

# ETSI TS 102 110-2 V1.1.1 (2003-03)

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*Technical Specification*

**Services and Protocols for Advanced Networks (SPAN);  
Network integration testing of  
Universal Mobile Telecommunications System (UMTS)  
with Global System for Mobile Communication (GSM)  
Phase 2+, Public Switched Telephone Network (PSTN)  
and Integrated Services Digital Network (ISDN);  
Part 2: Abstract Test Suite (ATS) and Partial  
Implementation eXtra Information for Testing (PIXIT) proforma**

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Keywords

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## Foreword

This Technical Specification (TS) has been produced by ETSI Technical Committee Services and Protocols for Advanced Networks (SPAN).

The present document was developed by EURESCOM P1106 as Deliverable 3 Volume 2 Parts 1 and 2, and made freely and publicly available to ETSI TC SPAN for publication.

The present document is part 2 of a multi-part deliverable covering Network integration testing of Universal Mobile Telecommunications System (UMTS) with Global System for Mobile Communication (GSM) Phase 2+, Public Switched Telephone Network (PSTN) and Integrated Services Digital Network (ISDN), as identified below:

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

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

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## Introduction

The present document contains the Implementation Conformance Statement (ICS) and Implementation eXtra Information for Testing (IXIT) for Network Integration Testing for the European ISDN and PLMN, covering Network Integration Testing (NIT) between ISDN-UMTS, PSTN-UMTS, UMTS-ISDN, UMTS-PSTN and UMTS-UMTS networks. The objective is to verify the level of international or national end-to-end support of ISDN and UMTS services. Both bearer services (and associated teleservices) and supplementary services are checked for interworking capability and compatibility, in the European ISDN and UMTS.

The European ISDN, PSTN and PLMN (GSM, UMTS) 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 Implementation Conformance Statement (ICS) and Implementation eXtra Information for Testing (IXIT) for Network Integration Testing for Network Integration Testing (NIT) to verify the overall compatibility of UMTS, GSM, ISDN 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 mobile 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 and/or edition number or version number) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies.

Referenced documents which are not found to be publicly available in the expected location might be found at <http://docbox.etsi.org/Reference>.

- [1] ETSI 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] ETSI 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".
- [3] ETSI 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".
- [4] ETSI EN 300 267-1: "Integrated Services Digital Network (ISDN); Telephony 7 kHz, videotelephony, audiographic conference and videoconference teleservices; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [5] ETSI ETS 300 080: "Integrated Services Digital Network (ISDN); ISDN lower layer protocols for telematic terminals".
- [6] ETSI 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".
- [7] ETSI EN 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".
- [8] ETSI EN 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".
- [9] ETSI EN 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".
- [10] ETSI EN 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".

- [11] ETSI EN 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".
- [12] ETSI EN 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] ETSI EN 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] ETSI EN 300 207-1: "Integrated Services Digital Network (ISDN); Diversion supplementary services; Digital Subscriber Signalling System No. One (DSS1); Part 1: Protocol specification".
- [15] ETSI EN 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".
- [16] ETSI EN 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".
- [17] ETSI EN 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".
- [18] ETSI EN 300 196-1: "Integrated Services Digital Network (ISDN); Generic functional protocol for the support of supplementary services; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [19] ETSI EN 300 289: "Access and Terminals (AT); 64 kbit/s digital unrestricted leased line with octet integrity (D64U); Connection characteristics".
- [20] ISO/IEC 9646-1: "Information technology; Open Systems Interconnection; Conformance testing methodology and framework; Part 1: General concepts".
- [21] ISO/IEC 9646-2: "Information technology; Open Systems Interconnection; Conformance testing methodology and framework; Part 2: Abstract Test Suite specification".
- [22] ISO/IEC 9646-3: "Information technology; Open Systems Interconnection; Conformance testing methodology and framework; Part 3: The Tree and Tabular Combined Notation (TTCN)".
- [23] ETSI EN 300 940: "Digital cellular telecommunications system (Phase 2+) (GSM); Mobile radio interface layer 3 specification (GSM 04.08 Release 1998)".
- [24] ETSI EN 300 951: "Digital cellular telecommunications system (Phase 2+) (GSM); Line identification supplementary services; Stage 3 (GSM 04.81 Release 1998)".
- [25] ETSI EN 300 952: "Digital cellular telecommunications system (Phase 2+) (GSM); Call Forwarding (CF) supplementary services; Stage 3 (GSM 04.82 Release 1998)".
- [26] ETSI EN 300 953: "Digital cellular telecommunications system (Phase 2+) (GSM); Call Waiting (CW) and Call Hold (HOLD) supplementary services; Stage 3 (GSM 04.83 Release 1998)".
- [27] ETSI TS 100 569: "Digital cellular telecommunications system (Phase 2+) (GSM); Closed User Group (CUG) supplementary services; Stage 3 (GSM 04.85 Release 1998)".
- [28] ETSI TS 100 956: "Digital cellular telecommunications system (Phase 2+) (GSM); Call Barring (CB) supplementary services; Stage 3 (GSM 04.88 Release 1998)".
- [29] ETSI TS 124 008 (V3.2.1): "Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); Mobile radio interface layer 3 specification, Core Network protocols - Stage 3 (3G TS 24.008 version 3.2.1 Release 1999)".

- [30] ETSI TS 124 011 (V3.1.0): "Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); Point-to-Point (PP) Short Message Service (SMS) support on mobile radio interface (3G TS 24.011 version 3.1.0 Release 1999)".
- [31] ETSI TS 124 081 (V3.0.0): "Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); Line identification supplementary services - Stage 3 (3G TS 24.081 version 3.0.0 Release 1999)".
- [32] ETSI TS 124 082 (V3.0.0): "Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); Call Forwarding (CF) supplementary services - Stage 3 (3G TS 24.082 version 3.0.0 Release 1999)".
- [33] ETSI TS 124 083 (V3.0.0): "Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); Call Waiting (CW) and Call Hold (HOLD) supplementary services - Stage 3 (3G TS 24.083 version 3.0.0 Release 1999)".
- [34] ETSI TS 124 084 (V3.0.0): "Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); Multi Party (MPTY) supplementary service - Stage 3 (3G TS 24.084 version 3.0.0 Release 1999)".
- [35] ETSI TS 124 085 (V3.0.0): "Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); Closed User Group (CUG) supplementary service - Stage 3 (3G TS 24.085 version 3.0.0 Release 1999)".
- [36] ETSI TS 124 087 (V3.0.0): "Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); User-to-User Signalling (UUS) Supplementary Service - Stage 3 (3G TS 24.087 version 3.0.0 Release 1999)".
- [37] ETSI TS 124 088 (V3.0.0): "Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); Call Barring (CB) Supplementary Service - Stage 3 (3G TS 24.088 version 3.0.0 Release 1999)".
- [38] ETSI EN 300 001: "Attachments to the Public Switched Telephone Network (PSTN); General technical requirements for equipment connected to an analogue subscriber interface in the PSTN".
- [39] ETSI ETS 300 648: "Public Switched Telephone Network (PSTN); Calling Line Identification Presentation (CLIP) supplementary service; Service description".
- [40] ETSI ETS 300 559: "Digital cellular telecommunications system (Phase 2) (GSM); Point-to-Point (PP) Short Message Service (SMS) support on mobile radio interface (GSM 04.11)".
- [41] ETSI EN 300 954: "Digital cellular telecommunications system (Phase 2+) (GSM); Multi Party (MPTY) supplementary services; Stage 3 (GSM 04.84 Release 1998)".
- [42] ISO/IEC 9646-7: "Information technology; Open Systems Interconnection; Conformance testing methodology and framework; Part 7: Implementation Conformance Statements".
- [43] ITU-T Recommendation G.711: "Pulse code modulation (PCM) of voice frequencies".
- [44] ITU-T Recommendation H.221: "Frame structure for a 64 to 1920 kbit/s channel in audiovisual teleservices".
- [45] ITU-T Recommendation H.242: "System for establishing communication between audiovisual terminals using digital channels up to 2 Mbit/s".
- [46] ITU-T Recommendation V.110: "Support by an ISDN of data terminal equipments with V-Series type interfaces".
- [47] ITU-T Recommendation X.30: "Support of X.21, X.21 bis and X.20 bis based Data Terminal Equipments (DTEs) by an Integrated Services Digital Network (ISDN)".
- [48] ITU-T Recommendation F.721: "Videotelephony teleservice for ISDN".
- [49] ISO/IEC 7776: "Information technology - Telecommunications and information exchange between systems - High-level data link control procedures - Description of the X.25 LAPB-compatible DTE data link procedures".



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

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## 3 Definitions and abbreviations

### 3.1 Definitions

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

**Abstract Test Case (ATC):** Refer to ISO/IEC 9646-1 [20].

**Abstract Test Suite (ATS):** Refer to ISO/IEC 9646-1 [20].

**Implementation Under Test (IUT):** Refer to ISO/IEC 9646-1 [20].

**lower tester:** Refer to ISO/IEC 9646-1 [20].

**Implementation Conformance Statement (ICS) proforma:** Refer to ISO/IEC 9646-1 [20].

**Implementation eXtra Information for Testing (IXIT) proforma:** Refer to ISO/IEC 9646-1 [20].

**Point of Control and Observation:** Refer to ISO/IEC 9646-1 [20].

**Protocol Implementation Conformance Statement (PICS):** Refer to ISO/IEC 9646-1 [20].

**Protocol Implementation eXtra Information for Testing (PIXIT):** Refer to ISO/IEC 9646-1 [20].

**System Under Test (SUT):** Refer to ISO/IEC 9646-1 [20].

### 3.2 Definitions related to test purpose descriptions

**Alternate speech and facsimile group 3 (TS 61):** teleservice which allows the connection of ITUgroup 3 fax apparatus (send and/or receive) to the mobile stations of a GSM PLMN

NOTE: Facsimile connections may be established to/from group 3 apparatus in the PSTN, ISDN or GSM PLMN.

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

NOTE: 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.

**Automatic Facs. group 3 (TS 62):** teleservice which allows connection of ITUgroup 3 fax apparatus to and from the mobile stations of a GSM PLMN

NOTE: Facsimile connections may be established to and from group 3 apparatus in the PSTN, ISDN or GSM PLMN.

**BC=3,1 kHz audio:** Bearer Capability information element with its information transfer capability field set to "3,1 kHz Audio" and its user information layer one protocol field set to "G.711 A-law"

NOTE: See ETS 300 084 [3].

**BC=speech:** Bearer Capability information element with its information transfer capability field set to "speech" and its user information layer one protocol field set to "G.711 A-law"

NOTE: See ETS 300 083 [2].

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

NOTE: See EN 300 403-1 [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 and H.242"

NOTE: See EN 300 267-1 [4].

**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 "ITUstandardised rate adaption V.110/X.30", including sync/async and user rate values

NOTE: See EN 300 403-1 [1].

**CF active:** Call Forwarding (U, B or NR) supplementary service already activated with the address of user C

NOTE: See EN 300 207-1 [14].

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

NOTE: See EN 300 138-1 [11].

**GSM-BC=3,1 kHz:** (External to the PLMN) used to select a "3,1 kHz audio" interworking function at the MSC

NOTE: 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.

**GSM-BC=Speech (TS 11):** service which provides the transmission of speech information and audible signalling tones of the PSTN/ISDN

NOTE: 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.

**GSM-BC=UD:** Unrestricted Digital information (UD) which provides the transfer of unrestricted digital information

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

**GSM teleservices:** teleservices supported by a GSM PLMN are described by a number of attributes which are intended to be largely independent

NOTE: 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.

**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)"

NOTE: See EN 300 403-1 [1].

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

NOTE: See EN 300 403-1 [1] and ETS 300 080 [5].

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

NOTE: See EN 300 289 [19].

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

**HLC=videotelephony\_ic:** High Layer Compatibility information element with its high layer characteristics identification field set to "videotelephony (ITU-T Recommendation F.721)" and its extended audiovisual characteristics field set to "capability set of initial channel of ITU-T Recommendation H.221"

NOTE: See EN 300 267-1 [4] and EN 300 403-1 [1].

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

NOTE: See EN 300 403-1 [1] and ETS 300 080 [5].

**LLC = V110/X30:** Low Layer Compatibility information element with its user information layer 1 field indicating "ITUstandardised rate adaption V.110/X.30" and including sync/async and user rate values

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

NOTE: See EN 300 403-1 [1] and ETS 300 103 [6].

**NPI=unknown:** Numbering Plan Identification coded as "unknown"

NOTE: See EN 300 403-1 [1].

**PI=PR:** Presentation Indicator coded as "Presentation restricted"

NOTE: See EN 300 403-1 [1].

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

NOTE: See EN 300 403-1 [1].

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

**Speech followed by Data:** which provides a speech connection first and then at some time while the call is in progress, the user can switch to a data connection

NOTE: 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.

**TON=international:** Type Of Number coded as "international"

NOTE: See EN 300 403-1 [1].

**TON=unknown:** Type Of Number coded as "unknown"

NOTE: See EN 300 403-1 [1].

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

### 3.3 Abbreviations

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

3PTY	Three-ParTY conference
ATS	Abstract Test Suite
BC	Bearer Capability information element
BS	Base Station
BSS	Base Station System
CAMEL	Customized Applications for Mobile network Enhanced Logic
CD	Call Deflection
CDMA	Code Division Multiple Access
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
CLIP	Calling Line Identification Presentation
CLIR	Calling Line Identification Restriction
COLP	COnnected Line identification Presentation
COLR	COnnected Line identification Restriction
CONF	CONFeRence (add-on)
CUG	Closed User Group
CW	Call Waiting
ECT	Explicit Call Transfer
FPH	FreePHone service
GSM	Global System for Mobile communication
HLC	High Layer Compatibility information element
HPLMN	Home Public Land Mobile Network
IA	Incoming Access
ICB	Incoming Calls Barred within a CUG
IMSI	International Mobile Subscriber Identity
IN	Intelligent Network
INAP	Intelligent Network Application Part
IP	Internet Protocol
ISDN	Integrated Services Digital Network
ISUP	ISDN User Part
IUT	Implementation Under Test
LLC	Low Layer Compatibility information element
MAP	Mobile Application Part
MCID	Malicious Call IDentification
MOT	Means Of Testing
MS	Mobile Station
MS	Mobile Subscriber
MSC	Mobile Switching Center
MSISDN	Mobile Station ISDN number
MT	Mobile Terminal
MTC	Mobile Terminated Call
NIT	Network Integration Testing
NPI	Numbering Plan Identification
OCB	Outgoing Calls Barred within a CUG
PI	Presentation Indicator
PICS	Protocol Implementation Conformance Statement
PIXIT	Protocol Implementation eXtra Information for Testing
PLMN	Public Land Mobile Network
PSTN	Public Switched Telephone Network
SGSN	Serving GPRS Support Node
SI	Screening Indicator
SME	Service Mediation Environment
SMS	Short Message Service
SUB	SUBaddressing
SUT	System Under Test
TON	Type Of Number
TP	Terminal Portability
TP	Test Plant
TS	TeleService
TSS	Test Suite Structure
TSS&TP	Test Suite Structure and Test Purposes
UD	Unrestricted Digital information
UI	User Information
UMTS	Universal Mobile Telecommunications System
UUS	User-to-User Signalling
UUS1	UUS service 1
UUS2	UUS service 2
UUS3	UUS service 3
VPLMN	Visited Public Land Mobile Network

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## 4 Conformance to this ICS and IXIT proformas specification

If it claims to conform to the present document, the actual ICS proforma to be filled in by a supplier shall be technically equivalent to the text of the ICS proforma given in annex A, and shall preserve the numbering/naming and ordering of the proforma items.

An ICS which conforms to the present document shall be a conforming ICS proforma completed in accordance with the guidance for completion given in clause A.1.

A test realizer, producing a executable test suite for this ATS specification is required, as specified in ISO/IEC 9646-7 [42], to produce an augmented partial IXIT proforma conformant with the text of the partial IXIT proforma given in annex B.

An augmented partial IXIT proforma which conforms to this partial IXIT proforma specification shall, as a minimum, have contents which are technically equivalent to annex B. The augmented partial IXIT proforma may contain additional questions that need to be answered in order to prepare the Means Of Testing (MOT) for a particular IUT. The test laboratory may further augment the augmented partial IXIT proforma to produce a IXIT proforma conformant with this partial IXIT proforma specification.

