single numbering" the call set-up to the mobile will not contain a GSM-BC element   |  |

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| 1310507                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2.1<br>ETS 300 604 [42],<br>subclause 10.2.2<br>ETS 300 582 [40], Annex<br>B.1.10 |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/Alternate speech and facsimile G3/<br>TC1310507  |  |
| <b>PLMN selection criteria origin.:</b> | TS 61  |  |
| <b>PLMN selection criteria term.:</b>   | TS 61  |  |
| <b>Test purpose:</b>                    | Ensure that call establishment and the call clearing procedure is performed correctly when the called user clears after answer.            |  |
| <b>PLMN parameter values origin.:</b>   | first GSM-BC= facsimile G3, no HLC<br>second GSM-BC= speech  |  |
| <b>PLMN parameter values term.:</b>     | first GSM-BC=speech<br>second GSM-BC = facsimile G3  |  |
| <b>Comments:</b>                        |  |  |

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| 1310508                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2.1<br>ETS 300 604 [42],<br>subclause 10.2.2<br>ETS 300 582 [40], Annex<br>B.1.10                |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/Alternate speech and facsimile G3/<br>TC1310508   |  |
| <b>PLMN selection criteria origin.:</b> | TS 61   |  |
| <b>PLMN selection criteria term.:</b>   | Single numbering Scheme, TS 61  |  |
| <b>Test purpose:</b>                    | Ensure that call establishment (single-numbering scheme) and the call clearing procedure is performed correctly when the called user clears after answer. |  |
| <b>PLMN parameter values origin.:</b>   | first GSM-BC= facsimile G3, no HLC<br>second GSM-BC= speech   |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC= facsimile G3, HLC = Facsimile G2/G3   |  |
| <b>Comments:</b>                        |   |  |

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| 1310509                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 10.2.2<br>ETS 300 582 [40], Annex<br>B.1.10  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/Alternate speech and facsimile G3/<br>TC1310509   |  |
| <b>PLMN selection criteria origin.:</b> | TS 61   |  |
| <b>PLMN selection criteria term.:</b>   | TS 61   |  |
| <b>Test purpose:</b>                    | Ensure that the repeated GSM BC-IE (preceded by a repeat indicator "circular"), the first indicating "speech" and the second indicating the service "facsimile G3" are correctly delivered (mapped to ISDN-BC= 3,1 kHz audio over the ISUP and mapped again to first GSM-BC=speech<br><br>second GSM-BC= facsimile G3, no HLC). |  |
| <b>PLMN parameter values origin.:</b>   | first GSM-BC=speech<br><br>second GSM-BC= facsimile G3, no HLC  |  |
| <b>PLMN parameter values term.:</b>     | first GSM-BC=speech<br><br>second GSM-BC= facsimile G3, no HLC  |  |
| <b>Comments:</b>                        | The call set-up to the mobile will contain a GSM BC mapped from the BC/LLC/HLC stored in the VLR<br><br>The MODIFY message in not transmitted over the ISUP.  |  |

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| 1310510                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 10.2.2<br>ETS 300 582 [40], Annex<br>B.1.10   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/Alternate speech and facsimile G3/<br>TC1310510  |  |
| <b>PLMN selection criteria origin.:</b> | TS 61  |  |
| <b>PLMN selection criteria term.:</b>   | Single numbering Scheme, TS 61   |  |
| <b>Test purpose:</b>                    | Ensure that the repeated GSM BC-IE (preceded by a repeat indicator "circular"), the first indicating "speech" and the second indicating the service "facsimile G3" are correctly mapped (to ISDN-BC= 3,1 kHz audio over the ISUP) and the call set-up to the MS (single-numbering scheme) will not contain a GSM BC element. |  |
| <b>PLMN parameter values origin.:</b>   | first GSM-BC=speech<br>second GSM-BC= facsimile G3, no HLC   |  |
| <b>PLMN parameter values term.:</b>     |  |  |
| <b>Comments:</b>                        | The call set-up to the mobile will not contain a GSM BC element<br>The MODIFY message is not transmitted over the ISUP.  |  |

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| 13105011                                | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 10.2.2<br>ETS 300 582 [40], Annex<br>B.1.10  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/Alternate speech and facsimile G3/<br>TC1310511   |  |
| <b>PLMN selection criteria origin.:</b> | TS 61   |  |
| <b>PLMN selection criteria term.:</b>   | TS 61, User A and user B are subscribed to the same PLMN and user B is roaming in a VPLMN (Visited PLMN)  |  |
| <b>Test purpose:</b>                    | User A and user B are subscribed to the same PLMN and user B is roaming in a VPLMN (Visited PLMN). Ensure that the repeated GSM BC-IE (preceded by a repeat indicator "circular"), the first indicating "speech" and the second indicating the service "facsimile G3" are correctly delivered to the called user. |  |
| <b>PLMN parameter values origin.:</b>   | first GSM-BC=speech<br>second GSM-BC= facsimile G3, no HLC  |  |
| <b>PLMN parameter values term.:</b>     | first GSM-BC=speech<br>second GSM-BC= facsimile G3, no HLC  |  |
| <b>Comments:</b>                        |   |  |

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| 1310512                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 9.2.2 b 10.2.2<br>ETS 300 582 [40], Annex<br>B.1.10  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/Alternate speech and facsimile G3/<br>TC1310512   |  |
| <b>PLMN selection criteria origin.:</b> | TS 61   |  |
| <b>PLMN selection criteria term.:</b>   | TS 61   |  |
| <b>Test purpose:</b>                    | Ensure that the repeated GSM BC-IE (preceded by a repeat indicator "circular"), the first indicating "speech" and the second indicating the service "facsimile G3" are correctly delivered (mapped to ISDN-BC= 3,1 kHz audio over the ISUP and mapped again to first GSM-BC=speech<br><br>second GSM-BC= facsimile G3, no HLC). |  |
| <b>PLMN parameter values origin.:</b>   | first GSM-BC=speech<br><br>second GSM-BC= facsimile G3, HLC= Facsimile G2/G3  |  |
| <b>PLMN parameter values term.:</b>     | first GSM-BC=speech<br><br>second GSM-BC= facsimile G3, no HLC  |  |
| <b>Comments:</b>                        | The call set-up to the mobile will contain a GSM BC mapped from the BC/LLC/HLC stored in the VLR<br><br>The MODIFY message in not transmitted over the ISUP.  |  |



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| 1310513                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 9.2.2 b 10.2.2<br>ETS 300 582 [40], Annex<br>B.1.10   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/Alternate speech and facsimile G3/<br>TC1310513  |  |
| <b>PLMN selection criteria origin.:</b> | TS 61  |  |
| <b>PLMN selection criteria term.:</b>   | Single numbering Scheme, TS 61   |  |
| <b>Test purpose:</b>                    | Ensure that the repeated GSM BC-IE (preceded by a repeat indicator "circular"), the first indicating "speech" and the second indicating the service "facsimile G3" are correctly mapped (to ISDN-BC= 3,1 kHz audio over the ISUP) and the call set-up to the MS (single-numbering scheme) will not contain a GSM BC element. |  |
| <b>PLMN parameter values origin.:</b>   | first GSM-BC=speech<br>second GSM-BC= facsimile G3, HLC= Facsimile G2/G3   |  |
| <b>PLMN parameter values term.:</b>     |  |  |
| <b>Comments:</b>                        | The call set-up to the mobile will not contain a GSM BC element<br><br>The MODIFY message is not transmitted over the ISUP.  |  |

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| 1310514                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 10.2.2<br>ETS 300 582 [40], Annex<br>B.1.10  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/Alternate speech and facsimile G3/<br>TC1310514   |  |
| <b>PLMN selection criteria origin.:</b> | TS 61   |  |
| <b>PLMN selection criteria term.:</b>   | TS 61, User A and user B are subscribed to the same PLMN and user B is roaming in a VPLMN (Visited PLMN)  |  |
| <b>Test purpose:</b>                    | User A and user B are subscribed to the same PLMN and user B is roaming in a VPLMN (Visited PLMN). Ensure that the repeated GSM BC-IE (preceded by a repeat indicator "circular"), the first indicating "speech" and the second indicating the service "facsimile G3" are correctly delivered to the called user. |  |
| <b>PLMN parameter values origin.:</b>   | first GSM-BC=speech<br>second GSM-BC= facsimile G3, HLC= Facsimile G2/G3  |  |
| <b>PLMN parameter values term.:</b>     | first GSM-BC=speech<br>second GSM-BC= facsimile G3, HLC= Facsimile G2/G3  |  |
| <b>Comments:</b>                        |   |  |

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| 1310515                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 10.2.2<br>ETS 300 582 [40], Annex<br>B.1.10   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/Alternate speech and facsimile G3/<br>TC1310515  |  |
| <b>PLMN selection criteria origin.:</b> | TS 61  |  |
| <b>PLMN selection criteria term.:</b>   | TS 61  |  |
| <b>Test purpose:</b>                    | Ensure that the repeated GSM BC-IE (preceded by a repeat indicator "circular"), the first indicating "facsimile G3" and the second indicating the service "speech" are correctly delivered (mapped to ISDN-BC= 3,1 kHz audio with the HLC = Facsimile G2/G3 over the ISUP and mapped again to first GSM-BC=speech, second GSM-BC= facsimile G3). |  |
| <b>PLMN parameter values origin.:</b>   | first GSM-BC= GSM-BC= facsimile G3, no HLC<br>second speech  |  |
| <b>PLMN parameter values term.:</b>     | first GSM-BC=speech<br>second GSM-BC= facsimile G3, no HLC   |  |
| <b>Comments:</b>                        | The call set-up to the mobile will contain a GSM BC mapped from the BC/LLC/HLC stored in the VLR<br><br>The MODIFY message in not transmitted over the ISUP.   |  |

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| 1310516                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 10.2.2<br>ETS 300 582 [40], Annex<br>B.1.10  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/Alternate speech and facsimile G3/<br>TC1310516   |  |
| <b>PLMN selection criteria origin.:</b> | TS 61   |  |
| <b>PLMN selection criteria term.:</b>   | Single numbering Scheme, TS 61  |  |
| <b>Test purpose:</b>                    | Ensure that the repeated GSM BC-IE (preceded by a repeat indicator "circular"), the first indicating "facsimile G3" and the second indicating the service "speech" are correctly mapped to ISDN-BC= 3,1 kHz audio with the HLC = Facsimile G2/G3 (single-numbering scheme). |  |
| <b>PLMN parameter values origin.:</b>   | first GSM-BC = facsimile G3, no HLC<br>second GSM-BC=speech   |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC= facsimile G3, HLC = Facsimile G2/G3   |  |
| <b>Comments:</b>                        | The MODIFY message is not transmitted over the ISUP.  |  |

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| 13105017                                | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 10.2.2<br>ETS 300 582 [40], Annex<br>B.1.10  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/Alternate speech and facsimile G3/<br>TC1310517   |  |
| <b>PLMN selection criteria origin.:</b> | TS 61   |  |
| <b>PLMN selection criteria term.:</b>   | TS 61, User A and user B are subscribed to the same PLMN and user B is roaming in a VPLMN (Visited PLMN)  |  |
| <b>Test purpose:</b>                    | User A and user B are subscribed to the same PLMN and user B is roaming in a VPLMN (Visited PLMN). Ensure that the repeated GSM BC-IE (preceded by a repeat indicator "circular"), the first indicating "facsimile G3" and the second indicating the service "speech" are correctly delivered to the called user. |  |
| <b>PLMN parameter values origin.:</b>   | first GSM-BC = facsimile G3, no HLC<br>second GSM-BC=speech   |  |
| <b>PLMN parameter values term.:</b>     | first GSM-BC = facsimile G3<br>second GSM-BC=speech   |  |
| <b>Comments:</b>                        |   |  |

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| 1310518                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 9.2.2 b 10.2.2<br>ETS 300 582 [40], Annex<br>B.1.10  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/Alternate speech and facsimile G3/<br>TC1310518   |  |
| <b>PLMN selection criteria origin.:</b> | TS 61   |  |
| <b>PLMN selection criteria term.:</b>   | TS 61   |  |
| <b>Test purpose:</b>                    | Ensure that the repeated GSM BC-IE (preceded by a repeat indicator "circular"), the first indicating "facsimile G3" with the HLC= Facsimile G2/G3 and the second indicating the service "speech" are correctly delivered (mapped to ISDN-BC= 3,1 kHz audio with the HLC = Facsimile G2/G3 over the ISUP and mapped again to first GSM-BC=speech, second<br><br>GSM-BC= facsimile G3). |  |
| <b>PLMN parameter values origin.:</b>   | first GSM-BC = Facsimile G3, HLC= Facsimile G2/G3<br><br>second GSM-BC=speech   |  |
| <b>PLMN parameter values term.:</b>     | first GSM-BC=speech<br><br>second GSM-BC= facsimile G3, no HLC  |  |
| <b>Comments:</b>                        | The call set-up to the mobile will contain a GSM BC mapped from the BC/LLC/HLC stored in the VLR<br><br>The MODIFY message is not transmitted over the ISUP.  |  |

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| 1310519                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 9.2.2 b 10.2.2<br>ETS 300 582 [40], Annex<br>B.1.10   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/Alternate speech and facsimile G3/<br>TC1310519  |  |
| <b>PLMN selection criteria origin.:</b> | TS 61  |  |
| <b>PLMN selection criteria term.:</b>   | Single numbering Scheme, TS 61   |  |
| <b>Test purpose:</b>                    | Ensure that the repeated GSM BC-IE (preceded by a repeat indicator "circular"), the first indicating "facsimile G3" and the second indicating the service "speech" are correctly mapped to ISDN-BC= 3,1 kHz audio with the HLC = Facsimile G2/G3(single-numbering scheme). |  |
| <b>PLMN parameter values origin.:</b>   | first GSM-BC = Facsimile G3, HLC = Facsimile G2/G3<br>second GSM-BC=speech   |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC= facsimile G3, HLC= Facsimile G2/G3   |  |
| <b>Comments:</b>                        | The MODIFY message is not transmitted over the ISUP.   |  |

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| 1310520                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 10.2.2<br>ETS 300 582 [40], Annex<br>B.1.10  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/Alternate speech and facsimile G3/<br>TC1310520   |  |
| <b>PLMN selection criteria origin.:</b> | TS 61   |  |
| <b>PLMN selection criteria term.:</b>   | TS 61, User A and user B are subscribed to the same PLMN and user B is roaming in a VPLMN (Visited PLMN)  |  |
| <b>Test purpose:</b>                    | User A and user B are subscribed to the same PLMN and user B is roaming in a VPLMN (Visited PLMN). Ensure that the repeated GSM BC-IE (preceded by a repeat indicator "circular"), the first indicating "facsimile G3" and the second indicating the service "speech" are correctly delivered to the called user. |  |
| <b>PLMN parameter values origin.:</b>   | first GSM-BC= GSM-BC= facsimile G3, HLC= Facsimile G2/G3<br>second GSM-BC=speech  |  |
| <b>PLMN parameter values term.:</b>     | first GSM-BC= GSM-BC= facsimile G3, HLC= Facsimile G2/G3<br>second GSM-BC=speech  |  |
| <b>Comments:</b>                        |   |  |

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|-------------------------|
| Successful              |
| Alternate Speech / Data |

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| 1310601                               | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 10.2.2<br>ETS 300 582 [40], Annex B.1.6 |  |
| <b>TSS reference:</b>                 | PLMN-PLMN/Basic_call/Successful/Alternate speech and data/TC1310601  |  |
| <b>PLMN selection criteria act:</b>   | BS 61  |  |
| <b>PLMN selection criteria term.:</b> | BS 61  |  |
| <b>Test purpose:</b>                  | Ensure that call establishment and the call clearing procedure is performed correctly when the calling user clears after answer.     |  |
| <b>PLMN parameter values origin.:</b> | first GSM-BC=speech<br>second GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem  |  |
| <b>PLMN parameter values term.:</b>   | first GSM-BC=speech<br>second GSM-BC=3,1 kHz audio ex PLMN   |  |
| <b>Comments:</b>                      | The call set-up to the mobile will contain a GSM BC mapped from the BC/LLC/HLC stored in the VLR                                     |  |

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| 1310602                               | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 10.2.2<br>ETS 300 582 [40], Annex B.1.6                       |  |
| <b>TSS reference:</b>                 | PLMN-PLMN/Basic_call/Successful/Alternate speech and data/TC1310602  |  |
| <b>PLMN selection criteria act:</b>   | BS 61  |  |
| <b>PLMN selection criteria term.:</b> | Single numbering Scheme, BS 61   |  |
| <b>Test purpose:</b>                  | Ensure that call establishment (single-numbering scheme) and the call clearing procedure is performed correctly when the calling user clears after answer. |  |
| <b>PLMN parameter values origin.:</b> | first GSM-BC=speech<br>second GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem  |  |
| <b>PLMN parameter values term.:</b>   |  |  |
| <b>Comments:</b>                      | In case of "single numbering" the call set-up to the mobile will not contain a GSM-BC element  |  |

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| 1310603                               | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 10.2.2<br>ETS 300 582 [40], Annex B.1.6 |  |
| <b>TSS reference:</b>                 | PLMN-PLMN/Basic_call/Successful/Alternate speech and data/TC1310603  |  |
| <b>PLMN selection criteria act:</b>   | BS 61  |  |
| <b>PLMN selection criteria term.:</b> | BS 61  |  |
| <b>Test purpose:</b>                  | Ensure that call establishment and the call clearing procedure is performed correctly when the called user clears after answer.      |  |
| <b>PLMN parameter values origin.:</b> | first GSM-BC=speech<br>second GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem  |  |
| <b>PLMN parameter values term.:</b>   | first GSM-BC=speech<br>second GSM-BC=3,1 kHz audio ex PLMN   |  |
| <b>Comments:</b>                      | The call set-up to the mobile will contain a GSM BC mapped from the BC/LLC/HLC stored in the VLR                                     |  |

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| 1310604                               | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 10.2.2<br>ETS 300 582 [40], Annex B.1.6                      |  |
| <b>TSS reference:</b>                 | PLMN-PLMN/Basic_call/Successful/Alternate speech and data/TC1310604   |  |
| <b>PLMN selection criteria act:</b>   | BS 61   |  |
| <b>PLMN selection criteria term.:</b> | Single numbering Scheme, BS 61  |  |
| <b>Test purpose:</b>                  | Ensure that call establishment (single-numbering scheme) and the call clearing procedure is performed correctly when the called user clears after answer. |  |
| <b>PLMN parameter values origin.:</b> | first GSM-BC=speech<br>second GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem   |  |
| <b>PLMN parameter values term.:</b>   |   |  |
| <b>Comments:</b>                      | In case of "single numbering" the call set-up to the mobile will not contain a GSM-BC element   |  |



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| 1310605                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 10.2.2<br>ETS 300 582 [40], B 1.6  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/Alternate speech and data/TC1310605   |  |
| <b>PLMN selection criteria origin.:</b> | BS 61   |  |
| <b>PLMN selection criteria term.:</b>   | BS 61   |  |
| <b>Test purpose:</b>                    | Ensure that the repeated GSM BC-IEs preceded by a repeat indicator "circular" are correctly delivered (mapped to ISDN-BC= 3,1 kHz audio over the ISUP and mapped again to first GSM-BC=speech, second GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 1,2 kbit/s). |  |
| <b>PLMN parameter values origin.:</b>   | first GSM-BC=speech<br><br>second GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 1,2 kbit/s,  |  |
| <b>PLMN parameter values term.:</b>     | first GSM-BC=speech<br><br>second GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 1,2 kbit/s   |  |
| <b>Comments:</b>                        | The call set-up to the mobile will contain a GSM BC mapped from the BC/LLC/HLC stored in the VLR<br><br>The MODIFY message in not transmitted over the ISUP.  |  |

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| 1310606                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 10.2.2<br>ETS 300 582 [40], B 1.6  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/Alternate speech and data/TC1310606   |  |
| <b>PLMN selection criteria origin.:</b> | BS 61   |  |
| <b>PLMN selection criteria term.:</b>   | Single numbering Scheme, BS 61  |  |
| <b>Test purpose:</b>                    | Ensure that the repeated GSM BC-ies preceded by a repeat indicator "circular" are correctly delivered (mapped to ISDN-BC= 3,1 kHz audio over the ISUP) and the call set-up to the MS (single-numbering scheme) will not contain a GSM BC element. |  |
| <b>PLMN parameter values origin.:</b>   | first GSM-BC=speech<br><br>second GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 1,2 kbit/s,  |  |
| <b>PLMN parameter values term.:</b>     |   |  |
| <b>Comments:</b>                        | In case of "single numbering" the call set-up to the mobile will not contain a GSM-BC element<br><br>The MODIFY message in not transmitted over the ISUP.   |  |

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| 1310607                         | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 10.2.2<br>ETS 300 582 [40], B 1.6   |  |
| <b>TSS reference:</b>           | PLMN-PLMN/Basic_call/Successful/Alternate speech and data/TC1310607  |  |
| <b>PLMN selection criteria:</b> | BS 61  |  |
| <b>PLMN selection criteria:</b> | BS 61; User A and user B are subscribed to the same PLMN and user B is roaming in a VPLMN (Visited PLMN)   |  |
| <b>Test purpose:</b>            | User A and user B are subscribed to the same PLMN and user B is roaming in a VPLMN (Visited PLMN). Ensure that the repeated GSM BC-IE (preceded by a repeat indicator "circular"), the first indicating "speech" and the second indicating the appropriate data service with the ITC"3,1 kHz audio ex PLMN are correctly delivered to the called user. |  |
| <b>PLMN parameter values:</b>   | first GSM-BC=speech<br><br>second GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 1,2 kbit/s  |  |
| <b>PLMN parameter values:</b>   | first GSM-BC=speech<br><br>second GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 1,2 kbit/s  |  |
| <b>Comments:</b>                |  |  |

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| 1310608                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 10.2.2<br>ETS 300 582 [40], B 1.6  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/Alternate speech and data/TC1310608   |  |
| <b>PLMN selection criteria origin.:</b> | BS 61   |  |
| <b>PLMN selection criteria term.:</b>   | BS 61   |  |
| <b>Test purpose:</b>                    | Ensure that the repeated GSM BC-IEs preceded by a repeat indicator "circular" are correctly delivered (mapped to ISDN-BC= 3,1 kHz audio over the ISUP and mapped again to first GSM-BC=speech, second GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 1,2 kbit/s). |  |
| <b>PLMN parameter values origin.:</b>   | first GSM-BC=speech<br><br>second GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 1,2 kbit/s,<br><br>LLC= 3,1 kHz audio, voice band data via modem, synchronous mode, user rate 1,2 kbit/s   |  |
| <b>PLMN parameter values term.:</b>     | first GSM-BC=speech<br><br>second GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 1,2 kbit/s   |  |
| <b>Comments:</b>                        | The call set-up to the mobile will contain a GSM BC mapped from the BC/LLC/HLC stored in the VLR<br><br>The MODIFY message is not transmitted over the ISUP.  |  |

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| 1310609                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 10.2.2<br>ETS 300 582 [40], B 1.6  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/Alternate speech and data/TC1310609   |  |
| <b>PLMN selection criteria origin.:</b> | BS 61   |  |
| <b>PLMN selection criteria term.:</b>   | Single numbering Scheme, BS 61  |  |
| <b>Test purpose:</b>                    | Ensure that the repeated GSM BC-les preceded by a repeat indicator "circular" are correctly delivered (mapped to ISDN-BC= 3,1 kHz audio over the ISUP) and the call set-up to the MS (single-numbering scheme) will not contain a GSM BC element. |  |
| <b>PLMN parameter values origin.:</b>   | first GSM-BC=speech<br><br>second GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 1,2 kbit/s, LLC= 3,1 kHz audio, voice band data via modem, synchronous mode, user rate 1,2 kbit/s                          |  |
| <b>PLMN parameter values term.:</b>     |   |  |
| <b>Comments:</b>                        | In case of "single numbering" the call set-up to the mobile will not contain a GSM-BC element<br><br>The MODIFY message in not transmitted over the ISUP.   |  |

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| 1310610                               | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 10.2.2<br>ETS 300 582 [40], B 1.6  |  |
| <b>TSS reference:</b>                 | PLMN-PLMN/Basic_call/Successful/Alternate speech and data/TC1310610   |  |
| <b>PLMN selection criteria term.:</b> | BS 61   |  |
| <b>PLMN selection criteria term.:</b> | BS 61; User A and user B are subscribed to the same PLMN and user B is roaming in a VPLMN (Visited PLMN)  |  |
| <b>Test purpose:</b>                  | User A and user B are subscribed to the same PLMN and user B is roaming in a VPLMN (Visited PLMN). Ensure that the repeated GSM BC-IE (preceded by a repeat indicator "circular"), the first indicating "speech" and the second indicating the appropriate data service with the ITC "3,1 kHz audio ex PLMN and LLC are correctly delivered to the called user. |  |
| <b>PLMN parameter values origin.:</b> | first GSM-BC=speech<br><br>second GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 1,2 kbit/s, LLC=3,1 kHz audio, voice band data via modem, synchronous mode, user rate 1,2 kbit/s   |  |
| <b>PLMN parameter values term.:</b>   | first GSM-BC=speech<br><br>second GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 1,2 kbit/s, LLC=3,1 kHz audio, voice band data via modem, synchronous mode, user rate 1,2 kbit/s   |  |
| <b>Comments:</b>                      |   |  |

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| 1310611                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 10.2.2<br>ETS 300 582 [40], B 1.6   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/Alternate speech and data/TC1310611  |  |
| <b>PLMN selection criteria origin.:</b> | BS 61  |  |
| <b>PLMN selection criteria term.:</b>   | BS 61  |  |
| <b>Test purpose:</b>                    | Ensure that the repeated GSM BC-IEs preceded by a repeat indicator "circular" are correctly delivered (mapped to ISDN-BC= 3,1 kHz audio over the ISUP and mapped again to first GSM-BC=speech, second GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s). |  |
| <b>PLMN parameter values origin.:</b>   | first GSM-BC=speech<br><br>second GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s,  |  |
| <b>PLMN parameter values term.:</b>     | first GSM-BC=speech<br><br>second GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s   |  |
| <b>Comments:</b>                        | The call set-up to the mobile will contain a GSM BC mapped from the BC/LLC/HLC stored in the VLR<br><br>The MODIFY message in not transmitted over the ISUP.   |  |

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| 1310612                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 10.2.2<br>ETS 300 582 [40], B 1.6  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/Alternate speech and data/TC1310612   |  |
| <b>PLMN selection criteria origin.:</b> | BS 61   |  |
| <b>PLMN selection criteria term.:</b>   | Single numbering Scheme, BS 61  |  |
| <b>Test purpose:</b>                    | Ensure that the repeated GSM BC-IEs preceded by a repeat indicator "circular" are correctly delivered (mapped to ISDN-BC= 3,1 kHz audio over the ISUP) and the call set-up to the MS (single-numbering scheme) will not contain a GSM BC element. |  |
| <b>PLMN parameter values origin.:</b>   | first GSM-BC=speech<br><br>second GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s,   |  |
| <b>PLMN parameter values term.:</b>     |   |  |
| <b>Comments:</b>                        | In case of "single numbering" the call set-up to the mobile will not contain a GSM-BC element<br><br>The MODIFY message is not transmitted over the ISUP.   |  |

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| 1310613                         | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 10.2.2<br>ETS 300 582 [40], B 1.6  |  |
| <b>TSS reference:</b>           | PLMN-PLMN/Basic_call/Successful/Alternate speech and data/TC1310613   |  |
| <b>PLMN selection criteria:</b> | BS 61   |  |
| <b>PLMN selection criteria:</b> | BS 61; User A and user B are subscribed to the same PLMN and user B is roaming in a VPLMN (Visited PLMN)  |  |
| <b>Test purpose:</b>            | User A and user B are subscribed to the same PLMN and user B is roaming in a VPLMN (Visited PLMN). Ensure that the repeated GSM BC-IE (preceded by a repeat indicator "circular"), the first indicating "speech" and the second indicating the appropriate data service with the ITC "3,1 kHz audio ex PLMN are correctly delivered to the called user. |  |
| <b>PLMN parameter values:</b>   | first GSM-BC=speech<br><br>second GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s  |  |
| <b>PLMN parameter values:</b>   | first GSM-BC=speech<br><br>second GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s  |  |
| <b>Comments:</b>                |   |  |