A IXIT proforma which conforms to this partial IXIT proforma specification shall, as a minimum, have contents which are technically equivalent to annex B. The IXIT proforma may contain additional questions that need to be answered in order to prepare the test laboratory for a particular IUT.

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## Annex A (normative): End-to-end ICS proforma

Notwithstanding the provisions of the copyright clause related to the text of the present document, ETSI grants that users of the present document may freely reproduce the ICS proforma in this annex so that it can be used for its intended purposes and may further publish the completed ICS.

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### A.1 Guidance for completing the ICS proforma

#### A.1.1 Purposes and structure

The purpose of this ICS proforma is to provide a mechanism whereby a supplier of an implementation of the requirements defined by ETSI, may provide information about the implementation in a standardized manner.

The proforma is subdivided into subclauses for the following categories of information:

- guidance for completing the proformas;
- identification of the implementation;
- global statement of conformance.

#### A.1.2 Abbreviations and conventions

The ICS proforma contained in the annexes A is comprised of information in tabular form in accordance with the guidelines presented in ISO/IEC 9646-7 [42].

##### Item column

The item column contains a number which identifies the item in the table.

##### Item description column

The item description column describes in free text each respective item (e.g. parameters, timers, etc.). It implicitly means "is <item description> supported by the implementation?".

##### Status column

The following notations, defined in ISO/IEC 9646-7 [42], are used for the status column:

m	mandatory - the capability is required to be supported.
o	optional - the capability may be supported or not.
n/a	not applicable - in the given context, it is impossible to use the capability.
x	prohibited (excluded) - there is a requirement not to use this capability in the given context.
o.i	qualified optional - for mutually exclusive or selectable options from a set. "i" is an integer which identifies an unique group of related optional items and the logic of their selection which is defined immediately following the table.
ci	conditional - the requirement on the capability ("m", "o", "x" or "n/a") depends on the support of other optional or conditional items. "i" is an integer identifying an unique conditional status expression which is defined immediately following the table.

i irrelevant (out-of-scope) - capability outside the scope of the reference specification. No answer is requested from the supplier.

NOTE 1: This use of "i" status is not to be confused with the suffix "i" to the "o" and "c" statuses above.

### Reference column

The reference column makes reference to ETS <reference specification id> [], except where explicitly stated otherwise.

### Support column

The support column shall be filled in by the supplier of the implementation. The following common notations, defined in ISO/IEC 9646-7 [42], are used for the support column:

Y or y	supported by the implementation.
N or n	not supported by the implementation.
N/A, n/a or -	no answer required (allowed only if the status is n/a, directly or after evaluation of a conditional status).

If this ICS proforma is completed in order to describe a multiple-profile support in a system, it is necessary to be able to answer that a capability is supported for one profile and not supported for another. In that case, the supplier shall enter the unique reference to a conditional expression, preceded by "?" (e.g. ?3). This expression shall be given in the space for comments provided at the bottom of the table. It uses predicates defined in the SCS, each of which refers to a single profile and which takes the value TRUE if and only if that profile is to be used.

EXAMPLE 1: ?3: IF prof1 THEN Y ELSE N

NOTE 2: As stated in ISO/IEC 9646-7 [42], support for a received PDU requires the ability to parse all valid parameters of that PDU. Supporting a PDU while having no ability to parse a valid parameter is non-conformant. Support for a parameter on a PDU means that the semantics of that parameter are supported.

### Values allowed column

The values allowed column contains the type, the list, the range, or the length of values allowed. The following notations are used:

- range of values: <min value> .. <max value>  
example: 5 .. 20
- list of values: <value1>, <value2>, ..., <valueN>  
example: 2,4,6,8,9  
example: '1101'B, '1011'B, '1111'B  
example: '0A'H, '34'H, '2F'H
- list of named values: <name1>(<val1>), <name2>(<val2>), ..., <nameN>(<valN>)  
example: reject(1), accept(2)
- length: size (<min size> .. <max size>)  
example: size (1 .. 8)

### Values supported column

The values supported column shall be filled in by the supplier of the implementation. In this column, the values or the ranges of values supported by the implementation shall be indicated.

## References to items

For each possible item answer (answer in the support column) within the ICS proforma a unique reference exists, used, for example, in the conditional expressions. It is defined as the table identifier, followed by a solidus character "/", followed by the item number in the table. If there is more than one support column in a table, the columns are discriminated by letters (a, b, etc.), respectively.

EXAMPLE 2: A.5/4 is the reference to the answer of item 4 in table 5 of annex A.

EXAMPLE 3: A.6/3b is the reference to the second answer (i.e. in the second support column) of item 3 in table 6 of annex A.

## Prerequisite line

A prerequisite line takes the form: Prerequisite: <predicate>.

A prerequisite line after a clause or table title indicates that the whole clause or the whole table is not required to be completed if the predicate is FALSE.

## A.1.3 Instructions for completing the ICS proforma

The supplier of the implementation shall complete the ICS proforma in each of the spaces provided. In particular, an explicit answer shall be entered, in each of the support or supported column boxes provided, using the notation described in clause A.1.2.

If necessary, the supplier may provide additional comments in space at the bottom of the tables, or separately on sheets of paper.

More detailed instructions may be given at the beginning of the different clauses of the ICS proforma.

## A.2 Identification of the implementation

Identification of the Implementation Under Test (IUT), the Integrated Services Digital Network provided by the European public telecommunications operator, should be filled in so as to provide as much detail as possible regarding version numbers and configuration options.

The product supplier information and client information should both be filled in if they are different.

A person who can answer queries regarding information supplied in the ICS and IXIT should be named as the contact person.

### A.2.1 Date of the statement

.....

### A.2.2 Implementation Under Test (IUT) identification

IUT name:

.....

.....

IUT version:

.....



## A.2.3 ICS contact person

(A person to contact if there are any queries concerning the content of the ICS or IXIT)

Name:

.....

Telephone number:

.....

Facsimile number:

.....

E-mail address:

.....

Additional information:

.....

.....

.....

## A.3 Identification of the document

This ICS proforma applies to the following standard:

**EN 300 403-1:** "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1), User-network interface layer 3 specification for basic call control. Part 1: Protocol specification".

**PLMN 04.08 (EN 300 940):** "European digital cellular telecommunications system (Phase 2); Mobile radio interface layer 3 specification".

**TS 124 008 (V3.2.1):** "Mobile Radio Interface Layer 3 specification; Core Network Protocols- Stage 3".

Other ETSI standards related to UMTS, ISDN and GSM signalling, layer 3 testing.

## A.4 ISDN - UMTS Interworking

### A.4.1 Basic call

**Table A.1: Services based on bearer capability speech**

Item	Service	Reference	Status	Support
ISDN				
1	Speech	EN 300 403-1	o	
UMTS				
2	TS11	TS 124 008	o.1	

Table A.2: Bearer service 3,1 kHz audio

Item	Service	Reference	Status	Support
ISDN				
1	Bearer service 3,1 kHz audio	EN 300 403-1	o	
2	Telefax G3 terminals		o	
UMTS				
3	Multi Numbering Scheme and TS11	TS 124 008	o.1	
4	Single Numbering Scheme		o.2	
5	Single Numbering Scheme and TS11		o	
6	Telefax G3 terminals at calling user side and Telefax G3 terminals (TS61) at called side		o	
7	Telefax G3 terminals at calling user side and TS62 at the called side		o	
8	Telefax G3 terminals at calling user side and TS62 and Single Numbering Scheme at the called side		o	
o.1:	It is mandatory to support at least one of these options.			
o.2:	It is mandatory to support at least one of these options.			

Table A.3: User rates for Bearer service 3,1 kHz audio ISDN/UMTS

Item	Service	Reference	Status	Support
UMTS				
1	Selection criteria: synchronous mode, BS31 MODE: synchronous USER_RATE: 1,2 kbit/s G_USER_RATE: 1,2 kbit/s	TS 124 008	o	
2	Selection criteria: synchronous mode, BS32 MODE: synchronous USER_RATE: 2,4 kbit/s G_USER_RATE: 2,4 kbit/s		o	
3	Selection criteria: synchronous mode, BS33 MODE: synchronous USER_RATE: 4,8 kbit/s G_USER_RATE: 4,8 kbit/s		o	
4	Selection criteria: synchronous mode, BS34 MODE: synchronous USER_RATE: 9,6 kbit/s G_USER_RATE: 9,6 kbit/s		o	
5	Selection criteria: asynchronous mode, BS21 MODE: asynchronous USER_RATE: 0,3 kbit/s G_USER_RATE: 0,3 kbit/s		o	
6	Selection criteria: asynchronous mode, BS22 MODE: asynchronous USER_RATE: 1,2 kbit/s G_USER_RATE: 1,2 kbit/s		o	
7	Selection criteria: asynchronous mode, BS24 MODE: asynchronous USER_RATE: 2,4 kbit/s G_USER_RATE: 2,4 kbit/s		o	
8	Selection criteria: asynchronous mode, BS25 MODE: asynchronous USER_RATE: 4,8 kbit/s G_USER_RATE: 4,8 kbit/s		o	
9	Selection criteria: asynchronous mode, BS26 MODE: asynchronous USER_RATE: 9,6 kbit/s G_USER_RATE: 9,6 kbit/s		o	

**Table A.4: Services based on bearer service unrestricted digital information**

Item	Service	Reference	Status	Support
ISDN				
1	Services based on bearer service unrestricted digital information	EN 300 403-1	o	
UMTS				
2	UDI	TS 124 008	o	
3	Multi Numbering Scheme		o.3	
4	Single Numbering Scheme		o.4	
o.3:	It is mandatory to support at least one of these options.			
o.4:	It is mandatory to support at least one of these options.			

**Table A.5: User rates for UDI/ISDN-UMTS**

Item	Service	Reference	Status	Support
UMTS				
1	Selection criteria: synchronous mode, BS31 MODE: synchronous USER_RATE: 1,2 kbit/s G_USER_RATE: 1,2 kbit/s	TS 124 008	o	
2	Selection criteria: synchronous mode, BS32 MODE: synchronous USER_RATE: 2,4 kbit/s G_USER_RATE: 2,4 kbit/s		o	
3	Selection criteria: synchronous mode, BS33 MODE: synchronous USER_RATE: 4,8 kbit/s G_USER_RATE: 4,8 kbit/s		o	
4	Selection criteria: synchronous mode, BS34 MODE: synchronous USER_RATE: 9,6 kbit/s G_USER_RATE: 9,6 kbit/s		o	
5	Selection criteria: asynchronous mode, BS21 MODE: asynchronous USER_RATE: 0,3 kbit/s G_USER_RATE: 0,3 kbit/s		o	
6	Selection criteria: asynchronous mode, BS22 MODE: asynchronous USER_RATE: 1,2 kbit/s G_USER_RATE: 1,2 kbit/s		o	
7	Selection criteria: asynchronous mode, BS24 MODE: asynchronous USER_RATE: 2,4 kbit/s G_USER_RATE: 2,4 kbit/s		o	
8	Selection criteria: asynchronous mode, BS25 MODE: asynchronous USER_RATE: 4,8 kbit/s G_USER_RATE: 4,8 kbit/s		o	
9	Selection criteria: asynchronous mode, BS26 MODE: asynchronous USER_RATE: 9,6 kbit/s G_USER_RATE: 9,6 kbit/s		o	

**Table A.6: Services based on bearer service unrestricted digital information with tones/announcements**

Item	Service	Reference	Status	Support
ISDN				
1	Services based on bearer service unrestricted digital information with tones/announcements	EN 300 403-1	o	

## A.4.2 Supplementary services

**Table A.7: CLIP service**

Item	Service	Reference	Status	Support
ISDN				
1	CLIP	EN 300 092-1	o	
UMTS				
2	The called user is provided with CLIP	TS 124 008 TS 124 081	o	

**Table A.8: CLIR service**

Item	Service	Reference	Status	Support
ISDN				
1	Calling line identification restriction (CLIR)	EN 300 093-1	o	
UMTS				
2	The called user is provided with CLIP	TS 124 008 TS 124 081	o	

**Table A.9: COLP service**

Item	Service	Reference	Status	Support
ISDN				
1	Calling user is provided with COLP	EN 300 403-1 EN 300 097-1	o	
UMTS				
2	Connected Line Identification Presentation (COLP)	TS 124 008 TS 124 081	o	

**Table A.10: COLR service**

Item	Service	Reference	Status	Support
ISDN				
1	The calling user is provided with COLP	EN 300 403-1 EN 300 097-1	o	
UMTS				
2	Connected Line Identification Restriction (COLR)	TS 124 008 TS 124 081	o	

Table A.11: CUG service

Item	Service	Reference	Status	Support
ISDN				
1	CUG	EN 300 138-1	o	
UMTS				
2	CUG	TS 124 085	o	
3	CUG supporting options are: not OA, not OCB, not Pref. CUG for ISDN user and calling and called user have the same CUG, and CUG supporting options of UMTS user are IA and not ICB		o	
4	CUG supporting options are: not OA, not OCB, not Pref. CUG for ISDN user and calling and called user have the same CUG, and CUG supporting options of UMTS user are not IA and not ICB		o	
5	CUG supporting options are: not OA, not OCB, not Pref. CUG for ISDN user and called user is not a member of CUG		o	
6	CUG supporting options are: OA, not OCB, not Pref. CUG for ISDN user and calling and called user have the same CUG, and CUG supporting options of UMTS user are IA and ICB		o	
7	CUG supporting options are: OA, not OCB, not Pref. CUG for ISDN user and calling and called user have the same CUG, and CUG supporting options of UMTS user are IA and not ICB		o	
8	CUG supporting options are: OA, not OCB, not Pref. CUG for ISDN user and calling and called user have the same CUG, and CUG supporting options of UMTS user are not IA and ICB		o	
9	CUG supporting options are: OA, not OCB, not Pref. CUG for ISDN user and called user is not a member of CUG		o	
10	Calling user is not member of CUG s and called user has CUG with not IA and not ICB		o	

Table A.12: SUB service

Item	Service	Reference	Status	Support
ISDN				
1	Subaddressing (SUB)	EN 300 403-1	o	
UMTS				
2	SUB where the called served user is provided with SUB	TS 124 008	o	

Table A.13: CF services

Item	Service	Reference	Status	Support
ISDN				
1	Call to a forwarding subscriber	EN 300 403-1	o	
UMTS				
2	CF where user A is in network N1 and user B and C are in network N2	TS 124 008 TS 124 082	o	
Please specify configuration: (if other than A and C in Originating network, B in Destination Network)				

Table A.14: CFU service

Item	Service	Reference	Status	Support
ISDN				
1	Call to a forwarding subscriber (CFU)	EN 300 403-1	o	
UMTS				
2	CFU - calling user is not notified of call diversion	TS 124 008 TS 124 082	o.5	
3	CFU - calling user is notified of call diversion		o.6	
Please specify configuration: (if other than A and C in Originating network, B in Destination Network)				
o.5: It is mandatory to support at least one of these options.				
o.6: It is mandatory to support at least one of these options.				

Table A.15: CFB service

Item	Service	Reference	Status	Support
ISDN				
1	Call to a forwarding subscriber (CFB)	EN 300 403-1	o	
UMTS				
2	CFB where user B is provided with CBFNDUB and calling user is not notified of call diversion and there is no notification to forwarding subscriber	TS 124 008 TS 124 082	o.7	
3	CFB where user B is provided with CBFNDUB and calling user is notified of call diversion and there is notification to forwarding subscriber		o.8	
4	CFB where calling user is not notified of call diversion		o.9	
5	CFB; Calling user is notified of call diversion		o.10	
Please specify configuration: (if other than A and C in Originating network, B in Destination Network)				
o.7: It is mandatory to support at least one of these options.				
o.8: It is mandatory to support at least one of these options.				
o.9: It is mandatory to support at least one of these options.				
o.10: It is mandatory to support at least one of these options.				

Table A.16: CFNRy service

Item	Service	Reference	Status	Support
ISDN				
1	Call to a forwarding subscriber (CFNRy)	EN 300 403-1	o	
UMTS				
2	CFNRy - user B is provided with CFNRy and calling user is not notified of call diversion and there is no notification to forwarding subscriber	TS 124 008 TS 124 082	o.11	
3	CFNRy - user B is provided with CFNRy and calling user is notified of call diversion and there is notification to forwarding subscriber		o.12	
Please specify configuration: (if other than A and C in Originating network, B in Destination Network)				
o.11: It is mandatory to support at least one of these options.				
o.12: It is mandatory to support at least one of these options.				

Table A.17: CFNRc service

Item	Service	Reference	Status	Support
ISDN				
1	Call to forwarding subscriber (CFNRc)	EN 300 403-1	o	
UMTS				
2	CFNRc - User B is provided with CFNRc and calling user is not notified of call diversion	TS 124 008 TS 124 082	o.13	
3	CFNRc - User B is provided with CFNRc and calling user is notified of call diversion		o.14	
Please specify configuration: (if other than A and C in Originating network, B in Destination Network)				
o.13: It is mandatory to support at least one of these options.				
o.14: It is mandatory to support at least one of these options.				

Table A.18: HOLD service

Item	Service	Reference	Status	Support
ISDN				
1	Call hold (HOLD)	EN 300 403-1 EN 300 141-1 EN 300 196-1	o	
UMTS				
2	Call hold (HOLD)	TS 124 008 TS 124 083	o	

Table A.19: CW service

Item	Service	Reference	Status	Support
ISDN				
1	Call waiting (CW)	EN 300 058-1 EN 300 403-1	o	
UMTS				
2	The called user is provided with CW	TS 124 008 TS 124 083	o	

Table A.20: ECT service

Item	Service	Reference	Status	Support
ISDN				
1	ECT	EN 300 369-1	o	

Table A.21: UUS1i service

Item	Service	Reference	Status	Support
ISDN				
1	User-user signalling (UUS) service 1 implicitly requested	EN 300 286-1	o	
UMTS				
2	User-user signalling (UUS) service 1 implicitly requested	TS 124 008 TS 124 087	o	

**Table A.22: UUS1e service**

Item	Service	Reference	Status	Support
ISDN				
1	User-user signalling (UUS) service 1 explicitly requested	EN 300 286-1	o	
UMTS				
2	User-user signalling (UUS) service 1 explicitly requested	TS 124 008	o	

**Table A.23: UUS2 service**

Item	Service	Reference	Status	Support
ISDN				
1	User-user signalling (UUS) 2 service	EN 300 286-1	o	
UMTS				
2	User-user signalling (UUS) 2 service	TS 124 008 TS 124 087	o	

**Table A.24: UUS3 service**

Item	Service	Reference	Status	Support
ISDN				
1	User-user signalling (UUS) 3 service	EN 300 286-1	o	
UMTS				
2	User-user signalling (UUS) 3 service	TS 124 008 TS 124 087	o	

**Table A.25: Interaction CFU/CLIP/COLP**

Item	Service	Reference	Status	Support
Configuration				
1.1	Interaction CFU/CLIP/COLP		o	
1.2	User A is provided with CLIP and COLP, and User B is provided with CFU and calling user is not notified of call diversion and User C is provided with CLIP	EN 300 092-1 EN 300 098-1 TS 124 082	o.15	
1.3	User A is provided with CLIP and COLP, User C is provided with CLIP and User B is provided with CFU and calling user is not notified of call diversion	TS 124 081	o.16	
1.4	User A is provided with CLIP and COLP, User C is provided with CLIP and User B is provided with CFU and calling user is notified of call diversion		o.17	
1.5	User A is provided with CLIP and COLP, User C is provided with CLIP and User B is provided with CFU and calling user is notified of call diversion and CLIP		o.18	
1.6	User A is provided with CLIP and COLP, user C is provided with COLR and CLIP and user B is provided with CFU and calling user is notified of call diversion and CLIP		o.19	
o.15:	It is mandatory to support at least one of these options.			
o.16:	It is mandatory to support at least one of these options.			
o.17:	It is mandatory to support at least one of these options.			
o.18:	It is mandatory to support at least one of these options.			
o.19:	It is mandatory to support at least one of these options.			



Table A.26: Interaction CFB/CLIP/COLP

Item	Service	Reference	Status	Support
Configuration				
1.1	Interaction CFB/CLIP/COLP		o	
1.2	User A is provided with CLIP and COLP, User C is provided with CLIP and User B is provided with CFBUDUB and calling user is notified of call diversion and there is notification to forwarding subscriber	EN 300 092-1 EN 300 098-1 TS 124 082 TS 124 081	o.20	
1.3	User A is provided with CLIP and COLP, User C is provided with CLIP and User B is provided with CFBUDUB and calling user is not notified of call diversion and there is no notification to forwarding subscriber and CLIR		o.21	
1.4	User A is provided with CLIP and COLP, User C is provided with CLIP and User B is provided with CFBUDUB and calling user is not notified of call diversion and CLIR		o.22	
1.5	User A is provided with CLIP and COLP, User C is provided with CLIP and User B is provided with CFBUDUB and calling user is notified of call diversion and CLIP		o.23	
1.6	User A is provided with CLIR and COLP, and User B is provided with CFU and calling user is notified of call diversion, User C is provided with COLR and CLIP		o.24	
1.7	User A is provided with CLIP and COLP, user C is provided with CLIP and user B is provided with CFBNDUB and calling user is not notified of call diversion and there is no notification to forwarding subscriber		o.25	
1.8	User A is provided with CLIR and COLP, user C is provided with COLR and CLIP and user B is provided with CFBNDUB and calling user is notified of call diversion and there is notification to forwarding subscriber		o.26	
1.9	User A is provided with CLIP and COLP, user C is provided with COLR and CLIP and user B is provided with CFBUDUB and calling user is notified of call diversion and CLIP		o.27	
o.20:	It is mandatory to support at least one of these options.			
o.21:	It is mandatory to support at least one of these options.			
o.22:	It is mandatory to support at least one of these options.			
o.23:	It is mandatory to support at least one of these options.			
o.24:	It is mandatory to support at least one of these options.			
o.25:	It is mandatory to support at least one of these options.			
o.26:	It is mandatory to support at least one of these options.			
o.27:	It is mandatory to support at least one of these options.			

Table A.27: Interaction CFNRy/CLIP/COLP

Item	Service	Reference	Status	Support
Configuration				
1.1	Interaction CFNRy/CLIP/COLP		o	
1.2	User A is provided with CLIR and COLP, user C is provided with COLR and CLIP and user B is provided with CFNRy and calling user is notified of call diversion and there is notification to forwarding subscriber	EN 300 092-1 EN 300 098-1 TS 124 082 TS 124 081	o.28	
1.3	User A is provided with COLP, user C is provided with CLIP and user B is provided with CFNRy and calling user is notified of call diversion and there is notification to forwarding subscriber		o.29	
o.28:	It is mandatory to support at least one of these options.			
o.29:	It is mandatory to support at least one of these options.			

**Table A.28: Interaction CFNRc/CLIP/COLP**

Item	Service	Reference	Status	Support
Configuration				
1.1	Configuration ISDN-UMTS		o	
1.2	Interaction CFNRc/CLIP/COLP	EN 300 092-1	o	
1.3	User A is provided with CLIP and COLP, User C is provided with CLIP and User B is provided with CFNRc and calling user is notified of call diversion	EN 300 098-1 TS 124 082 TS 124 081	o.30	
1.4	User A is provided with CLIP and COLP, User C is provided with CLIP and User B is provided with CFNRc and calling user is not notified of call diversion and CLIR		o.31	
1.5	User A is provided with CLIP and COLP, user C is provided with COLR and CLIP and user B is provided with CFU and calling user is notified of call diversion and CLIP		o.32	
o.30:	It is mandatory to support at least one of these options.			
o.31:	It is mandatory to support at least one of these options.			
o.32:	It is mandatory to support at least one of these options.			

#### A.4.2.1 Non-symmetrical tests

**Table A.29: TP service**

Item	Service	Reference	Status	Support
ISDN				
1	Terminal portability (TP)	EN 300 055-1	c.1	
c.1:	Precondition: must be a basic access.			

## A.5 Interworking PSTN-UMTS

### A.5.1 Basic call

When performing network integration testing between PSTN and UMTS users, the following tables related to the implemented interworking capabilities should be filled in.

**Table A.30: PSTN-UMTS interworking capabilities, basic call**

Item	Service	Reference	Status	Support
PSTN				
1	Call establishment to a UMTS user	EN 300 001	o	
UMTS				
2	Multi Numbering Scheme and TS11	TS 124 008	o	

### A.5.2 Interworking PSTN-UMTS -Supplementary services

**Table A.31: CLIP service**

Item	Service	Reference	Status	Support
PSTN				
1	Call to a UMTS user	EN 300 001	o	
UMTS				
2	The called user is provided with CLIP	TS 124 008 TS 124 081	o	

**Table A.32: CLIR service**

Item	Service	Reference	Status	Support
PSTN				
1	The calling user is provided with CLIR subscription	EN 300 001 EN 300 093-1	o	
UMTS				
2	The called user is provided with CLIP	TS 124 008 TS 124 081	o	

**Table A.33: CUG service**

Item	Service	Reference	Status	Support
PSTN				
1	Closed user group (Calling user is not member of a CUG)	EN 300 001	o	
UMTS				
2	CUG incoming access "not allowed"	TS 124 008 TS 124 085	o	

**Table A.34:CFU service**

Item	Service	Reference	Status	Support
1	Configuration PSTN-UMTS			
PSTN				
2	Call to a forwarding subscriber (CFU)	EN 300 001	o	
UMTS				
3	Call forwarding unconditional (CFU)	TS 124 008 TS 124 082	o	
Please specify configuration: (if other than A and C in Originating network, B in Destination Network)				

**Table A.35: CFB service**

Item	Service	Reference	Status	Support
1	Configuration PSTN-UMTS			
PSTN				
2	Call to a forwarding subscriber (CFB)	EN 300 001	o	
UMTS				
3	CFB- Called user with CFBUDUB	TS 124 008 TS 124 082	o.33	
4	CFB - Called user with CFBNDUB and notification to forwarding subscriber		o.34	
5	CFB – Called user with CFBNDUB and no notification to forwarding subscriber		o.35	
Please specify configuration: (if other than A and C in Originating network, B in Destination Network)				
o.33: It is mandatory to support at least one of these options.				
o.34: It is mandatory to support at least one of these options.				
o.35: It is mandatory to support at least one of these options.				

**Table A.36: CFNRy service**

Item	Service	Reference	Status	Support
1	Configuration PSTN-UMTS			
	PSTN			
2	Call to a forwarding subscriber (CFNRy)	EN 300 001	o	
	UMTS			
3	CFNRy with notification to forwarding subscriber	TS 124 008 TS 124 082	o.36	
4	CFNRy with no notification to forwarding subscriber		o.37	
Please specify configuration: (if other than A and C in Originating network, B in Destination Network)				
o.36: It is mandatory to support at least one of these options.				
o.37: It is mandatory to support at least one of these options.				

**Table A.37: CFNRc service**

Item	Service	Reference	Status	Support
1	Configuration PSTN-UMTS			
	PSTN			
2	Call to forwarding subscriber (CFNRc)	EN 300 001	o	
	UMTS			
3	CFNRc with notification to forwarding subscriber	TS 124 008 TS 124 082	o	
Please specify configuration: (if other than A and C in Originating network, B in Destination Network)				

### A.5.2.1 Non-symmetrical tests

**Table A.38: Call barring service**

Item	Service	Reference	Status	Support
	UMTS			
1	The Network B supports barring of all incoming calls (BAIC) and barring of incoming calls when roaming outside the home UMTS country (BIC-Roam). The MS is roaming outside the home UMTS country.	TS 124 008 TS 124 088	o	

**Table A.39: Multiparty service**

Item	Service	Reference	Status	Support
	UMTS			
1	MPTY	TS 124 008 TS 124 084	o	

## A.6 UMTS-ISDN Interworking

### A.6.1 Basic call

**Table A.40: Teleservice 11**

Item	Service	Reference	Status	Support
UMTS				
1	Teleservice 11	TS 124 008	o	
ISDN				
2	Services based on bearer capability speech	EN 300 403-1	o	

**Table A.41: Teleservice 12**

Item	Service	Reference	Status	Support
UMTS				
1	Teleservice 12	TS 124 008	o	
ISDN				
2	Services based on bearer capability speech	EN 300 403-1	o	

**Table A.42: Information transfer 3,1 kHz audio, ex PLMN**

Item	Service	Reference	Status	Support
UMTS				
1	Audio	TS 124 008	o	
ISDN				
2	Bearer service 3,1kHz audio	EN 300 403-1	o	

**Table A.43: User rates for 3,1 kHz/UMTS-ISDN**

Item	Service	Reference	Status	Support
UMTS				
1	Selection criteria: synchronous mode, BS31 MODE: synchronous USER_RATE: 1,2 kbit/s G_USER_RATE: 1,2 kbit/s	TS 124 008	o	
2	Selection criteria: synchronous mode, BS32 MODE: synchronous USER_RATE: 2,4 kbit/s G_USER_RATE: 2,4 kbit/s		o	
3	Selection criteria: synchronous mode, BS33 MODE: synchronous USER_RATE: 4,8 kbit/s G_USER_RATE: 4,8 kbit/s		o	
4	Selection criteria: synchronous mode, BS34 MODE: synchronous USER_RATE: 9,6 kbit/s G_USER_RATE: 9,6 kbit/s		o	
5	Selection criteria: asynchronous mode, BS21 MODE: asynchronous USER_RATE: 0,3 kbit/s G_USER_RATE: 0,3 kbit/s		o	
6	Selection criteria: asynchronous mode, BS22 MODE: asynchronous USER_RATE: 1,2 kbit/s G_USER_RATE: 1,2 kbit/s		o	
7	Selection criteria: asynchronous mode, BS24 MODE: asynchronous USER_RATE: 2,4 kbit/s G_USER_RATE: 2,4 kbit/s		o	
8	Selection criteria: asynchronous mode, BS25 MODE: asynchronous USER_RATE: 4,8 kbit/s G_USER_RATE: 4,8 kbit/s		o	
9	Selection criteria: asynchronous mode, BS26 MODE: asynchronous USER_RATE: 9,6 kbit/s G_USER_RATE: 9,6 kbit/s		o	

**Table A.44: Information transfer unrestricted digital information**

Item	Service	Reference	Status	Support
UMTS				
1	UDI	TS 124 008	o	
ISDN				
2	Bearer service UDI	EN 300 403-1	o	

**Table A.45: User rates for UDI / UMTS-ISDN**

Item	Service	Reference	Status	Support
UMTS				
1	Selection criteria: synchronous mode, BS31 MODE: synchronous USER_RATE: 1,2 kbit/s G_USER_RATE: 1,2 kbit/s	TS 124 008	o	
2	Selection criteria: synchronous mode, BS32 MODE: synchronous USER_RATE: 2,4 kbit/s G_USER_RATE: 2,4 kbit/s		o	
3	Selection criteria: synchronous mode, BS33 MODE: synchronous USER_RATE: 4,8 kbit/s G_USER_RATE: 4,8 kbit/s		o	
4	Selection criteria: synchronous mode, BS34 MODE: synchronous USER_RATE: 9,6 kbit/s G_USER_RATE: 9,6 kbit/s		o	
5	Selection criteria: asynchronous mode, BS21 MODE: asynchronous USER_RATE: 0,3 kbit/s G_USER_RATE: 0,3 kbit/s		o	
6	Selection criteria: asynchronous mode, BS22 MODE: asynchronous USER_RATE: 1,2 kbit/s G_USER_RATE: 1,2 kbit/s		o	
7	Selection criteria: asynchronous mode, BS24 MODE: asynchronous USER_RATE: 2,4 kbit/s G_USER_RATE: 2,4 kbit/s		o	
8	Selection criteria: asynchronous mode, BS25 MODE: asynchronous USER_RATE: 4,8 kbit/s G_USER_RATE: 4,8 kbit/s		o	
9	Selection criteria: asynchronous mode, BS26 MODE: asynchronous USER_RATE: 9,6 kbit/s G_USER_RATE: 9,6 kbit/s		o	