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| 1310614                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 10.2.2<br>ETS 300 582 [40], B 1.6   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/Alternate speech and data/TC1310614  |  |
| <b>PLMN selection criteria origin.:</b> | BS 61  |  |
| <b>PLMN selection criteria term.:</b>   | BS 61  |  |
| <b>Test purpose:</b>                    | Ensure that the repeated GSM BC-IEs preceded by a repeat indicator "circular" are correctly delivered (mapped to ISDN-BC= 3,1 kHz audio over the ISUP and mapped again to first GSM-BC=speech, second GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s). |  |
| <b>PLMN parameter values origin.:</b>   | first GSM-BC=speech<br><br>second GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s,<br><br>LLC= 3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s  |  |
| <b>PLMN parameter values term.:</b>     | first GSM-BC=speech<br><br>second GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s   |  |
| <b>Comments:</b>                        | The call set-up to the mobile will contain a GSM BC mapped from the BC/LLC/HLC stored in the VLR<br><br>The MODIFY message is not transmitted over the ISUP.   |  |



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| 1310615                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 10.2.2<br>ETS 300 582 [40], B 1.6  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/Alternate speech and data/TC1310615   |  |
| <b>PLMN selection criteria origin.:</b> | BS 61   |  |
| <b>PLMN selection criteria term.:</b>   | Single numbering Scheme, BS 61  |  |
| <b>Test purpose:</b>                    | Ensure that the repeated GSM BC-IEs preceded by a repeat indicator "circular" are correctly delivered (mapped to ISDN-BC= 3,1 kHz audio over the ISUP) and the call set-up to the MS (single-numbering scheme) will not contain a GSM BC element. |  |
| <b>PLMN parameter values origin.:</b>   | first GSM-BC=speech<br><br>second GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s,<br><br>LLC= 3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s                 |  |
| <b>PLMN parameter values term.:</b>     |   |  |
| <b>Comments:</b>                        | In case of "single numbering" the call set-up to the mobile will not contain a GSM-BC element<br><br>The MODIFY message is not transmitted over the ISUP.   |  |

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| 1310616                               | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 10.2.2<br>ETS 300 582 [40], B 1.6  |  |
| <b>TSS reference:</b>                 | PLMN-PLMN/Basic_call/Successful/Alternate speech and data/TC1310616   |  |
| <b>PLMN selection criteria term.:</b> | BS 61   |  |
| <b>PLMN selection criteria term.:</b> | BS 61; User A and user B are subscribed to the same PLMN and user B is roaming in a VPLMN (Visited PLMN)  |  |
| <b>Test purpose:</b>                  | User A and user B are subscribed to the same PLMN and user B is roaming in a VPLMN (Visited PLMN). Ensure that the repeated GSM BC-IE (preceded by a repeat indicator "circular"), the first indicating "speech" and the second indicating the appropriate data service with the ITC "3,1 kHz audio ex PLMN and LLC are correctly delivered to the called user. |  |
| <b>PLMN parameter values origin.:</b> | first GSM-BC=speech<br><br>second GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s, LLC=3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s   |  |
| <b>PLMN parameter values term.:</b>   | first GSM-BC=speech<br><br>second GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s, LLC=3,1 kHz audio, voice band data via modem asynchronous mode, user rate 1,2 kbit/s  |  |
| <b>Comments:</b>                      |   |  |

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| Successful |
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| Speech followed by data |
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| 1310701                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2.1<br>ETS 300 604 [42],<br>subclause 10.2.2<br>ETS 300 582 [40], B.1.7 |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/Speech followed by data/TC1310701  |  |
| <b>PLMN selection criteria origin.:</b> | BS 81  |  |
| <b>PLMN selection criteria term.:</b>   | BS 81  |  |
| <b>Test purpose:</b>                    | Ensure that call establishment and the call clearing procedure is performed correctly when the calling user clears after answer. |  |
| <b>PLMN parameter values origin.:</b>   | first GSM-BC=speech<br>second GSM-BC=3,1 kHz audio ex PLMN,  |  |
| <b>PLMN parameter values term.:</b>     | first GSM-BC=speech<br>second GSM-BC=3,1 kHz audio ex PLMN,  |  |
| <b>Comments:</b>                        | The call set-up to the mobile will contain a GSM BC mapped from the BC/LLC/HLC stored in the VLR                                 |  |

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| 1310702                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2.1<br>ETS 300 604 [42],<br>subclause 10.2.2<br>ETS 300 582 [40], B.1.7                          |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/Speech followed by data/TC1310702   |  |
| <b>PLMN selection criteria origin.:</b> | BS 81   |  |
| <b>PLMN selection criteria term.:</b>   | Single numbering Scheme, BS 81;   |  |
| <b>Test purpose:</b>                    | Ensure that call establishment (single-numbering scheme)and the call clearing procedure is performed correctly when the calling user clears after answer. |  |
| <b>PLMN parameter values origin.:</b>   | first GSM-BC=speech<br>second GSM-BC=3,1 kHz audio ex PLMN,   |  |
| <b>PLMN parameter values term.:</b>     |   |  |
| <b>Comments:</b>                        | In case of "single numbering" the call set-up to the mobile will not contain a GSM-BC element   |  |

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| 1310703                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2.1<br>ETS 300 604 [42],<br>subclause 10.2.2<br>ETS 300 582 [40], B.1.7 |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/Speech followed by data/TC1310703  |  |
| <b>PLMN selection criteria origin.:</b> | BS 81  |  |
| <b>PLMN selection criteria term.:</b>   | BS 81  |  |
| <b>Test purpose:</b>                    | Ensure that call establishment and the call clearing procedure is performed correctly when the calling user clears after answer. |  |
| <b>PLMN parameter values origin.:</b>   | first GSM-BC=speech<br>second GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem  |  |
| <b>PLMN parameter values term.:</b>     | first GSM-BC=speech<br>second GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem  |  |
| <b>Comments:</b>                        | The call set-up to the mobile will contain a GSM BC mapped from the BC/LLC/HLC stored in the VLR                                 |  |

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| 1310704                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2.1<br>ETS 300 604 [42],<br>subclause 10.2.2<br>ETS 300 582 [40], B.1.7                          |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/Speech followed by data/TC1310704   |  |
| <b>PLMN selection criteria origin.:</b> | BS 81   |  |
| <b>PLMN selection criteria term.:</b>   | Single numbering Scheme, BS 81;   |  |
| <b>Test purpose:</b>                    | Ensure that call establishment (single-numbering scheme)and the call clearing procedure is performed correctly when the calling user clears after answer. |  |
| <b>PLMN parameter values origin.:</b>   | first GSM-BC=speech<br>second GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem   |  |
| <b>PLMN parameter values term.:</b>     |   |  |
| <b>Comments:</b>                        | In case of "single numbering" the call set-up to the mobile will not contain a GSM-BC element   |  |

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| 1310705                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 10.2.2<br>ETS 300 582 [40], B.1.7,<br>B.2.7.2  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/Speech followed by data/TC1310705   |  |
| <b>PLMN selection criteria origin.:</b> | BS 81   |  |
| <b>PLMN selection criteria term.:</b>   | BS 81   |  |
| <b>Test purpose:</b>                    | Ensure that the repeated GSM BC-IEs preceded by a repeat indicator "sequential" are correctly delivered (mapped to ISDN-BC= 3,1 kHz audio over the ISUP and mapped again to first GSM-BC=speech, second GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 1,2 kbit/s). |  |
| <b>PLMN parameter values origin.:</b>   | first GSM-BC=speech<br><br>second GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 1,2 kbit/s synchronous mode,   |  |
| <b>PLMN parameter values term.:</b>     | first GSM-BC=speech<br><br>second GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 1,2 kbit/s   |  |
| <b>Comments:</b>                        | The call set-up to the mobile will contain a GSM BC mapped from the BC/LLC/HLC stored in the VLR<br><br>The MODIFY message is not transmitted over the ISUP.  |  |

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| 1310706                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 10.2.2<br>ETS 300 582 [40], B.1.7,<br>B.2.7.2  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/Speech followed by data/TC1310706   |  |
| <b>PLMN selection criteria origin.:</b> | BS 81   |  |
| <b>PLMN selection criteria term.:</b>   | Single numbering Scheme, BS 81;   |  |
| <b>Test purpose:</b>                    | Ensure that the repeated GSM BC-IEs preceded by a repeat indicator "sequential" are correctly mapped (to ISDN-BC= 3,1 kHz audio over the ISUP) and the call set-up to the MS (single-numbering scheme) will not contain a GSM BC element. |  |
| <b>PLMN parameter values origin.:</b>   | first GSM-BC=speech<br><br>second GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 1,2 kbit/s synchronous mode  |  |
| <b>PLMN parameter values term.:</b>     |   |  |
| <b>Comments:</b>                        | In case of single numbering the call set-up to the mobile will not contain a GSM-BC element<br><br>The MODIFY message is not transmitted over the ISUP.   |  |

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| 1310707                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 10.2.2<br>ETS 300 582 [40], Annex B.1.7,<br>B.2.7.2   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/Speech followed by data/TC1310707  |  |
| <b>PLMN selection criteria origin.:</b> | BS 81  |  |
| <b>PLMN selection criteria term.:</b>   | BS 81; User A and user B are subscribed to the same PLMN and user B is roaming in a VPLMN (Visited PLMN)   |  |
| <b>Test purpose:</b>                    | User A and user B are subscribed to the same PLMN and user B is roaming in a VPLMN (Visited PLMN). Ensure that the repeated GSM BC-IE (preceded by a repeat indicator "sequential"), the first indicating "speech" and the second indicating the appropriate data service with the ITC "3,1 kHz audio ex PLMN) are correctly delivered to the called user. |  |
| <b>PLMN parameter values act:</b>       | first GSM-BC=speech<br><br>second GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 1,2 kbit/s  |  |
| <b>PLMN parameter values term.:</b>     | first GSM-BC=speech<br><br>second GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 1,2 kbit/s  |  |
| <b>Comments:</b>                        |  |  |

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| 1310708                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2.1<br>ETS 300 604 [42],<br>subclause 10.2.2<br>ETS 300 582 [40], Annex B.1.7,<br>B.2.7.1,   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/Speech followed by data/TC1310708   |  |
| <b>PLMN selection criteria origin.:</b> | BS 81   |  |
| <b>PLMN selection criteria term.:</b>   | BS 81   |  |
| <b>Test purpose:</b>                    | Ensure that the repeated GSM BC-IEs preceded by a repeat indicator "sequential" are correctly delivered (mapped to ISDN-BC= 3,1 kHz audio over the ISUP and mapped again to first GSM-BC=speech, second GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 1,2 kbit/s without LLC). |  |
| <b>PLMN parameter values origin.:</b>   | first GSM-BC=speech<br><br>second GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 1,2 kbit/s, LLC=3,1 kHz audio, voice band data via modem, synchronous mode, user rate 1,2 kbit/s   |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=3,1 kHz audio ex PLMN  |  |
| <b>Comments:</b>                        | The call set-up to the mobile will contain a GSM BC mapped from the BC/LLC/HLC stored in the VLR<br><br>The MODIFY message is not transmitted over the ISUP.  |  |



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| 1310709                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2.1<br>ETS 300 604 [42],<br>subclause 10.2.2<br>ETS 300 582 [40], Annex B.1.7,<br>B.2.7.1,   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/Speech followed by data/TC1310709   |  |
| <b>PLMN selection criteria origin.:</b> | BS 81   |  |
| <b>PLMN selection criteria term.:</b>   | Single numbering Scheme, BS 81;   |  |
| <b>Test purpose:</b>                    | Ensure that the repeated GSM BC-IEs preceded by a repeat indicator "sequential" are correctly delivered (mapped to ISDN-BC= 3,1 kHz audio over the ISUP) and the call set-up to the MS (single-numbering scheme) will not contain a GSM BC element. |  |
| <b>PLMN parameter values origin.:</b>   | first GSM-BC=speech<br><br>second GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 1,2 kbit/s, LLC=3,1 kHz audio, voice band data via modem, synchronous mode, user rate 1,2 kbit/s                             |  |
| <b>PLMN parameter values term.:</b>     |   |  |
| <b>Comments:</b>                        | The call set-up to the mobile will not contain a GSM BC element<br><br>The MODIFY message is not transmitted over the ISUP.   |  |

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| 1310710                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2.1<br>ETS 300 604 [42],<br>subclause 10.2.2<br>ETS 300 582 [40], Annex B.1.7,<br>B.2.7.1,  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/Speech followed by data/TC1310710  |  |
| <b>PLMN selection criteria origin.:</b> | BS 81  |  |
| <b>PLMN selection criteria term.:</b>   | BS 81; User A and user B are subscribed to the same PLMN and user B is roaming in a VPLMN (Visited PLMN)   |  |
| <b>Test purpose:</b>                    | User A and user B are subscribed to different PLMNs and user B is roaming in a VPLMN (Visited PLMN). Ensure that the repeated GSM BC-IE (preceded by a repeat indicator "sequential"), the first indicating "speech" and the second indicating the appropriate data service with the ITC "3,1 kHz audio ex PLMN) and LLC are correctly delivered to the called user. |  |
| <b>PLMN parameter values origin.:</b>   | first GSM-BC=speech<br><br>second GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 1,2 kbit/s, LLC=3,1 kHz audio, voice band data via modem, synchronous mode, user rate 1,2 kbit/s  |  |
| <b>PLMN parameter values term.:</b>     | first GSM-BC=speech<br><br>second GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 1,2 kbit/s, LLC=3,1 kHz audio, voice band data via modem, synchronous mode, user rate 1,2 kbit/s  |  |
| <b>Comments:</b>                        |  |  |

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| 1310711                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 10.2.2<br>ETS 300 582 [40], Annex B.1.7   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/Speech followed by data/TC1310711  |  |
| <b>PLMN selection criteria origin.:</b> | BS 81  |  |
| <b>PLMN selection criteria term.:</b>   | BS 81  |  |
| <b>Test purpose:</b>                    | Ensure that the repeated GSM BC-IEs preceded by a repeat indicator "sequential" are correctly delivered (mapped to ISDN-BC= 3,1 kHz audio over the ISUP and mapped again to first GSM-BC=speech, second GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s). |  |
| <b>PLMN parameter values origin.:</b>   | first GSM-BC=speech<br><br>second GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s   |  |
| <b>PLMN parameter values term.:</b>     | first GSM-BC=speech<br><br>second GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s   |  |
| <b>Comments:</b>                        | The call set-up to the mobile will contain a GSM BC mapped from the BC/LLC/HLC stored in the VLR<br><br>The MODIFY message in not transmitted over the ISUP.   |  |

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| 1310712                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 10.2.2<br>ETS 300 582 [40], Annex B.1.7  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/Speech followed by data/TC1310712   |  |
| <b>PLMN selection criteria origin.:</b> | BS 81   |  |
| <b>PLMN selection criteria term.:</b>   | Single numbering Scheme, BS 81  |  |
| <b>Test purpose:</b>                    | Ensure that the repeated GSM BC-IEs preceded by a repeat indicator "sequential" are correctly delivered (mapped to ISDN-BC= 3,1 kHz audio over the ISUP) and the call set-up to the MS (single-numbering scheme) will not contain a GSM BC element. |  |
| <b>PLMN parameter values origin.:</b>   | first GSM-BC=speech<br><br>second GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s  |  |
| <b>PLMN parameter values term.:</b>     |   |  |
| <b>Comments:</b>                        | In case of "single numbering" the call set-up to the mobile will not contain a GSM-BC element.<br><br>The MODIFY message is not transmitted over the ISUP.  |  |

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| 1310713                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2<br>ETS 300 604 [42],<br>subclause 10.2.2<br>ETS 300 582 [40], Annex B.1.7   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/Speech followed by data/TC1310713  |  |
| <b>PLMN selection criteria origin.:</b> | BS 81  |  |
| <b>PLMN selection criteria term.:</b>   | BS 81; User A and user B are subscribed to the same PLMN and user B is roaming in a VPLMN (Visited PLMN)   |  |
| <b>Test purpose:</b>                    | User A and user B are subscribed to the same PLMN and user B is roaming in a VPLMN (Visited PLMN). Ensure that the repeated GSM BC-IE (preceded by a repeat indicator "sequential"), the first indicating "speech" and the second indicating the appropriate data service with the ITC "3,1 kHz audio ex PLMN) are correctly delivered to the called user. |  |
| <b>PLMN parameter values origin.:</b>   | first GSM-BC=speech<br><br>second GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s   |  |
| <b>PLMN parameter values term.:</b>     | first GSM-BC=speech<br><br>second GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s   |  |
| <b>Comments:</b>                        |  |  |

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| 1310714                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2.1<br>ETS 300 582 [40], Annex B.1.7,<br>B.2.7.1   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/Speech followed by data/TC1310714   |  |
| <b>PLMN selection criteria origin.:</b> | BS 81   |  |
| <b>PLMN selection criteria term.:</b>   | BS 81   |  |
| <b>Test purpose:</b>                    | Ensure that the repeated GSM BC-IEs preceded by a repeat indicator "sequential" are correctly delivered (mapped to ISDN-BC= 3,1 kHz audio over the ISUP and mapped again to first GSM-BC=speech, second GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, synchronous mode, user rate 1,2 kbit/s without LLC). |  |
| <b>PLMN parameter values origin.:</b>   | first GSM-BC=speech<br><br>second GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s, LLC=3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s   |  |
| <b>PLMN parameter values term.:</b>     | first GSM-BC=speech<br><br>second GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s, LLC=3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s   |  |
| <b>Comments:</b>                        | The call set-up to the mobile will contain a GSM BC mapped from the BC/LLC/HLC stored in the VLR<br><br>The MODIFY message is not transmitted over the ISUP.  |  |

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| 1310715                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2.1<br>ETS 300 582 [40], Annex B.1.7,<br>B.2.7.1   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/Speech followed by data/TC1310715   |  |
| <b>PLMN selection criteria origin.:</b> | BS 81   |  |
| <b>PLMN selection criteria term.:</b>   | Single numbering Scheme, BS 81  |  |
| <b>Test purpose:</b>                    | Ensure that the repeated GSM BC-IEs preceded by a repeat indicator "sequential" are correctly delivered (mapped to ISDN-BC= 3,1 kHz audio over the ISUP) and the call set-up to the MS (single-numbering scheme) will not contain a GSM BC element. |  |
| <b>PLMN parameter values origin.:</b>   | first GSM-BC=speech<br><br>second GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s, LLC=3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s                           |  |
| <b>PLMN parameter values term.:</b>     |   |  |
| <b>Comments:</b>                        | In case of "single numbering" the call set-up to the mobile will not contain a GSM-BC element.<br><br>The MODIFY message is not transmitted over the ISUP.  |  |

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| 1310716                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2.1<br>ETS 300 582 [40], Annex B.1.7,<br>B.2.7.1  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/Speech followed by data/TC1310716  |  |
| <b>PLMN selection criteria origin.:</b> | BS 81  |  |
| <b>PLMN selection criteria term.:</b>   | BS 81; User A and user B are subscribed to the same PLMN and user B is roaming in a VPLMN (Visited PLMN)   |  |
| <b>Test purpose:</b>                    | User A and user B are subscribed to the same PLMN and user B is roaming in a VPLMN (Visited PLMN). Ensure that the repeated GSM BC-IE (preceded by a repeat indicator "sequential"), the first indicating "speech" and the second indicating the appropriate data service with the ITC "3,1 kHz audio ex PLMN) and LLC are correctly delivered to the called user. |  |
| <b>PLMN parameter values origin.:</b>   | first GSM-BC=speech<br><br>second GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s, LLC=3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s  |  |
| <b>PLMN parameter values term.:</b>     | first GSM-BC=speech<br><br>second GSM-BC=3,1 kHz audio ex PLMN, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s, LLC=3,1 kHz audio, voice band data via modem, asynchronous mode, user rate 1,2 kbit/s  |  |
| <b>Comments:</b>                        |  |  |

Successful

Short message service

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|---|---|--|
| 1310801                                 | <b>PLMN ref. to:</b><br>ETS 300 559   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/Short_message/TC1310801                             |  |
| <b>PLMN selection criteria origin.:</b> | SMS   |  |
| <b>PLMN selection criteria term.:</b>   | SMS   |  |
| <b>Test purpose:</b>                    | SMS transfer on SDCCH from a MS-A to MS-B when both the MS's are in the Idle state. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-TS= Short Message MO – PP   |  |
| <b>PLMN parameter values term.:</b>     | GSM-TS= Short Message MT – PP   |  |
| <b>Comments:</b>                        |   |  |

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|---|---|--|
| 1310802                                 | <b>PLMN ref. to:</b><br>ETS 300 559   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/Short_message/TC1310802   |  |
| <b>PLMN selection criteria origin.:</b> | SMS   |  |
| <b>PLMN selection criteria term.</b>    | SMS   |  |
| <b>Test purpose:</b>                    | SMS transfer on SACCH from a MS-A to MS-B when both the MS's are involved in an active call (Active State). |  |
| <b>PLMN parameter values origin.:</b>   | GSM-TS= Short Message MO – PP   |  |
| <b>PLMN parameter values term.:</b>     | GSM-TS= Short Message MT – PP   |  |
| <b>Comments:</b>                        |   |  |

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|---|---|--|
| 1310803                                 | <b>PLMN ref. to:</b><br>ETS 300 559   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/Short_message/TC1310803   |  |
| <b>PLMN selection criteria origin.:</b> | SMS   |  |
| <b>PLMN selection criteria term.</b>    | SMS   |  |
| <b>Test purpose:</b>                    | SMS transfer on SDCCH from a MS-A to MS-B. MS-A is in Idle state, MS-B is detached. Verify that when MS-B becomes reachable, he shall receive the Short Message from the network. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-TS= Short Message MO – PP   |  |
| <b>PLMN parameter values term.:</b>     | GSM-TS= Short Message MT – PP   |  |
| <b>Comments:</b>                        | MS-B is detached when the Short Message is sent.  |  |



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| 1310804                                 | <b>PLMN ref. to:</b><br>ETS 300 559   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Successful/Short_message/TC1310804   |  |
| <b>PLMN selection criteria origin.:</b> | SMS   |  |
| <b>PLMN selection criteria term.:</b>   | SMS   |  |
| <b>Test purpose:</b>                    | SMS transfer on SDCCH from a MS-A to MS-B. MS-A and MS-B are in Idle state. The SIM Card memory of MS-B is full. Verify that when the SIM Card memory of MS-B becomes available, MS-B shall receive the Short Message from the network. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-TS= Short Message MO – PP   |  |
| <b>PLMN parameter values term.:</b>     | GSM-TS= Short Message MT – PP   |  |
| <b>Comments:</b>                        | The SIM Card memory of MS-B is full when the Short Message is sent.   |  |

## 6.2.13.2 Unsuccessful

|              |
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| Unsuccessful |
| speech       |

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| 1320101                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.1.1  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Unsuccessful/Speech/TC1320101   |  |
| <b>PLMN selection criteria origin.:</b> | TS 11  |  |
| <b>PLMN selection criteria term.:</b>   |  |  |
| <b>Test purpose:</b>                    | Ensure that, when calling to unallocated number, the network initiate call clearing to the calling user with cause value #1 "unassigned (unallocated) number". |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech  |  |
| <b>PLMN parameter values term.:</b>     |  |  |
| <b>Comments:</b>                        | NOTE: Some PLMNs provide announcements instead of sending cause value # 1.   |  |

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|---|--|--|
| 1320102                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>Annex H.1.6   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Unsuccessful/Speech/TC1320102   |  |
| <b>PLMN selection criteria origin.:</b> | TS 11  |  |
| <b>PLMN selection criteria term.:</b>   | TS 11  |  |
| <b>Test purpose:</b>                    | Ensure that, when the called user is busy (UDUB) and responds with RELEASE COMPLETE indicating cause value #17 "user busy", the network transport the cause value to the calling user. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=speech  |  |
| <b>Comments:</b>                        | After receiving the SETUP message, the called MS replies immediately with a RELEASE COMPLETE (#17 "user busy")   |  |

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| 1320103                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>Annex H.1.6   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Unsuccessful/Speech/TC1320103   |  |
| <b>PLMN selection criteria origin.:</b> | TS 11  |  |
| <b>PLMN selection criteria term.:</b>   | TS 11  |  |
| <b>Test purpose:</b>                    | Ensure that, when the called user is busy (NDUB), the network initiate call clearing to the calling user indicating cause value #17 "user busy" and transport the cause value to the calling user. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech  |  |
| <b>PLMN parameter values term.:</b>     |  |  |
| <b>Comments:</b>                        |  |  |

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|---|--|--|
| 1320104                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35], H.1.7<br>ETS 300 599 [41],<br>subclause 18.2,<br>subclause 18.3.2  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Unsuccessful/Speech/TC1320104   |  |
| <b>PLMN selection criteria origin.:</b> | TS 11  |  |
| <b>PLMN selection criteria term.:</b>   | TS 11  |  |
| <b>Test purpose:</b>                    | Ensure that when the called user is in mode "detached". The GMSC will be informed by the HLR (MAP Error #18) that the subscriber cannot be reached. The network initiates call clearing to the calling user with cause value #18 "no user responding". |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech  |  |
| <b>PLMN parameter values term.:</b>     |  |  |
| <b>Comments:</b>                        | NOTE: Some PLMNs provide announcements instead of sending cause value # 18.  |  |

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| 1320105                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>Annex H.1.8   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Unsuccessful/Speech/TC1320105   |  |
| <b>PLMN selection criteria origin.:</b> | TS 11  |  |
| <b>PLMN selection criteria term.:</b>   | TS 11  |  |
| <b>Test purpose:</b>                    | Ensure that when there is no answer from the called user (but user alerted), the network initiate call clearing to the calling user with a DISCONNECT message indicating cause value #19 "no answer from user (user alerted)" and sends to the called user a RELEASE message indicating cause # 102 "recovery on timer expire" or using cause #31 "normal, unspecified". |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=speech  |  |
| <b>Comments:</b>                        |  |  |

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|---|---|--|
| 1320106                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2.1, Annex H.1.9   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Unsuccessful/Speech/TC1320106  |  |
| <b>PLMN selection criteria origin.:</b> | TS 11   |  |
| <b>PLMN selection criteria term.:</b>   | TS 11   |  |
| <b>Test purpose:</b>                    | 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. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech   |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=speech   |  |
| <b>Comments:</b>                        |   |  |

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| 1320107                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.5.3   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Unsuccessful/Speech/TC1320107  |  |
| <b>PLMN selection criteria origin.:</b> | TS 11   |  |
| <b>PLMN selection criteria term.:</b>   | TS 11   |  |
| <b>Test purpose:</b>                    | 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. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech   |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=speech   |  |
| <b>Comments:</b>                        |   |  |

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| 1320108                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>Annex H.1.5   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Unsuccessful/Speech/TC1320108   |  |
| <b>PLMN selection criteria origin.:</b> | TS 11  |  |
| <b>PLMN selection criteria term.:</b>   | TS 11  |  |
| <b>Test purpose:</b>                    | 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. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=speech  |  |
| <b>Comments:</b>                        |  |  |

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| 1320109                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>Annex H.1.6   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Unsuccessful/Speech/TC1320109   |  |
| <b>PLMN selection criteria origin.:</b> | TS 11  |  |
| <b>PLMN selection criteria term.:</b>   | TS 11  |  |
| <b>Test purpose:</b>                    | Ensure that, when the called user is busy (UDUB) after being alerted, the network initiate call clearing to the calling user with a DISCONNECT message indicating cause value #17 "user busy". |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=speech  |  |
| <b>Comments:</b>                        | While in the alerting state, the called user sends a DISCONNECT (#17 "user busy").   |  |