**Table A.46: Teleservice 62 /Automatic Facsimile G3**

Item	Service	Reference	Status	Support
UMTS				
1	Teleservice 62 / Automatic Facsimile G3	TS 124 008	o	
ISDN				
2	Telefax G3 terminals	EN 300 403-1	o	

**Table A.47: Teleservice 61 /Alternate speech and facsimile group 3**

Item	Service	Reference	Status	Support
UMTS				
1	Teleservice 61	TS 124 008	o	
ISDN				
2	Bearer service 3,1 kHz audio	EN 300 403-1	o	

**Table A.48: Bearer service 81/Speech followed by data**

Item	Service	Reference	Status	Support
UMTS				
1	Bearer service 81/Speech followed by data	TS 124 008	o	
ISDN				
2	Bearer service 3,1 kHz audio	EN 300 403-1	o	

## A.6.2 UMTS-ISDN Interworking - Supplementary services

**Table A.49: CLIP service**

Item	Service	Reference	Status	Support
UMTS				
1	The calling user is provided with CLIP	TS 124 008 TS 124 081	o	
ISDN				
2	The called user is provided with CLIP	EN 300 092-1	o	

**Table A.50: CLIR service**

Item	Service	Reference	Status	Support
UMTS				
1	CLIR	TS 124 008 TS 124 081	o	
ISDN				
2	The called user is provided with CLIP	EN 300 093-1	o	

**Table A.51: COLP service**

Item	Service	Reference	Status	Support
UMTS				
1	Calling user is provided with COLP	TS 124 008 TS 124 081	o	
ISDN				
2	COLP	EN 300 097-1	o	

**Table A.52: COLR service**

Item	Service	Reference	Status	Support
UMTS				
1	The calling user is provided with COLP	TS 124 008 TS 124 081	o	
ISDN				
2	COLR	EN 300 403-1 EN 300 098-1	o	



Table A.53: CUG service

Item	Service	Reference	Status	Support
UMTS				
1	CUG supporting options are not OA, not OCB, not Pref. CUG for UMTS user and calling and called user have the same CUG, and CUG supporting options of ISDN user are IA and not ICB	TS 124 008 TS 124 085	o	
2	CUG supporting options are not OA, not OCB, not Pref. CUG for UMTS user and calling and called user have the same CUG, and CUG supporting options of ISDN user are not IA and not ICB		o	
3	CUG supporting options are OA, not OCB, not Pref. CUG for UMTS user and calling and called user have the same CUG, and CUG supporting options of ISDN user are IA and not ICB		o	
4	CUG supporting options are OA, not OCB, not Pref. CUG for UMTS user and calling and called user have the same CUG, and CUG supporting options of ISDN user are IA and ICB		o	
5	CUG supporting options are OA, not OCB, not Pref. CUG for UMTS user and calling and called user have the same CUG, and CUG supporting options of ISDN user are not IA and ICB		o	
6	CUG supporting options are OA, not OCB, not Pref. CUG for UMTS user and called user is not a CUG subscriber		o	
7	CUG supporting options are not OA, not OCB, not Pref. CUG for UMTS user and called user is not a CUG subscriber		o	
8	Calling user is not a CUG subscriber and called user CUG supporting options are not IA and not ICB		o	
ISDN				
9	CUG	EN 300 138-1	o	

Table A.54: SUB service

Item	Service	Reference	Status	Support
UMTS				
1	Subaddressing (SUB)	TS 124 008	o	
ISDN				
2	Subaddressing (SUB)	EN 300 403-1	o	

Table A.55: HOLD service

Item	Service	Reference	Status	Support
UMTS				
1	Call hold (HOLD)	TS 124 008 TS 124 083	o	
ISDN				
2	Call hold (HOLD)	EN 300 403-1 EN 300 141-1	o	

Table A.56: CW service

Item	Service	Reference	Status	Support
UMTS				
1	Call waiting (CW)	TS 124 008 TS 124 083	o	
ISDN				
2	Call waiting	EN 300 403-1 EN 300 058-1	o	

Table A.57: UUS1

Item	Service	Reference	Status	Support
UMTS				
1	User-user signalling (UUS) service	TS 124 008 TS 124 087	o	
ISDN				
2	User-user signalling (UUS) service	EN 300 403-1	o	

Table A.58: ECT service

Item	Service	Reference	Status	Support
ISDN				
1	ECT	EN 300 369-1	o	

Table A.59: CFU Configuration - UMTS-ISDN

Item	Service	Reference	Status	Support
Configuration				
1.1	Configuration UMTS-ISDN		o	
1.2	CFU; User B is in network N2 and is provided with CFU and calling user is notified of call diversion and there is notification to forwarding subscriber and with diverted-to number	EN 300 207-1 TS 124 008 TS 124 082	o.38	
1.3	CFU; User B is in network N2 and is provided with CFU and calling user is not notified of call diversion and there is no notification to forwarding subscriber and without diverted-to number		o.39	
o.38:	It is mandatory to support at least one of these options.			
o.39:	It is mandatory to support at least one of these options.			

**Table A.60: CFB - Configuration UMTS-ISDN**

Item	Service	Reference	Status	Support
Configuration				
1.1	Configuration UMTS-ISDN		o	
1.2	CFB; User B is in network N2 and is provided with CFBNDUB and calling user is notified of call diversion and there is notification to forwarding subscriber and with diverted to number	EN 300 207-1 TS 124 008 TS 124 082	o.40	
1.3	CFB; User B is in network N2 and is provided with CFBNDUB and calling user is not notified of call diversion and there is no notification to forwarding subscriber and without diverted-to number		o.41	
1.4	User B is in network N2 and is provided with CFBUDUB and calling user is notified of call diversion and there is notification to forwarding subscriber and with diverted-to number		o.42	
1.5	User B is in network N2 and is provided with CFBUDUB and calling user is not notified of call diversion and there is no notification to forwarding subscriber and without diverted-to number		o.43	
o.40: It is mandatory to support at least one of these options. o.41: It is mandatory to support at least one of these options. o.42: It is mandatory to support at least one of these options. o.43: It is mandatory to support at least one of these options.				

**Table A.61: CFNR - Configuration UMTS-ISDN**

Item	Service	Reference	Status	Support
Configuration				
1.1	Configuration UMTS-ISDN		o	
1.2	CFNR; User B is in network N2 and is provided with CFNR option A (late release) and calling user is notified of call diversion and with diverted-to number	EN 300 207-1 TS 124 008 TS 124 082	o.44	
1.3	CFNR; User B is in network N2 and is provided with CFNR option A (late release) and calling user is not notified of call diversion and without diverted-to number		o.45	
o.44: It is mandatory to support at least one of these options. o.45: It is mandatory to support at least one of these options.				

### A.6.2.1 Non-symmetrical tests

**Table A.62: TP service**

Item	Service	Reference	Status	Support
ISDN				
1	Terminal portability (TP)	EN 300 055-1	c.2	
c.2: Precondition: must be a basic rate interface access.				

**Table A.63: MPTY service**

Item	Service	Reference	Status	Support
UMTS				
1	MPTY	TS 124 008 TS 124 084	o	

## A.7 UMTS-PSTN Interworking

When performing network integration testing between UMTS and PSTN users, the following tables related to the implemented interworking capabilities should be filled in.

### A.7.1 Basic call

**Table A.64: UMTS - PSTN interworking capabilities, basic call**

Item	Service	Reference	Status	Support
UMTS				
1	call establishment using information transfer speech (TS11) to a PSTN user	TS 124 008	o	
2	call establishment using the information transfer 3,1 kHz ex UMTS to a PSTN user		o	
3	call establishment using Teleservice 62 / Automatic Facsimile group 3		o	
4	call establishment using Teleservice 61 / Alternate speech and facsimile group 3		o	
5	call establishment using Emergency calls		o	

### A.7.2 UMTS-PSTN Interworking - Supplementary services

**Table A.65: CLIP service**

Item	Service	Reference	Status	Support
UMTS				
1	Basic call to a user provided with CLIP Service	TS 124 008 TS 124 081	o	
PSTN				
2	The called user is provided with CLIP	ETS 300 648	o	

**Table A.66: CLIR service**

Item	Service	Reference	Status	Support
UMTS				
1	Calling user is provided with CLIR	TS 124 008 TS 124 081	o	
PSTN				
2	The called user is provided with CLIP	ETS 300 648	o	

**Table A.67: COLP service**

Item	Service	Reference	Status	Support
UMTS				
1	COLP; Calling user is provided with COLP	TS 124 008 TS 124 081	o	
PSTN				
2	COLP	Network operator specific	o	

**Table A.68: CUG service**

Item	Service	Reference	Status	Support
UMTS				
1	CUG service	TS 124 008 TS 124 085	o	
2	CUG with outgoing access "allowed"		o.46	
3	CUG outgoing access not "allowed"		o.47	
PSTN				
4	The called user is not member of CUG	EN 300 001	o	
o.46:	It is mandatory to support at least one of these options.			
o.47:	It is mandatory to support at least one of these options.			

**Table A.69: CFU service**

Item	Service	Reference	Status	Support
1	Configuration UMTS-PSTN			
UMTS				
2	CFU; User B is in network N2 and is provided with CFU and calling user is notified of call diversion and with diverted-to number	TS 124 008 TS 124 082	o.48	
3	CFU; User B is in network N2 and is provided with CFU and calling user is not notified of call diversion and without diverted-to number		o.49	
PSTN				
4	Call forwarding unconditional (CFU)	Network operator specific	o	
Please specify configuration: (if other than A and C in Originating network, B in Destination Network)				
o.48:	It is mandatory to support at least one of these options.			
o.49:	It is mandatory to support at least one of these options.			

**Table A.70: CFB service**

Item	Service	Reference	Status	Support
1	Configuration UMTS-PSTN			
UMTS				
2	CFB; User B is in network N2 and is provided with CFB and calling user is notified of call diversion and with diverted-to number	TS 124 008 TS 124 082	o.50	
3	CFB; User B is in network N2 and is provided with CFB and calling user is not notified of call diversion and without diverted-to number		o.51	
PSTN				
4	Call forwarding busy (CFB)	Network operator specific	o	
Please specify configuration: (if other than A and C in Originating network, B in Destination Network)				
o.50:	It is mandatory to support at least one of these options.			
o.51:	It is mandatory to support at least one of these options.			

Table A.71: CFNR service

Item	Service	Reference	Status	Support
1	Configuration UMTS-PSTN			
UMTS				
2	CFNR – User B is in network N2 and is provided with CFNR and calling user is notified of call diversion and with diverted-to number	TS 124 008 TS 124 082	o.52	
3	CFNR – User B is in network N2 and is provided with CFNR and calling user is not notified of call diversion and without diverted-to number		o.53	
PSTN				
4	Call forwarding on no reply (CFNR)	Network operator specific	o	
Please specify configuration: (if other than A and C in Originating network, B in Destination Network)				
o.52: It is mandatory to support at least one of these options.				
o.53: It is mandatory to support at least one of these options.				

### A.7.2.1 Non-symmetrical tests

Table A.72: MPTY

Item	Service	Reference	Status	Support
UMTS				
1	MPTY	TS 124 008 TS 124 084	o	

## A.8 GSM-UMTS Interworking

### A.8.1 Basic call

Table A.73: Teleservice 11

Item	Service	Reference	Status	Support
GSM/UMTS				
1	TS11	EN 300 940 TS 124 008	o	

Table A.74: Information transfer 3,1 kHz audio, ex PLMN

Item	Service	Reference	Status	Support
GSM/UMTS				
1	Audio	EN 300 940 TS 124 008	o	

**Table A.75: User rates for 3,1 kHz ex PLMN GSM/UMTS**

Item	Service	Reference	Status	Support
GSM/UMTS				
1	Selection criteria: synchronous mode, BS31 MODE: synchronous USER_RATE: 1,2 kbit/s G_USER_RATE: 1,2 kbit/s	EN 300 940 TS 124 008	o	
2	Selection criteria: synchronous mode, BS32 MODE: synchronous USER_RATE: 2,4 kbit/s G_USER_RATE: 2,4 kbit/s		o	
3	Selection criteria: synchronous mode, BS33 MODE: synchronous USER_RATE: 4,8 kbit/s G_USER_RATE: 4,8 kbit/s		o	
4	Selection criteria: synchronous mode, BS34 MODE: synchronous USER_RATE: 9,6 kbit/s G_USER_RATE: 9,6 kbit/s		o	
5	Selection criteria: asynchronous mode, BS21 MODE: asynchronous USER_RATE: 0,3 kbit/s G_USER_RATE: 0,3 kbit/s		o	
6	Selection criteria: asynchronous mode, BS22 MODE: asynchronous USER_RATE: 1,2 kbit/s G_USER_RATE: 1,2 kbit/s		o	
7	Selection criteria: asynchronous mode, BS24 MODE: asynchronous USER_RATE: 2,4 kbit/s G_USER_RATE: 2,4 kbit/s		o	
8	Selection criteria: asynchronous mode, BS25 MODE: asynchronous USER_RATE: 4,8 kbit/s G_USER_RATE: 4,8 kbit/s		o	
9	Selection criteria: asynchronous mode, BS26 MODE: asynchronous USER_RATE: 9,6 kbit/s G_USER_RATE: 9,6 kbit/s		o	

**Table A.76: Information transfer unrestricted digital information**

Item	Service	Reference	Status	Support
GSM/UMTS				
1	UDI	EN 300 940 TS 124 008	o	

Table A.77: User rates for UDI - GSM/GSM

Item	Service	Reference	Status	Support
GSM/UMTS				
1	Selection criteria: synchronous mode, BS31 MODE: synchronous USER_RATE: 1,2 kbit/s G_USER_RATE: 1,2 kbit/s	TS 124 008 EN 300 940	o	
2	Selection criteria: synchronous mode, BS32 MODE: synchronous USER_RATE: 2,4 kbit/s G_USER_RATE: 2,4 kbit/s		o	
3	Selection criteria: synchronous mode, BS33 MODE: synchronous USER_RATE: 4,8 kbit/s G_USER_RATE: 4,8 kbit/s		o	
4	Selection criteria: synchronous mode, BS34 MODE: synchronous USER_RATE: 9,6 kbit/s G_USER_RATE: 9,6 kbit/s		o	
5	Selection criteria: asynchronous mode, BS21 MODE: asynchronous USER_RATE: 0,3 kbit/s G_USER_RATE: 0,3 kbit/s		o	
6	Selection criteria: asynchronous mode, BS22 MODE: asynchronous USER_RATE: 1,2 kbit/s G_USER_RATE: 1,2 kbit/s		o	
7	Selection criteria: asynchronous mode, BS24 MODE: asynchronous USER_RATE: 2,4 kbit/s G_USER_RATE: 2,4 kbit/s		o	
8	Selection criteria: asynchronous mode, BS25 MODE: asynchronous USER_RATE: 4,8 kbit/s G_USER_RATE: 4,8 kbit/s		o	
9	Selection criteria: asynchronous mode, BS26 MODE: asynchronous USER_RATE: 9,6 kbit/s G_USER_RATE: 9,6 kbit/s		o	

Table A.78: Teleservice 62/Automatic Facsimile G3

Item	Service	Reference	Status	Support
GSM/UMTS				
1	TS62	EN 300 940 TS 124 008	o	
2	With TS62 for user originated call		o	
3	TS62 for user originated call and TS11 for user terminated call		o	

Table A.79: Teleservice 61

Item	Service	Reference	Status	Support
GSM/UMTS				
1	TS61	EN 300 940 TS 124 008	o	
2	TS61 where user A and user B are in the same PLMN and user B is roaming in a VPLMN		o	
3	TS61 and single numbering scheme		o	



**Table A.80: BS61**

Item	Service	Reference	Status	Support
GSM/UMTS				
1	BS61	EN 300 940 TS 124 008	o	
2	BS61 and single numbering scheme		o	
3	BS61 where user A and user B are in the same PLMN and user B is roaming in a VPLMN		o	
4	BS61 Asynchronous and BS22		o	
5	BS61 Asynchronous and single numbering scheme and BS22		o	
6	BS61 where user A and user B are in the same PLMN and user B is roaming in a VPLMN , asynchronous mode and BS22		o	

**Table A.81: Bearer service 81/Speech followed by data**

Item	Service	Reference	Status	Support
GSM/UMTS				
1	BS81	EN 300 940 TS 124 008	o	
2	BS81 and single numbering scheme		o	
3	BS81; User A and user B are in the same PLMN and user B is roaming in a VPLMN		o	
4	BS81 Async and BS22		o	
5	BS81; User A and user B are in the same PLMN and user B is roaming in a VPLMN, asynchronous mode and BS22		o	

**Table A.82: Short message service**

Item	Service	Reference	Status	Support
GSM/UMTS				
1	Short message service	ETS 300 559 TS 124 011	o	

## A.8.2 GSM-UMTS Interworking - Supplementary services

**Table A.83: CLIP service**

Item	Service	Reference	Status	Support
GSM – Origination				
1	The calling user is provided with CLIP	EN 300 940 EN 300 951	o	
UMTS – Destination				
2	The called user is provided with CLIP	TS 124 008 TS 124 081	o	

**Table A.84: CLIR service**

Item	Service	Reference	Status	Support
GSM - Origination				
1	The calling user is provided with CLIR	EN 300 940 EN 300 951	o	
UMTS - Destination				
2	The called user is provided with CLIP	TS 124 008 TS 124 081	o	

**Table A.85: COLP service**

Item	Service	Reference	Status	Support
GSM - Origination				
1	Calling user is provided with COLP	EN 300 940 EN 300 951	o	
UMTS - Destination				
2	Connected line identification presentation (COLP)	TS 124 008 TS 124 081	o	
Please specify any national deviations, e.g. activation procedure:				

**Table A.86: COLR service**

Item	Service	Reference	Status	Support
GSM - Origination				
1	The calling user is provided with COLP	EN 300 940 EN 300 951	o	
UMTS - Destination				
2	Connected line identification restriction (COLR)	TS 124 008 TS 124 081	o	

Table A.87: CUG service

Item	Service	Reference	Status	Support
GSM/UMTS				
1	CUG supporting options are not OA, not OCB, not Pref. Calling and called user have the same CUG, and CUG supporting options of UMTS user are IA and not ICB	TS 100 569 TS 124 085	o	
2	CUG supporting options are not OA, not OCB, not Pref. Calling and called user have the same CUG, and CUG supporting options of UMTS user are not IA and not ICB		o	
3	CUG supporting options are OA, not OCB, not Pref. Calling and called user have the same CUG, and CUG supporting options of called user are IA and not ICB		o	
4	CUG supporting options are OA, not OCB, not Pref. Calling and called user have the same CUG, and CUG supporting options of called user are IA and ICB		o	
5	CUG supporting options are OA, not OCB, not Pref. Calling and called user have the same CUG, and CUG supporting options of called user are not IA and ICB		o	
6	CUG supporting options are OA, not OCB, not Pref. CUG for calling user and called user is not a CUG subscriber		o	
7	CUG supporting options are not OA, not OCB, not Pref. CUG for calling user and called user is not a CUG subscriber		o	
8	Calling user is not a CUG subscriber and CUG supporting options of called user are not IA and not ICB		o	
9	CUG supporting options are not OA, not OCB, not Pref. CUG. Calling and called user have the same CUG, and CUG supporting options of GSM user are IA and not ICB where user A and user B are in the same PLMN and user B is roaming in a VPLMN		o	
10	CUG supporting options are not OA, not OCB, not Pref. CUG. Calling and called user have the same CUG, and CUG supporting options of called user are not IA and not ICB where user A and user B are in the same PLMN and user B is roaming in a VPLMN		o	
11	CUG supporting options are OA, not OCB, not Pref. CUG. Calling and called user have the same CUG, and CUG supporting options of called user are IA and not ICB where user A and user B are in the same PLMN and user B is roaming in a VPLMN		o	
12	CUG supporting options are OA, not OCB, not Pref. CUG. Calling and called user have the same CUG, and CUG supporting options of called user are not IA and ICB where user A and user B are in the same PLMN and user B is roaming in a VPLMN		o	
13	CUG supporting options are OA, not OCB, not Pref. CUG. Calling and called user have the same CUG, and CUG supporting options of called user are IA and ICB where user A and user B are in the same PLMN and user B is roaming in a VPLMN		o	
14	CUG supporting options are not OA, not OCB, not Pref. Calling and called user have the same CUG, and CUG supporting options of GSM user are IA and not ICB where user A and user B are in the same PLMN and user B is roaming in a VPLMN		o	
15	CUG supporting options are not OA, not OCB, not Pref. CUG. User A is roaming in a VPLMN and calling and called user have the same CUG, and CUG supporting options of GSM user are IA and not ICB where user A and user B are in the same PLMN and user B is roaming in the same VPLMN as user A		o	

Item	Service	Reference	Status	Support
GSM/UMTS				
16	CUG supporting options are OA, not OCB, not Pref. CUG for calling user, user A is roaming in a VPLMN and calling and called user have the same CUG, and CUG supporting options of GSM user are IA and not ICB where user A and user B are in the same PLMN and user B is roaming in the same VPLMN as user A	TS 100 569 TS 124 085	o	
17	CUG supporting options are OA, not OCB, not Pref. CUG for calling user, user A is roaming in a VPLMN and calling and called user have the same CUG, and CUG supporting options of GSM user are not IA and ICB where user A and user B are in the same PLMN and user B is roaming in the same VPLMN as user A		o	
18	CUG supporting options are OA, not OCB, not Pref. CUG for calling user, user A is roaming in a VPLMN and calling and called user have the same CUG, and CUG supporting options of GSM user are IA and ICB where user A and user B are in the same PLMN and user B is roaming in the same VPLMN as user A		o	
19	CUG supporting options are OA, not OCB, not Pref. CUG for calling user, user A is roaming in a VPLMN and calling and called user have the same CUG, and CUG supporting options of GSM user are not IA and not ICB where user A and user B are in the same PLMN and user B is roaming in the same VPLMN as user A		o	
20	CUG supporting options are OA, not OCB, not Pref. CUG for calling user, user A is roaming in a VPLMN and called user is not a CUG subscriber where user A and user B are in the same PLMN and user B is roaming in the same VPLMN as user A		o	
21	CUG supporting options are not OA, not OCB, not Pref. CUG for calling user, user A is roaming in a VPLMN and called user is not a CUG subscriber where user A and user B are in the same PLMN and user B is roaming in the same VPLMN as user A		o	
22	Calling user is not a CUG subscriber, user A is roaming in a VPLMN and calling and called user have the same CUG, and CUG supporting options of GSM user are not IA and not ICB where user A and user B are in the same PLMN and user B is roaming in the same VPLMN as user A		o	

**Table A.88: CUG/CFU interactions**

Item	Service	Reference	Status	Support
GSM / UMTS				
1	User A belongs to CUG with supporting options not OA, not ocb, not Pref CUG, user B belongs to the same CUG with supporting options not OA, not ocb, not Pref CUG and user B is provided with CFU and has active call forwarding to C which belongs to the same CUG with supporting options not IA, not ICB	TS 100 569 EN 300 952 TS 124 085 TS 124 082	o	
2	User A belongs to CUG with supporting options not OA, not ocb, not Pref CUG, user B belongs to the same CUG with supporting options not OA, not ocb, not Pref CUG and user B is provided with CFU and has active call forwarding to C which is not a CUG subscriber		o	
3	User A belongs to CUG with supporting options not OA, not ocb, not Pref CUG, user B belongs to the same CUG with supporting options OA, not ocb, not Pref CUG and user B is provided with CFU and has active call forwarding to C which is not a CUG subscriber		o	
4	User A belongs to CUG with supporting options OA, not ocb, not Pref CUG, user B belongs to the same CUG with supporting options not OA, not ocb, not Pref CUG and user B is provided with CFU and has active call forwarding to C which is not a CUG subscriber		o	
5	User A belongs to CUG with supporting options OA, not ocb, not Pref CUG, user B belongs to the same CUG with supporting options not OA, not ocb, not Pref CUG and user B is provided with CFU and has active call forwarding to C which belongs to the same CUG		o	

**Table A.89: SUB service**

Item	Service	Reference	Status	Support
GSM / UMTS				
1	Subaddressing (SUB)	EN 300 940 TS 124 008	o	

**Table A.90: CFU service**

Item	Service	Reference	Status	Support
GSM / UMTS				
1	User A and C are in network N1 and user B is in network N2 and is provided with CFU and calling user is notified of call diversion	EN 300 940 EN 300 952 TS 124 008 TS 124 082	o	
2	User A and C are in network N1 and user B is in network N2 and is provided with CFU and calling user is not notified of call diversion		o	
Please specify configuration: (if other than A and C in Originating network, B in Destination Network)				

**Table A.91: CFB service**

Item	Service	Reference	Status	Support
GSM/UMTS				
1	User A and C are in network N1 and user B is in network N2 and is provided with CFBNDUB and calling user is notified of call diversion	EN 300 940 EN 300 952 TS 124 008 TS 124 082	o.54	
2	User A and C are in network N1 and user B is in network N2 and is provided with CFBNDUB and calling user is not notified of call diversion		o.55	
Please specify configuration: (if other than A and C in Originating network, B in Destination Network)				
o.54: It is mandatory to support at least one of these options.				
o.55: It is mandatory to support at least one of these options.				

**Table A.92: CFNRy service**

Item	Service	Reference	Status	Support
GSM/UMTS				
1	User A and C are in network N1 and user B is in network N2 and is provided with CFNRy and calling user is notified of call diversion and there is notification to forwarding subscriber	EN 300 940 EN 300 952 TS 124 008 TS 124 082	o	
2	User A and C are in network N1 and user B is in network N2 and is provided with CFNRy and calling user is not notified of call diversion and there is no notification to forwarding subscriber		o	
Please specify configuration: (if other than A and C in Originating network, B in Destination Network)				

**Table A.93: CFNRc service**

Item	Service	Reference	Status	Support
GSM/UMTS				
1	User A and C are in network N1 and user B is in network N2 and is provided with CFNRc and calling user is notified	EN 300 940 EN 300 952 TS 124 008 TS 124 082	o.56	
2	User A and C are in network N1 and user B is in network N2 and is provided with CFNRc and calling user is not notified of call diversion		o.57	
Please specify configuration: (if other than A and C in Originating network, B in Destination Network)				
o.56: It is mandatory to support at least one of these options.				
o.57: It is mandatory to support at least one of these options.				

**Table A.94: HOLD service**

Item	Service	Reference	Status	Support
GSM/UMTS				
1	Call hold (HOLD)	EN 300 940 EN 300 953 TS 124 008 TS 124 083	o	

**Table A.95: CW/CFB interactions**

Item	Service	Reference	Status	Support
GSM/UMTS				
1	User A and C are in network N1 and user B is in network N2 and is provided with CW and CFB and calling user is notified of call diversion	EN 300 940 EN 300 953 TS 124 083 TS 124 082	o.58	
2	User A and C are in network N1 and user B is in network N2 and is provided with CW and CFB and calling user is not notified of call diversion		o.59	
o.58:	It is mandatory to support at least one of these options.			
o.59:	It is mandatory to support at least one of these options.			

**Table A.96: UUS1 service**

Item	Service	Reference	Status	Support
GSM/UMTS				
1	User-user signalling (UUS) service 1 implicitly requested	EN 300 940 TS 124 087	o	

**Table A.97: MPTY**

Item	Service	Reference	Status	Support
GSM/UMTS				
1	MPTY	EN 300 954 TS 124 084	o	

**Table A.98: Call barring service**

Item	Service	Reference	Status	Support
GSM - Origination				
1	The calling user activates Barring of Outgoing international	TS 100 956	o	
UMTS - Destination				
2	The GSM supports barring of all incoming calls (BAIC).	TS 124 088	o.60	
3	The Network B supports barring of all incoming calls (BAIC) and barring of incoming calls when roaming outside the home GSM country (BIC-Roam). The MS is roaming outside the home GSM country.		o.61	
o.60:	It is mandatory to support at least one of these options.			
o.61:	It is mandatory to support at least one of these options.			

## A.9 UMTS-GSM Interworking

### A.9.1 Basic call

**Table A.99: Teleservice 11**

Item	Service	Reference	Status	Support
UMTS/GSM				
1	TS11 for user originated call	TS 124 008 EN 300 940	o	

**Table A.100: Information transfer 3,1 kHz audio, ex PLMN**

Item	Service	Reference	Status	Support
UMTS/GSM				
1	Audio	TS 124 008 EN 300 940	o	

**Table A.101: User rates for 3,1 kHz ex PLMN GSM/GSM**

Item	Service	Reference	Status	Support
UMTS/GSM				
1	Selection criteria: synchronous mode, BS31 MODE: synchronous USER_RATE: 1,2 kbit/s G_USER_RATE: 1,2 kbit/s	TS 124 008 EN 300 940	o	
2	Selection criteria: synchronous mode, BS32 MODE: synchronous USER_RATE: 2,4 kbit/s G_USER_RATE: 2,4 kbit/s		o	
3	Selection criteria: synchronous mode, BS33 MODE: synchronous USER_RATE: 4,8 kbit/s G_USER_RATE: 4,8 kbit/s		o	
4	Selection criteria: synchronous mode, BS34 MODE: synchronous USER_RATE: 9,6 kbit/s G_USER_RATE: 9,6 kbit/s		o	
5	Selection criteria: asynchronous mode, BS21 MODE: asynchronous USER_RATE: 0,3 kbit/s G_USER_RATE: 0,3 kbit/s		o	
6	Selection criteria: asynchronous mode, BS22 MODE: asynchronous USER_RATE: 1,2 kbit/s G_USER_RATE: 1,2 kbit/s		o	
7	Selection criteria: asynchronous mode, BS24 MODE: asynchronous USER_RATE: 2,4 kbit/s G_USER_RATE: 2,4 kbit/s		o	
8	Selection criteria: asynchronous mode, BS25 MODE: asynchronous USER_RATE: 4,8 kbit/s G_USER_RATE: 4,8 kbit/s		o	
9	Selection criteria: asynchronous mode, BS26 MODE: asynchronous USER_RATE: 9,6 kbit/s G_USER_RATE: 9,6 kbit/s		o	

**Table A.102: Information transfer unrestricted digital information**

Item	Service	Reference	Status	Support
UMTS/GSM				
1	UDI	EN 300 940 TS 124 008	o	



Table A.103: User rates for UDI - GSM/GSM

Item	Service	Reference	Status	Support
UMTS/GSM				
1	Selection criteria: synchronous mode, BS31 MODE: synchronous USER_RATE: 1,2 kbit/s G_USER_RATE: 1,2 kbit/s	EN 300 940 TS 124 008	o	
2	Selection criteria: synchronous mode, BS32 MODE: synchronous USER_RATE: 2,4 kbit/s G_USER_RATE: 2,4 kbit/s		o	
3	Selection criteria: synchronous mode, BS33 MODE: synchronous USER_RATE: 4,8 kbit/s G_USER_RATE: 4,8 kbit/s		o	
4	Selection criteria: synchronous mode, BS34 MODE: synchronous USER_RATE: 9,6 kbit/s G_USER_RATE: 9,6 kbit/s		o	
5	Selection criteria: asynchronous mode, BS21 MODE: asynchronous USER_RATE: 0,3 kbit/s G_USER_RATE: 0,3 kbit/s		o	
6	Selection criteria: asynchronous mode, BS22 MODE: asynchronous USER_RATE: 1,2 kbit/s G_USER_RATE: 1,2 kbit/s		o	
7	Selection criteria: asynchronous mode, BS24 MODE: asynchronous USER_RATE: 2,4 kbit/s G_USER_RATE: 2,4 kbit/s		o	
8	Selection criteria: asynchronous mode, BS25 MODE: asynchronous USER_RATE: 4,8 kbit/s G_USER_RATE: 4,8 kbit/s		o	
9	Selection criteria: asynchronous mode, BS26 MODE: asynchronous USER_RATE: 9,6 kbit/s G_USER_RATE: 9,6 kbit/s		o	

Table A.104: Teleservice 62 /Automatic Facsimile G3

Item	Service	Reference	Status	Support
UMTS/GSM				
1	TS62	EN 300 940 TS 124 008	o	
2	With TS62 for user originated call		o	
3	TS62 for user originated call and TS11 for user terminated call		o	