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| Unsuccessful |
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| 3,1 kHz audio ex PLMN |
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| 1320201                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>Annex H.1.1  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Unsuccessful/3,1 kHz audio ex PLMN /TC1320201  |  |
| <b>PLMN selection criteria origin.:</b> | Audio   |  |
| <b>PLMN selection criteria term.:</b>   |   |  |
| <b>Test purpose:</b>                    | Ensure that, when calling to unallocated number, the network initiate call clearing to the calling user with cause value #1 "unassigned (unallocated) number" |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=3,1 kHz audio ex PLMN  |  |
| <b>PLMN parameter values term.:</b>     |   |  |
| <b>Comments:</b>                        | NOTE: Some PLMNs provide announcements instead of sending cause value # 1.  |  |

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|---|--|--|
| 1320202                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>Annex H.1.6   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Unsuccessful/3,1 kHz audio ex PLMN /TC1320202   |  |
| <b>PLMN selection criteria origin.:</b> | Audio  |  |
| <b>PLMN selection criteria term.:</b>   | Audio  |  |
| <b>Test purpose:</b>                    | Ensure that, when the called user is busy (UDUB) and responds with RELEASE COMPLETE indicating cause value #17 "user busy". The network transport the cause value to the calling user. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=3,1 kHz audio ex PLMN   |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=3,1 kHz audio ex PLMN   |  |
| <b>Comments:</b>                        | After receiving the SETUP message, the called MS replies immediately with a RELEASE COMPLETE (#17 "user busy")   |  |

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| 1320203                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>Annex H.1.6  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Unsuccessful/3,1 kHz audio ex PLMN /TC1320203  |  |
| <b>PLMN selection criteria origin.:</b> | Audio   |  |
| <b>PLMN selection criteria term.:</b>   | Audio   |  |
| <b>Test purpose:</b>                    | Ensure that, when the called user is busy (NDUB) the network initiate call clearing to the calling user indicating cause value #17 "user busy". |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=3,1 kHz audio ex PLMN  |  |
| <b>PLMN parameter values term.:</b>     |   |  |
| <b>Comments:</b>                        |   |  |

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|---|---|--|
| 1320204                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35], H.1.7<br>ETS 300 599 [41],<br>subclause 18.2,<br>subclause 18.3.2   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Unsuccessful/3,1 kHz audio ex PLMN /TC1320204  |  |
| <b>PLMN selection criteria origin.:</b> | Audio   |  |
| <b>PLMN selection criteria term.:</b>   | Audio   |  |
| <b>Test purpose:</b>                    | The PLMN Subscriber is in mode "detached". The GMSC will be informed by the HLR (MAP Error #18) that the subscriber cannot be reached. The network initiates call clearing to the calling user with cause value #18 "no user responding". |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=3,1 kHz audio ex PLMN  |  |
| <b>PLMN parameter values term.:</b>     |   |  |
| <b>Comments:</b>                        | NOTE: Some PLMNs provide announcements instead of sending cause value # 18.   |  |

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| 1320205                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.1.8  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Unsuccessful/3,1 kHz audio ex PLMN /TC1320205   |  |
| <b>PLMN selection criteria origin.:</b> | Audio  |  |
| <b>PLMN selection criteria term.:</b>   | Audio  |  |
| <b>Test purpose:</b>                    | Ensure that when there is no answer from the called user (but user alerted), the network initiate call clearing to the calling user with a DISCONNECT message indicating cause value #19 "no answer from user (user alerted)" and sends to the called user a RELEASE message indicating cause # 102 "recovery on timer expire" or using cause #31 "normal, unspecified". |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=3,1 kHz audio ex PLMN   |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=3,1 kHz audio ex PLMN   |  |
| <b>Comments:</b>                        |  |  |

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| 1320206                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2.2.3.1,<br>Annex H.1.9   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Unsuccessful/3,1 kHz audio ex PLMN /TC1320206   |  |
| <b>PLMN selection criteria origin.:</b> | Audio  |  |
| <b>PLMN selection criteria term.:</b>   | Audio  |  |
| <b>Test purpose:</b>                    | 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. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=3,1 kHz audio ex PLMN   |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=3,1 kHz audio ex PLMN   |  |
| <b>Comments:</b>                        |  |  |

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| 1320207                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex<br>B.3.2, H 5.3   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Unsuccessful/3,1 kHz audio ex PLMN /TC1320207  |  |
| <b>PLMN selection criteria origin.:</b> | Audio   |  |
| <b>PLMN selection criteria term.:</b>   | Audio   |  |
| <b>Test purpose:</b>                    | Ensure that when the called user is not compatible and responds with a RELEASE COMPLETE message indicating cause value #88 "incompatible destination", the network transport the cause value to the calling user. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=3,1 kHz audio ex PLMN  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=3,1 kHz audio ex PLMN  |  |
| <b>Comments:</b>                        |   |  |



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| 1320208                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>Annex H.1.5  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Unsuccessful/3,1 kHz audio ex PLMN /TC1320208  |  |
| <b>PLMN selection criteria origin.:</b> | Audio   |  |
| <b>PLMN selection criteria term.:</b>   | Audio   |  |
| <b>Test purpose:</b>                    | 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. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=3,1 kHz audio ex PLMN  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=3,1 kHz audio ex PLMN  |  |
| <b>Comments:</b>                        |   |  |

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|---|--|--|
| 1320209                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>Annex H.1.6   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Unsuccessful/3,1 kHz audio ex PLMN /TC1320209   |  |
| <b>PLMN selection criteria origin.:</b> | Audio  |  |
| <b>PLMN selection criteria term.:</b>   | Audio  |  |
| <b>Test purpose:</b>                    | Ensure that, when the called user is busy (UDUB) after being alerted, the network initiate call clearing to the calling user with a DISCONNECT message indicating cause value #17 "user busy". |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=3,1 kHz audio ex PLMN   |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=3,1 kHz audio ex PLMN   |  |
| <b>Comments:</b>                        | While in the alerting state, the called user sends a DISCONNECT (#17 "user busy").   |  |

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| Unsuccessful |
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| UDI |
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| 1320301                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>Annex H.1.1   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Unsuccessful/UDI/TC1320301  |  |
| <b>PLMN selection criteria origin.:</b> | UDI  |  |
| <b>PLMN selection criteria term.:</b>   |  |  |
| <b>Test purpose:</b>                    | Ensure that, when calling to unallocated number, the network initiate call clearing to the calling user with cause value #1 "unassigned (unallocated) number". |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption   |  |
| <b>PLMN parameter values term.:</b>     |  |  |
| <b>Comments:</b>                        |  |  |

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| 1320302                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>Annex H.1.6   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Unsuccessful/UDI/TC1320302  |  |
| <b>PLMN selection criteria origin.:</b> | UDI  |  |
| <b>PLMN selection criteria term.:</b>   | UDI  |  |
| <b>Test purpose:</b>                    | Ensure that, when the called user is busy (UDUB) and responds with RELEASE COMPLETE indicating cause value #17 "user busy", the network transport the cause value to the calling user. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption   |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=UDI with V.110/X.30 rate adaption   |  |
| <b>Comments:</b>                        | After receiving the SETUP message, the called MS replies immediately with a RELEASE COMPLETE (#17 "user busy").  |  |

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| 1320303                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>Annex H.1.6  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Unsuccessful/UDI/TC1320303   |  |
| <b>PLMN selection criteria origin.:</b> | UDI   |  |
| <b>PLMN selection criteria term.:</b>   | UDI   |  |
| <b>Test purpose:</b>                    | Ensure that, when the called user is busy (NDUB) the network initiate call clearing to the calling user indicating cause value #17 "user busy". |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption  |  |
| <b>PLMN parameter values term.:</b>     |   |  |
| <b>Comments:</b>                        |   |  |

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| 1320304                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>Annex H.1.7<br>ETS 300 599 [41],<br>subclause 18.2,<br>subclause 18.3.2  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Unsuccessful/UDI/TC1320304   |  |
| <b>PLMN selection criteria origin.:</b> | UDI   |  |
| <b>PLMN selection criteria term.:</b>   | UDI   |  |
| <b>Test purpose:</b>                    | The PLMN Subscriber is in mode "detached". The GMSC will be informed by the HLR (MAP Error #18) that the subscriber cannot be reached. The network initiates call clearing to the calling user with cause value #18 "no user responding". |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption  |  |
| <b>PLMN parameter values term.:</b>     |   |  |
| <b>Comments:</b>                        |   |  |

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| 1320305                               | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.1.8  |  |
| <b>TSS reference:</b>                 | PLMN-PLMN/Basic_call/Unsuccessful/UDI/TC1320305  |  |
| <b>PLMN selection criteria act:</b>   | UDI  |  |
| <b>PLMN selection criteria term.:</b> | UDI  |  |
| <b>Test purpose:</b>                  | Ensure that when there is no answer from the called user (but user alerted), the network initiate call clearing to the calling user with a DISCONNECT message indicating cause value #19 "no answer from user (user alerted)" and sends to the called user a RELEASE message indicating cause # 102 "recovery on timer expire" or using cause #31 "normal, unspecified". |  |
| <b>PLMN parameter values orig.:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption   |  |
| <b>PLMN parameter values term.:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption   |  |
| <b>Comments:</b>                      |  |  |

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| 1320306                               | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2.2.3.1,<br>Annex H.1.9  |  |
| <b>TSS reference:</b>                 | PLMN-PLMN/Basic_call/Unsuccessful/UDI/TC1320306   |  |
| <b>PLMN selection criteria orig.:</b> | UDI   |  |
| <b>PLMN selection criteria term.:</b> | UDI   |  |
| <b>Test purpose:</b>                  | 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. |  |
| <b>PLMN parameter values term.:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption  |  |
| <b>PLMN parameter values orig.:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption  |  |
| <b>Comments:</b>                      |   |  |

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| 1320307                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.5.3  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Unsuccessful/UDI/TC1320307  |  |
| <b>PLMN selection criteria origin.:</b> | UDI  |  |
| <b>PLMN selection criteria term.:</b>   | UDI  |  |
| <b>Test purpose:</b>                    | Ensure that when the called user is not compatible and responds with a RELEASE COMPLETE message indicating cause value #88 "incompatible destination ", the network transport the cause value to the calling user. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption   |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=UDI with V.110/X.30 rate adaption   |  |
| <b>Comments:</b>                        |  |  |

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| 1320308                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>Annex H.1.5   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Unsuccessful/UDI/TC1320308  |  |
| <b>PLMN selection criteria origin.:</b> | UDI  |  |
| <b>PLMN selection criteria term.:</b>   | UDI  |  |
| <b>Test purpose:</b>                    | 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. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption   |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=UDI with V.110/X.30 rate adaption   |  |
| <b>Comments:</b>                        |  |  |

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| 1320309                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>Annex H.1.6   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Unsuccessful/UDI/TC1320309  |  |
| <b>PLMN selection criteria origin.:</b> | UDI  |  |
| <b>PLMN selection criteria term.:</b>   | UDI  |  |
| <b>Test purpose:</b>                    | Ensure that, when the called user is busy (UDUB) after being alerted, the network initiate call clearing to the calling user with a DISCONNECT message indicating cause value #17 "user busy". |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption   |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=UDI with V.110/X.30 rate adaption   |  |
| <b>Comments:</b>                        | While in the alerting state, the called user sends a DISCONNECT (#17 "user busy)   |  |

Unsuccessful

Facsimile group 3

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| 1320401                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>Annex H.1.1   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Unsuccessful/Facsimile G3/TC1320401   |  |
| <b>PLMN selection criteria origin.:</b> | TS 62  |  |
| <b>PLMN selection criteria term.:</b>   |  |  |
| <b>Test purpose:</b>                    | Ensure that, when calling to unallocated number, the network initiate call clearing to the calling user with cause value #1 "unassigned (unallocated) number". |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC= facsimile G3, no HLC   |  |
| <b>PLMN parameter values term.:</b>     |  |  |
| <b>Comments:</b>                        | NOTE: Some PLMNs provide announcements instead of sending cause value # 1.   |  |

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| 1320402                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>Annex H.1.6   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Unsuccessful/Facsimile G3/TC1320402   |  |
| <b>PLMN selection criteria origin.:</b> | TS 62  |  |
| <b>PLMN selection criteria term.:</b>   | TS 62  |  |
| <b>Test purpose:</b>                    | Ensure that, when the called user is busy (UDUB) and responds with RELEASE COMPLETE indicating cause value #17 "user busy", the network transport the cause value to the calling user. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC = facsimile G3  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC= facsimile G3, HLC = Facsimile G2/G3  |  |
| <b>Comments:</b>                        | After receiving the SETUP message, the called MS replies immediately with a RELEASE COMPLETE (#17 "user busy")   |  |

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| 1320403                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>Annex H.1.6  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Unsuccessful/Facsimile G3/TC1320403  |  |
| <b>PLMN selection criteria origin.:</b> | TS 62   |  |
| <b>PLMN selection criteria term.:</b>   | TS 62   |  |
| <b>Test purpose:</b>                    | Ensure that, when the called user is busy (NDUB) the network initiate call clearing to the calling user indicating cause value #17 "user busy" and transport the cause value to the calling user. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC = facsimile G3   |  |
| <b>PLMN parameter values term.:</b>     |   |  |
| <b>Comments:</b>                        |   |  |

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|---|---|--|
| 1320404                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>Annex H.1.7<br>ETS 300 599 [41],<br>subclause 18.2,<br>subclause 18.3.2  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Unsuccessful/Facsimile G3/TC1320404  |  |
| <b>PLMN selection criteria origin.:</b> | TS 62   |  |
| <b>PLMN selection criteria term.:</b>   | TS 62   |  |
| <b>Test purpose:</b>                    | The PLMN Subscriber is in mode "detached". The GMSC will be informed by the HLR (MAP Error #18) that the subscriber cannot be reached. The network initiates call clearing to the calling user with cause value #18 "no user responding". |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC = facsimile G3   |  |
| <b>PLMN parameter values term.:</b>     |   |  |
| <b>Comments:</b>                        | NOTE: Some PLMNs provide announcements instead of sending cause value #18   |  |

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| 1320405                               | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.1.8   |  |
| <b>TSS reference:</b>                 | PLMN-PLMN/Basic_call/Unsuccessful/Facsimile G3/TC1320405  |  |
| <b>PLMN selection criteria act:</b>   | TS 62   |  |
| <b>PLMN selection criteria term.:</b> | TS 62   |  |
| <b>Test purpose:</b>                  | Ensure that when there is No answer from the called user (but user alerted), the network initiate call clearing to the calling user with a DISCONNECT message indicating cause value #19 "no answer from user (user alerted)" and sends to the called user a RELEASE message indicating cause # 102 "recovery on timer expire". |  |
| <b>PLMN parameter values origin.:</b> | GSM-BC = facsimile G3   |  |
| <b>PLMN parameter values term.:</b>   | GSM-BC= facsimile G3, HLC = Facsimile G2/G3   |  |
| <b>Comments:</b>                      |   |  |



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| 1320406                               | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.2.1, Annex H.1.9   |  |
| <b>TSS reference:</b>                 | PLMN-PLMN/Basic_call/Unsuccessful/Facsimile G3/TC1320406  |  |
| <b>PLMN selection criteria act:</b>   | TS 62   |  |
| <b>PLMN selection criteria term.:</b> | TS 62   |  |
| <b>Test purpose:</b>                  | 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. |  |
| <b>PLMN parameter values origin.:</b> | GSM-BC = facsimile group 3  |  |
| <b>PLMN parameter values term.:</b>   | GSM-BC= facsimile G3, HLC = Facsimile G2/G3   |  |
| <b>Comments:</b>                      |   |  |

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| 1320407                               | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.<br>5.3  |  |
| <b>TSS reference:</b>                 | PLMN-PLMN/Basic_call/Unsuccessful/Facsimile G3/TC1320407   |  |
| <b>PLMN selection criteria act:</b>   | TS 62  |  |
| <b>PLMN selection criteria term.:</b> | TS 11  |  |
| <b>Test purpose:</b>                  | Ensure that when the called user is not compatible and responds with a RELEASE COMPLETE message indicating cause value #88 " incompatible destination", the network transport the cause value to the calling user. |  |
| <b>PLMN parameter values origin.:</b> | GSM-BC = facsimile G3  |  |
| <b>PLMN parameter values term.:</b>   | GSM-BC= facsimile G3, HLC = Facsimile G2/G3  |  |
| <b>Comments:</b>                      |  |  |

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| 1320408                               | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>Annex H.1.5   |  |
| <b>TSS reference:</b>                 | PLMN-PLMN/Basic_call/Unsuccessful/Facsimile G3/TC1320408   |  |
| <b>PLMN selection criteria act:</b>   | TS 62  |  |
| <b>PLMN selection criteria term.:</b> | TS 62  |  |
| <b>Test purpose:</b>                  | 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. |  |
| <b>PLMN parameter values origin.:</b> | GSM-BC = facsimile G3  |  |
| <b>PLMN parameter values term.:</b>   | GSM-BC= facsimile G3, HLC = Facsimile G2/G3  |  |
| <b>Comments:</b>                      |  |  |

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| 1320409                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>Annex H.1.6   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Unsuccessful/Facsimile G3/TC1320409   |  |
| <b>PLMN selection criteria origin.:</b> | TS 62  |  |
| <b>PLMN selection criteria term.:</b>   | TS 62  |  |
| <b>Test purpose:</b>                    | Ensure that, when the called user is busy (UDUB) after being alerted, the network initiate call clearing to the calling user with a DISCONNECT message indicating cause value #17 "user busy". |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC = facsimile G3  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC = facsimile G3, HLC = Facsimile G2/G3   |  |
| <b>Comments:</b>                        | While in the alerting state, the called user sends a DISCONNECT (#17 "user busy").   |  |

Unsuccessful

Alternate speech and facsimile group 3

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| 1320501                               | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>Annex H.1.1   |  |
| <b>TSS reference:</b>                 | PLMN-PLMN/Basic_call/Unsuccessful/Alternate speech and facsimile G3<br>/TC1320501  |  |
| <b>PLMN selection criteria act:</b>   | TS 61  |  |
| <b>PLMN selection criteria term.:</b> | TS 61  |  |
| <b>Test purpose:</b>                  | Ensure that, when calling to unallocated number, the network initiate call clearing to the calling user with cause value #1 "unassigned (unallocated) number". |  |
| <b>PLMN parameter values origin.:</b> | first GSM-BC=speech<br>second GSM-BC = Facsimile G3  |  |
| <b>PLMN parameter values term.:</b>   |  |  |
| <b>Comments:</b>                      | NOTE: Some PLMNs provide announcements instead of sending cause value # 1.   |  |

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| 1320502                               | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>Annex H.1.6   |  |
| <b>TSS reference:</b>                 | PLMN-PLMN/Basic_call/Unsuccessful/Alternate speech and facsimile G3<br>/TC1320502  |  |
| <b>PLMN selection criteria act:</b>   | TS 61  |  |
| <b>PLMN selection criteria term.:</b> | TS 61  |  |
| <b>Test purpose:</b>                  | Ensure that, when the called user is busy (UDUB) and responds with RELEASE COMPLETE indicating cause value #17 "user busy", the network transport the cause value to the calling user. |  |
| <b>PLMN parameter values origin.:</b> | first GSM-BC=speech<br>second GSM-BC = Facsimile G3  |  |
| <b>PLMN parameter values term.:</b>   | first GSM-BC=speech<br>second GSM-BC = Facsimile G3  |  |
| <b>Comments:</b>                      |  |  |

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| 1320503                               | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>Annex H.1.6   |  |
| <b>TSS reference:</b>                 | PLMN-PLMN/Basic_call/Unsuccessful/Alternate speech and facsimile G3<br>/TC1320503  |  |
| <b>PLMN selection criteria act:</b>   | TS 61  |  |
| <b>PLMN selection criteria term.:</b> | Single numbering Scheme, TS 61   |  |
| <b>Test purpose:</b>                  | Ensure that, when the called (single-numbering scheme) user is busy (UDUB) and responds with RELEASE COMPLETE indicating cause value #17 "user busy" ,, the network transport the cause value to the calling user. |  |
| <b>PLMN parameter values origin.:</b> | first GSM-BC=speech<br>second GSM-BC = Facsimile G3  |  |
| <b>PLMN parameter values term.:</b>   |  |  |
| <b>Comments:</b>                      | In case of "single numbering" the call set-up to the mobile will not contain a GSM-BC element, except in the case when user A and user B are subscribed to the same PLMN and user B is roaming in a VPLMN.         |  |

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| 1320504                               | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>Annex H.1.6  |  |
| <b>TSS reference:</b>                 | PLMN-PLMN/Basic_call/Unsuccessful/Alternate speech and facsimile G3<br>/TC1320504   |  |
| <b>PLMN selection criteria act:</b>   | TS 61   |  |
| <b>PLMN selection criteria term.:</b> | TS 61   |  |
| <b>Test purpose:</b>                  | Ensure that, when the called user is busy (NDUB) the network initiate call clearing to the calling user indicating cause value #17 "user busy". |  |
| <b>PLMN parameter values origin.:</b> | first GSM-BC=speech<br>second GSM-BC = Facsimile G3   |  |
| <b>PLMN parameter values term.:</b>   |   |  |
| <b>Comments:</b>                      |   |  |

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| 1320505                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35], H.1.7<br>ETS 300 599 [41],<br>subclause 18.2,<br>subclause 18.3.2   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Basic_call/Unsuccessful/Alternate speech and facsimile G3<br>/TC1320505   |  |
| <b>PLMN selection criteria origin.:</b> | TS 61   |  |
| <b>PLMN selection criteria term.:</b>   | TS 61   |  |
| <b>Test purpose:</b>                    | The PLMN Subscriber is in mode "detached". The GMSC will be informed by the HLR (MAP Error #18) that the subscriber cannot be reached. The network initiates call clearing to the calling user with cause value #18 "no user responding". |  |
| <b>PLMN parameter values origin.:</b>   | first GSM-BC=speech<br>second GSM-BC = Facsimile G3   |  |
| <b>PLMN parameter values term.:</b>     |   |  |
| <b>Comments:</b>                        | NOTE: Some PLMNs provide announcements instead of sending cause value # 18.   |  |

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| 1320506                               | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>Annex H.1.8  |  |
| <b>TSS reference:</b>                 | PLMN-PLMN/Basic_call/Unsuccessful/Alternate speech and facsimile G3<br>/TC1320506   |  |
| <b>PLMN selection criteria act:</b>   | TS 61   |  |
| <b>PLMN selection criteria term.:</b> | TS 61   |  |
| <b>Test purpose:</b>                  | Ensure that when there is No answer from the called user (but user alerted), the network initiate call clearing to the calling user with a DISCONNECT message indicating cause value #19 "no answer from user (user alerted)" and sends to the called user a RELEASE message indicating cause # 102 "recovery on timer expire". |  |
| <b>PLMN parameter values term.:</b>   | first GSM-BC=speech<br>second GSM-BC = Facsimile G3   |  |
| <b>PLMN parameter values origin.:</b> | first GSM-BC=speech<br>second GSM-BC = Facsimile G3   |  |
| <b>Comments:</b>                      |   |  |

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| 1320507                               | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.1.8   |  |
| <b>TSS reference:</b>                 | PLMN-PLMN/Basic_call/Unsuccessful/Alternate speech and facsimile G3 /TC1320507  |  |
| <b>PLMN selection criteria act:</b>   | TS 61   |  |
| <b>PLMN selection criteria term.:</b> | Single numbering Scheme, TS 61  |  |
| <b>Test purpose:</b>                  | Ensure that when there is no answer from the called user (but user alerted), (single-numbering scheme) the network initiate call clearing to the calling user with a DISCONNECT message indicating cause value #19 "no answer from user (user alerted)" and sends to the called user a RELEASE message indicating cause # 102 "recovery on timer expire". |  |
| <b>PLMN parameter values term.:</b>   | first GSM-BC=speech<br>second GSM-BC = Facsimile G3   |  |
| <b>PLMN parameter values origin.:</b> |   |  |
| <b>Comments:</b>                      | In case of "single numbering" the call set-up to the mobile will not contain a GSM-BC element, except in the case when user A and user B are subscribed to the same PLMN and user B is roaming in a VPLMN.  |  |

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| 1320508                               | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.1, Annex H.1.9  |  |
| <b>TSS reference:</b>                 | PLMN-PLMN/Basic_call/Unsuccessful/Alternate speech and facsimile G3 /TC1320508   |  |
| <b>PLMN selection criteria act:</b>   | TS 61  |  |
| <b>PLMN selection criteria term.:</b> | TS 61  |  |
| <b>Test purpose:</b>                  | 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. |  |
| <b>PLMN parameter values origin.:</b> | first GSM-BC=speech<br>second GSM-BC = Facsimile G3  |  |
| <b>PLMN parameter values term.:</b>   | first GSM-BC=speech<br>second GSM-BC = Facsimile G3  |  |
| <b>Comments:</b>                      |  |  |

|                                       |   |  |
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| 1320509                               | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 5.1, Annex H.1.9   |  |
| <b>TSS reference:</b>                 | PLMN-PLMN/Basic_call/Unsuccessful/Alternate speech and facsimile G3<br>/TC1320509   |  |
| <b>PLMN selection criteria act:</b>   | TS 61   |  |
| <b>PLMN selection criteria term.:</b> | Single numbering Scheme, TS 61  |  |
| <b>Test purpose:</b>                  | Ensure that when the called user rejects the call (single-numbering scheme) and responds with a RELEASE COMPLETE message indicating cause value #21 "call rejected", the network transport the cause value to the calling user. |  |
| <b>PLMN parameter values origin.:</b> | first GSM-BC=speech<br>second GSM-BC = Facsimile G3   |  |
| <b>PLMN parameter values term.:</b>   |   |  |
| <b>Comments:</b>                      | In case of "single numbering" the call set-up to the mobile will not contain a GSM-BC element, except in the case when user A and user B are subscribed to the same PLMN and user B is roaming in a VPLMN.                      |  |