Table A.105: Teleservice 61

Item	Service	Reference	Status	Support
UMTS/GSM				
1	TS61	EN 300 940 TS 124 008	o	
2	TS61 where user A and user B are in the same PLMN and user B is roaming in a VPLMN		o	
3	TS61 and single numbering scheme		o	

**Table A.106: BS61**

Item	Service	Reference	Status	Support
UMTS/GSM				
1	BS61	EN 300 940 TS 124 008	o	
2	BS61 and single numbering scheme		o	
3	BS61 where user A and user B are in the same PLMN and user B is roaming in a VPLMN		o	
4	BS61 Asynchronous and BS22		o	
5	BS61 Asynchronous and single numbering scheme and BS22		o	
6	BS61 where user A and user B are in the same PLMN and user B is roaming in a VPLMN , asynchronous mode and BS22		o	

**Table A.107: Bearer service 81/Speech followed by data**

Item	Service	Reference	Status	Support
UMTS/GSM				
1	BS81	EN 300 940 TS 124 008	o	
2	BS81 and single numbering scheme		o	
3	BS81; User A and user B are in the same PLMN and user B is roaming in a VPLMN		o	
4	BS81 Async and BS22		o	
5	BS81; User A and user B are in the same PLMN and user B is roaming in a VPLMN, asynchronous mode and BS22		o	

**Table A.108: Short message service**

Item	Service	Reference	Status	Support
UMTS/GSM				
1	Short message service	ETS 300 559 TS 124 011	o	

## A.9.2 UMTS-GSM Interworking - Supplementary services

**Table A.109: CLIP service**

Item	Service	Reference	Status	Support
UMTS - Origination				
1	The calling user is provided with CLIP	TS 124 008 TS 124 081	o	
GSM - Destination				
2	The called user is provided with CLIP	EN 300 940 EN 300 952	o	

**Table A.110: CLIR service**

Item	Service	Reference	Status	Support
UMTS-Origination				
1	The calling user is provided with CLIR	TS 124 008 TS 124 081	o	
GSM-Destination				
2	The called user is provided with CLIP	EN 300 940 EN 300 952	o	

**Table A.111: COLP service**

<b>Item</b>	<b>Service</b>	<b>Reference</b>	<b>Status</b>	<b>Support</b>
UMTS - Origination				
1	Calling user is provided with COLP	TS 124 008 TS 124 081	o	
GSM - Destination				
2	Connected line identification presentation (COLP)	EN 300 940 EN 300 951	o	
Please specify any national deviations, e.g. activation procedure:				

**Table A.112: COLR service**

<b>Item</b>	<b>Service</b>	<b>Reference</b>	<b>Status</b>	<b>Support</b>
UMTS - Origination				
1	The calling user is provided with COLP	TS 124 008 TS 124 081	o	
GSM - Destination				
2	Connected line identification restriction (COLR)	EN 300 940 EN 300 951	o	

Table A.113: CUG service

Item	Service	Reference	Status	Support
UMTS/GSM				
1	CUG supporting options are not OA, not OCB, not Pref. CUG. Calling and called user have the same CUG, and CUG supporting options of GSM user are IA and not ICB	TS 100 569 TS 124 085	o	
2	CUG supporting options are not OA, not OCB, not Pref. CUG. Calling and called user have the same CUG, and CUG supporting options of GSM user are not IA and not ICB		o	
3	CUG supporting options are OA, not OCB, not Pref. CUG. Calling and called user have the same CUG, and CUG supporting options of called user are IA and not ICB		o	
4	CUG supporting options are OA, not OCB, not Pref. Calling and called user have the same CUG, and CUG supporting options of called user are IA and ICB		o	
5	CUG supporting options are OA, not OCB, not Pref. CUG. Calling and called user have the same CUG, and CUG supporting options of called user are not IA and ICB		o	
6	CUG supporting options are OA, not OCB, not Pref. CUG. CUG for calling user and called user is not a CUG subscriber		o	
7	CUG supporting options are not OA, not OCB, not Pref. CUG for calling user and called user is not a CUG subscriber		o	
8	Calling user is not a CUG subscriber and CUG supporting options of called user are not IA and not ICB		o	
9	CUG supporting options are not OA, not OCB, not Pref. CUG. CUG for calling user and calling and called user have the same CUG, and CUG supporting options of GSM user are IA and not ICB where user A and user B are in the same PLMN and user B is roaming in a VPLMN		o	
10	CUG supporting options are not OA, not OCB, not Pref. CUG. Calling and called user have the same CUG, and CUG supporting options of called user are not IA and not ICB where user A and user B are in the same PLMN and user B is roaming in a VPLMN		o	
11	CUG supporting options are OA, not OCB, not Pref. CUG. Calling and called user have the same CUG, and CUG supporting options of called user are IA and not ICB where user A and user B are in the same PLMN and user B is roaming in a VPLMN		o	
12	CUG supporting options are OA, not OCB, not Pref. CUG. Calling and called user have the same CUG, and CUG supporting options of called user are not IA and ICB where user A and user B are in the same PLMN and user B is roaming in a VPLMN		o	
13	CUG supporting options are OA, not OCB, not Pref. CUG. Calling and called user have the same CUG, and CUG supporting options of called user are IA and ICB where user A and user B are in the same PLMN and user B is roaming in a VPLMN		o	
14	CUG supporting options are not OA, not OCB, not Pref. Calling and called user have the same CUG. CUG supporting options are IA and not ICB where user A and user B are in the same PLMN and user B is roaming in a VPLMN		o	

Item	Service	Reference	Status	Support
UMTS/GSM				
15	CUG supporting options are not OA, not OCB, not Pref. CUG for calling user, user A is roaming in a VPLMN and calling and called user have the same CUG. CUG supporting options are IA and not ICB where user A and user B are in the same PLMN and user B is roaming in the same VPLMN as user A	TS 100 569 TS 124 085	o	
16	CUG supporting options are OA, not OCB, not Pref. CUG for calling user, user A is roaming in a VPLMN and calling and called user have the same CUG. CUG supporting options are IA and not ICB where user A and user B are in the same PLMN and user B is roaming in the same VPLMN as user A		o	
17	CUG supporting options are OA, not OCB, not Pref. CUG for calling user, user A is roaming in a VPLMN and calling and called user have the same CUG. CUG supporting options are not IA and ICB where user A and user B are in the same PLMN and user B is roaming in the same VPLMN as user A		o	
18	CUG supporting options are OA, not OCB, not Pref. CUG for calling user, user A is roaming in a VPLMN and calling and called user have the same CUG. CUG supporting options are IA and ICB where user A and user B are in the same PLMN and user B is roaming in the same VPLMN as user A		o	
19	CUG supporting options are OA, not OCB, not Pref. CUG for calling user, user A is roaming in a VPLMN and calling and called user have the same CUG. CUG supporting options are not IA and not ICB where user A and user B are in the same PLMN and user B is roaming in the same VPLMN as user A		o	
20	CUG supporting options are OA, not OCB, not Pref. CUG for calling user, user A is roaming in a VPLMN and called user is not a CUG subscriber where user A and user B are in the same PLMN and user B is roaming in the same VPLMN as user A		o	
21	CUG supporting options are not OA, not OCB, not Pref. CUG for calling user, user A is roaming in a VPLMN and called user is not a CUG subscriber where user A and user B are in the same PLMN and user B is roaming in the same VPLMN as user A		o	
22	Calling user is not a CUG subscriber, user A is roaming in a VPLMN and calling and called user have the same CUG. CUG supporting options are not IA and not ICB where user A and user B are in the same PLMN and user B is roaming in the same VPLMN as user A		o	

**Table A.114: CUG/CFU interactions**

Item	Service	Reference	Status	Support
UMTS/GSM				
1	User A belongs to CUG with supporting options not OA, not ocb, not Pref CUG, user B belongs to the same CUG with supporting options not OA, not ocb, not Pref CUG. User B is provided with CFU and has active call forwarding to C which belongs to the same CUG with supporting options not IA, not ICB	TS 100 569 TS 124 082	o	
2	User A belongs to CUG with supporting options not OA, not ocb, not Pref CUG, user B belongs to the same CUG with supporting options not OA, not ocb, not Pref CUG. User B is provided with CFU and has active call forwarding to C which is not a CUG subscriber		o	
3	User A belongs to CUG with supporting options not OA, not ocb, not Pref CUG, user B belongs to the same CUG with supporting options OA, not ocb, not Pref CUG and user B is provided with CFU and has active call forwarding to C which is not a CUG subscriber		o	
4	User A belongs to CUG with supporting options OA, not ocb, not Pref CUG, user B belongs to the same CUG with supporting options not OA, not ocb, not Pref CUG and user B is provided with CFU and has active call forwarding to C which is not a CUG subscriber		o	
5	User A belongs to CUG with supporting options OA, not ocb, not Pref CUG. User B belongs to the same CUG with supporting options not OA, not ocb, not Pref CUG and user B is provided with CFU and has active call forwarding to C which belongs to the same CUG		o	

**Table A.115: SUB service**

Item	Service	Reference	Status	Support
UMTS/GSM				
1	Subaddressing (SUB)	EN 300 940 TS 124 008	o	

**Table A.116: CFU service**

Item	Service	Reference	Status	Support
UMTS/GSM				
1	User A and C are in network N1 and user B is in network N2 and is provided with CFU and calling user is notified of call diversion	EN 300 940 EN 300 952 TS 124 008 TS 124 082	o	
2	User A and C are in network N1 and user B is in network N2 and is provided with CFU and calling user is not notified of call diversion		o	
Please specify configuration: (if other than A and C in Originating network, B in Destination Network)				

**Table A.117: CFB service**

Item	Service	Reference	Status	Support
UMTS/GSM				
1	User A and C are in network N1 and user B is in network N2 and is provided with CFBNDUB and calling user is notified of call diversion	EN 300 940 EN 300 952 TS 124 008 TS 124 082	o.63	
2	User A and C are in network N1 and user B is in network N2 and is provided with CFBNDUB and calling user is not notified of call diversion		o.64	
Please specify configuration: (if other than A and C in Originating network, B in Destination Network)				
o.63: It is mandatory to support at least one of these options.				
o.64: It is mandatory to support at least one of these options.				

**Table A.118: CFNRy service**

Item	Service	Reference	Status	Support
UMTS/GSM				
1	User A and C are in network N1 and user B is in network N2 and is provided with CFNRy and calling user is notified of call diversion and there is notification to forwarding subscriber	EN 300 940 EN 300 952 TS 124 008 TS 124 082	o	
2	User A and C are in network N1 and user B is in network N2 and is provided with CFNRy and calling user is not notified of call diversion and there is no notification to forwarding subscriber		o	
Please specify configuration: (if other than A and C in Originating network, B in Destination Network)				

**Table A.119: CFNRc service**

Item	Service	Reference	Status	Support
UMTS/GSM				
1	User A and C are in network N1 and user B is in network N2 and is provided with CFNRc and calling user is notified	EN 300 940 EN 300 952 TS 124 008 TS 124 082	o.65	
2	User A and C are in network N1 and user B is in network N2 and is provided with CFNRc and calling user is not notified of call diversion		o.66	
Please specify configuration: (if other than A and C in Originating network, B in Destination Network)				
o.65: It is mandatory to support at least one of these options.				
o.66: It is mandatory to support at least one of these options.				

**Table A.120: HOLD service**

Item	Service	Reference	Status	Support
UMTS/GSM				
1	Call hold (HOLD)	EN 300 940 EN 300 953 TS 124 008 TS 124 083	o	

**Table A.121: CW/CFB interactions**

Item	Service	Reference	Status	Support
UMTS/GSM				
1	User A and C are in network N1 and user B is in network N2 and is provided with CW and CFB and calling user is notified of call diversion	EN 300 940 EN 300 953 TS 124 083	o.67	
2	User A and C are in network N1 and user B is in network N2 and is provided with CW and CFB and calling user is not notified of call diversion		o.68	
o.67: It is mandatory to support at least one of these options.				
o.68: It is mandatory to support at least one of these options.				

**Table A.122: UUS1 service**

Item	Service	Reference	Status	Support
UMTS/GSM				
1	User-user signalling (UUS) service 1 implicitly requested	EN 300 940 TS 124 008	o	

**Table A.123: MPTY**

Item	Service	Reference	Status	Support
UMTS/GSM				
1	MPTY	EN 300 954 TS 124 084	o	

**Table A.124: Call barring service**

Item	Service	Reference	Status	Support
UMTS - Origination				
1	The calling user activates Barring of Outgoing international	TS 124 088	o	
GSM - Destination				
2	The GSM supports barring of all incoming calls (BAIC)	TS 100 956	o.69	
3	The Network B supports barring of all incoming calls (BAIC) and barring of incoming calls when roaming outside the home GSM country (BIC-Roam). The MS is roaming outside the home GSM country		o.70	
o.69: It is mandatory to support at least one of these options.				
o.70: It is mandatory to support at least one of these options.				

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## A.10 UMTS-UMTS Interworking

### A.10.1 Basic call

**Table A.125: Teleservice 11**

Item	Service	Reference	Status	Support
UMTS				
1	TS11 for user originated call	TS 124 008	o	



**Table A.126: Information transfer 3,1 kHz audio, ex PLMN**

Item	Service	Reference	Status	Support
UMTS				
1	Audio	TS 124 008	o	

**Table A.127: User rates for 3,1 kHz ex PLMN UMTS/UMTS**

Item	Service	Reference	Status	Support
UMTS				
1	Selection criteria: synchronous mode, BS31 MODE: synchronous USER_RATE: 1,2 kbit/s G_USER_RATE: 1,2 kbit/s	EN 300 940	o	
2	Selection criteria: synchronous mode, BS32 MODE: synchronous USER_RATE: 2,4 kbit/s G_USER_RATE: 2,4 kbit/s		o	
3	Selection criteria: synchronous mode, BS33 MODE: synchronous USER_RATE: 4,8 kbit/s G_USER_RATE: 4,8 kbit/s		o	
4	Selection criteria: synchronous mode, BS34 MODE: synchronous USER_RATE: 9,6 kbit/s G_USER_RATE: 9,6 kbit/s		o	
5	Selection criteria: asynchronous mode, BS21 MODE: asynchronous USER_RATE: 0,3 kbit/s G_USER_RATE: 0,3 kbit/s		o	
6	Selection criteria: asynchronous mode, BS22 MODE: asynchronous USER_RATE: 1,2 kbit/s G_USER_RATE: 1,2 kbit/s		o	
7	Selection criteria: asynchronous mode, BS24 MODE: asynchronous USER_RATE: 2,4 kbit/s G_USER_RATE: 2,4 kbit/s	TS 124 008	o	
8	Selection criteria: asynchronous mode, BS25 MODE: asynchronous USER_RATE: 4,8 kbit/s G_USER_RATE: 4,8 kbit/s		o	
9	Selection criteria: asynchronous mode, BS26 MODE: asynchronous USER_RATE: 9,6 kbit/s G_USER_RATE: 9,6 kbit/s		o	

**Table A.128: Information transfer unrestricted digital information**

Item	Service	Reference	Status	Support
UMTS				
1	UDI	TS 124 008	o	

**Table A.129: User rates for UDI - UMTS/UMTS**

Item	Service	Reference	Status	Support
UMTS				
1	Selection criteria: synchronous mode, BS31 MODE: synchronous USER_RATE: 1,2 kbit/s G_USER_RATE: 1,2 kbit/s	TS 124 008	o	
2	Selection criteria: synchronous mode, BS32 MODE: synchronous USER_RATE: 2,4 kbit/s G_USER_RATE: 2,4 kbit/s		o	
3	Selection criteria: synchronous mode, BS33 MODE: synchronous USER_RATE: 4,8 kbit/s G_USER_RATE: 4,8 kbit/s		o	
4	Selection criteria: synchronous mode, BS34 MODE: synchronous USER_RATE: 9,6 kbit/s G_USER_RATE: 9,6 kbit/s		o	
5	Selection criteria: asynchronous mode, BS21 MODE: asynchronous USER_RATE: 0,3 kbit/s G_USER_RATE: 0,3 kbit/s		o	
6	Selection criteria: asynchronous mode, BS22 MODE: asynchronous USER_RATE: 1,2 kbit/s G_USER_RATE: 1,2 kbit/s		o	
7	Selection criteria: asynchronous mode, BS24 MODE: asynchronous USER_RATE: 2,4 kbit/s G_USER_RATE: 2,4 kbit/s		o	
8	Selection criteria: asynchronous mode, BS25 MODE: asynchronous USER_RATE: 4,8 kbit/s G_USER_RATE: 4,8 kbit/s		o	
9	Selection criteria: asynchronous mode, BS26 MODE: asynchronous USER_RATE: 9,6 kbit/s G_USER_RATE: 9,6 kbit/s		o	