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| 1320510                               | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.5.3   |  |
| <b>TSS reference:</b>                 | PLMN-PLMN/Basic_call/Unsuccessful/Alternate speech and facsimile G3/<br>TC1320510   |  |
| <b>PLMN selection criteria act:</b>   | TS 61   |  |
| <b>PLMN selection criteria term.:</b> | TS 61   |  |
| <b>Test purpose:</b>                  | Ensure that when the called user is not compatible and responds with a RELEASE COMPLETE message indicating cause value #88 "incompatible destination", the network transport the cause value to the calling user. |  |
| <b>PLMN parameter values origin.:</b> | first GSM-BC=speech<br>second GSM-BC = Facsimile G3   |  |
| <b>PLMN parameter values term.:</b>   | a) first GSM-BC=speech<br>second GSM-BC = Facsimile G3  |  |
| <b>Comments:</b>                      |   |  |

|                                       |   |  |
|---------------------------------------|---|--|
| 1320511                               | <b>PLMN ref. to:</b><br>ETS 300 557 [35], Annex H.5.3   |  |
| <b>TSS reference:</b>                 | PLMN-PLMN/Basic_call/Unsuccessful/Alternate speech and facsimile G3/<br>TC1320511   |  |
| <b>PLMN selection criteria act:</b>   | TS 61   |  |
| <b>PLMN selection criteria term.:</b> | Single numbering Scheme, TS 61  |  |
| <b>Test purpose:</b>                  | Ensure that when the called user (single-numbering scheme) is not compatible and responds with a RELEASE COMPLETE message indicating cause value #88 "incompatible destination", the network transport the cause value to the calling user. |  |
| <b>PLMN parameter values origin.:</b> | first GSM-BC=speech<br>second GSM-BC = Facsimile G3   |  |
| <b>PLMN parameter values term.:</b>   |   |  |
| <b>Comments:</b>                      | In case of "single numbering" the call set-up to the mobile will not contain a GSM-BC element, except in the case when user A and user B are subscribed to the same PLMN and user B is roaming in a VPLMN.                                  |  |

|                                       |   |  |
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| 1320512                               | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>Annex H.1.5  |  |
| <b>TSS reference:</b>                 | PLMN-PLMN/Basic_call/Unsuccessful/Alternate speech and facsimile G3<br>TC1320512  |  |
| <b>PLMN selection criteria act:</b>   | TS 61   |  |
| <b>PLMN selection criteria term.:</b> | TS 61   |  |
| <b>Test purpose:</b>                  | 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. |  |
| <b>PLMN parameter values origin.:</b> | first GSM-BC=speech<br>second GSM-BC = Facsimile G3   |  |
| <b>PLMN parameter values term.:</b>   | first GSM-BC=speech<br>second GSM-BC = Facsimile G3   |  |
| <b>Comments:</b>                      |   |  |



|                                       |  |  |
|---------------------------------------|--|--|
| 1320513                               | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>Annex H.1.5   |  |
| <b>TSS reference:</b>                 | PLMN-PLMN/Basic_call/Unsuccessful/Alternate speech and facsimile G3<br>TC1320513   |  |
| <b>PLMN selection criteria act:</b>   | TS 61  |  |
| <b>PLMN selection criteria term.:</b> | Single numbering Scheme, TS 61   |  |
| <b>Test purpose:</b>                  | Ensure that when the calling user clears with cause value #16 "normal call clearing", before answer from called user (single-numbering scheme), the network transport the cause value to the called user.  |  |
| <b>PLMN parameter values origin.:</b> | first GSM-BC=speech<br>second GSM-BC = Facsimile G3  |  |
| <b>PLMN parameter values term.:</b>   |  |  |
| <b>Comments:</b>                      | In case of "single numbering" the call set-up to the mobile will not contain a GSM-BC element, except in the case when user A and user B are subscribed to the same PLMN and user B is roaming in a VPLMN. |  |

|                                       |  |  |
|---------------------------------------|--|--|
| 1320514                               | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>Annex H.1.6   |  |
| <b>TSS reference:</b>                 | PLMN-PLMN/Basic_call/Unsuccessful/Alternate speech and facsimile G3<br>/TC1320514  |  |
| <b>PLMN selection criteria act:</b>   | TS 61  |  |
| <b>PLMN selection criteria term.:</b> | TS 61  |  |
| <b>Test purpose:</b>                  | Ensure that, when the called user is busy (UDUB) after being alerted, the network initiate call clearing to the calling user with a DISCONNECT message indicating cause value #17 "user busy". |  |
| <b>PLMN parameter values origin.:</b> | first GSM-BC=speech<br>second GSM-BC = Facsimile G3  |  |
| <b>PLMN parameter values term.:</b>   | first GSM-BC=speech<br>second GSM-BC = Facsimile G3  |  |
| <b>Comments:</b>                      | While in the alerting state, the called user sends a DISCONNECT (#17 "user busy)   |  |

|                                       |  |  |
|---------------------------------------|--|--|
| 1320515                               | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>Annex H.1.6   |  |
| <b>TSS reference:</b>                 | PLMN-PLMN/Basic_call/Unsuccessful/Alternate speech and facsimile G3 /TC1320515   |  |
| <b>PLMN selection criteria act:</b>   | TS 61  |  |
| <b>PLMN selection criteria term.:</b> | Single numbering Scheme, TS 61   |  |
| <b>Test purpose:</b>                  | Ensure that, when the called (single-numbering scheme) user is busy (UDUB) after being alerted, the network initiate call clearing to the calling user with a DISCONNECT message indicating cause value #17 "user busy".   |  |
| <b>PLMN parameter values origin.:</b> | first GSM-BC=speech<br>second GSM-BC = Facsimile G3  |  |
| <b>PLMN parameter values term.:</b>   |  |  |
| <b>Comments:</b>                      | In case of "single numbering" the call set-up to the mobile will not contain a GSM-BC element, except in the case when user A and user B are subscribed to the same PLMN and user B is roaming in a VPLMN.<br><br>While in the alerting state, the called user sends a DISCONNECT (#17 "user busy) |  |

## 6.2.14 Test purposes for PLMN-PLMN Supplementary services

### 6.2.14.1 Bearer capability "speech"

|                               |  |
|-------------------------------|--|
| <b>Supplementary Services</b> |  |
| <b>Speech</b>                 |  |

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|---|--|--|
| 1410101                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 9.3.23.2,<br>ETS 300 542 [57] , subclause 1<br>ETS 300 565 [36], subclause 1  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/CLIP/TC1410101   |  |
| <b>PLMN selection criteria origin.:</b> | CLIP   |  |
| <b>PLMN selection criteria term.:</b>   | The called user is provided with CLIP  |  |
| <b>Test purpose:</b>                    | Ensure that when the Calling party subaddress is provided by the calling user, the Calling party number and Calling party subaddress information elements are correctly delivered to the called (served) user. |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=speech,<br><br>Calling party subaddress   |  |

|                                       |  |
|---------------------------------------|--|
| <b>PLMN parameter values origin.:</b> | GSM-BC= speech<br>Calling party number: PI=PA, TON= national/international number, SI=NP,<br>NPI= ISDN/Telephony numbering plan (ITU-T Rec. E.164 [25] ) |
| <b>Comments:</b>                      |  |

|   |   |  |
|---|---|--|
| 1410102                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 9.3.23.2<br>ETS 300 542 [57] , subclause 1<br>ETS 300 565 [36], subclause 1  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/CLIP/TC1410102  |  |
| <b>PLMN selection criteria origin.:</b> | CLIP  |  |
| <b>PLMN selection criteria term.:</b>   | The called user is provided with CLIP   |  |
| <b>Test purpose:</b>                    | 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. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech   |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC= speech,<br>Calling party number: PI=PA SI=NP TON= national/international number,<br>NPI= ISDN/Telephony numbering plan (ITU-T Rec. E.164 [25] )   |  |
| <b>Comments:</b>                        |   |  |

|   |  |  |
|---|--|--|
| 1410201                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 9.3.23.2<br>ETS 300 542 [57] ,<br>subclause 2,<br>ETS 300 565 [36], subclause 2   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/CLIR/TC1410201   |  |
| <b>PLMN selection criteria origin.:</b> | CLIR   |  |
| <b>PLMN selection criteria term.:</b>   | The called user is provided with CLIP  |  |
| <b>Test purpose:</b>                    | Ensure that when the Calling party subaddress is provided by the calling user the Calling party number information element is delivered to the called user without any digit information. The Calling party subaddress shall not be present. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech, Calling party subaddress  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC= speech<br>Calling party number: PI=PR TON=unknown SI=NP NPI=unknown  |  |
| <b>Comments:</b>                        |  |  |

|   |  |  |
|---|--|--|
| 1410202                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 9.3.23.2<br>ETS 300 542 [57] , subclause 2<br>ETS 300 565 [36], subclause 2   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/CLIR/TC1410202   |  |
| <b>PLMN selection criteria origin.:</b> | CLIR   |  |
| <b>PLMN selection criteria term.:</b>   | The called user is provided with CLIP  |  |
| <b>Test purpose:</b>                    | The calling user is provided with CLIR permanent mode subscription<br>Ensure that when No Calling party subaddress is provided by the calling user the Calling party number information element is delivered to the called user without any digit information. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech  |  |
| <b>PLMN parameter values term.:</b>     | Calling party number: PI=PR TON=unknown SI=NP NPI=unknown  |  |
| <b>Comments:</b>                        |  |  |

|   |   |  |
|---|---|--|
| 1410301                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 9.3.5.2<br>ETS 300 542 [57] , subclause 3<br>ETS 300 565 [36], subclause 3   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/COLP/TC1410301  |  |
| <b>PLMN selection criteria origin.:</b> | The calling user is provided with COLP  |  |
| <b>PLMN selection criteria term.:</b>   | COLP  |  |
| <b>Test purpose:</b>                    | Ensure that when the Connected subaddress number is provided by the called user, the Connected number and Connected subaddress information elements are correctly delivered to the calling (served) user. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech;<br><br>Connected number PI=PA, SI=NP, TON= national/international number,<br><br>NPI= ISDN/Telephony numbering plan (ITU-T Rec. E.164 [25] )<br><br>Connected subaddress                   |  |
| <b>PLMN parameter values term.:</b>     | Connected subaddress  |  |
| <b>Comments:</b>                        |   |  |

|   |   |  |
|---|---|--|
| 1410302                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 9.3.5.2<br>ETS 300 542 [57] , subclause 3<br>ETS 300 565 [36], subclause 3   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/COLP/TC1410302  |  |
| <b>PLMN selection criteria origin.:</b> | The calling user is provided with COLP  |  |
| <b>PLMN selection criteria term.:</b>   | COLP  |  |
| <b>Test purpose:</b>                    | Ensure that when No Connected subaddress is provided by the called user, the Connected number information element is network provided and correctly delivered to the calling (served) user. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech,<br><br>Connected number: SI=NP TON= national/international number, PI=PA,<br><br>NPI= ISDN/Telephony numbering plan (ITU-T Rec. E.164 [25] )                                 |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=speech,  |  |
| <b>Comments:</b>                        |   |  |

|   |   |  |
|---|---|--|
| 1410401                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 9.3.5.2<br>ETS 300 542 [57] , subclause 3<br>ETS 300 565 [36], subclause 3   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/COLR/TC1410401  |  |
| <b>PLMN selection criteria origin.:</b> | The calling user is provided with COLP  |  |
| <b>PLMN selection criteria term.:</b>   | COLR  |  |
| <b>Test purpose:</b>                    | The called (served) user is provided with COLR permanent mode subscription.<br><br>Ensure that when No Connected subaddress is provided by the called user, the Connected number information element is network provided and delivered to the calling user without any digit information. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech,<br><br>Connected number: PI=PR, SI=NP, TON=unknown, NPI=unknown;   |  |
| <b>PLMN parameter values term.:</b>     |   |  |
| <b>Comments:</b>                        |   |  |

|   |   |  |
|---|---|--|
| 1410501                                 | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39]  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/CUG/TC810501  |  |
| <b>PLMN selection criteria origin.:</b> | CUG supplementary options: <b>not OA; not ocb; not Pref. CUG</b>  |  |
| <b>PLMN selection criteria term.:</b>   | Calling user and called user belong to the <b>same</b> CUG;<br><br>CUG supplementary options: <b>IA; not ICB</b>  |  |
| <b>Test purpose:</b>                    | Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access is not allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> 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 the Facility IE which shall contain a ForwardCUG-Info with CUG Index (CI), Suppress Pref. CUG (SPC), Suppress OA (SOA)<br><br>the called user receives a SETUP message with a Facility IE which contains an CUG index associated with the invoked CUG. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech; ForwardCUG-Info: CUG Index (CI);<br><br>Suppress Pref. CUG (SPC);<br><br>Suppress OA (SOA)   |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=speech; Facility (Invoke =NotifySS (CUG-Index))  |  |
| <b>Comments:</b>                        |   |  |

|   |  |  |
|---|--|--|
| 1410502                                 | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39]   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/CUG/TC810502   |  |
| <b>PLMN selection criteria origin.:</b> | CUG supplementary options: <b>not OA; not ocb; not Pref. CUG</b>   |  |
| <b>PLMN selection criteria term.:</b>   | <p>Calling user and called are subscribed to the <b>same</b> HPLMN;</p> <p>the called user is roaming in a <b>VPLMN</b> (Visited PLMN);</p> <p>Calling user and called user belong to the <b>same</b> CUG;</p> <p>CUG supplementary options: <b>IA; not ICB</b></p>  |  |
| <b>Test purpose:</b>                    | <p>Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access is not allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> 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 the Facility IE which shall contain a ForwardCUG-Info with CUG Index (CI), Suppress Pref. CUG (SPC), Suppress OA (SOA)</p> <p>the called user receives a SETUP message with a Facility IE which contains an CUG index associated with the invoked CUG.</p> |  |
| <b>PLMN parameter values origin.:</b>   | <p>GSM-BC=speech; ForwardCUG-Info: CUG Index (CI);</p> <p>Suppress Pref. CUG (SPC);</p> <p>Suppress OA (SOA)</p>   |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=speech; Facility (Invoke =NotifySS (CUG-Index))   |  |
| <b>Comments:</b>                        |  |  |

|   |   |  |
|---|---|--|
| 1410503                                 | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39]  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/CUG/TC810503  |  |
| <b>PLMN selection criteria origin.:</b> | CUG supplementary options: <b>not OA; not ocb; not Pref. CUG</b> ,<br>the calling user is roaming in a VPLMN (Visited PLMN)   |  |
| <b>PLMN selection criteria term.:</b>   | Calling user and called are subscribed to the <b>same</b> HPLMN;<br>the called user is roaming in the same <b>VPLMN</b> (Visited PLMN) of the calling user;<br>Calling user and called user belong to the <b>same</b> CUG;<br>CUG supplementary options: <b>IA; not ICB</b>   |  |
| <b>Test purpose:</b>                    | Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access is not allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> 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 the Facility IE which shall contain a ForwardCUG-Info with CUG Index (CI), Suppress Pref. CUG (SPC), Suppress OA (SOA)<br><br>the called user receives a SETUP message with a Facility IE which contains an CUG index associated with the invoked CUG. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech; ForwardCUG-Info: CUG Index (CI);<br><br>Suppress Pref. CUG (SPC);<br><br>Suppress OA (SOA)   |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=speech; Facility (Invoke =NotifySS (CUG-Index))  |  |
| <b>Comments:</b>                        |   |  |



|   |   |  |
|---|---|--|
| 1410504                                 | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39]  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/CUG/TC1410504   |  |
| <b>PLMN selection criteria origin.:</b> | The calling user belongs to a CUG with the following CUG supplementary options: <b>OA; not ocb; not Pref. CUG</b>   |  |
| <b>PLMN selection criteria term.:</b>   | The called user belongs to the <b>same</b> CUG with the following CUG supplementary options: <b>IA; not ICB</b>   |  |
| <b>Test purpose:</b>                    | <p>Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> 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 the Facility IE which shall contain a ForwardCUG-Info with CUG Index (CI), Suppress Pref. CUG (SPC), Suppress OA (SOA)</p> <p>the called user receives a SETUP message with a Facility IE which contains an CUG index associated with the invoked CUG.</p> |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech; ForwardCUG-Info: CUG Index (CI);<br>Suppress Pref. CUG (SPC);  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=speech; Facility (Invoke =NotifySS (CUG-Index))  |  |
| <b>Comments:</b>                        |   |  |

|   |   |  |
|---|---|--|
| 1410505                                 | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39]  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/CUG/TC1410505   |  |
| <b>PLMN selection criteria origin.:</b> | The calling user belongs to a CUG with the following CUG supplementary options: <b>OA; not ocb; not Pref. CUG</b>   |  |
| <b>PLMN selection criteria term.:</b>   | <p>Calling user and called are subscribed to the <b>same</b> HPLMN;</p> <p>the called user is roaming in a <b>VPLMN</b> (Visited PLMN);</p> <p>The called user belongs to the <b>same</b> CUG with the following CUG supplementary options: <b>IA; not ICB</b></p>  |  |
| <b>Test purpose:</b>                    | <p>Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> 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 the Facility IE which shall contain a ForwardCUG-Info with CUG Index (CI), Suppress Pref. CUG (SPC), Suppress OA (SOA)</p> <p>the called user receives a SETUP message with a Facility IE which contains an CUG index associated with the invoked CUG.</p> |  |
| <b>PLMN parameter values origin.:</b>   | <p>GSM-BC=speech; ForwardCUG-Info: CUG Index (CI);</p> <p>Suppress Pref. CUG (SPC);</p> <p>Suppress OA (SOA);</p>   |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=speech; Facility (Invoke =NotifySS (CUG-Index))  |  |
| <b>Comments:</b>                        |   |  |

|   |   |  |
|---|---|--|
| 1410506                                 | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39]  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/CUG/TC1410506   |  |
| <b>PLMN selection criteria origin.:</b> | The calling user belongs to a CUG with the following CUG supplementary options: <b>OA; not ocb; not Pref. CUG</b> ,<br><br>the calling user is roaming in a VPLMN (Visited PLMN)  |  |
| <b>PLMN selection criteria term.:</b>   | Calling user and called are subscribed to the <b>same</b> HPLMN;<br><br>the called user is roaming in the same <b>VPLMN</b> (Visited PLMN) of the calling user;<br><br>The called user belongs to the <b>same</b> CUG with the following CUG supplementary options: <b>IA; not ICB</b>  |  |
| <b>Test purpose:</b>                    | <p>Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> 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 the Facility IE which shall contain a ForwardCUG-Info with CUG Index (CI), Suppress Pref. CUG (SPC), Suppress OA (SOA)</p> <p>the called user receives a SETUP message with a Facility IE which contains an CUG index associated with the invoked CUG.</p> |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech; ForwardCUG-Info: CUG Index (CI);<br><br>Suppress Pref. CUG (SPC);<br><br>Suppress OA (SOA);  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=speech; Facility (Invoke =NotifySS (CUG-Index))  |  |
| <b>Comments:</b>                        |   |  |

|   |   |  |
|---|---|--|
| 1410507                                 | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39]  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/CUG/TC810503  |  |
| <b>PLMN selection criteria origin.:</b> | The calling user belongs to a CUG with the following CUG supplementary options: <b>OA; not ocb; not Pref. CUG</b>   |  |
| <b>PLMN selection criteria term.:</b>   | The called user belongs to the same CUG with the following CUG supplementary options: <b>IA; not ICB</b>  |  |
| <b>Test purpose:</b>                    | <p>Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> 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 the Facility IE which shall contain a ForwardCUG-Info with CUG Index (CI), Suppress Pref. CUG (SPC),</p> <p>the called user receives a SETUP message with a Facility IE which contains an CUG index associated with the invoked CUG.</p> |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech; ForwardCUG-Info: CUG Index (CI);<br>Suppress Pref. CUG (SPC);  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=speech; Facility (Invoke =NotifySS (CUG-Index))  |  |
| <b>Comments:</b>                        |   |  |

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| 1410508                                 | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39]  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/CUG/TC810508  |  |
| <b>PLMN selection criteria origin.:</b> | The calling user belongs to a CUG with the following CUG supplementary options: <b>OA; not ocb; not Pref. CUG</b>   |  |
| <b>PLMN selection criteria term.:</b>   | <p>Calling user and called are subscribed to the <b>same</b> HPLMN;</p> <p>the called user is roaming in a <b>VPLMN</b> (Visited PLMN);</p> <p>The called user belongs to the same CUG with the following CUG supplementary options: <b>IA; not ICB</b></p>   |  |
| <b>Test purpose:</b>                    | <p>Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> 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 the Facility IE which shall contain a ForwardCUG-Info with CUG Index (CI), Suppress Pref. CUG (SPC),</p> <p>the called user receives a SETUP message with a Facility IE which contains an CUG index associated with the invoked CUG.</p> |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech; ForwardCUG-Info: CUG Index (CI);<br><p style="text-align: center;">Suppress Pref. CUG (SPC);</p>   |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=speech; Facility (Invoke =NotifySS (CUG-Index))  |  |
| <b>Comments:</b>                        |   |  |

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| 1410509                                 | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39]   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/CUG/TC810509   |  |
| <b>PLMN selection criteria origin.:</b> | The calling user belongs to a CUG with the following CUG supplementary options: <b>OA; not ocb; not Pref. CUG</b><br><br>the calling user is roaming in a VPLMN (Visited PLMN).  |  |
| <b>PLMN selection criteria term.:</b>   | Calling user and called are subscribed to the <b>same</b> HPLMN;<br><br>the called user is roaming in the same <b>VPLMN</b> (Visited PLMN) of the calling user;<br><br>the called user belongs to the same CUG with the following CUG supplementary options: <b>IA; not ICB</b>  |  |
| <b>Test purpose:</b>                    | Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> 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 the Facility IE which shall contain a ForwardCUG-Info with CUG Index (CI), Suppress Pref. CUG (SPC),<br><br>the called user receives a SETUP message with a Facility IE which contains an CUG index associated with the invoked CUG. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech; ForwardCUG-Info: CUG Index (CI);<br><br>Suppress Pref. CUG (SPC);   |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=speech; Facility (Invoke =NotifySS (CUG-Index))   |  |
| <b>Comments:</b>                        |  |  |

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| 1410510                                 | <b>PLMN ref. To:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39]  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/CUG/TC1410510   |  |
| <b>PLMN selection criteria origin.:</b> | The calling user belongs to the same CUG with the following CUG supplementary options: <b>OA; not ocb; not Pref. CUG</b>  |  |
| <b>PLMN selection criteria term.:</b>   | The called user belongs to CUG with the following CUG supplementary options: <b>IA; ICB</b>   |  |
| <b>Test purpose:</b>                    | <p>Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access is allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> 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 the Facility IE which shall contain a ForwardCUG-Info with CUG Index (CI), Suppress Pref. CUG (SPC),</p> <p>the called user receives a SETUP message without a Facility IE which contains an CUG index associated with the invoked CUG (normal call).</p> |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech; ForwardCUG-Info: CUG Index (CI);<br><br>Suppress Pref. CUG (SPC);  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=speech   |  |
| <b>Comments:</b>                        |   |  |

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| 1410511                                 | <b>PLMN ref. To:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39]   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/CUG/TC1410511  |  |
| <b>PLMN selection criteria origin.:</b> | The calling user belongs to the same CUG with the following CUG supplementary options: <b>OA; not ocb; not Pref. CUG</b>   |  |
| <b>PLMN selection criteria term.:</b>   | Calling user and called are subscribed to the <b>same</b> HPLMN;<br>the called user is roaming in a <b>VPLMN</b> (Visited PLMN);<br>The called user belongs to CUG with the following CUG supplementary options: <b>IA; ICB</b>  |  |
| <b>Test purpose:</b>                    | Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access is allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> 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 the Facility IE which shall contain a ForwardCUG-Info with CUG Index (CI), Suppress Pref. CUG (SPC),<br><br>the called user receives a SETUP message without a Facility IE which contains an CUG index associated with the invoked CUG (normal call). |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech; ForwardCUG-Info: CUG Index (CI);<br><br>Suppress Pref. CUG (SPC);   |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=speech  |  |
| <b>Comments:</b>                        |  |  |



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| 1410512                                 | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39]   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/CUG/TC1410512  |  |
| <b>PLMN selection criteria origin.:</b> | The calling user belongs to the same CUG with the following CUG supplementary options: <b>OA; not ocb; not Pref. CUG</b> ,<br><br>the calling user is roaming in a VPLMN (Visited PLMN).   |  |
| <b>PLMN selection criteria term.:</b>   | Calling user and called are subscribed to the <b>same</b> HPLMN;<br><br>the called user is roaming in the same <b>VPLMN</b> (Visited PLMN) of the calling user;<br><br>The called user belongs to CUG with the following CUG supplementary options: <b>IA; ICB</b>   |  |
| <b>Test purpose:</b>                    | Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access is allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> 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 the Facility IE which shall contain a ForwardCUG-Info with CUG Index (CI), Suppress Pref. CUG (SPC),<br><br>the called user receives a SETUP message without a Facility IE which contains an CUG index associated with the invoked CUG (normal call). |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech; ForwardCUG-Info: CUG Index (CI);<br><br>Suppress Pref. CUG (SPC);   |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=speech  |  |
| <b>Comments:</b>                        |  |  |

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| 1410513                                 | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39]  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/CUG/TC1410513   |  |
| <b>PLMN selection criteria origin.:</b> | The calling user belongs to a CUG with the following CUG supplementary options: <b>OA; not ocb; not Pref. CUG</b>   |  |
| <b>PLMN selection criteria term.:</b>   | The called user belongs to the same CUG with the following CUG supplementary options: <b>IA; not ICB</b>  |  |
| <b>Test purpose:</b>                    | Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access is allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> 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 the Facility IE which shall contain a ForwardCUG-Info with, Suppress Pref. CUG (SPC),<br><br>the called user receives a SETUP message without a Facility IE. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech; ForwardCUG-Info: Suppress Pref. CUG (SPC);   |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=speech   |  |
| <b>Comments:</b>                        |   |  |

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| 1410514                                 | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39]  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/CUG/TC1410514   |  |
| <b>PLMN selection criteria origin.:</b> | The calling user belongs to a CUG with the following CUG supplementary options: <b>OA; not ocb; not Pref. CUG</b>   |  |
| <b>PLMN selection criteria term.:</b>   | Calling user and called are subscribed to the <b>same</b> HPLMN;<br><br>the called user is roaming in a <b>VPLMN</b> (Visited PLMN);<br><br>The called user belongs to the same CUG with the following CUG supplementary options: <b>IA; not ICB</b>  |  |
| <b>Test purpose:</b>                    | Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access is allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> 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 the Facility IE which shall contain a ForwardCUG-Info with, Suppress Pref. CUG (SPC),<br><br>the called user receives a SETUP message without a Facility IE. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech; ForwardCUG-Info: Suppress Pref. CUG (SPC);   |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=speech   |  |
| <b>Comments:</b>                        |   |  |

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| 1410515                                 | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39]  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/CUG/TC1410515   |  |
| <b>PLMN selection criteria origin.:</b> | The calling user belongs to a CUG with the following CUG supplementary options: <b>OA; not ocb; not Pref. CUG</b> ,<br><br>the calling user is roaming in a VPLMN (Visited PLMN).   |  |
| <b>PLMN selection criteria term.:</b>   | Calling user and called are subscribed to the <b>same</b> HPLMN;<br><br>the called user is roaming in the same <b>VPLMN</b> (Visited PLMN) of the calling user;<br><br>The called user belongs to the same CUG with the following CUG supplementary options: <b>IA; not ICB</b>   |  |
| <b>Test purpose:</b>                    | Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access is allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> 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 the Facility IE which shall contain a ForwardCUG-Info with, Suppress Pref. CUG (SPC),<br><br>the called user receives a SETUP message without a Facility IE. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech; ForwardCUG-Info: Suppress Pref. CUG (SPC);   |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=speech   |  |
| <b>Comments:</b>                        |   |  |

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| 1410516                                 | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39]  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/CUG/TC1410516   |  |
| <b>PLMN selection criteria origin.:</b> | The calling user belongs to a CUG with the following CUG supplementary options: <b>OA; not ocb; not Pref. CUG</b>   |  |
| <b>PLMN selection criteria term.:</b>   | The called user is <b>not a CUG subscriber</b>  |  |
| <b>Test purpose:</b>                    | Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access is allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> user belongs not to a CUG, after the receipt of a SETUP message with the Facility IE which shall contain a ForwardCUG-Info with CUG Index (CI), Suppress Pref. CUG (SPC),<br><br>the called user receives a SETUP message (normal call). |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech; ForwardCUG-Info: CUG Index (CI);<br><br>Suppress Pref. CUG (SPC);  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=speech   |  |
| <b>Comments:</b>                        |   |  |

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| 1410517                                 | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39]  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/CUG/TC1410517   |  |
| <b>PLMN selection criteria origin.:</b> | The calling user belongs to a CUG with the following CUG supplementary options: <b>OA; not ocb; not Pref. CUG</b> ,<br><br>the calling user is roaming in a VPLMN (Visited PLMN).   |  |
| <b>PLMN selection criteria term.:</b>   | Calling user and called are subscribed to the <b>same</b> HPLMN;<br><br>the called user is roaming in the same <b>VPLMN</b> (Visited PLMN) of the calling user;<br><br>The called user is <b>not a CUG subscriber</b>   |  |
| <b>Test purpose:</b>                    | Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access is allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> user belongs not to a CUG, after the receipt of a SETUP message with the Facility IE which shall contain a ForwardCUG-Info with CUG Index (CI), Suppress Pref. CUG (SPC),<br><br>the called user receives a SETUP. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech; ForwardCUG-Info: CUG Index (CI);<br><br>Suppress Pref. CUG (SPC);  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=speech   |  |
| <b>Comments:</b>                        |   |  |

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| 1410518                                 | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39]  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/CUG/TC1410518   |  |
| <b>PLMN selection criteria origin.:</b> | The calling user is not member of CUG   |  |
| <b>PLMN selection criteria term.:</b>   | The called user belongs to CUG with the following CUG supplementary options:<br><b>not IA; not ICB</b>  |  |
| <b>Test purpose:</b>                    | Ensure that when the <b>calling</b> user has not subscribed to the CUG and the <b>called</b> 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 ForwardCUG-Info the network initiate call clearing to the calling user with cause value # 29 "facility rejected". |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech   |  |
| <b>PLMN parameter values term.:</b>     |   |  |
| <b>Comments:</b>                        |   |  |



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| 1410521                                 | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39]  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/CUG/TC1410521   |  |
| <b>PLMN selection criteria origin.:</b> | The calling user belongs to a CUG with the following CUG supplementary options: <b>not OA; not ocb; not Pref. CUG</b> ,<br><br>the calling user is roaming in a VPLMN (Visited PLMN).   |  |
| <b>PLMN selection criteria term.:</b>   | Calling user and called are subscribed to the <b>same</b> HPLMN;<br><br>the called user is roaming in the same <b>VPLMN</b> (Visited PLMN) of the calling user;<br><br>The called user is not member of CUG   |  |
| <b>Test purpose:</b>                    | <p>Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access is not allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> user belongs not to a CUG, after the receipt of a SETUP message with the Facility IE which shall contain a ForwardCUG-Info with</p> <p>CUG Index (CI), Suppress Pref. CUG (SPC), Suppress OA (SOA)</p> <p>call establishment is not possible and the network initiate call clearing to the calling user with cause value # 87 "user not a member of CUG".</p> |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech; ForwardCUG-Info: CUG Index (CI);<br><br>Suppress Pref. CUG (SPC);<br><br>Suppress OA (SOA);  |  |
| <b>PLMN parameter values term.:</b>     |   |  |
| <b>Comments:</b>                        |   |  |

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| 1410522                                 | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39]   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/CUG/TC1410522  |  |
| <b>PLMN selection criteria origin.:</b> | The calling user belongs to a CUG with the following CUG supplementary options: <b>OA; not ocb; not Pref. CUG</b>  |  |
| <b>PLMN selection criteria term.:</b>   | The called user belongs to the same CUG with the following CUG supplementary options: <b>not IA; ICB</b>   |  |
| <b>Test purpose:</b>                    | <p>Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access is allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> 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 the Facility IE which shall contain a ForwardCUG-Info with CUG Index (CI), Suppress Pref. CUG (SPC),</p> <p>call establishment is not possible and the network initiate call clearing to the calling user with cause value # 55 "incoming calls barred within CUG".</p> |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech; ForwardCUG-Info: CUG Index (CI);<br><p style="text-align: right;">Suppress Pref. CUG (SPC);</p>   |  |
| <b>PLMN parameter values term.:</b>     |  |  |
| <b>Comments:</b>                        |  |  |

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| 1410523                                 | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39]  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/CUG/TC1410523   |  |
| <b>PLMN selection criteria origin.:</b> | The calling user belongs to a CUG with the following CUG supplementary options: <b>OA; not ocb; not Pref. CUG</b>   |  |
| <b>PLMN selection criteria term.:</b>   | Calling user and called are subscribed to the <b>same</b> HPLMN;<br>the called user is roaming in a <b>VPLMN</b> (Visited PLMN);<br>The called user belongs to the same CUG with the following CUG supplementary options: <b>not IA; ICB</b>  |  |
| <b>Test purpose:</b>                    | Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access is allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> 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 the Facility IE which shall contain a ForwardCUG-Info with CUG Index (CI), Suppress Pref. CUG (SPC),<br><br>call establishment is not possible and the network initiate call clearing to the calling user with cause value # 55 "incoming calls barred within CUG". |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech; ForwardCUG-Info: CUG Index (CI);<br><br>Suppress Pref. CUG (SPC);  |  |
| <b>PLMN parameter values term.:</b>     |   |  |
| <b>Comments:</b>                        |   |  |



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| 1410524                                 | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39]  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/CUG/TC1410524   |  |
| <b>PLMN selection criteria origin.:</b> | The calling user belongs to a CUG with the following CUG supplementary options: <b>OA; not ocb; not Pref. CUG</b> ,<br><br>the calling user is roaming in a VPLMN (Visited PLMN).   |  |
| <b>PLMN selection criteria term.:</b>   | Calling user and called are subscribed to the <b>same</b> HPLMN;<br><br>the called user is roaming in the same <b>VPLMN</b> (Visited PLMN) of the calling user;<br><br>The called user belongs to the same CUG with the following CUG supplementary options: <b>not IA; ICB</b> ;   |  |
| <b>Test purpose:</b>                    | Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access is allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> 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 the Facility IE which shall contain a ForwardCUG-Info with CUG Index (CI), Suppress Pref. CUG (SPC),<br><br>call establishment is not possible and the network initiate call clearing to the calling user with cause value # 55 "incoming calls barred within CUG". |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech; ForwardCUG-Info: CUG Index (CI);<br><br>Suppress Pref. CUG (SPC);  |  |
| <b>PLMN parameter values term.:</b>     |   |  |
| <b>Comments:</b>                        |   |  |

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| 1410525                                 | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39]  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/CUG/TC1410525   |  |
| <b>PLMN selection criteria origin.:</b> | CUG supplementary options: <b>not OA; not OCB; not Pref. CUG</b>  |  |
| <b>PLMN selection criteria term.:</b>   | Calling user and called user belong to the <b>same</b> CUG;<br>CUG supplementary options: <b>not IA; not ICB.</b>   |  |
| <b>Test purpose:</b>                    | Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access not allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> 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 the Facility IE which shall contain a ForwardCUG-Info with CUG Index (CI),<br><br>the called user receives a SETUP message with a Facility IE which contains a CUG index associated with the invoked CUG. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech; ForwardCUG-Info: CUG Index (CI).   |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=speech; Facility (Invoke =NotifySS (CUG-Index))  |  |
| <b>Comments:</b>                        |   |  |

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| 1410526                                 | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39]  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/CUG/TC1410526   |  |
| <b>PLMN selection criteria origin.:</b> | CUG supplementary options: <b>not OA; not OCB; not Pref. CUG</b>  |  |
| <b>PLMN selection criteria term.:</b>   | Calling user and called are subscribed to the <b>same</b> HPLMN;<br>the called user is roaming in a <b>VPLMN</b> (Visited PLMN);<br>calling user and called user belong to the <b>same</b> CUG;<br>CUG supplementary options: <b>not IA; not ICB.</b>   |  |
| <b>Test purpose:</b>                    | Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access not allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> user belongs 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 the Facility IE which shall contain a ForwardCUG-Info with CUG Index (CI),<br><br>the called user receives a SETUP message with a Facility IE which contains a CUG index associated with the invoked CUG. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech; ForwardCUG-Info: CUG Index (CI).   |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=speech; Facility (Invoke =NotifySS (CUG-Index))  |  |
| <b>Comments:</b>                        |   |  |

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| 1410527                                 | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39]  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/CUG/TC1410527   |  |
| <b>PLMN selection criteria origin.:</b> | CUG supplementary options: <b>not OA; not OCB; not Pref. CUG</b><br>the calling user is roaming in a <b>VPLMN</b> (Visited PLMN).   |  |
| <b>PLMN selection criteria term.:</b>   | Calling user and called are subscribed to the <b>same</b> HPLMN;<br>the called user is roaming in the same <b>VPLMN</b> (Visited PLMN) of the calling user;<br>calling user and called user belong to the <b>same</b> CUG;<br>CUG supplementary options: <b>not IA; not ICB</b> .   |  |
| <b>Test purpose:</b>                    | Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access not allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> user belongs 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 the Facility IE which shall contain a ForwardCUG-Info with CUG Index (CI),<br><br>the called user receives a SETUP message with a Facility IE which contains a CUG index associated with the invoked CUG. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech; ForwardCUG-Info: CUG Index (CI).   |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=speech; Facility (Invoke =NotifySS (CUG-Index))  |  |
| <b>Comments:</b>                        |   |  |

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| 1410601                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 9.3.23.1.5  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/SUB/TC1410601  |  |
| <b>PLMN selection criteria origin.:</b> | SUB  |  |
| <b>PLMN selection criteria term.:</b>   | The called (served) user is provided with SUB  |  |
| <b>Test purpose:</b>                    | 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 |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech  |  |
| <b>PLMN parameter values term.:</b>     |  |  |
| <b>Comments:</b>                        |  |  |

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| 1410602                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 9.3.23.1.5  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/SUB/TC1410602  |  |
| <b>PLMN selection criteria origin.:</b> | SUB  |  |
| <b>PLMN selection criteria term.:</b>   | SUB  |  |
| <b>Test purpose:</b>                    | 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 |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=speech, Called party subaddress   |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech, Called party subaddress   |  |
| <b>Comments:</b>                        |  |  |

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| 1410701                                 | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 1<br>ETS 300 543 [31], subclause 1  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/CFU/TC1410701   |  |
| <b>PLMN selection criteria origin.:</b> | The user A and the user C are in network N1. User A is provided with COLP, user C is provided with CLIP.  |  |
| <b>PLMN selection criteria term.:</b>   | The user B is in network N2 provided with CFU ("calling user is notified of call diversion" = <b>Yes</b> ).   |  |
| <b>Test purpose:</b>                    | Ensure that when user A calls user B, the call is forwarded to user C.<br><br>User A is notified with a FACILITY (Invoke =NotifySS [CFU, SS-Notification]) message, user C is notified with a FACILITY IE (Invoke =NotifySS [CFU,SS-Notification]) of call diversion. |  |
| <b>PLMN parameter values origin.:</b>   | A: ! GSM-BC=speech  |  |
| <b>PLMN parameter values term.:</b>     | CFU active<br><br>C: ? GSM-BC=speech  |  |
| <b>Comments:</b>                        |   |  |

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| 1410702                                 | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 1<br>ETS 300 543 [31], subclause 1  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/CFU/TC1410702   |  |
| <b>PLMN selection criteria origin.:</b> | The user A and the user C are in network N1. User A is provided with COLP, user C is provided with CLIP.  |  |
| <b>PLMN selection criteria term.:</b>   | The user B is in network N2 provided with CFU ("calling user is notified of call diversion" = <b>No</b> ) and <b>CLIR</b> .   |  |
| <b>Test purpose:</b>                    | <p>Ensure that when user A calls user B, the call is forwarded to user C.</p> <p>User <b>A</b> is not notified of call diversion.</p> <p>User <b>C</b> is notified with a FACILITY IE (Invoke =NotifySS [CFU,SS-Notification]) of call diversion.</p> |  |
| <b>PLMN parameter values origin.:</b>   | <b>A:</b> ! GSM-BC=speech   |  |
| <b>PLMN parameter values term.:</b>     | CFU active<br><b>C:</b> ? GSM-BC=speech   |  |
| <b>Comments:</b>                        |   |  |

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| 1410801                                 | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 2<br>ETS 300 543 [31], subclause 2  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/CFB/TC1410801   |  |
| <b>PLMN selection criteria origin.:</b> | The user A and the user C are in network N1. User A is provided with COLP, user C is provided with CLIP.  |  |
| <b>PLMN selection criteria term.:</b>   | The user B is in network N2 and is provided with CFB- <b>NDUB</b> ("calling user is notified of call diversion" = <b>Yes</b> ; "notification to forwarding subscriber" = <b>Yes</b> ).  |  |
| <b>Test purpose:</b>                    | <p>Ensure that when user A calls busy user B, the call is forwarded to user C.</p> <p>User <b>A</b> is notified with a FACILITY (Invoke =NotifySS [CFB, SS-Notification]) message, user <b>C</b> is notified with a FACILITY IE (Invoke =NotifySS [CFU,SS-Notification]) of call diversion.</p> <p>User <b>B</b> is notified with a FACILITY (Invoke = NotifySS [CFB, SS-Notification ]) message of call diversion.</p> |  |
| <b>PLMN parameter values origin.:</b>   | <b>A:</b> ! GSM-BC=speech   |  |
| <b>PLMN parameter values term.:</b>     | CFB-NDUB active<br><b>C:</b> ? GSM-BC=speech  |  |
| <b>Comments:</b>                        |   |  |

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| 1410802                                 | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 2<br>ETS 300 543 [31], subclause 2   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/CFB/TC1410802  |  |
| <b>PLMN selection criteria origin.:</b> | The user A and the user C are in network N1. User A is provided with COLP, user C is provided with CLIP.   |  |
| <b>PLMN selection criteria term.:</b>   | The user B is in network N2 and is provided with CFB- <b>NDUB</b> ("calling user is notified of call diversion" = <b>No</b> ; "notification to forwarding subscriber" = <b>No</b> ) and <b>CLIR</b> .  |  |
| <b>Test purpose:</b>                    | <p>Ensure that when user A calls busy user B, the call is forwarded to user C.</p> <p>User <b>A</b> and <b>B</b> are not notified of call diversion.</p> <p>User <b>C</b> is notified with a FACILITY IE (Invoke =NotifySS [CFU,SS-Notification]) of call diversion.</p> |  |
| <b>PLMN parameter values origin.:</b>   | <b>A:</b> ! GSM-BC=speech  |  |
| <b>PLMN parameter values term.:</b>     | CFB-NDUB active<br><b>C:</b> ? GSM-BC=speech   |  |
| <b>Comments:</b>                        |  |  |

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| 1410901                                 | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 3<br>ETS 300 543 [31], subclause 3   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/CFNRy/TC1410901  |  |
| <b>PLMN selection criteria origin.:</b> | The user A and the user C are in network N1. User A is provided with COLP, user C is provided with CLIP.   |  |
| <b>PLMN selection criteria term.:</b>   | The user B is in network N2 and is provided with CFNRy ("calling user is notified of call diversion" = <b>Yes</b> , "notification to forwarding subscriber" = <b>Yes</b> ).  |  |
| <b>Test purpose:</b>                    | <p>Ensure that when user A calls user B, if unanswered, the call is forwarded to user C.</p> <p>User <b>A</b> is notified with a FACILITY (Invoke =NotifySS [CFNRy, SS-Notification]) message, user <b>C</b> is notified with a FACILITY IE (Invoke =NotifySS [CFNRy, SS-Notification]) of call diversion.</p> <p>User <b>B</b> is notified with a NOTIFY (Invoke = NotifySS [CFNRy, SS-Notification ]) message of call diversion.</p> |  |
| <b>PLMN parameter values origin.:</b>   | <b>A:</b> ! GSM-BC=speech  |  |
| <b>PLMN parameter values term.:</b>     | CFNRy active<br><b>C:</b> ? GSM-BC=speech  |  |
| <b>Comments:</b>                        |  |  |

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| 1410902                                 | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 3<br>ETS 300 543 [31], subclause 3   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/CFNRy/TC1410902  |  |
| <b>PLMN selection criteria origin.:</b> | The user A and the user C are in network N1. User A is provided with COLP, user C is provided with CLIP.   |  |
| <b>PLMN selection criteria term.:</b>   | The user B is in network N2 and is provided with CFNRy ("calling user is notified of call diversion" = <b>No</b> "notification to forwarding subscriber" = <b>No</b> ) and <b>CLIR</b> .   |  |
| <b>Test purpose:</b>                    | <p>Ensure that when user A calls user B, if unanswered, the call is forwarded to user C.</p> <p>User <b>A</b> and <b>B</b> are not notified of call diversion.</p> <p>User <b>C</b> is notified with a FACILITY IE (Invoke =NotifySS [CFU,SS-Notification]) of call diversion.</p> |  |
| <b>PLMN parameter values origin.:</b>   | <b>A:</b> ! GSM-BC=speech  |  |
| <b>PLMN parameter values term.:</b>     | CFNRy active<br><b>C:</b> ? GSM-BC=speech  |  |
| <b>Comments:</b>                        |  |  |

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| 1411001                                 | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 3<br>ETS 300 543 [31], subclause 3   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/CFNRc/TC1411001  |  |
| <b>PLMN selection criteria origin.:</b> | The user A and the user C are in network N1. User A is provided with COLP, user C is provided with CLIP.   |  |
| <b>PLMN selection criteria term.:</b>   | The user B is in network N2 and is provided with CFNRc ("calling user is notified of call diversion" = <b>Yes</b> ).   |  |
| <b>Test purpose:</b>                    | <p>Ensure that when user A calls user B, if detached, the call is forwarded to user C.</p> <p>User <b>A</b> is notified with a FACILITY (Invoke =NotifySS [CFNRy, SS-Notification]) message, user <b>C</b> is notified with a FACILITY IE (Invoke =NotifySS [CFNRy, SS-Notification]) of call diversion.</p> |  |
| <b>PLMN parameter values origin.:</b>   | <b>A:</b> ! GSM-BC=speech  |  |
| <b>PLMN parameter values term.:</b>     | CFNRc active, the user detached<br><b>C:</b> ? GSM-BC=speech   |  |
| <b>Comments:</b>                        |  |  |

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| 141102                                  | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 3<br>ETS 300 543 [31], subclause 3   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/CFNRc/TC1411002  |  |
| <b>PLMN selection criteria origin.:</b> | The user A and the user C are in network N1. User A is provided with COLP, user C is provided with CLIP.   |  |
| <b>PLMN selection criteria term.:</b>   | The user B is in network N2 and is provided with CFNRc ("calling user is notified of call diversion" = <b>No</b> ) and <b>CLIR</b> .   |  |
| <b>Test purpose:</b>                    | Ensure that when user A calls user B, if detached the call is forwarded to user C.<br><br>User A is not notified of call diversion.<br><br>User C is notified with a FACILITY IE (Invoke =NotifySS [CFU,SS-Notification]) of call diversion. |  |
| <b>PLMN parameter values origin.:</b>   | A: ! GSM-BC=speech   |  |
| <b>PLMN parameter values term.:</b>     | CFNRc active, the user is detached<br><br>C: ? GSM-BC=speech   |  |
| <b>Comments:</b>                        |  |  |

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| 1411101                                 | <b>PLMN ref. to:</b><br>ETS 300 544 [32], subclause 2<br>ETS 300 567 [38], subclause 2   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/HOLD/TC1411101   |  |
| <b>PLMN selection criteria origin.:</b> | The calling user is provided with HOLD   |  |
| <b>PLMN selection criteria term.:</b>   | HOLD   |  |
| <b>Test purpose:</b>                    | Ensure that the calling user can initiate Call Hold, the called remote user is notified of call hold and the call can be retrieved |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=speech  |  |
| <b>Comments:</b>                        |  |  |



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| 1411102                                 | <b>PLMN ref. to:</b><br>ETS 300 544 [32], subclause 2<br>ETS 300 567 [38], subclause 2  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/HOLD/TC1411102  |  |
| <b>PLMN selection criteria origin.:</b> | The calling user is provided with HOLD  |  |
| <b>PLMN selection criteria term.:</b>   | HOLD  |  |
| <b>Test purpose:</b>                    | 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 in the held state. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech   |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=speech   |  |
| <b>Comments:</b>                        |   |  |

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| 1411103                                 | <b>PLMN ref. to:</b><br>ETS 300 544 [32], subclause 2<br>ETS 300 567 [38], subclause 2   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/HOLD/TC1411103   |  |
| <b>PLMN selection criteria origin.:</b> | The calling user is provided with HOLD   |  |
| <b>PLMN selection criteria term.:</b>   | HOLD   |  |
| <b>Test purpose:</b>                    | 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 non –served user during the held state. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=speech  |  |
| <b>Comments:</b>                        |  |  |

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| 1411104                                 | <b>PLMN ref. to:</b><br>ETS 300 544 [32], subclause 2<br>ETS 300 567 [38], subclause 2   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/HOLD/TC1411104   |  |
| <b>PLMN selection criteria origin.:</b> | HOLD   |  |
| <b>PLMN selection criteria term.:</b>   | The called user is provided with HOLD  |  |
| <b>Test purpose:</b>                    | Ensure that the called user can initiate Call Hold, the calling remote user is notified of call hold and the call can be retrieved |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=speech  |  |
| <b>Comments:</b>                        |  |  |

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| 1411105                                 | <b>PLMN ref. to:</b><br>ETS 300 544 [32], subclause 2<br>ETS 300 567 [38], subclause 2   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/HOLD/TC1411105   |  |
| <b>PLMN selection criteria origin.:</b> | HOLD   |  |
| <b>PLMN selection criteria term.:</b>   | The called user is provided with HOLD  |  |
| <b>Test purpose:</b>                    | Ensure that the called user can initiate Call Hold, the calling remote user is notified of call hold and that the call can be released from the called user in the held state. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=speech  |  |
| <b>Comments:</b>                        |  |  |

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| 1411106                                 | <b>PLMN ref. to:</b><br>ETS 300 544 [32], subclause 2<br>ETS 300 567 [38], subclause 2   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/HOLD/TC1411106   |  |
| <b>PLMN selection criteria origin.:</b> | HOLD   |  |
| <b>PLMN selection criteria term.:</b>   | The called user is provided with HOLD  |  |
| <b>Test purpose:</b>                    | Ensure that the called user can initiate Call Hold, the calling remote user is notified of call hold and that the call can be released from the calling non – served user during the held state. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=speech  |  |
| <b>Comments:</b>                        |  |  |

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| 1411201                                 | <b>PLMN ref. to:</b><br>ETS 300 544 [32], subclause 1<br>ETS 300 567 [38], subclause 1     |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/CW/TC1411201                                       |  |
| <b>PLMN selection criteria origin.:</b> | CW   |  |
| <b>PLMN selection criteria term.:</b>   | The called user is provided with CW  |  |
| <b>Test purpose:</b>                    | Ensure that the called user (MS) is busy, the called user is notified of the call waiting. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=speech  |  |
| <b>Comments:</b>                        |  |  |

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| 1411202                                 | <b>PLMN ref. to:</b><br>ETS 300 544 [32], subclause 1<br>ETS 300 567 [38], subclause 1    |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/CW/TC1411202                                      |  |
| <b>PLMN selection criteria origin.:</b> | CW  |  |
| <b>PLMN selection criteria term.:</b>   | The called user is provided with CW   |  |
| <b>Test purpose:</b>                    | Ensure that the Waiting call is released at the terminating exchange after timer expired. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech   |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=speech   |  |
| <b>Comments:</b>                        |   |  |

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| 1411301                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 10.5.4.25,  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/UUS1/TC1411301   |  |
| <b>PLMN selection criteria origin.:</b> | UUS1   |  |
| <b>PLMN selection criteria term.:</b>   | UUS1   |  |
| <b>Test purpose:</b>                    | 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 |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech, UI length=32  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=speech, UI length=32  |  |
| <b>Comments:</b>                        |  |  |

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| 1411302                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 10.5.4.25,  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/UUS1/TC1411302   |  |
| <b>PLMN selection criteria origin.:</b> | UUS1   |  |
| <b>PLMN selection criteria term.:</b>   | UUS1   |  |
| <b>Test purpose:</b>                    | 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. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech, UI length=32  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=speech, UI length=32  |  |
| <b>Comments:</b>                        |  |  |

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| 1411303                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 10.5.4.25   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/UUS1/TC1411303   |  |
| <b>PLMN selection criteria origin.:</b> | UUS1   |  |
| <b>PLMN selection criteria term.:</b>   | UUS1   |  |
| <b>Test purpose:</b>                    | 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 |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech, UI length=32  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=speech, UI length=32  |  |
| <b>Comments:</b>                        |  |  |

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| 1411304                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 10.5.4.25,  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/UUS1/TC1411304   |  |
| <b>PLMN selection criteria origin.:</b> | UUS1   |  |
| <b>PLMN selection criteria term.:</b>   | UUS1   |  |
| <b>Test purpose:</b>                    | 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. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech, UI length=32  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=speech, UI length=32  |  |
| <b>Comments:</b>                        |  |  |

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| 1411305                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 10.5.4.25,  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/UUS1/TC1411305   |  |
| <b>PLMN selection criteria origin.:</b> | UUS1   |  |
| <b>PLMN selection criteria term.:</b>   | UUS1   |  |
| <b>Test purpose:</b>                    | 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 |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech, UI length=32  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=speech, UI length=32  |  |
| <b>Comments:</b>                        |  |  |

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| 1411306                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35]   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/UUS1/TC1411306                                       |  |
| <b>PLMN selection criteria origin.:</b> | UUS1   |  |
| <b>PLMN selection criteria term.:</b>   | UUS1   |  |
| <b>Test purpose:</b>                    | To verify that UUI can be discarded by the network B without disrupting Normal call handling |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech, UI length=32  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=speech  |  |
| <b>Comments:</b>                        | .  |  |

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| 1411401                                 | <b>PLMN ref. to:</b><br>ETS 300 517, ETS 300 545  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/MPTY/TC1411401  |  |
| <b>PLMN selection criteria origin.:</b> | MPTY  |  |
| <b>PLMN selection criteria term.:</b>   | MPTY  |  |
| <b>Test purpose:</b>                    | <p>User A is in network N1. User B and user C are in network N2.</p> <p>Ensure that the user A can establish a MPTY call to user B and user C.</p> <p>User A is terminating the entire multi party call.</p>  |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech   |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=speech   |  |
| <b>Comments:</b>                        | <p>User A calls user B. After call establishment user A initiates call hold. Then user A calls user C. After call establishment user A invokes the MPTY service by sending a FACILITY message to the network containing the BuildMPTY request which indicates to the network that the mobile subscriber wishes all his calls to be connected together in a multi party call. User A is terminating the entire multi party call.</p> |  |

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| 1411402                                 | <b>PLMN ref. to:</b><br>ETS 300 517, ETS 300 545   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/MPTY/TC1411402   |  |
| <b>PLMN selection criteria origin.:</b> | MPTY   |  |
| <b>PLMN selection criteria term.:</b>   | MPTY   |  |
| <b>Test purpose:</b>                    | <p>User A is in network N1. User B and user C are in network N2.</p> <p>Ensure that the user A can establish a MPTY call to user B and user C and release the remote party C. The call clearing procedure to user B is performed from user A.</p>  |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=speech  |  |
| <b>Comments:</b>                        | <p>User A calls user B. After call establishment user A initiates call hold. Then user A calls user C. After call establishment user A invokes the MPTY service by sending a FACILITY message to the network containing the BuildMPTY request which indicates to the network that the mobile subscriber wishes all his calls to be connected together in a multi party call. The call clearing procedure to user B is performed from user A.</p> |  |

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| 1411403                                 | <b>PLMN ref. to:</b><br>ETS 300 517, ETS 300 545   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/MPTY/TC1411403   |  |
| <b>PLMN selection criteria origin.:</b> | MPTY   |  |
| <b>PLMN selection criteria term.:</b>   | MPTY   |  |
| <b>Test purpose:</b>                    | <p>User A is in network N1. User B and user C are in network N2.</p> <p>Ensure that the user A can establish a MPTY call to user B and user C.</p> <p>Afterwards the remote party C disconnects itself from the call. The call clearing procedure to user B is performed from user A.</p>  |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=speech  |  |
| <b>Comments:</b>                        | <p>User A calls user B. After call establishment user A initiates call hold. Then user A calls user C. After call establishment user A invokes the MPTY service by sending a FACILITY message to the network containing the BuildMPTY request which indicates to the network that the mobile subscriber wishes all his calls to be connected together in a multi party call.</p> |  |