**Table A.130: Teleservice 62/Automatic Facsimile G3**

Item	Service	Reference	Status	Support
UMTS				
1	TS62	TS 124 008	o	
2	With TS62 for user originated call		o	
3	TS62 for user originated call and TS11 for user terminated call		o	

**Table A.131: Teleservice 61**

Item	Service	Reference	Status	Support
UMTS				
1	TS61	TS 124 008	o	
2	TS61 where user A and user B are in the same PLMN and user B is roaming in a VPLMN		o	
3	TS61 and single numbering scheme		o	

**Table A.132: BS61**

Item	Service	Reference	Status	Support
UMTS				
1	BS61	TS 124 008	o	
2	BS61 and single numbering scheme		o	
3	BS61 where user A and user B are in the same PLMN and user B is roaming in a VPLMN		o	
4	BS61 Asynchronous and BS22		o	
5	BS61 Asynchronous and single numbering scheme and BS22		o	
6	BS61 where user A and user B are in the same PLMN and user B is roaming in a VPLMN , asynchronous mode and BS22		o	

**Table A.133: Bearer service 81/Speech followed by data**

Item	Service	Reference	Status	Support
UMTS				
1	BS81	TS 124 008	o	
2	BS81 and single numbering scheme		o	
3	BS81; User A and user B are in the same PLMN and user B is roaming in a VPLMN		o	
4	BS81 Async and BS22		o	
5	BS81; User A and user B are in the same PLMN and user B is roaming in a VPLMN, asynchronous mode and BS22		o	

**Table A.134: Short message service**

Item	Service	Reference	Status	Support
UMTS				
1	Short message service	TS 124 011	o	

## A.10.2 UMTS-UMTS Interworking - Supplementary services

**Table A.135: CLIP service**

Item	Service	Reference	Status	Support
UMTS - Origination				
1	The calling user is provided with CLIP	TS 124 008 TS 124 081	o	
UMTS - Destination				
2	The called user is provided with CLIP	TS 124 008 TS 124 081	o	

**Table A.136: CLIR service**

Item	Service	Reference	Status	Support
UMTS-Origination				
1	The calling user is provided with CLIR	TS 124 008 TS 124 081	o	
UMTS-Destination				
2	The called user is provided with CLIP	TS 124 008 TS 124 081	o	

**Table A.137: COLP service**

Item	Service	Reference	Status	Support
UMTS - Origination				
1	Calling user is provided with COLP	TS 124 008 TS 124 081	o	
UMTS - Destination				
2	Connected line identification presentation (COLP)	TS 124 008 TS 124 081	o	
Please specify any national deviations, e.g. activation procedure:				

**Table A.138: COLR service**

Item	Service	Reference	Status	Support
UMTS - Origination				
1	The calling user is provided with COLP	TS 124 008 TS 124 081	o	
UMTS - Destination				
2	Connected line identification restriction (COLR)	TS 124 008 TS 124 081	o	

**Table A.139: CUG service**

Item	Service	Reference	Status	Support
UMTS				
1	CUG supporting options are not OA, not OCB, not Pref. CUG for UMTS user and calling and called user have the same CUG, and CUG supporting options of UMTS user are IA and not ICB	TS 124 085	o	
2	CUG supporting options are not OA, not OCB, not Pref. CUG for UMTS user and calling and called user have the same CUG, and CUG supporting options of UMTS user are not IA and not ICB		o	
3	CUG supporting options are OA, not OCB, not Pref. CUG for UMTS user and calling and called user have the same CUG, and CUG supporting options of called user are IA and not ICB		o	
4	CUG supporting options are OA, not OCB, not Pref. CUG for UMTS user and calling and called user have the same CUG, and CUG supporting options of called user are IA and ICB		o	
5	CUG supporting options are OA, not OCB, not Pref. CUG for UMTS user and calling and called user have the same CUG, and CUG supporting options of called user are not IA and ICB		o	
6	CUG supporting options are OA, not OCB, not Pref. CUG for calling user and called user is not a CUG subscriber		o	
7	CUG supporting options are not OA, not OCB, not Pref. CUG for calling user and called user is not a CUG subscriber		o	
8	Calling user is not a CUG subscriber and CUG supporting options of called user are not IA and not ICB		o	
9	CUG supporting options are not OA, not OCB, not Pref. CUG for calling user and calling and called user have the same CUG, and CUG supporting options of UMTS user are IA and not ICB where user A and user B are in the same PLMN and user B is roaming in a VPLMN		o	

Item	Service	Reference	Status	Support
UMTS				
10	CUG supporting options are not OA, not OCB, not Pref. CUG. Calling and called user have the same CUG, and CUG supporting options of called user are not IA and not ICB where user A and user B are in the same PLMN and user B is roaming in a VPLMN	TS 124 085	o	
11	CUG supporting options are OA, not OCB, not Pref. CUG for calling user. Calling and called user have the same CUG, and CUG supporting options of called user are IA and not ICB where user A and user B are in the same PLMN and user B is roaming in a VPLMN		o	
12	CUG supporting options are OA, not OCB, not Pref. CUG for calling user and calling and called user have the same CUG, and CUG supporting options of called user are not IA and ICB where user A and user B are in the same PLMN and user B is roaming in a VPLMN		o	
13	CUG supporting options are OA, not OCB, not Pref. CUG. for calling user. Calling and called user have the same CUG, and CUG supporting options of called user are IA and ICB where user A and user B are in the same PLMN and user B is roaming in a VPLMN		o	
14	CUG supporting options are not OA, not OCB, not Pref. CUG for UMTS user and calling and called user have the same CUG, and CUG supporting options of UMTS user are IA and not ICB where user A and user B are in the same PLMN and user B is roaming in a VPLMN		o	
15	CUG supporting options are not OA, not OCB, not Pref. CUG for calling user. User A is roaming in a VPLMN and calling and called user have the same CUG, and CUG supporting options of UMTS user are IA and not ICB where user A and user B are in the same PLMN and user B is roaming in the same VPLMN as user A	TS 124 085	o	
16	CUG supporting options are OA, not OCB, not Pref. CUG for calling user. User A is roaming in a VPLMN and calling and called user have the same CUG, and CUG supporting options of UMTS user are IA and not ICB where user A and user B are in the same PLMN and user B is roaming in the same VPLMN as user A		o	
17	CUG supporting options are OA, not OCB, not Pref. CUG for calling user. User A is roaming in a VPLMN and calling and called user have the same CUG, and CUG supporting options of UMTS user are not IA and ICB where user A and user B are in the same PLMN and user B is roaming in the same VPLMN as user A		o	
18	CUG supporting options are OA, not OCB, not Pref. CUG for calling user. User A is roaming in a VPLMN and calling and called user have the same CUG, and CUG supporting options of UMTS user are IA and ICB where user A and user B are in the same PLMN and user B is roaming in the same VPLMN as user A		o	
19	CUG supporting options are OA, not OCB, not Pref. CUG for calling user. User A is roaming in a VPLMN and calling and called user have the same CUG, and CUG supporting options of UMTS user are not IA and not ICB where user A and user B are in the same PLMN and user B is roaming in the same VPLMN as user A		o	
20	CUG supporting options are OA, not OCB, not Pref. CUG for calling user, user A is roaming in a VPLMN and called user is not a CUG subscriber where user A and user B are in the same PLMN and user B is roaming in the same VPLMN as user A		o	

Item	Service	Reference	Status	Support
UMTS				
21	CUG supporting options are not OA, not OCB, not Pref. CUG for calling user. User A is roaming in a VPLMN and called user is not a CUG subscriber where user A and user B are in the same PLMN and user B is roaming in the same VPLMN as user A		o	
22	Calling user is not a CUG subscriber, user A is roaming in a VPLMN and calling and called user have the same CUG, and CUG supporting options of UMTS user are not IA and not ICB where user A and user B are in the same PLMN and user B is roaming in the same VPLMN as user A		o	

Table A.140: CUG/CFU interactions

Item	Service	Reference	Status	Support
UMTS				
1	User A belongs to CUG with supporting options not OA, not ocb, not Pref CUG, user B belongs to the same CUG with supporting options not OA, not ocb, not Pref CUG and user B is provided with CFU and has active call forwarding to C which belongs to the same CUG with supporting options not IA, not ICB	TS 124 085 TS 124 082	o	
2	User A belongs to CUG with supporting options not OA, not ocb, not Pref CUG, user B belongs to the same CUG with supporting options not OA, not ocb, not Pref CUG and user B is provided with CFU and has active call forwarding to C which is not a CUG subscriber		o	
3	User A belongs to CUG with supporting options not OA, not ocb, not Pref CUG, user B belongs to the same CUG with supporting options OA, not ocb, not Pref CUG and user B is provided with CFU and has active call forwarding to C which is not a CUG subscriber		o	
4	User A belongs to CUG with supporting options OA, not ocb, not Pref CUG, user B belongs to the same CUG with supporting options not OA, not ocb, not Pref CUG and user B is provided with CFU and has active call forwarding to C which is not a CUG subscriber		o	
5	User A belongs to CUG with supporting options OA, not ocb, not Pref CUG, user B belongs to the same CUG with supporting options not OA, not ocb, not Pref CUG and user B is provided with CFU and has active call forwarding to C which belongs to the same CUG		o	

Table A.141: SUB service

Item	Service	Reference	Status	Support
UMTS				
1	Subaddressing (SUB)	TS 124 008	o	

**Table A.142: CFU service**

Item	Service	Reference	Status	Support
UMTS				
1	User A and C are in network N1 and user B is in network N2 and is provided with CFU and calling user is notified of call diversion	TS 124 008 TS 124 082	o	
2	User A and C are in network N1 and user B is in network N2 and is provided with CFU and calling user is not notified of call diversion		o	
Please specify configuration: (if other than A and C in Originating network, B in Destination Network)				

**Table A.143: CFB service**

Item	Service	Reference	Status	Support
UMTS				
1	User A and C are in network N1 and user B is in network N2 and is provided with CFBNDUB and calling user is notified of call diversion	TS 124 008 TS 124 082	o.71	
2	User A and C are in network N1 and user B is in network N2 and is provided with CFBNDUB and calling user is not notified of call diversion		o.72	
Please specify configuration: (if other than A and C in Originating network, B in Destination Network)				
o.71: It is mandatory to support at least one of these options.				
o.72: It is mandatory to support at least one of these options.				

**Table A.144: CFNRy service**

Item	Service	Reference	Status	Support
UMTS				
1	User A and C are in network N1 and user B is in network N2 and is provided with CFNRy and calling user is notified of call diversion and there is notification to forwarding subscriber	TS 124 008 TS 124 082	o	
2	User A and C are in network N1 and user B is in network N2 and is provided with CFNRy and calling user is not notified of call diversion and there is no notification to forwarding subscriber		o	
Please specify configuration: (if other than A and C in Originating network, B in Destination Network)				

**Table A.145: CFNRc service**

Item	Service	Reference	Status	Support
UMTS				
1	User A and C are in network N1 and user B is in network N2 and is provided with CFNRc and calling user is notified	TS 124 008 TS 124 082	o.73	
2	User A and C are in network N1 and user B is in network N2 and is provided with CFNRc and calling user is not notified of call diversion		o.74	
Please specify configuration: (if other than A and C in Originating network, B in Destination Network)				
o.73: It is mandatory to support at least one of these options.				
o.74: It is mandatory to support at least one of these options.				

**Table A.146: HOLD service**

Item	Service	Reference	Status	Support
UMTS				
1	Call hold (HOLD)	TS 124 008	o	

**Table A.147: CW/CFB interactions**

Item	Service	Reference	Status	Support
UMTS				
1	User A and C are in network N1 and user B is in network N2 and is provided with CW and CFB and calling user is notified of call diversion	TS 124 008 TS 124 083	o.75	
2	User A and C are in network N1 and user B is in network N2 and is provided with CW and CFB and calling user is not notified of call diversion		o.76	
o.75: It is mandatory to support at least one of these options.				
o.76: It is mandatory to support at least one of these options.				

**Table A.148: UUS1 service**

Item	Service	Reference	Status	Support
UMTS				
1	User-user signalling (UUS) service 1 implicitly requested	TS 124 008	o	

**Table A.149: MPTY**

Item	Service	Reference	Status	Support
UMTS				
1	MPTY	TS 124 084	o	



**Table A.150: Call barring service**

Item	Service	Reference	Status	Support
UMTS - Origination				
1	The calling user activates Barring of Outgoing international	TS 124 088	o	
UMTS - Destination				
2	The UMTS supports barring of all incoming calls (BAIC).	TS 124 088	o.77	
3	The Network B supports barring of all incoming calls (BAIC) and barring of incoming calls when roaming outside the home UMTS country (BIC-Roam). The MS is roaming outside the home UMTS country.		o.78	
o.77:	It is mandatory to support at least one of these options.			
o.78:	It is mandatory to support at least one of these options.			

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## Annex B (normative): Partial End-to-end PIXIT proforma

Notwithstanding the provisions of the copyright clause related to the text of the present document, ETSI grants that users of the present document may freely reproduce the PIXIT proforma in this annex so that it can be used for its intended purposes and may further publish the completed PIXIT.

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### B.1 Instructions for completing the PIXIT proforma

Before running the end-to-end test suite each participating public network operator will need to supply information concerning the allocation and availability of suitable test numbers which will be required for setting up international connections.

This annex contains a questionnaire, which shall be completed before performing the end-to-end test suite. Additional information is used by the testing personnel for selecting and for setting the correct parameters on the test equipment.

This questionnaire contains only the information required to perform the tests.

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### B.2 Identification summary

PIXIT number:

.....

Date of issue:

.....

Issued to:

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.....

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### B.3 Abstract test suite summary

Protocol specification:

ATS specification:

Abstract test method: Remote test method (see ISO/IEC 9646-2 [21])

Annex C: Machine Processable (MP) format of End-to-end ATS

The TTCN MP file corresponding to this ATS is contained in the text-only file detailed below:

MINIT- 53-CH01f.mp

Copies of this file may be obtained from your national Standards Organization (NSO).