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| 1411404                                 | <b>PLMN ref. to:</b><br>ETS 300 517, ETS 300 545   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/MPTY/TC1411404   |  |
| <b>PLMN selection criteria origin.:</b> | MPTY   |  |
| <b>PLMN selection criteria term.:</b>   | MPTY   |  |
| <b>Test purpose:</b>                    | <p>User A is in network N1. User B and user C are in network N2.</p> <p>Ensure that the user A can establish a MPTY call to user B and user C and</p> <p>Separate the remote user B from the multi-party call which is placed on hold (A-B ACTIVE / MPTY HELD). User A terminates the multi-party call and the single active call.</p>   |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=speech  |  |
| <b>Comments:</b>                        | <p>User A calls user B. After call establishment user A initiates call hold. Then user A calls user C. After call establishment user A invokes the MPTY service by sending a FACILITY message to the network containing the BuildMPTY request which indicates to the network that the mobile subscriber wishes all his calls to be connected together in a multi party call.</p> <p>To separate the remote user B from the MPTY, the served mobile will send a SplitMPTY message to the network. The network will send normal CallOnHold notifications to the remote parties on hold in the MPTY call.</p> |  |



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| 1411405                                 | <b>PLMN ref. to:</b><br>ETS 300 517, ETS 300 545   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/MPTY/TC1411405   |  |
| <b>PLMN selection criteria origin.:</b> | MPTY   |  |
| <b>PLMN selection criteria term.:</b>   | MPTY   |  |
| <b>Test purpose:</b>                    | <p>User A is in network N1. User B and user C are in network N2.</p> <p>Ensure that the user A can establish a MPTY call to user B and user C and</p> <p>Create a private communication between A and B. The multi-party call is placed on hold (A-B ACTIVE / MPTY HELD). User A terminates the held multi party C, user B is clears the A-B ACTIVE call.</p>  |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=speech  |  |
| <b>Comments:</b>                        | <p>User A calls user B. After call establishment user A initiates call hold. Then user A calls user C. After call establishment user A invokes the MPTY service by sending a FACILITY message to the network containing the BuildMPTY request which indicates to the network that the mobile subscriber wishes all his calls to be connected together in a multi party call.</p> <p>To separate the remote user B from the MPTY, the served mobile will send a SplitMPTY message to the network. The network will send normal CallOnHold notifications to the remote parties on hold in the MPTY call.</p> |  |

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| 1411406                                 | <b>PLMN ref. to:</b><br>ETS 300 517, ETS 300 545   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/MPTY/TC1411406   |  |
| <b>PLMN selection criteria origin.:</b> | MPTY   |  |
| <b>PLMN selection criteria term.:</b>   | MPTY   |  |
| <b>Test purpose:</b>                    | <p>User A is in network N1. User B and user C are in network N2.</p> <p>Ensure that the user A can establish a MPTY call to user B and user C and create a private communication between A and B. The multi-party call is placed on hold (A-B ACTIVE / MPTY HELD). User B is clearing the A-B Active call.</p> <p>After the completion of the Retrieve function user A terminates the multi-party call with C.</p>   |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=speech  |  |
| <b>Comments:</b>                        | <p>User A calls user B. After call establishment user A initiates call hold. Then user A calls user C. After call establishment user A invokes the MPTY service by sending a FACILITY message to the network containing the BuildMPTY request which indicates to the network that the mobile subscriber wishes all his calls to be connected together in a multi party call.</p> <p>To separate the remote user B from the MPTY, the served mobile will send a SplitMPTY message to the network. The network will send normal CallOnHold notifications to the remote parties on hold in the MPTY call.</p> <p>User B is clearing the A-B Active call. After the completion of the Retrieve function with a FACILITY message with a transaction identifier corresponding to any call in the MPTY, user A terminates the multi-party call.</p> |  |

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| 1411407                                 | <b>PLMN ref. to:</b><br>ETS 300 517, ETS 300 545   |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/MPTY/TC1411407   |
| <b>PLMN selection criteria origin.:</b> | MPTY   |
| <b>PLMN selection criteria term.:</b>   | MPTY   |
| <b>Test purpose:</b>                    | <p>User A is in network N1. User B and user C are in network N2.</p> <p>Ensure that the user A can establish a MPTY call to user B and user C and</p> <p>Create a private communication between A and B. The multi-party call is placed on hold</p> <p>(A-B ACTIVE / MPTY HELD). User C is clearing the MPTY held call.</p> <p>User B is clearing the A-B Active call.</p>   |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=speech  |
| <b>Comments:</b>                        | <p>User A calls user B. After call establishment user A initiates call hold. Then user A calls user C. After call establishment user A invokes the MPTY service by sending a FACILITY message to the network containing the BuildMPTY request which indicates to the network that the mobile subscriber wishes all his calls to be connected together in a multi party call.</p> <p>To separate the remote user B from the MPTY, the served mobile will send a SplitMPTY message to the network. The network will send normal CallOnHold notifications to the remote parties on hold in the MPTY call.</p> <p>User C is clearing the MPTY held call. User B is clearing the A-B Active call.</p> |

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| 1411408                                 | <b>PLMN ref. to:</b><br>ETS 300 517, ETS 300 545   |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/MPTY/TC1411408   |
| <b>PLMN selection criteria origin.:</b> | MPTY   |
| <b>PLMN selection criteria term.:</b>   | MPTY   |
| <b>Test purpose:</b>                    | <p>User A is in network N1. User B and user C are in network N2.</p> <p>Ensure that the user A can establish a MPTY call to user B and user C and create a private communication between A and B. The multi-party call is placed on hold (A-B ACTIVE / MPTY HELD). User A invokes the MPTY service and join the single active call and the held MPTY together. User A is terminating the entire multi party call.</p>  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=speech  |
| <b>Comments:</b>                        | <p>User A calls user B. After call establishment user A initiates call hold. Then user A calls user C. After call establishment user A invokes the MPTY service by sending a FACILITY message to the network containing the BuildMPTY request which indicates to the network that the mobile subscriber wishes all his calls to be connected together in a multi party call.</p> <p>To separate the remote user B from the MPTY, the served mobile will send a SplitMPTY message to the network. The network will send normal CallOnHold notifications to the remote parties on hold in the MPTY call.</p> <p>User A invokes the MPTY service by sending a FACILITY message to the network containing the BuildMPTY request which indicates to the network that the mobile subscriber wishes to join the single active call and the held MPTY together in a multi party call. User A is terminating the entire multi party call.</p> |

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| 1411409                                 | <b>PLMN ref. to:</b><br>ETS 300 517, ETS 300 545   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/MPTY/TC1411409   |  |
| <b>PLMN selection criteria origin.:</b> | MPTY   |  |
| <b>PLMN selection criteria term.:</b>   | MPTY   |  |
| <b>Test purpose:</b>                    | <p>User A is in network N1. User B and user C are in network N2.</p> <p>Ensure that the user A can establish a MPTY call to user B and user C and create a private communication between A and B. The multi-party call is placed on hold (A-B ACTIVE / MPTY HELD). After initiating of call hold, the call A-B has an ACTIVE –HOLD- REQUEST connection.</p> <p>After the completion of the Retrieve function concerning the MPTY call, the MPTY call is an active connection (A-C) and the A-B call has an Active-Held connection. (A-B HELD / MPTY ACTIVE).</p> <p>User A is terminating the multi party call. User B is clearing the Active-Held call.</p> |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=speech  |  |
| <b>Comments:</b>                        |  |  |

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| 1411410                                 | <b>PLMN ref. to:</b><br>ETS 300 517, ETS 300 545  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/MPTY/TC1411410  |  |
| <b>PLMN selection criteria origin.:</b> | MPTY  |  |
| <b>PLMN selection criteria term.:</b>   | MPTY  |  |
| <b>Test purpose:</b>                    | <p>User A is in network N1. User B and user C are in network N2.</p> <p>Ensure that the user A can establish a MPTY call to user B and user C and Create a private communication between A and B. The multi-party call is placed on hold (A-B ACTIVE / MPTY HELD). After initiating of call hold, the call A-B has an ACTIVE –HOLD- REQUEST connection.</p> <p>After the completion of the Retrieve function concerning the MPTY call, the MPTY call is an active connection (A-C) and the A-B call has an Active-Held connection. (A-B HELD / MPTY ACTIVE).</p> <p>User C is terminating the multi party call. After the completion of the Retrieve function concerning the A-B Active-Held call, user A is clearing the A-B connection.</p> |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech   |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=speech   |  |
| <b>Comments:</b>                        |   |  |

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| 1411411                                 | <b>PLMN ref. to:</b><br>ETS 300 517, ETS 300 545   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/MPTY/TC1411411   |  |
| <b>PLMN selection criteria origin.:</b> | MPTY   |  |
| <b>PLMN selection criteria term.:</b>   | MPTY   |  |
| <b>Test purpose:</b>                    | <p>User A is in network N1. User B and user C are in network N2.</p> <p>Ensure that the user A can establish a MPTY call to user B and user C and</p> <p>Separate the remote user C from the multi-party call which is placed on hold (A-B ACTIVE / MPTY HELD). After initiating of call hold, the call A-B has an ACTIVE –HOLD- REQUEST connection.</p> <p>After the completion of the Retrieve function concerning the MPTY call, the MPTY call is an active connection (A-C) and the A-B call has an Active-Held connection. (A-B HELD / MPTY ACTIVE).</p> <p>User C is terminating the multi party call. After the completion of the Retrieve function concerning the A-B Active-Held call, user B is clearing the A-B connection.</p> |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=speech  |  |
| <b>Comments:</b>                        |  |  |

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| 1411501                                 | <b>PLMN ref. to:</b><br>ETS 300 548 [34]   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/Call barring service/<br>TC1411501   |  |
| <b>PLMN selection criteria origin.:</b> | The calling user activates Barring of Outgoing international   |  |
| <b>PLMN selection criteria term.:</b>   |  |  |
| <b>Test purpose:</b>                    | <p>The calling user activates Barring of Outgoing international Calls except those to the home PLMN country (BOIC-exHC). The user is roaming outside the home PLMN country. Barring of Outgoing international Calls except those to the home PLMN country is supported by the PLMN in which the served mobile subscriber currently roams.</p> <p>Ensure that when the calling user activates Barring of Outgoing International Calls except those to the home PLMN country (BOIC-exHC) and the user is roaming outside the home PLMN country, call establishment to the home PLMN country is successful.</p> |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=speech  |  |
| <b>Comments:</b>                        |  |  |

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| 1411502                                 | <b>PLMN ref. to:</b><br>ETS 300 548 [34]   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Call barring service/TC1411502  |  |
| <b>PLMN selection criteria origin.:</b> |  |  |
| <b>PLMN selection criteria term.:</b>   | The PLMN supports barring of all incoming calls (BAIC).  |  |
| <b>Test purpose:</b>                    | Ensure that when the called user activates barring of all incoming calls, call establishment is not possible. The calling user receives a FACILITY IE (Invoke =NotifySS (SS-Code, SS-Status)) in a clearing message. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech  |  |
| <b>PLMN parameter values term.:</b>     |  |  |
| <b>Comments:</b>                        |  |  |

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| 1411503                                 | <b>PLMN ref. to:</b><br>ETS 300 548 [34]   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Call barring service/TC1411503  |  |
| <b>PLMN selection criteria origin.:</b> |  |  |
| <b>PLMN selection criteria term.:</b>   | The Network B supports barring of all incoming calls (BAIC) and barring of incoming calls when roaming outside the home PLMN country (BIC-Roam). The MS is roaming outside the home PLMN country.  |  |
| <b>Test purpose:</b>                    | <p>The Network B supports barring of all incoming calls (BAIC) and barring of incoming calls when roaming outside the home PLMN country (BIC-Roam). The MS is roaming outside the home PLMN country.</p> <p>Ensure that when the called user activates barring of incoming calls when roaming outside the home PLMN country was already activated, barring of incoming calls when roaming outside the home PLMN country will be deactivated and barring of all incoming calls will be activated.</p> <p>Call establishment is not possible. The calling user receives a FACILITY IE (Invoke =NotifySS (SS-Code, SS-Status)) in a clearing message.</p> |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech  |  |
| <b>PLMN parameter values term.:</b>     |  |  |
| <b>Comments:</b>                        |  |  |

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| 1411601                                 | <b>PLMN ref. to:</b><br>ETS 300 518 [30]  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/CUG_CFU/TC1411601   |  |
| <b>PLMN selection criteria origin.:</b> | User A belongs to a CUG with the following CUG supplementary options:<br><b>not OA; not ocb; not Pref. CUG.</b>   |  |
| <b>PLMN selection criteria term.:</b>   | User B and C belongs to the same CUG.<br>User B has the following CUG supplementary options: <b>not OA; not ocb; not Pref. CUG</b><br>User B is provided with CFU and has an active call forwarding to C.<br>User C has the following CUG supplementary options: <b>not IA, not ICB</b> |  |
| <b>Test purpose:</b>                    | Ensure that a call establishment is successful.   |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech   |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=speech   |  |
| <b>Comments:</b>                        |   |  |

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| 1411602                                 | <b>PLMN ref. to:</b><br>ETS 300 518 [30]   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/CUG_CFU/TC1411602  |  |
| <b>PLMN selection criteria origin.:</b> | User A belongs to a CUG with the following CUG supplementary options:<br><b>not OA; not ocb; not Pref. CUG.</b>  |  |
| <b>PLMN selection criteria term.:</b>   | User B belongs to the same CUG with the following CUG supplementary options:<br><b>not OA; not ocb; not Pref. CUG</b><br>User B is provided with CFU and has an active call forwarding to C.<br>User C is not member of CUG. |  |
| <b>Test purpose:</b>                    | Ensure that a call establishment is not successful. The network initiate call clearing to the calling user A with cause value #87 "user not member of CUG".  |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech  |  |
| <b>PLMN parameter values term.:</b>     |  |  |
| <b>Comments:</b>                        |  |  |



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| 1411603                                 | <b>PLMN ref. to:</b><br>ETS 300 518 [30]   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/CUG_CFU/TC1411603  |  |
| <b>PLMN selection criteria origin.:</b> | User A belongs to a CUG with the following CUG supplementary options:<br><b>not OA; not ocb; not Pref. CUG.</b>  |  |
| <b>PLMN selection criteria term.:</b>   | User B belongs to the same CUG with the following CUG supplementary options:<br><b>OA; not ocb; not Pref. CUG</b><br><br>User B is provided with CFU and has an active call forwarding to C.<br><br>User C is not member of CUG. |  |
| <b>Test purpose:</b>                    | Ensure that a call establishment is not successful. The network initiate call clearing to the calling user A with cause value #87 "user not member of CUG".  |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech  |  |
| <b>PLMN parameter values term.:</b>     |  |  |
| <b>Comments:</b>                        |  |  |

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| 1411604                                 | <b>PLMN ref. to:</b><br>ETS 300 518 [30]  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/CUG_CFU/TC1411604   |  |
| <b>PLMN selection criteria origin.:</b> | User A belongs to a CUG with the following CUG supplementary options:<br><b>OA; not ocb; not Pref. CUG.</b>   |  |
| <b>PLMN selection criteria term.:</b>   | User B belongs to the same CUG.<br><br>User B has the following CUG supplementary options: <b>not OA; not ocb; not Pref. CUG.</b><br><br>User B is provided with CFU and has active call forwarding to C.<br><br>User C is not member of CUG. |  |
| <b>Test purpose:</b>                    | Ensure that a call establishment is not successful. The network initiate call clearing to the calling user A with cause value #87 "user not member of CUG".   |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech   |  |
| <b>PLMN parameter values term.:</b>     |   |  |
| <b>Comments:</b>                        |   |  |

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| 1411605                                 | <b>PLMN ref. to:</b><br>ETS 300 518 [30]   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/CUG_CFU/TC1411605  |  |
| <b>PLMN selection criteria origin.:</b> | User A belongs to a CUG with the following CUG supplementary options:<br><b>OA; not ocb; not Pref. CUG.</b>  |  |
| <b>PLMN selection criteria term.:</b>   | User B and C belong to the same CUG.<br><br>User B has the following CUG supplementary options: <b>not OA; not ocb; not Pref. CUG.</b><br><br>User B is provided with CFU and has active call forwarding to C. |  |
| <b>Test purpose:</b>                    | Ensure that a call establishment is successful but the OA indicator is not provided to C.  |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=speech  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=speech  |  |
| <b>Comments:</b>                        |  |  |

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| 1411701                                 | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 2<br>ETS 300 543 [31], subclause 2   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/CFB_CW/TC1411701   |  |
| <b>PLMN selection criteria origin.:</b> | The user A and the user C are in network N1.   |  |
| <b>PLMN selection criteria term.:</b>   | The user B is in network N2 and is provided with CFB ("calling user is notified of call diversion" = <b>Yes</b> ;) and CW.   |  |
| <b>Test purpose:</b>                    | Ensure that when user A calls busy user B, the call is forwarded to user C.<br><br>User A is notified with a FACILITY (Invoke =NotifySS [CFB, SS-Notification]) message, user C is notified with a FACILITY IE (Invoke =NotifySS [CFB,SS-Notification]) of call diversion. |  |
| <b>PLMN parameter values origin.:</b>   | <b>A:</b> ! GSM-BC=speech  |  |
| <b>PLMN parameter values term.:</b>     | <b>B:</b> CFB-UDUB, CW active<br><br><b>C:</b> ? GSM-BC=speech   |  |
| <b>Comments:</b>                        |  |  |

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|---|---|--|
| 1411702                                 | <b>PLMN ref. to:</b><br>ETS 300 566 [37], subclause 2<br>ETS 300 543 [31], subclause 2  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/Speech/CFB_CW/TC1411702  |  |
| <b>PLMN selection criteria origin.:</b> | The user A and the user C are in network N1.  |  |
| <b>PLMN selection criteria term.:</b>   | The user B is in network N2 and is provided with CFB ("calling user is notified of call diversion" = No) and CW.  |  |
| <b>Test purpose:</b>                    | <p>Ensure that when user A calls busy user B, the call is forwarded to user C.</p> <p>User A and B are not notified of call diversion.</p> <p>User C is notified with a FACILITY IE (Invoke =NotifySS [CFB,SS-Notification]) of call diversion.</p> |  |
| <b>PLMN parameter values origin.:</b>   | A: ! GSM-BC=speech  |  |
| <b>PLMN parameter values term.:</b>     | B: CFB-UDUB, CW active<br>C: ? GSM-BC=speech  |  |
| <b>Comments:</b>                        |   |  |

#### 6.2.14.2 Bearer capability "UDI"

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|-------------------------------|--|
| <b>Supplementary Services</b> |  |
| <b>UDI</b>                    |  |

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| 1420101                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 9.3.23.2,<br>ETS 300 542 [57] ,<br>subclause 1<br>ETS 300 565 [36], subclause 1   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/UDI/CLIP/TC1420101  |  |
| <b>PLMN selection criteria origin.:</b> | CLIP   |  |
| <b>PLMN selection criteria term.:</b>   | The called user is provided with CLIP  |  |
| <b>Test purpose:</b>                    | Ensure that when the Calling party subaddress is provided by the calling user, the Calling party number and Calling party subaddress information elements are correctly delivered to the called (served) user. |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC = UDI with V.110/X.30 rate adaption, Calling party subaddress   |  |

|                                       |   |
|---------------------------------------|---|
| <b>PLMN parameter values origin.:</b> | GSM-BC= UDI with V.110/X.30 rate adaption<br>Calling party number: PI=PA TON= national/international number SI=NP,<br>NPI= ISDN/Telephony numbering plan (ITU-T Rec. E.164 [25] ) |
| <b>Comments:</b>                      |   |

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| 1420102                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 9.3.23.2<br>ETS 300 542 [57] ,<br>subclause 1<br>ETS 300 565 [36], subclause 1   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/UDI/CLIP/TC1420102   |  |
| <b>PLMN selection criteria origin.:</b> | CLIP  |  |
| <b>PLMN selection criteria term.:</b>   | The called user is provided with CLIP   |  |
| <b>Test purpose:</b>                    | 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. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC= UDI with V.110/X.30 rate adaption,<br>Calling party number: PI=PA SI=NP TON= national/international number,<br>NPI= ISDN/Telephony numbering plan (ITU-T Rec. E.164 [25] )                  |  |
| <b>Comments:</b>                        |   |  |

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|---|--|--|
| 1420201                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 9.3.23.2<br>ETS 300 542 [57] ,<br>subclause 2,<br>ETS 300 565 [36], subclause 2   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/UDI/CLIR/TC1420201  |  |
| <b>PLMN selection criteria origin.:</b> | CLIR   |  |
| <b>PLMN selection criteria term.:</b>   | The called user is provided with CLIP  |  |
| <b>Test purpose:</b>                    | The calling user is provided with CLIR permanent mode subscription.<br><br>Ensure that when the Calling party subaddress is provided by the calling user the Calling party number information element is delivered to the called user without any digit information. The Calling party subaddress shall not be present |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC = UDI with V.110/X.30 rate adaption, Calling party subaddress   |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC= UDI with V.110/X.30 rate adaption,<br>Calling party number: PI=PR TON = NP I= unknown SI=NP  |  |
| <b>Comments:</b>                        |  |  |

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|---|--|--|
| 1420202                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 9.3.23.2<br>ETS 300 542 [57] , subclause 2<br>ETS 300 565 [36], subclause 2   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/UDI/CLIR/TC1420202  |  |
| <b>PLMN selection criteria origin.:</b> | CLIR   |  |
| <b>PLMN selection criteria term.:</b>   | The called user is provided with CLIP  |  |
| <b>Test purpose:</b>                    | The calling user is provided with CLIR permanent mode subscription<br><br>Ensure that when No Calling party subaddress is provided by the calling user the Calling party number information element is delivered to the called user without any digit information. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption   |  |
| <b>PLMN parameter values term.:</b>     | Calling party number: PI=PR TON = NP I= unknown SI=NP  |  |
| <b>Comments:</b>                        |  |  |

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|---|--|--|
| 1420301                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 9.3.5.2<br>ETS 300 542 [57] , subclause 3<br>ETS 300 565 [36], subclause 3  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/UDI/COLP/TC1420301  |  |
| <b>PLMN selection criteria origin.:</b> | The calling user is provided with COLP   |  |
| <b>PLMN selection criteria term.:</b>   | COLP   |  |
| <b>Test purpose:</b>                    | Ensure that when the Connected subaddress number is provided by the called user, the Connected number and Connected subaddress information elements are correctly delivered to the calling (served) user.          |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption,<br><br>Connected number PI=PA, SI=NP, TON= national/international number,<br><br>NPI= ISDN/Telephony numbering plan (ITU-T Rec. E.164 [25] )<br><br>Connected subaddress |  |
| <b>PLMN parameter values term.:</b>     | Connected subaddress   |  |
| <b>Comments:</b>                        |  |  |

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|---|---|--|
| 1420302                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 9.3.5.2<br>ETS 300 542 [57] , subclause 3<br>ETS 300 565 [36], subclause 3   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/UDI/COLP/TC1420302   |  |
| <b>PLMN selection criteria origin.:</b> | The calling user is provided with COLP  |  |
| <b>PLMN selection criteria term.:</b>   | COLP  |  |
| <b>Test purpose:</b>                    | Ensure that when No Connected subaddress is provided by the called user, the Connected number information element is network provided and correctly delivered to the calling (served) user. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC = UDI with V.110/X.30 rate adaption,<br><br>Connected number: SI=NP TON= national/international number,<br><br>NPI= ISDN/Telephony numbering plan (ITU-T Rec. E.164 [25] )           |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC = UDI with V.110/X.30 rate adaption  |  |
| <b>Comments:</b>                        |   |  |

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|---|---|--|
| 1420401                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 9.3.5.2<br>ETS 300 542 [57] , subclause 3<br>ETS 300 565 [36], subclause 3   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/UDI/COLR/TC1420401   |  |
| <b>PLMN selection criteria origin.:</b> | The calling user is provided with COLP  |  |
| <b>PLMN selection criteria term.:</b>   | COLR  |  |
| <b>Test purpose:</b>                    | The called (served) user is provided with COLR permanent mode subscription.<br><br>Ensure that when No Connected subaddress is provided by the called user, the Connected number information element is network provided and delivered to the calling user without any digit information. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC = UDI with V.110/X.30 rate adaption,<br><br>Connected number: PI=PR, SI=NP, TON=unknown, NPI=unknown;  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC = UDI with V.110/X.30 rate adaption  |  |
| <b>Comments:</b>                        |   |  |

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|---|---|--|
| 1420501                                 | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39]  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/UDI/CUG/TC1420501  |  |
| <b>PLMN selection criteria origin.:</b> | CUG supplementary options: <b>not OA; not ocb; not Pref. CUG</b>  |  |
| <b>PLMN selection criteria term.:</b>   | Calling user and called user belong to the <b>same</b> CUG;<br><br>CUG supplementary options: <b>IA; not ICB</b>  |  |
| <b>Test purpose:</b>                    | Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access is not allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> 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 the Facility IE which shall contain a ForwardCUG-Info with CUG Index (CI), Suppress Pref. CUG (SPC), Suppress OA (SOA)<br><br>the called user receives a SETUP message with a Facility IE which contains an CUG index associated with the invoked CUG. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC= UDI with V.110/X.30 rate adaption;<br><br>ForwardCUG-Info: CUG Index (CI);<br><br>Suppress Pref. CUG (SPC);<br><br>Suppress OA (SOA)  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=UDI with V.110/X.30 rate adaption; Facility (Invoke =NotifySS (CUG-Index))   |  |
| <b>Comments:</b>                        |   |  |

|   |   |
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| 1420502                                 | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39]  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/UDI/CUG/TC810502   |
| <b>PLMN selection criteria origin.:</b> | CUG supplementary options: <b>not OA; not ocb; not Pref. CUG</b>  |
| <b>PLMN selection criteria term.:</b>   | Calling user and called are subscribed to the <b>same</b> HPLMN;<br>the called user is roaming in a <b>VPLMN</b> (Visited PLMN);<br>Calling user and called user belong to the <b>same</b> CUG;<br>CUG supplementary options: <b>IA; not ICB</b>  |
| <b>Test purpose:</b>                    | Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access is not allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> 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 the Facility IE which shall contain a ForwardCUG-Info with CUG Index (CI), Suppress Pref. CUG (SPC), Suppress OA (SOA)<br><br>the called user receives a SETUP message with a Facility IE which contains an CUG index associated with the invoked CUG. |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption;<br><br>ForwardCUG-Info: CUG Index (CI);<br><br>Suppress Pref. CUG (SPC);<br><br>Suppress OA (SOA)   |
| <b>PLMN parameter values term.:</b>     | GSM-BC=UDI with V.110/X.30 rate adaption; Facility (Invoke =NotifySS (CUG-Index))   |
| <b>Comments:</b>                        |   |



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|---|---|--|
| 1420503                                 | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39]  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/UDI/CUG/TC810503   |  |
| <b>PLMN selection criteria origin.:</b> | CUG supplementary options: <b>not OA; not ocb; not Pref. CUG</b> ,<br>the calling user is roaming in a VPLMN (Visited PLMN)   |  |
| <b>PLMN selection criteria term.:</b>   | Calling user and called are subscribed to the <b>same</b> HPLMN;<br>the called user is roaming in the same <b>VPLMN</b> (Visited PLMN) of the calling user;<br>Calling user and called user belong to the <b>same</b> CUG;<br>CUG supplementary options: <b>IA; not ICB</b>   |  |
| <b>Test purpose:</b>                    | Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access is not allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> 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 the Facility IE which shall contain a ForwardCUG-Info with CUG Index (CI), Suppress Pref. CUG (SPC), Suppress OA (SOA)<br><br>the called user receives a SETUP message with a Facility IE which contains an CUG index associated with the invoked CUG. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption;<br>ForwardCUG-Info: CUG Index (CI);<br><br>Suppress Pref. CUG (SPC);<br><br>Suppress OA (SOA)   |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=UDI with V.110/X.30 rate adaption; Facility (Invoke =NotifySS (CUG-Index))   |  |
| <b>Comments:</b>                        |   |  |

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|---|---|-------------|
| 1420504                                 | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39]  |             |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/UDI/CUG/TC1420504  |             |
| <b>PLMN selection criteria origin.:</b> | The calling user belongs to a CUG with the following CUG supplementary options: <b>OA; not ocb; not Pref. CUG</b>   |             |
| <b>PLMN selection criteria term.:</b>   | The called user belongs to the <b>same</b> CUG with the following CUG supplementary options: <b>IA; not ICB</b>   |             |
| <b>Test purpose:</b>                    | <p>Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> 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 the Facility IE which shall contain a ForwardCUG-Info with CUG Index (CI), Suppress Pref. CUG (SPC), Suppress OA (SOA)</p> <p>the called user receives a SETUP message with a Facility IE which contains an CUG index associated with the invoked CUG.</p> |             |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption;<br>Info: CUG Index (CI);<br><br>Suppress Pref. CUG (SPC);<br><br>Suppress OA (SOA);   | ForwardCUG- |
| <b>PLMN parameter values term.:</b>     | GSM-BC=UDI with V.110/X.30 rate adaption; Facility (Invoke =NotifySS (CUG-Index))   |             |
| <b>Comments:</b>                        |   |             |

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| 1420505                                 | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39]   |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/UDI/CUG/TC1420505   |
| <b>PLMN selection criteria origin.:</b> | The calling user belongs to a CUG with the following CUG supplementary options: <b>OA; not ocb; not Pref. CUG</b>  |
| <b>PLMN selection criteria term.:</b>   | Calling user and called are subscribed to the <b>same</b> HPLMN;<br>the called user is roaming in a <b>VPLMN</b> (Visited PLMN);<br>The called user belongs to the <b>same</b> CUG with the following CUG supplementary options: <b>IA; not ICB</b>  |
| <b>Test purpose:</b>                    | Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> 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 the Facility IE which shall contain a ForwardCUG-Info with CUG Index (CI), Suppress Pref. CUG (SPC), Suppress OA (SOA)<br><br>the called user receives a SETUP message with a Facility IE which contains an CUG index associated with the invoked CUG. |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption;<br><br>ForwardCUG-Info: CUG Index (CI);<br><br>Suppress Pref. CUG (SPC);<br><br>Suppress OA (SOA);   |
| <b>PLMN parameter values term.:</b>     | GSM-BC=UDI with V.110/X.30 rate adaption; Facility (Invoke =NotifySS (CUG-Index))  |
| <b>Comments:</b>                        |  |

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|---|---|--|
| 1420506                                 | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39]  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/UDI/CUG/TC1420506  |  |
| <b>PLMN selection criteria origin.:</b> | The calling user belongs to a CUG with the following CUG supplementary options: <b>OA; not ocb; not Pref. CUG</b> ,<br><br>the calling user is roaming in a VPLMN (Visited PLMN)  |  |
| <b>PLMN selection criteria term.:</b>   | Calling user and called are subscribed to the <b>same</b> HPLMN;<br><br>the called user is roaming in the same <b>VPLMN</b> (Visited PLMN) of the calling user; the called user belongs to the <b>same</b> CUG with the following CUG supplementary options: <b>IA; not ICB</b>   |  |
| <b>Test purpose:</b>                    | <p>Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> 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 the Facility IE which shall contain a ForwardCUG-Info with CUG Index (CI), Suppress Pref. CUG (SPC), Suppress OA (SOA)</p> <p>The called user receives a SETUP message with a Facility IE which contains an CUG index associated with the invoked CUG.</p> |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption;<br><br>ForwardCUG-Info: CUG Index (CI);<br><br>Suppress Pref. CUG (SPC);<br><br>Suppress OA (SOA);  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=UDI with V.110/X.30 rate adaption; Facility (Invoke =NotifySS (CUG-Index))   |  |
| <b>Comments:</b>                        |   |  |

|   |   |  |
|---|---|--|
| 1420507                                 | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39]  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/UDI/CUG/TC810503   |  |
| <b>PLMN selection criteria origin.:</b> | The calling user belongs to a CUG with the following CUG supplementary options: <b>OA; not ocb; not Pref. CUG</b>   |  |
| <b>PLMN selection criteria term.:</b>   | The called user belongs to the same CUG with the following CUG supplementary options: <b>IA; not ICB</b>  |  |
| <b>Test purpose:</b>                    | <p>Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> 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 the Facility IE which shall contain a ForwardCUG-Info with CUG Index (CI), Suppress Pref. CUG (SPC),</p> <p>the called user receives a SETUP message with a Facility IE which contains an CUG index associated with the invoked CUG.</p> |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption;<br><br>ForwardCUG-Info: CUG Index (CI);<br><br>Suppress Pref. CUG (SPC);  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=UDI with V.110/X.30 rate adaption; Facility (Invoke =NotifySS (CUG-Index))   |  |
| <b>Comments:</b>                        |   |  |

|   |   |  |
|---|---|--|
| 1420508                                 | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39]  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/UDI/CUG/TC810508   |  |
| <b>PLMN selection criteria origin.:</b> | The calling user belongs to a CUG with the following CUG supplementary options: <b>OA; not ocb; not Pref. CUG</b>   |  |
| <b>PLMN selection criteria term.:</b>   | Calling user and called are subscribed to the <b>same</b> HPLMN;<br>the called user is roaming in a <b>VPLMN</b> (Visited PLMN);<br>The called user belongs to the same CUG with the following CUG supplementary options: <b>IA; not ICB</b>  |  |
| <b>Test purpose:</b>                    | <p>Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> 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 the Facility IE which shall contain a ForwardCUG-Info with CUG Index (CI), Suppress Pref. CUG (SPC),</p> <p>the called user receives a SETUP message with a Facility IE which contains an CUG index associated with the invoked CUG.</p> |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption;<br>ForwardCUG-Info: CUG Index (CI);<br>Suppress Pref. CUG (SPC);  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=UDI with V.110/X.30 rate adaption; Facility (Invoke =NotifySS (CUG-Index))   |  |
| <b>Comments:</b>                        |   |  |

|   |   |  |
|---|---|--|
| 1420509                                 | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39]  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/UDI/CUG/TC810509   |  |
| <b>PLMN selection criteria origin.:</b> | The calling user belongs to a CUG with the following CUG supplementary options: <b>OA; not ocb; not Pref. CUG</b> ,<br><br>the calling user is roaming in a VPLMN (Visited PLMN).   |  |
| <b>PLMN selection criteria term.:</b>   | Calling user and called are subscribed to the <b>same</b> HPLMN;<br><br>the called user is roaming in the same <b>VPLMN</b> (Visited PLMN) of the calling user, the called user belongs to the same CUG with the following CUG supplementary options: <b>IA; not ICB</b>  |  |
| <b>Test purpose:</b>                    | <p>Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> 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 the Facility IE which shall contain a ForwardCUG-Info with CUG Index (CI), Suppress Pref. CUG (SPC),</p> <p>the called user receives a SETUP message with a Facility IE which contains an CUG index associated with the invoked CUG.</p> |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption;<br><br>ForwardCUG-Info: CUG Index (CI);<br><br>Suppress Pref. CUG (SPC);  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=UDI with V.110/X.30 rate adaption; Facility (Invoke =NotifySS (CUG-Index))   |  |
| <b>Comments:</b>                        |   |  |

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| 1420510                                 | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39]  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/UDI/CUG/TC1420510  |  |
| <b>PLMN selection criteria origin.:</b> | The calling user belongs to the same CUG with the following CUG supplementary options: <b>OA; not ocb; not Pref. CUG</b>  |  |
| <b>PLMN selection criteria term.:</b>   | The called user belongs to CUG with the following CUG supplementary options: <b>IA; ICB</b>   |  |
| <b>Test purpose:</b>                    | <p>Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access is allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> 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 the Facility IE which shall contain a ForwardCUG-Info with CUG Index (CI), Suppress Pref. CUG (SPC),</p> <p>the called user receives a SETUP message without a Facility IE which contains an CUG index associated with the invoked CUG (normal call).</p> |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption;<br>ForwardCUG-Info: CUG Index (CI);<br>Suppress Pref. CUG (SPC);  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=UDI with V.110/X.30 rate adaption  |  |
| <b>Comments:</b>                        |   |  |



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| 1420511                                 | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39]   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/UDI/CUG/TC1420511   |  |
| <b>PLMN selection criteria origin.:</b> | The calling user belongs to the same CUG with the following CUG supplementary options: <b>OA; not ocb; not Pref. CUG</b>   |  |
| <b>PLMN selection criteria term.:</b>   | Calling user and called are subscribed to the <b>same</b> HPLMN;<br>the called user is roaming in a <b>VPLMN</b> (Visited PLMN);<br>The called user belongs to CUG with the following CUG supplementary options: <b>IA; ICB</b>  |  |
| <b>Test purpose:</b>                    | Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access is allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> 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 the Facility IE which shall contain a ForwardCUG-Info with CUG Index (CI), Suppress Pref. CUG (SPC),<br><br>the called user receives a SETUP message without a Facility IE which contains an CUG index associated with the invoked CUG (normal call). |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption;<br><br>ForwardCUG-Info: CUG Index (CI);<br><br>Suppress Pref. CUG (SPC);   |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=UDI with V.110/X.30 rate adaption;  |  |
| <b>Comments:</b>                        |  |  |

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| 1420512                                 | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39]   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/UDI/CUG/TC1420512   |  |
| <b>PLMN selection criteria origin.:</b> | The calling user belongs to the same CUG with the following CUG supplementary options: <b>OA; not ocb; not Pref. CUG</b> ,<br><br>the calling user is roaming in a VPLMN (Visited PLMN).   |  |
| <b>PLMN selection criteria term.:</b>   | Calling user and called are subscribed to the <b>same</b> HPLMN;<br><br>the called user is roaming in the same <b>VPLMN</b> (Visited PLMN) of the calling user; The called user belongs to CUG with the following CUG supplementary options: <b>IA; ICB</b>  |  |
| <b>Test purpose:</b>                    | Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access is allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> 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 the Facility IE which shall contain a ForwardCUG-Info with CUG Index (CI), Suppress Pref. CUG (SPC),<br><br>the called user receives a SETUP message without a Facility IE which contains an CUG index associated with the invoked CUG. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption;<br><br>ForwardCUG-Info: CUG Index (CI);<br><br>Suppress Pref. CUG (SPC);   |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=UDI with V.110/X.30 rate adaption;  |  |
| <b>Comments:</b>                        |  |  |

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| 1420513                                 | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39]  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/UDI/CUG/TC1420513  |  |
| <b>PLMN selection criteria origin.:</b> | The calling user belongs to a CUG with the following CUG supplementary options: <b>OA; not ocb; not Pref. CUG</b>   |  |
| <b>PLMN selection criteria term.:</b>   | The called user belongs to the same CUG with the following CUG supplementary options: <b>IA; not ICB</b>  |  |
| <b>Test purpose:</b>                    | Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access is allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> 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 the Facility IE which shall contain a ForwardCUG-Info with, Suppress Pref. CUG (SPC),<br><br>the called user receives a SETUP message without a Facility IE. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption;<br><br>ForwardCUG-Info: Suppress Pref. CUG (SPC);   |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=UDI with V.110/X.30 rate adaption  |  |
| <b>Comments:</b>                        |   |  |

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| 1420514                                 | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39]  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/UDI/CUG/TC1420514  |  |
| <b>PLMN selection criteria origin.:</b> | The calling user belongs to a CUG with the following CUG supplementary options: <b>OA; not ocb; not Pref. CUG</b>   |  |
| <b>PLMN selection criteria term.:</b>   | Calling user and called are subscribed to the <b>same</b> HPLMN;<br><br>the called user is roaming in a <b>VPLMN</b> (Visited PLMN);<br><br>The called user belongs to the same CUG with the following CUG supplementary options: <b>IA; not ICB</b>  |  |
| <b>Test purpose:</b>                    | Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access is allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> 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 the Facility IE which shall contain a ForwardCUG-Info with, Suppress Pref. CUG (SPC),<br><br>the called user receives a SETUP message without a Facility IE. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption;<br><br>ForwardCUG-Info: Suppress Pref. CUG (SPC);   |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=UDI with V.110/X.30 rate adaption;   |  |
| <b>Comments:</b>                        |   |  |

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| 1420515                                 | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39]  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/UDI/CUG/TC1420515  |  |
| <b>PLMN selection criteria origin.:</b> | The calling user belongs to a CUG with the following CUG supplementary options: <b>OA; not ocb; not Pref. CUG</b> ,<br><br>the calling user is roaming in a VPLMN (Visited PLMN).   |  |
| <b>PLMN selection criteria term.:</b>   | Calling user and called are subscribed to the <b>same</b> HPLMN;<br><br>the called user is roaming in the same <b>VPLMN</b> (Visited PLMN) of the calling user;<br><br>The called user belongs to the same CUG with the following CUG supplementary options: <b>IA; not ICB</b>   |  |
| <b>Test purpose:</b>                    | Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access is allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> 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 the Facility IE which shall contain a ForwardCUG-Info with, Suppress Pref. CUG (SPC),<br><br>the called user receives a SETUP message without a Facility IE. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption;<br><br>ForwardCUG-Info: Suppress Pref. CUG (SPC);   |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=UDI with V.110/X.30 rate adaption  |  |
| <b>Comments:</b>                        |   |  |

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| 1420516                                 | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39]  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/UDI/CUG/TC1420516  |  |
| <b>PLMN selection criteria origin.:</b> | The calling user belongs to a CUG with the following CUG supplementary options: <b>OA; not ocb; not Pref. CUG</b>   |  |
| <b>PLMN selection criteria term.:</b>   | The called user is <b>not a CUG subscriber</b>  |  |
| <b>Test purpose:</b>                    | Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access is allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> user belongs not to a CUG, after the receipt of a SETUP message with the Facility IE which shall contain a ForwardCUG-Info with CUG Index (CI), Suppress Pref. CUG (SPC),<br><br>the called user receives a SETUP message. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption;<br><br>ForwardCUG-Info: CUG Index (CI);<br><br>Suppress Pref. CUG (SPC);  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=UDI with V.110/X.30 rate adaption  |  |
| <b>Comments:</b>                        |   |  |

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| 1420517                                 | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39]  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/UDI/CUG/TC1420517  |  |
| <b>PLMN selection criteria origin.:</b> | The calling user belongs to a CUG with the following CUG supplementary options: <b>OA; not ocb; not Pref. CUG</b> ,<br><br>the calling user is roaming in a VPLMN (Visited PLMN).   |  |
| <b>PLMN selection criteria term.:</b>   | Calling user and called are subscribed to the <b>same</b> HPLMN;<br><br>the called user is roaming in the same <b>VPLMN</b> (Visited PLMN) of the calling user;<br><br>The called user is <b>not a CUG subscriber</b>   |  |
| <b>Test purpose:</b>                    | Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access is allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> user belongs not to a CUG, after the receipt of a SETUP message with the Facility IE which shall contain a ForwardCUG-Info with CUG Index (CI), Suppress Pref. CUG (SPC),<br><br>the called user receives a SETUP. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption;<br><br>ForwardCUG-Info: CUG Index (CI);<br><br>Suppress Pref. CUG (SPC);  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=UDI with V.110/X.30 rate adaption  |  |
| <b>Comments:</b>                        |   |  |

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| 1420518                                 | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39]   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/UDI/CUG/TC1420518   |  |
| <b>PLMN selection criteria origin.:</b> | The calling user is not member of CUG  |  |
| <b>PLMN selection criteria term.:</b>   | The called user belongs to CUG with the following CUG supplementary options:<br><b>not IA; not ICB</b>   |  |
| <b>Test purpose:</b>                    | Ensure that when the <b>calling</b> user has not subscribed to the CUG and the <b>called</b> 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 ForwardCUG-Info the network initiate call clearing to the calling user with cause value # 29"facility rejected". |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC= UDI with V.110/X.30 rate adaption  |  |
| <b>PLMN parameter values term.:</b>     |  |  |
| <b>Comments:</b>                        |  |  |

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| 1420519                                 | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39]   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/UDI/CUG/TC1420519   |  |
| <b>PLMN selection criteria origin.:</b> | The calling user is not member of CUG,<br>the calling user is roaming in a <b>VPLMN</b> (Visited PLMN).  |  |
| <b>PLMN selection criteria term.:</b>   | Calling user and called are subscribed to the <b>same</b> HPLMN;<br>the called user is roaming in the same <b>VPLMN</b> (Visited PLMN) of the calling user;<br>The called user belongs to CUG with the following CUG supplementary options: <b>not IA; not ICB</b>   |  |
| <b>Test purpose:</b>                    | Ensure that when the <b>calling</b> user has not subscribed to the CUG and the <b>called</b> 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 ForwardCUG-Info the network initiate call clearing to the calling user with cause value # 29" facility rejected ". |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC= UDI with V.110/X.30 rate adaption  |  |
| <b>PLMN parameter values term.:</b>     |  |  |
| <b>Comments:</b>                        |  |  |

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| 1420520                                 | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39]  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/UDI/CUG/TC1420520  |  |
| <b>PLMN selection criteria origin.:</b> | The calling user belongs to a CUG with the following CUG supplementary options: <b>not OA; not ocb; not Pref. CUG</b>   |  |
| <b>PLMN selection criteria term.:</b>   | The called user is not member of CUG  |  |
| <b>Test purpose:</b>                    | <p>Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access is not allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> user belongs not to a CUG, after the receipt of a SETUP message with the Facility IE which shall contain a ForwardCUG-Info with CUG Index (CI), Suppress Pref. CUG (SPC), Suppress OA (SOA)</p> <p>Call establishment is not possible and the network initiate call clearing to the calling user with cause value # 29 " facility rejected ".</p> |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption;<br>ForwardCUG-Info: CUG Index (CI);<br>Suppress Pref. CUG (SPC);<br>Suppress OA (SOA);  |  |
| <b>PLMN parameter values term.:</b>     |   |  |
| <b>Comments:</b>                        |   |  |

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| 1420521                                 | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39]  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/UDI/CUG/TC1420521  |  |
| <b>PLMN selection criteria origin.:</b> | The calling user belongs to a CUG with the following CUG supplementary options: <b>not OA; not ocb; not Pref. CUG</b> ,<br><br>the calling user is roaming in a VPLMN (Visited PLMN).   |  |
| <b>PLMN selection criteria term.:</b>   | Calling user and called are subscribed to the <b>same</b> HPLMN;<br><br>the called user is roaming in the same <b>VPLMN</b> (Visited PLMN) of the calling user; The called user is not member of CUG  |  |
| <b>Test purpose:</b>                    | <p>Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access is not allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> user belongs not to a CUG, after the receipt of a SETUP message with the Facility IE which shall contain a ForwardCUG-Info with</p> <p>CUG Index (CI), Suppress Pref. CUG (SPC), Suppress OA (SOA)</p> <p>call establishment is not possible and the network initiate call clearing to the calling user with cause value # 87 "user not a member of CUG".</p> |  |
| <b>PLMN parameter values origin.:</b>   | <p>GSM-BC=UDI with V.110/X.30 rate adaption;</p> <p>ForwardCUG-Info: CUG Index (CI);</p> <p>Suppress Pref. CUG (SPC);</p> <p>Suppress OA (SOA);</p>   |  |
| <b>PLMN parameter values term.:</b>     |   |  |
| <b>Comments:</b>                        |   |  |



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| 1420522                                 | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39]   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/UDI/CUG/TC1420522   |  |
| <b>PLMN selection criteria origin.:</b> | The calling user belongs to a CUG with the following CUG supplementary options: <b>OA; not ocb; not Pref. CUG</b>  |  |
| <b>PLMN selection criteria term.:</b>   | The called user belongs to the same CUG with the following CUG supplementary options: <b>not IA; ICB</b>   |  |
| <b>Test purpose:</b>                    | <p>Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access is allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> 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 the Facility IE which shall contain a ForwardCUG-Info with CUG Index (CI), Suppress Pref. CUG (SPC),</p> <p>call establishment is not possible and the network initiate call clearing to the calling user with cause value # 55 "incoming calls barred within CUG".</p> |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption;<br><br>ForwardCUG-Info: CUG Index (CI);<br><br>Suppress Pref. CUG (SPC);   |  |
| <b>PLMN parameter values term.:</b>     |  |  |
| <b>Comments:</b>                        |  |  |

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| 1420523                                 | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39]  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/UDI/CUG/TC1420523  |  |
| <b>PLMN selection criteria origin.:</b> | The calling user belongs to a CUG with the following CUG supplementary options: <b>OA; not ocb; not Pref. CUG</b>   |  |
| <b>PLMN selection criteria term.:</b>   | Calling user and called are subscribed to the <b>same</b> HPLMN;<br>the called user is roaming in a <b>VPLMN</b> (Visited PLMN);<br>The called user belongs to the same CUG with the following CUG supplementary options: <b>not IA; ICB</b>  |  |
| <b>Test purpose:</b>                    | Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access is allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> 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 the Facility IE which shall contain a ForwardCUG-Info with CUG Index (CI), Suppress Pref. CUG (SPC),<br><br>call establishment is not possible and the network initiate call clearing to the calling user with cause value # 55 "incoming calls barred within CUG". |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption;<br><br>ForwardCUG-Info: CUG Index (CI);<br><br>Suppress Pref. CUG (SPC);  |  |
| <b>PLMN parameter values term.:</b>     |   |  |
| <b>Comments:</b>                        |   |  |

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| 1420524                                 | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39]  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/UDI/CUG/TC1420524  |  |
| <b>PLMN selection criteria origin.:</b> | The calling user belongs to a CUG with the following CUG supplementary options: <b>OA; not ocb; not Pref. CUG</b> ,<br><br>the calling user is roaming in a VPLMN (Visited PLMN).   |  |
| <b>PLMN selection criteria term.:</b>   | Calling user and called are subscribed to the <b>same</b> HPLMN;<br><br>the called user is roaming in the same <b>VPLMN</b> (Visited PLMN) of the calling user;<br><br>The called user belongs to the same CUG with the following CUG supplementary options: <b>not IA; ICB</b> ;   |  |
| <b>Test purpose:</b>                    | Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access is allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> 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 the Facility IE which shall contain a ForwardCUG-Info with CUG Index (CI), Suppress Pref. CUG (SPC),<br><br>call establishment is not possible and the network initiate call clearing to the calling user with cause value # 55 "incoming calls barred within CUG". |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption;<br><br>ForwardCUG-Info: CUG Index (CI);<br><br>Suppress Pref. CUG (SPC);  |  |
| <b>PLMN parameter values term.:</b>     |   |  |
| <b>Comments:</b>                        |   |  |

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| 1420525                                 | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39]  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/UDI/CUG/TC1420525  |  |
| <b>PLMN selection criteria origin.:</b> | CUG supplementary options: <b>not OA; not OCB; not Pref. CUG</b>  |  |
| <b>PLMN selection criteria term.:</b>   | Calling user and called user belong to the <b>same CUG</b> ;<br>CUG supplementary options: <b>not IA; not ICB.</b>  |  |
| <b>Test purpose:</b>                    | Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access not allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> user belongs 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 the Facility IE which shall contain a ForwardCUG-Info with CUG Index (CI),<br><br>the called user receives a SETUP message with a Facility IE which contains a CUG index associated with the invoked CUG. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption;<br><br>ForwardCUG-Info: CUG Index (CI).   |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=UDI with V.110/X.30 rate adaption; Facility (Invoke =NotifySS (CUG-Index))   |  |
| <b>Comments:</b>                        |   |  |

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| 1420526                                 | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39]  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/UDI/CUG/TC1420526  |
| <b>PLMN selection criteria origin.:</b> | CUG supplementary options: <b>not OA; not OCB; not Pref. CUG</b>  |
| <b>PLMN selection criteria term.:</b>   | Calling user and called are subscribed to the <b>same</b> HPLMN;<br>the called user is roaming in a <b>VPLMN</b> (Visited PLMN);<br>calling user and called user belong to the <b>same</b> CUG;<br>CUG supplementary options: <b>not IA; not ICB.</b>   |
| <b>Test purpose:</b>                    | Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access not allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> user belongs 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 the Facility IE which shall contain a ForwardCUG-Info with CUG Index (CI),<br><br>the called user receives a SETUP message with a Facility IE which contains a CUG index associated with the invoked CUG. |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption;<br><br>ForwardCUG-Info: CUG Index (CI).   |
| <b>PLMN parameter values term.:</b>     | GSM-BC=UDI with V.110/X.30 rate adaption; Facility (Invoke =NotifySS (CUG-Index))   |
| <b>Comments:</b>                        |   |

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| 1420527                                 | <b>PLMN ref. to:</b><br>ETS 300 546 [33]<br>ETS 300 569 [39]  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/UDI/CUG/TC1420527  |  |
| <b>PLMN selection criteria origin.:</b> | CUG supplementary options: <b>not OA; not OCB; not Pref. CUG</b><br>the calling user is roaming in a <b>VPLMN</b> (Visited PLMN).   |  |
| <b>PLMN selection criteria term.:</b>   | Calling user and called are subscribed to the <b>same</b> HPLMN;<br>the called user is roaming in the same <b>VPLMN</b> (Visited PLMN) of the calling user;<br>calling user and called user belong to the <b>same</b> CUG;<br>CUG supplementary options: <b>not IA; not ICB.</b>  |  |
| <b>Test purpose:</b>                    | Ensure that when the <b>calling</b> user belongs to a CUG with outgoing access not allowed, not outgoing calls barred within the CUG and not preferential CUG and the <b>called</b> user belongs 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 the Facility IE which shall contain a ForwardCUG-Info with CUG Index (CI),<br>the called user receives a SETUP message with a Facility IE which contains a CUG index associated with the invoked CUG. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption;<br>ForwardCUG-Info: CUG Index (CI).   |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=UDI with V.110/X.30 rate adaption; Facility (Invoke =NotifySS (CUG-Index))   |  |
| <b>Comments:</b>                        |   |  |

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| 1420601                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 9.3.23.1.5  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/UDI/SUB/TC1420601   |  |
| <b>PLMN selection criteria origin.:</b> | SUB  |  |
| <b>PLMN selection criteria term.:</b>   | SUB  |  |
| <b>Test purpose:</b>                    | 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 |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption, Called party subaddress  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=UDI with V.110/X.30 rate adaption, Called party subaddress  |  |
| <b>Comments:</b>                        |  |  |

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| 1420602                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 9.3.23.1.5  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/UDI/SUB/TC1420602   |  |
| <b>PLMN selection criteria origin.:</b> | SUB  |  |
| <b>PLMN selection criteria term.:</b>   | SUB  |  |
| <b>Test purpose:</b>                    | 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 |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=UDI with V.110/X.30 rate adaption, Called party subaddress  |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=UDI, with V.110/X.30 rate adaption, Called party subaddress   |  |
| <b>Comments:</b>                        |  |  |

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| 1420701                                 | <b>PLMN ref. to:</b><br>ETS 300 566 [37],<br>subclause 1<br>ETS 300 543 [31],<br>subclause 1  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/UDI/CFU/TC1420701  |  |
| <b>PLMN selection criteria origin.:</b> | The user A and the user C are in network N1. User A is provided with COLP, user C is provided with CLIP.  |  |
| <b>PLMN selection criteria term.:</b>   | The user B is in network N2 provided with CFU ("calling user is notified of call diversion" = <b>Yes</b> ).   |  |
| <b>Test purpose:</b>                    | Ensure that when user A calls user B, the call is forwarded to user C.<br><br>User <b>A</b> is notified with a FACILITY (Invoke =NotifySS [CFB, SS-Notification]) message, user <b>C</b> is notified with a FACILITY IE (Invoke =NotifySS [CFU,SS-Notification]) of call diversion. |  |
| <b>PLMN parameter values origin.:</b>   | <b>A:</b> ! GSM-BC=UDI with V.110/X.30 rate adaption  |  |
| <b>PLMN parameter values term.:</b>     | CFU active<br><br><b>C:</b> ? GSM-BC=UDI with V.110/X.30 rate adaption  |  |
| <b>Comments:</b>                        |   |  |

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| 1420702                                 | <b>PLMN ref. to:</b><br>ETS 300 566 [37],<br>subclause 1<br>ETS 300 543 [31],<br>subclause 1   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/UDI/CFU/TC1420702   |  |
| <b>PLMN selection criteria origin.:</b> | The user A and the user C are in network N1. User A is provided with COLP, user C is provided with CLIP.   |  |
| <b>PLMN selection criteria term.:</b>   | The user B is in network N2 provided with CFU ("calling user is notified of call diversion" = <b>No</b> ) and <b>CLIR</b> .  |  |
| <b>Test purpose:</b>                    | Ensure that when user A calls user B, the call is forwarded to user C.<br><br>User <b>A</b> and <b>B</b> are not notified of call diversion.<br><br>User <b>C</b> is notified with a FACILITY IE (Invoke =NotifySS [CFU,SS-Notification]) of call diversion. |  |
| <b>PLMN parameter values origin.:</b>   | <b>A:</b> ! GSM-BC=UDI with V.110/X.30 rate adaption;  |  |
| <b>PLMN parameter values term.:</b>     | CFU active<br><br><b>C:</b> ? GSM-BC=UDI with V.110/X.30 rate adaption   |  |
| <b>Comments:</b>                        |  |  |

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| 1420801                                 | <b>PLMN ref. to:</b><br>ETS 300 566 [37],<br>subclause 2<br>ETS 300 543 [31],<br>subclause 2   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/UDI/CFB/TC1420801   |  |
| <b>PLMN selection criteria origin.:</b> | The user A and the user C are in network N1. User A is provided with COLP, user C is provided with CLIP.   |  |
| <b>PLMN selection criteria term.:</b>   | The user B is in network N2 and is provided with CFB- <b>UDUB</b> ("calling user is notified of call diversion" = <b>Yes</b> );).  |  |
| <b>Test purpose:</b>                    | Ensure that when user A calls busy user B, the call is forwarded to user C.<br><br>User <b>A</b> is notified with a FACILITY (Invoke =NotifySS [CFB, SS-Notification]) message, user <b>C</b> is notified with a FACILITY IE (Invoke =NotifySS [CFU,SS-Notification]) of call diversion. |  |
| <b>PLMN parameter values origin.:</b>   | <b>A:</b> ! BC=UDI with V.110/X.30 rate adaption   |  |
| <b>PLMN parameter values term.:</b>     | CFB-UDUB active<br><br><b>C:</b> ? GSM-BC=UDI with V.110/X.30 rate adaption  |  |
| <b>Comments:</b>                        |  |  |



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| 1420802                                 | <b>PLMN ref. to:</b><br>ETS 300 566 [37],<br>subclause 2<br>ETS 300 543 [31],<br>subclause 2   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/UDI/CFB/TC1420802   |  |
| <b>PLMN selection criteria origin.:</b> | The user A and the user C are in network N1. User A is provided with COLP, user C is provided with CLIP.   |  |
| <b>PLMN selection criteria term.:</b>   | The user B is in network N2 and is provided with CFB- <b>UDUB</b> ("calling user is notified of call diversion" = <b>No</b> ) and <b>CLIR</b> .  |  |
| <b>Test purpose:</b>                    | <p>Ensure that when user A calls busy user B, the call is forwarded to user C.</p> <p>User <b>A</b> and <b>B</b> are not notified of call diversion.</p> <p>User <b>C</b> is notified with a FACILITY IE (Invoke =NotifySS [CFU,SS-Notification]) of call diversion.</p> |  |
| <b>PLMN parameter values origin.:</b>   | <b>A:</b> ! GSM-BC=UDI with V.110/X.30 rate adaption   |  |
| <b>PLMN parameter values term.:</b>     | CFB-UDUB active<br><br><b>C:</b> ? GSM-BC=UDI with V.110/X.30 rate adaption  |  |
| <b>Comments:</b>                        |  |  |

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| 1420803                                 | <b>PLMN ref. to:</b><br>ETS 300 566 [37],<br>subclause 2<br>ETS 300 543 [31],<br>subclause 2   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/UDI/CFB/TC1420803   |  |
| <b>PLMN selection criteria origin.:</b> | The user A and the user C are in network N1. User A is provided with COLP, user C is provided with CLIP.   |  |
| <b>PLMN selection criteria term.:</b>   | The user B is in network N2 and is provided with CFB- <b>NDUB</b> ("calling user is notified of call diversion" = <b>Yes</b> ; "notification to forwarding subscriber" = <b>Yes</b> ).   |  |
| <b>Test purpose:</b>                    | <p>Ensure that when user A calls busy user B, the call is forwarded to user C.</p> <p>User <b>A</b> is notified with a FACILITY (Invoke =NotifySS [CFB, SS-Notification]) message, user <b>C</b> is notified with a FACILITY IE (Invoke =NotifySS [CFU,SS-Notification]) of call diversion.</p> <p>User <b>B</b> is notified with a FACILITY (Invoke = NotifySS [CFB, SS-Notification ] ) message of call diversion.</p> |  |
| <b>PLMN parameter values origin.:</b>   | <b>A:</b> ! GSM-BC=UDI with V.110/X.30 rate adaption   |  |
| <b>PLMN parameter values term.:</b>     | CFB-NDUB active<br><br><b>C:</b> ? GSM-BC=UDI with V.110/X.30 rate adaption  |  |
| <b>Comments:</b>                        |  |  |

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| 1420804                                 | <b>PLMN ref. to:</b><br>ETS 300 566 [37],<br>subclause 2<br>ETS 300 543 [31],<br>subclause 2   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/UDI/CFB/TC1420804   |  |
| <b>PLMN selection criteria origin.:</b> | The user A and the user C are in network N1. User A is provided with COLP, user C is <b>provided</b> with CLIP.  |  |
| <b>PLMN selection criteria term.:</b>   | The user B is in network N2 and is provided with CFB- <b>NDUB</b> ("calling user is notified of call diversion" = <b>No</b> ; "notification to forwarding subscriber" = <b>No</b> ) and <b>CLIR</b> .  |  |
| <b>Test purpose:</b>                    | <p>Ensure that when user A calls busy user B, the call is forwarded to user C.</p> <p>User <b>A</b> and <b>B</b> are not notified of call diversion.</p> <p>User <b>C</b> is notified with a FACILITY IE (Invoke =NotifySS [CFU,SS-Notification]) of call diversion.</p> |  |
| <b>PLMN parameter values origin.:</b>   | <b>A:</b> ! GSM-BC=UDI with V.110/X.30 rate adaption   |  |
| <b>PLMN parameter values term.:</b>     | CFB-NDUB active<br><b>C:</b> ? GSM-BC=UDI with V.110/X.30 rate adaption  |  |
| <b>Comments:</b>                        |  |  |

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| 1420901                                 | <b>PLMN ref. to:</b><br>ETS 300 566 [37],<br>subclause 3<br>ETS 300 543 [31],<br>subclause 3   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/UDI/CFNRy/TC1420901   |  |
| <b>PLMN selection criteria origin.:</b> | The user A and the user C are in network N1. User A is provided with COLP, user C is provided with CLIP.   |  |
| <b>PLMN selection criteria term.:</b>   | The user B is in network N2 and is provided with CFNRy ("calling user is notified of call diversion" = <b>Yes</b> , "notification to forwarding subscriber" = <b>Yes</b> ).  |  |
| <b>Test purpose:</b>                    | <p>Ensure that when user A calls user B, if unanswered, the call is forwarded to user C.</p> <p>User <b>A</b> is notified with a FACILITY (Invoke =NotifySS [CFNRy, SS-Notification]) message, user <b>C</b> is notified with a FACILITY IE (Invoke =NotifySS [CFNRy, SS-Notification]) of call diversion.</p> <p>User <b>B</b> is notified with a NOTIFY (Invoke = NotifySS [CFNRy, SS-Notification ]) message of call diversion.</p> |  |
| <b>PLMN parameter values origin.:</b>   | <b>A:</b> ! GSM-BC=UDI with V.110/X.30 rate adaption   |  |
| <b>PLMN parameter values term.:</b>     | CFNRy active<br><b>C:</b> ? GSM-BC=UDI with V.110/X.30 rate adaption   |  |
| <b>Comments:</b>                        |  |  |

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| 1420902                                 | <b>PLMN ref. to:</b><br>ETS 300 566 [37],<br>subclause 3<br>ETS 300 543 [31],<br>subclause 3   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/UDI/CFNRy/TC1420902   |  |
| <b>PLMN selection criteria origin.:</b> | The user A and the user C are in network N1. User A is provided with COLP, user C is provided with CLIP.   |  |
| <b>PLMN selection criteria term.:</b>   | The user B is in network N2 and is provided with CFNRy ("calling user is notified of call diversion" = <b>No</b> "notification to forwarding subscriber" = <b>No</b> ) and <b>CLIR</b> .   |  |
| <b>Test purpose:</b>                    | <p>Ensure that when user A calls user B, if unanswered, the call is forwarded to user C.</p> <p>User <b>A</b> and <b>B</b> are not notified of call diversion.</p> <p>User <b>C</b> is notified with a FACILITY IE (Invoke =NotifySS [CFU,SS-Notification]) of call diversion.</p> |  |
| <b>PLMN parameter values origin.:</b>   | <b>A:</b> ! GSM-BC=UDI with V.110/X.30 rate adaption   |  |
| <b>PLMN parameter values term.:</b>     | CFNRy active<br><b>C:</b> ? GSM-BC=UDI with V.110/X.30 rate adaption   |  |
| <b>Comments:</b>                        |  |  |

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| 1421001                                 | <b>PLMN ref. to:</b><br>ETS 300 566 [37],<br>subclause 3<br>ETS 300 543 [31],<br>subclause 3   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/UDI/CFNRc/TC1421001   |  |
| <b>PLMN selection criteria origin.:</b> | The user A and the user C are in network N1. User A is provided with COLP, user C is provided with CLIP.   |  |
| <b>PLMN selection criteria term.:</b>   | The user B is in network N2 and is provided with CFNRc ("calling user is notified of call diversion" = <b>Yes</b> ).   |  |
| <b>Test purpose:</b>                    | <p>Ensure that when user A calls user B, if detached, the call is forwarded to user C.</p> <p>User <b>A</b> is notified with a FACILITY (Invoke =NotifySS [CFNRy, SS-Notification]) message, user <b>C</b> is notified with a FACILITY IE (Invoke =NotifySS [CFNRy, SS-Notification]) of call diversion.</p> |  |
| <b>PLMN parameter values origin.:</b>   | <b>A:</b> ! GSM-BC=UDI with V.110/X.30 rate adaption   |  |
| <b>PLMN parameter values term.:</b>     | CFNRc active, the user is detached<br><b>C:</b> ? GSM-BC=UDI with V.110/X.30 rate adaption   |  |
| <b>Comments:</b>                        |  |  |

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| 1421002                                 | <b>PLMN ref. to:</b><br>ETS 300 566 [37],<br>subclause 3<br>ETS 300 543 [31],<br>subclause 3   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/UDI/CFNRc/TC1421002   |  |
| <b>PLMN selection criteria origin.:</b> | The user A and the user C are in network N1. User A is provided with COLP, user C is provided with CLIP.   |  |
| <b>PLMN selection criteria term.:</b>   | The user B is in network N2 and is provided with CFNRc ("calling user is notified of call diversion" = <b>No</b> ) and <b>CLIR</b> .   |  |
| <b>Test purpose:</b>                    | Ensure that when user A calls user B, if detached the call is forwarded to user C.<br><br>User <b>A</b> and <b>B</b> are not notified of call diversion.<br><br>User <b>C</b> is notified with a FACILITY IE (Invoke =NotifySS [CFU,SS-Notification]) of call diversion. |  |
| <b>PLMN parameter values origin.:</b>   | <b>A:</b> ! GSM-BC=UDI with V.110/X.30 rate adaption   |  |
| <b>PLMN parameter values term.:</b>     | CFNRc active, the user is detached<br><br><b>C:</b> ? GSM-BC=UDI with V.110/X.30 rate adaption   |  |
| <b>Comments:</b>                        |  |  |

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| 1421101                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 10.5.4.25,   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/UDI/UUS1/TC1421101   |  |
| <b>PLMN selection criteria origin.:</b> | UUS1i   |  |
| <b>PLMN selection criteria term.:</b>   | UUS1i   |  |
| <b>Test purpose:</b>                    | 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. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC = UDI with V.110/X.30 rate adaption, UI length=32  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC = UDI with V.110/X.30 rate adaption, UI length=32  |  |
| <b>Comments:</b>                        |   |  |

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| 1421102                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 10.5.4.25  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/UDI/UUS1/TC1421102   |  |
| <b>PLMN selection criteria origin.:</b> | The calling (served) user is provided with UUS1 implicit request  |  |
| <b>PLMN selection criteria term.:</b>   | UUS1i   |  |
| <b>Test purpose:</b>                    | 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. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC = UDI with V.110/X.30 rate adaption, UI length=32  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC = UDI with V.110/X.30 rate adaption, UI length=32  |  |
| <b>Comments:</b>                        |   |  |

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| 1421103                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 10.5.4.25,  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/UDI/UUS1/TC1421103  |  |
| <b>PLMN selection criteria origin.:</b> | The calling (served) user is provided with UUS1 implicit request   |  |
| <b>PLMN selection criteria term.:</b>   | UUS1i  |  |
| <b>Test purpose:</b>                    | 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. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC = UDI with V.110/X.30 rate adaption, UI length=32   |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC = UDI with V.110/X.30 rate adaption, UI length=32   |  |
| <b>Comments:</b>                        |  |  |

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| 1421104                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35],<br>subclause 10.5.4.25,   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/UDI/UUS1/TC1421104   |  |
| <b>PLMN selection criteria origin.:</b> | UUS1i   |  |
| <b>PLMN selection criteria term.:</b>   | UUS1i   |  |
| <b>Test purpose:</b>                    | 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. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC = UDI with V.110/X.30 rate adaption, UI length=32  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC = UDI with V.110/X.30 rate adaption, UI length=32  |  |
| <b>Comments:</b>                        |   |  |

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| 1421105                                 | <b>PLMN ref. to:</b><br>ETS 300 557 [35]   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/UDI/UUS1/TC1421105                                      |  |
| <b>PLMN selection criteria origin.:</b> | UUS1i  |  |
| <b>PLMN selection criteria term.:</b>   | UUS1i  |  |
| <b>Test purpose:</b>                    | Verify that UUI can be discarded by the network without disrupting normal call handling. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption, UI length=32                                   |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=UDI with V.110/X.30 rate adaption   |  |
| <b>Comments:</b>                        | .  |  |

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| 1421201                                 | <b>PLMN ref. to:</b><br>ETS 300 548 [34]   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/UDI/Call barring service/TC1421201  |  |
| <b>PLMN selection criteria origin.:</b> | The calling user activates Barring of Outgoing international Calls except those to the home PLMN country (BOIC-exHC). The user is roaming outside the home PLMN country. Barring of Outgoing international Calls except those to the home PLMN country is supported by the PLMN in which the served mobile subscriber currently roams. |  |
| <b>PLMN selection criteria term.:</b>   |  |  |
| <b>Test purpose:</b>                    | Ensure that when the calling user activates Barring of Outgoing International Calls except those to the home PLMN country (BOIC-exHC) and the user is roaming outside the home PLMN country, call establishment to the home PLMN country is successful.  |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=UDI with V.110/X.30 rate adaption   |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC=UDI with V.110/X.30 rate adaption   |  |
| <b>Comments:</b>                        |  |  |

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| 1421202                                 | <b>PLMN ref. to:</b><br>ETS 300 548 [34]   |  |
| <b>TSS reference:</b>                   | PSTN-PLMN/Supplementary_services/UDI/Call barring service/TC1421202  |  |
| <b>PLMN selection criteria origin.:</b> |  |  |
| <b>PLMN selection criteria term.:</b>   | The PLMN supports barring of all incoming calls (BAIC).  |  |
| <b>Test purpose:</b>                    | Ensure that when the called user activates barring of all incoming calls, call establishment is not possible. The calling user receives a FACILITY IE (Invoke =NotifySS (SS-Code, SS-Status)) in a clearing message. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=UDI, with V.110/X.30 rate adaption  |  |
| <b>PLMN parameter values term.:</b>     |  |  |
| <b>Comments:</b>                        |  |  |



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| 1421203                                 | <b>PLMN ref. to:</b><br>ETS 300 548 [34]   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/UDI/Call barring service/TC1421203  |  |
| <b>PLMN selection criteria origin.:</b> |  |  |
| <b>PLMN selection criteria term.:</b>   | The Network B supports barring of all incoming calls (BAIC) and barring of incoming calls when roaming outside the home PLMN country (BIC-Roam).<br><br>The MS is roaming outside the home PLMN country.   |  |
| <b>Test purpose:</b>                    | Ensure that when the called user activates barring of incoming calls when roaming outside the home PLMN country was already activated, barring of incoming calls when roaming outside the home PLMN country will be deactivated and barring of all incoming calls will be activated.<br><br>Call establishment is not possible. The calling user receives a FACILITY IE (Invoke =NotifySS (SS-Code, SS-Status)) in a clearing message. |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC=UDI, with V.110/X.30 rate adaption  |  |
| <b>PLMN parameter values term.:</b>     |  |  |
| <b>Comments:</b>                        | EDITORS NOTE 3: The cause value with witch the call shall be rejected is not defined.  |  |

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|---|---|--|
| 1421301                                 | <b>PLMN ref. to:</b><br>ETS 300 518 [30]  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/UDI/CUG_CFU/TC1421301  |  |
| <b>PLMN selection criteria origin.:</b> | User A belongs to a CUG with the following CUG supplementary options:<br><b>not OA; not ocb; not Pref. CUG.</b>   |  |
| <b>PLMN selection criteria term.:</b>   | User B and C belongs to the same CUG.<br><br>User B has the following CUG supplementary options: <b>not OA; not ocb; not Pref. CUG</b><br><br>User B is provided with CFU and has an active call forwarding to C.<br><br>User C has the following CUG supplementary options: <b>not IA, not ICB</b> |  |
| <b>Test purpose:</b>                    | Ensure that a call establishment is successful.   |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC = UDI with V.110/X.30 rate adaption  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC = UDI with V.110/X.30 rate adaption  |  |
| <b>Comments:</b>                        |   |  |

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| 1421303                                 | <b>PLMN ref. to:</b><br>ETS 300 518 [30]   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/UDI/CUG_CFU/TC1421303   |  |
| <b>PLMN selection criteria origin.:</b> | User A belongs to a CUG with the following CUG supplementary options:<br><b>not OA; not ocb; not Pref. CUG.</b>  |  |
| <b>PLMN selection criteria term.:</b>   | User B belongs to the same CUG with the following CUG supplementary options:<br><b>not OA; not ocb; not Pref. CUG</b><br><br>User B is provided with CFU and has an active call forwarding to C.<br><br>User C is not member of CUG. |  |
| <b>Test purpose:</b>                    | Ensure that a call establishment is not successful. The network initiate call clearing to the calling user A with cause value #87 "user not member of CUG".  |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC = UDI with V.110/X.30 rate adaption   |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC = UDI with V.110/X.30 rate adaption   |  |
| <b>Comments:</b>                        |  |  |

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|---|--|--|
| 1421304                                 | <b>PLMN ref. to:</b><br>ETS 300 518 [30]   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/UDI/CUG_CFU/TC1421304   |  |
| <b>PLMN selection criteria origin.:</b> | User A belongs to a CUG with the following CUG supplementary options:<br><b>not OA; not ocb; not Pref. CUG.</b>  |  |
| <b>PLMN selection criteria term.:</b>   | User B belongs to the same CUG with the following CUG supplementary options:<br><b>OA; not ocb; not Pref. CUG</b><br><br>User B is provided with CFU and has an active call forwarding to C.<br><br>User C is not member of CUG. |  |
| <b>Test purpose:</b>                    | Ensure that a call establishment is not successful. The network initiate call clearing to the calling user A with cause value #87 "user not member of CUG".  |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC = UDI with V.110/X.30 rate adaption   |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC = UDI with V.110/X.30 rate adaption   |  |
| <b>Comments:</b>                        |  |  |

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|---|---|--|
| 1421305                                 | <b>PLMN ref. to:</b><br>ETS 300 518 [30]  |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/UDI/CUG_CFU/TC1421305  |  |
| <b>PLMN selection criteria origin.:</b> | User A belongs to a CUG with the following CUG supplementary options:<br><b>OA; not ocb; not Pref. CUG.</b>   |  |
| <b>PLMN selection criteria term.:</b>   | User B belongs to the same CUG.<br>User B has the following CUG supplementary options: <b>not OA; not ocb; not Pref. CUG.</b><br>User B is provided with CFU and has active call forwarding to C.<br>User C is not member of CUG. |  |
| <b>Test purpose:</b>                    | Ensure that a call establishment is not successful. The network initiate call clearing to the calling user A with cause value #87 "user not member of CUG".   |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC = UDI with V.110/X.30 rate adaption  |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC = UDI with V.110/X.30 rate adaption  |  |
| <b>Comments:</b>                        |   |  |

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|---|--|--|
| 1421306                                 | <b>PLMN ref. to:</b><br>ETS 300 518 [30]   |  |
| <b>TSS reference:</b>                   | PLMN-PLMN/Supplementary_services/UDI/CUG_CFU/TC1421306   |  |
| <b>PLMN selection criteria origin.:</b> | User A belongs to a CUG with the following CUG supplementary options:<br><b>OA; not ocb; not Pref. CUG.</b>  |  |
| <b>PLMN selection criteria term.:</b>   | User B and C belong to the same CUG.<br>User B has the following CUG supplementary options: <b>not OA; not ocb; not Pref. CUG.</b><br>User B is provided with CFU and has active call forwarding to C. |  |
| <b>Test purpose:</b>                    | Ensure that a call establishment is successful but the OA indicator is not provided to C.  |  |
| <b>PLMN parameter values origin.:</b>   | GSM-BC = UDI with V.110/X.30 rate adaption   |  |
| <b>PLMN parameter values term.:</b>     | GSM-BC = UDI with V.110/X.30 rate adaption   |  |
| <b>Comments:</b>                        |  |  |

## 6.2.15 Test purposes for PLMN-PLMN, B-channel end-to-end performance

**B-channel end-to-end performance**

|                                 |  |  |
|---------------------------------|--|--|
| 1510101                         | <b>PLMN ref. to:</b><br>ETS 300 557 [35]<br>ITU-T Rec. G. 101                            |  |
| <b>TSS reference:</b>           | PLMN-PLMN/ B-channel end-to-end performance /Speech/TC310101                             |  |
| <b>PLMN selection criteria:</b> | Voice transmission   |  |
| <b>Test purpose:</b>            | To ensure that speech transfer on the B-channel is performed correctly.                  |  |
| <b>PLMN parameter values:</b>   | GSM-BC=speech  |  |
| <b>Comments:</b>                | The tests should be based on the E-Model described in the ITU-T Rec. G. 101, Appendix I. |  |

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|---------------------------------|--|--|
| 1510201                         | <b>PLMN ref. to:</b><br>ETS 300 557 [35]<br>ITU-T Rec. G. 101  |  |
| <b>TSS reference:</b>           | PLMN-PLMN/ B-channel end-to-end performance /3,1 kHz audio/TC310201  |  |
| <b>PLMN selection criteria:</b> | Data transmission  |  |
| <b>Test purpose:</b>            | To verify compliance with the requirements for error and octet slip for the first or the last continuous 24 hour period. |  |
| <b>PLMN parameter values:</b>   | GSM-BC= 3,1 kHz audio ex PLMN  |  |
| <b>Comments:</b>                | The tests should be based on the requirements described in the ETS 300 578 [55]  |  |

|                                 |  |  |
|---------------------------------|--|--|
| 1510301                         | <b>PLMN ref. to:</b><br>ETS 300 557 [35]<br>ETS 300 578 [55]   |  |
| <b>TSS reference:</b>           | PLMN-PLMN/ B-channel end-to-end performance /UDI/TC310301  |  |
| <b>PLMN selection criteria:</b> | Data transmission  |  |
| <b>Test purpose:</b>            | To verify compliance with the requirements for error and octet slip for the first or the last continuous 24 hour period. |  |
| <b>PLMN parameter values:</b>   | BC = UDI, V.110/X.30 synchronous mode; PRBS=2 <sup>11</sup> -1   |  |
| <b>Comments:</b>                | The tests should be based on the requirements described in the ETS 300 578 [55]  |  |

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## 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".

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)".

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".

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 [43] (1993), modified]".

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".

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

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

ITU-T-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" (White Book draft 1993).

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

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ETS 300 500: "Digital cellular telecommunications system (Phase 2); Principles of telecommunication services supported by a GSM Public Land Mobile Network (PLMN) (GSM 02.01)".

ETS 300 501: "European digital cellular telecommunications system (Phase 2); Bearer Services (BS) supported by a GSM Public Land Mobile Network (PLMN) (GSM 02.02)".

ETS 300 503: "Digital cellular telecommunications system (Phase 2); General on supplementary services (GSM 02.04)".

ETS 300 514: "Digital cellular telecommunications system (Phase 2); Line identification supplementary services; Stage 1 (GSM 02.81 version 4.6.1)".

ETS 300 516: "Digital cellular telecommunications system (Phase 2); Call Waiting (CW) and Call Hold (HOLD) supplementary services; Stage 1 (GSM 02.83)".

ETS 300 520: "Digital cellular telecommunications system (Phase 2); Call Barring (CB) supplementary services; Stage 1 (GSM 02.88)".

ETS 300 523: "European digital cellular telecommunications system (Phase 2); Numbering, addressing and identification (GSM 03.03)".

ETS 300 529: "Digital cellular telecommunications system (Phase 2); Technical realization of supplementary services (GSM 03.11)".

ETS 300 558: "Digital cellular telecommunications system (Phase 2); Mobile radio interface layer 3; Supplementary services specification; General aspects (GSM 04.10)".

ETS 300 564: "Digital cellular telecommunications system (Phase 2); Mobile radio interface layer 3; Supplementary services specification; Formats and coding (GSM 04.80)".

ETS 300 571: "Digital cellular telecommunications system (Phase 2); Call Barring (CB) supplementary services; Stage 3 (GSM 04.88)".

ETS 300 589: "European digital cellular telecommunications system (Phase 2); Signalling transport mechanism specification for the Base Station System - Mobile-services Switching Centre (BSS - MSC) interface (GSM 08.06)".

ETS 300 590: "Digital cellular telecommunications system (Phase 2); Mobile-services Switching Centre - Base Station System (MSC - BSS) interface; Layer 3 specification (GSM 08.08 version 4.12.1)".

ETR 109: "European digital cellular telecommunications system (Phase 2); General network interworking scenarios (GSM 09.01)".

ETS 300 600: "European digital cellular telecommunications system (Phase 2); Signalling requirements on interworking between the Integrated Services Digital Network (ISDN) or Public Switched Telephone Network (PSTN) and the Public Land Mobile Network (PLMN) (GSM 09.03)".

ETS 300 605: "Digital cellular telecommunications system (Phase 2); Information element mapping between Mobile Station - Base Station System (MS - BSS) and Base Station System - Mobile-services Switching Centre (BSS - MSC) signalling procedures and the Mobile Application Part (MAP) (GSM 09.10 version 4.4.1)".

ETS 300 606: "Digital cellular telecommunications system (Phase 2); Signalling interworking for supplementary services (GSM 09.11)".

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ITU-T Recommendation Q.761 (1993): "Specifications of Signalling System No.7; Functional description of the ISDN user part of Signalling System No.7".

ITU-T Recommendation Q.762 (1993): "Specifications of Signalling System No.7; General function of messages and signals".

ITU-T Recommendation Q.763 (1993): "Specifications of Signalling System No.7; Formats and codes".

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## History

| <b>Document history</b> |               |                               |                                     |
|-------------------------|---------------|-------------------------------|-------------------------------------|
| V1.1.1                  | November 1999 | Membership Approval Procedure | MV 200002: 1999-11-16 to 2000-01-14 |
|                         |               |                               |                                     |
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