Table B.1: IXIT Values

Item	Parameter	Value
1	P_COM_PATTERN_ISDN_UMTS Pattern for B-channel check for all ISDN UMTS testcases	
2	P_COMM_CHECK_TWICE_ISDN_UMTS Check B-channel two times for all ISDN UMTS testcases?	
3	P_COMM_CHECK_ISDN_UMTS Do B-channel checkfor all ISDN UMTS testcases?	
4	P_COM_PATTERN_PSTN_UMTS Pattern for B-channel check for all PSTN UMTS testcases	
5	P_COMM_CHECK_TWICE_PSTN_UMTS Check B-channel two times for all PSTN UMTS testcases?	
6	P_COMM_CHECK_PSTN_UMTS Do B-channel checkfor all PSTN UMTS testcases?	
7	P_COM_PATTERN_UMTS_ISDN Pattern for B-channel check for all UMTS ISDN testcases	
8	P_COMM_CHECK_TWICE_UMTS_ISDN Check B-channel two times for all UMTS ISDN testcases?	
9	P_COMM_CHECK_UMTS_ISDN Do B-channel checkfor all UMTS ISDN testcases?	
10	P_COM_PATTERN_UMTS_PSTN Pattern for B-channel check for all UMTS PSTN testcases	
11	P_COMM_CHECK_TWICE_UMTS_PSTN Check B-channel two times for all UMTS PSTN testcases?	
12	P_COMM_CHECK_UMTS_PSTN Do B-channel checkfor all UMTS PSTN testcases?	
13	P_COM_PATTERN_UMTS_UMTS Pattern for B-channel check for all UMTS UMTS testcases	
14	P_COMM_CHECK_TWICE_UMTS_UMTS Check B-channel two times for all UMTS UMTS testcases?	
15	P_COMM_CHECK_UMTS_UMTS Do B-channel check for all UMTS UMTS testcases?	
16	P_C_N1_Prefix Network N1 international prefix	

Item	Parameter	Value
17	P_G3_IMSI_A IMSI of UMTS Subscriber A	
18	P_G3_IMSI_B IMSI of UMTS Subscriber B	
19	P_G3_IMSI_C IMSI of UMTS Subscriber C	
20	P_G3_IMSI_CUG_B IMSI of CUG User B	
21	P_G3_IMSI_CUG_D IMSI of CUG User D	
22	P_G3_IMSI_D IMSI of UMTS Subscriber D	
23	P_G3_IMSI_E IMSI of UMTS Subscriber E	
24	P_G3_IMSI_MNS IMSI of UMTS subscriber with multi-numbering scheme	
25	P_G3_IMSI_SNS IMSI of UMTS subscriber with single-numbering scheme	
26	P_G3_NUM_A Number of UMTS subscriber A in HPLMN (Type of Number: unknown)	
27	P_G3_NUM_B Number of UMTS subscriber B in VPLMN (Type of Number: unknown)	
28	P_G3_NUM_C Number of UMTS subscriber C in HPLMN (Type of Number: unknown)	
29	P_G3_NUM_CUG_B UMTS called party number for speech. User B is CUG member (IA, not ICB), (Type of Number: unknown)	
30	P_G3_NUM_CUG_C UMTS called party number for speech. User C is CUG member (IA, ICB), (Type of Number: unknown)	
31	P_G3_NUM_CUG_D UMTS called party number for speech. User D is CUG member (not IA, not ICB), (Type of Number: unknown)	
32	P_G3_NUM_CUG_E UMTS called party number for speech. User E is CUG member (not IA, ICB), (Type of Number: unknown)	
33	P_G3_NUM_D Number of UMTS subscriber D in HPLMN (Type of Number: unknown)	

Item	Parameter	Value
34	P_G3_NUM_E Number of UMTS subscriber E in VPLMN (Type of Number: unknown)	
35	P_G3_NUM_INCOMPLETE UMTS called party number (valid but incomplete number)	
36	P_G3_NUM_MNS_SPEECH MSISDN for UMTS subscriber with multi-numbering scheme: Speech	
37	P_G3_NUM_MNS_TS61 MSISDN for UMTS subscriber with multi-numbering scheme: TS61	
38	P_G3_NUM_MNS_UDI_48 MSISDN for UMTS subscriber with multi-numbering scheme: UDI 4,8 kBit/s	
39	P_G3_NUM_N_C UMTS called party number User C (national)	
40	P_G3_NUM_N_D Number of UMTS subscriber D (Type of Number: national)	
41	P_G3_NUM_SNS IMSI of UMTS subscriber with single-numbering scheme	
42	P_G3_NUM_UDI_CUG_D UMTS called party number for UDI. User D is CUG member (not IA, not ICB), (Type of Number: unknown)	
43	P_G3_NUM_UNASSIGNED UMTS called party number (unassigned number)	
44	P_G3_PASSWORD UMTS Password for Supplementary Services	
45	P_G3_SMS_8BIT_CODING TRUE if 8 bit coding is used for the SMS data	
46	P_G3_SMS_NUM_A SMS calling party number	
47	P_G3_SMS_NUM_B SMS called party number	
48	P_G3_SMS_NUM_SC SMS number of the Service Center	
49	P_G3_SMS_TON_A type of number	
50	P_G3_SMS_TON_B type of number	

Item	Parameter	Value
51	P_G3_SMS_TON_SC type of number	
52	P_G3_SMS_TP_DATA short message data (hexadecimal)	
53	P_G3_TINIT Originating PTC start delay timer	
54	P_G3_TI_V_1 First) UMTS TI Value	
55	P_G3_TI_V_2 Second UMTS TI Value for multiple originating calls	
56	P_G3_TMPTY timeout value for all multiparty related durations	
57	P_ID_ASUB Network N1 ISDN access number subaddress	
58	P_ID_BNUM_I Network N2 ISDN access number (international)	
59	P_ID_BSUB Network N2 ISDN access subaddress	
60	P_ID_CR_LEN_1 ISDN 1 CR Length	
61	P_ID_CR_LEN_2 ISDN 2 CR Length	
62	P_ID_CR_LEN_3 ISDN 3 CR Length	
63	P_ID_CR_LEN_4 ISDN 4 CR Length	
64	P_ID_CR_VALUE ISDN CR Value	
65	P_ID_CUG_INDEX Closed user group number (must be the same for both networks)	
66	P_ID_CUG_INDEX_2 Closed user group number (must be the same for both networks)	
67	P_ID_NUM_A Network N1 ISDN User A access number (Type of Number: unknown)	
68	P_ID_NUM_B Network N2 ISDN User B access number (Type of Number: unknown)	
69	P_ID_NUM_C Network N1 ISDN User C access number (Type of Number: unknown)	

Item	Parameter	Value
70	P_ID_NUM_CUG_B Network N1 ISDN User B access number with CGU attributes (IA, not ICB) (international)	
71	P_ID_NUM_CUG_C Network N1 ISDN User C access number with CGU attributes (IA, ICB) (international)	
72	P_ID_NUM_CUG_D Network N1 ISDN User D access number with CGU attributes (not IA, not ICB) (international)	
73	P_ID_NUM_CUG_E Network N1 ISDN User E access number with CGU attributes (not IA, ICB) (international)	
74	P_ID_NUM_D Network N1 ISDN User D access number (international)	
75	P_ID_NUM_FPH_B Network N1 ISDN User B access number with <FREEPHONE attributes (international)	
76	P_ID_NUM_I_A Network N1 ISDN User A access (international)	
77	P_ID_NUM_I_B Network N1 ISDN User B access (international)	
78	P_ID_NUM_N_A Network N1 ISDN User A access (national)	
79	P_ID_NUM_N_B Network N1 ISDN User B access (national)	
80	P_ID_NUM_S_A Network N1 ISDN User A access number (subscriber)	
81	P_ID_NUM_S_B Network N2 ISDN User B access number (subscriber)	
82	P_ID_NUM_UNASSIGNED Network N1 ISDN number (unassigned)	
83	P_ID_T_CFG_1 ISDN 1 T configuration ?	
84	P_ID_T_CFG_2 ISDN 2 T configuration ?	
85	P_ID_T_CFG_3 ISDN 3 T configuration ?	
86	P_ID_T_CFG_4 ISDN 4 T configuration ?	
87	P_G3_Appl_Description Executing external IP Application	
88	P_G3_Appl_Parameters	

Item	Parameter	Value
89	P_P_CLI TRUE if CLI can be provided by PSTN (network N1) for calls to ISDN users	
90	P_P_COL TRUE if COL can be provided by PSTN (network N2) for calls from ISDN users	
91	P_P_FREEPHONE_B Network N2 PSTN Freephone number User B (Type of Number: unknown)	
92	P_P_NUM_A PSTN called party number A	
93	P_P_NUM_B PSTN called party number B	
94	P_P_NUM_C PSTN called party number C	
95	P_P_NUM_D PSTN called party number D	
96	P_P_NUM_UNASSIGNED PSTN called party number (unassigned number)	
97	P_T_BCHECK Duration of B-channel check procedure in seconds (the duration of the watchdog timers T_WAIT and T_WAIT_MTC is increased respectively)	
98	P_T_STOP_RINGING Time (ms) after which ringing at (analog) B side has to terminate when A clears before answer	
99	P_T_WAIT Time (min) for waiting activity on called side. (e.g. 4 min) if P_T_BCHECK is 0 or if there is no traffic channel check is to be done	
100	P_T_WAIT_MTC Time (min) for the MTC to wait for all the PTCs' verdicts MUST be longer than P_T_WAIT (e.g. 6 min)	



## B.4 Test campaign report

ATS Reference	Selected ? (Y/N)	Run ? (Y/N)	Verdict	Observations
IU_SP_01				
IU_SP_02				
IU_SP_03				
IU_SP_04				
IU_SP_05				
IU_AU_01				
IU_AU_02				
IU_AU_03				
IU_AU_04				
IU_AU_05				
IU_AU_06				
IU_AU_07				
IU_AU_08				
IU_AU_09				
IU_AU_10VA01				
IU_AU_10VA02				
IU_AU_10VA03				
IU_AU_10VA04				
IU_AU_10VA05				
IU_AU_10VA06				
IU_AU_10VA07				
IU_AU_10VA08				
IU_AU_10VA09				
IU_AU_11VA01				
IU_AU_11VA02				
IU_AU_11VA03				
IU_AU_11VA04				
IU_AU_11VA05				
IU_AU_11VA06				
IU_AU_11VA07				
IU_AU_11VA08				
IU_AU_11VA09				
IU_AU_12VA01				
IU_AU_12VA02				
IU_AU_12VA03				
IU_AU_12VA04				
IU_AU_12VA05				
IU_AU_12VA06				
IU_AU_12VA07				
IU_AU_12VA08				
IU_AU_12VA09				
IU_DU_01				
IU_DU_02				
IU_DU_03				
IU_DU_04				
IU_DU_05VA01				
IU_DU_05VA02				
IU_DU_05VA03				
IU_DU_05VA04				
IU_DU_05VA05				
IU_DU_05VA06				
IU_DU_05VA07				
IU_DU_05VA08				
IU_DU_05VA09				
IU_DU_06VA01				
IU_DU_06VA02				
IU_DU_06VA03				
IU_DU_06VA04				
IU_DU_06VA05				
IU_DU_06VA06				

ATS Reference	Selected ? (Y/N)	Run ? (Y/N)	Verdict	Observations
IU_DU_06VA07				
IU_DU_06VA08				
IU_DU_06VA09				
IU_DU_07VA01				
IU_DU_07VA02				
IU_DU_07VA03				
IU_DU_07VA04				
IU_DU_07VA05				
IU_DU_07VA06				
IU_DU_07VA07				
IU_DU_07VA08				
IU_DU_07VA09				
IU_SP_U01				
IU_SP_U02				
IU_SP_U03				
IU_SP_U04				
IU_SP_U05				
IU_SP_U06				
IU_SP_U07				
IU_SP_U08				
IU_SP_U09				
IU_SP_U10				
IU_SP_U11				
IU_AU_U01				
IU_AU_U02				
IU_AU_U03				
IU_AU_U04				
IU_AU_U05				
IU_AU_U06				
IU_AU_U07				
IU_AU_U08_SNS				
IU_AU_U09				
IU_AU_U10_SNS				
IU_AU_U11				
IU_AU_U12				
IU_AU_U13				
IU_AU_U14				
IU_AU_U15				
IU_AU_U16_SNS				
IU_DU_U01				
IU_DU_U02				
IU_DU_U03				
IU_DU_U04				
IU_DU_U05				
IU_DU_U06				
IU_DU_U07				
IU_DU_U08				
IU_DU_U09				
IU_DU_U11				
IU_DU_U12				
IU_DU_U13				
IU_DU_U14				
IU_DU_U15				
IU_DU_U16				
IU_DU_U17				
IU_DU_U18				
IU_DU_U19				
IU_DU_U20				
IU_DU_U21				
IU_DU_U22				
IU_DU_U23				
IU_DU_U24				
IU_DU_U25				

ATS Reference	Selected ? (Y/N)	Run ? (Y/N)	Verdict	Observations
IU__DU_U26				
IU__DU_U27				
IU__DU_U28				
IU__UT_U01_TA				
IU__SPSSCLIP01				
IU__SPSSCLIP02				
IU__SPSSCLIP03				
IU__SPSSCLIP04				
IU__SPSSCLIP05				
IU__SPSSCLIR01				
IU__SPSSCLIR02				
IU__SPSSCOLP01				
IU__SPSSCOLP02				
IU__SPSSCOLR01				
IU__SPSSCUG01				
IU__SPSSCUG02				
IU__SPSSCUG03				
IU__SPSSCUG04				
IU__SPSSCUG05				
IU__SPSSCUG06				
IU__SPSSCUG07				
IU__SPSSCUG08				
IU__SPSSCUG09				
IU__SPSSCUG10				
IU__SPSSCUG11				
IU__SPSSSUB01				
IU__SPSSSUB02				
IU__SPSSCFU01				
IU__SPSSCFU02				
IU__SPSSCFB01				
IU__SPSSCFB02				
IU__SPSSCFB03				
IU__SPSSCFB04				
IU__SPSSCFNRy01				
IU__SPSSCFNRy02				
IU__SPSSCFNRc01				
IU__SPSSCFNRc02				
IU__SPSSHOLD01				
IU__SPSSHOLD02				
IU__SPSSHOLD03				
IU__SPSSHOLD04				
IU__SPSSHOLD05				
IU__SPSSHOLD06				
IU__SPSSCW01				
IU__SPSSCW02				
IU__SPSSUUS1i01				
IU__SPSSUUS1i02				
IU__SPSSUUS1i03				
IU__SPSSUUS1i04				
IU__SPSSUUS1i05				
IU__SPSSUUS1i06				
IU__SPSICFU_CLI_COL01_CLI_COL				
IU__SPSICFU_CLI_COL02_CLI_COL				
IU__SPSICFU_CLI_COL03_CLI_COL				
IU__SPSICFB_CLI_COL01				
IU__SPSICFB_CLI_COL02				
IU__SPSICFB_CLI_COL03				
IU__SPSICFB_CLI_COL04				
IU__SPSICFB_CLI_COL05				
IU__SPSICFB_CLI_COL06				
IU__SPSICFNRY_CLI_COL01				
IU__SPSICFNRY_CLI_COL02				
IU__SPSICFNRY_CLI_COL03				

ATS Reference	Selected ? (Y/N)	Run ? (Y/N)	Verdict	Observations
IU_SPSICFNRc_CLI_COL01				
IU_SPSICFNRc_CLI_COL02				
IU_SPSICFNRc_CLI_COL03				
IU_SPSICFNRc_CLI_COL04				
IU_SPSICFNRc_CLI_COL05				
IU_SPSICFNRc_CLI_COL06				
IU_SPSICUG_CFU01				
IU_SPSICUG_CFU02				
IU_SPSICUG_CFU03				
IU_SPSICUG_CFU04				
IU_SPSICUG_CFU05				
IU_SPSICFB_CW01				
IU_SPSICFB_CW02				
IU_SPSICFB_CW03				
IU_SPSICFB_CW04				
IU_SPSICFB_CW05				
IU_SPSICFB_CW06				
IU_SPSNTP01				
IU_SPSNTP02				
IU_SPSSUUS1e01				
IU_SPSSUUS1e02				
IU_SPSSUUS1e03				
IU_SPSSUUS204				
IU_SPSSUUS205				
IU_SPSSUUS206				
IU_SPSSUUS307				
IU_SPSSUUS308				
IU_SPSSUUS309				
IU_SPSNCONF01				
IU_SPSNCONF02				
IU_SPSNCONF03				
IU_SPSNCONF04				
IU_SPSNCONF05				
IU_SPSNCONF06				
IU_SPSNCONF07				
IU_SPSNCONF08				
IU_SPSN3PTY01				
IU_SPSN3PTY02				
IU_SPSN3PTY03				
IU_SPSN3PTY04				
IU_SPSNECT01				
IU_SPSNECT02				
IU_SPSNECT03				
IU_SPSNECT04				
IU_SPSNCBS01				
IU_SPSNCBS02				
IU_SPSNCCBS01				
IU_SPSNCCNR01				
IU_SPSNAoC01				
IU_SPSNAoC02				
IU_SPSNMPTY01				
IU_SPSNMPTY02				
IU_SPSNMPTY03				
IU_SPSNMPTY04				
IU_UDSSCLIP01				
IU_UDSSCLIP02				
IU_UDSSCLIP03				
IU_UDSSCLIP04				
IU_UDSSCLIP05				
IU_UDSSCLIR01				
IU_UDSSCLIR02				
IU_UDSSCOLP01				
IU_UDSSCOLP02				

ATS Reference	Selected ? (Y/N)	Run ? (Y/N)	Verdict	Observations
IU_UDSSCOLR01				
IU_UDSSCUG01				
IU_UDSSCUG02				
IU_UDSSCUG03				
IU_UDSSCUG04				
IU_UDSSCUG05				
IU_UDSSCUG06				
IU_UDSSCUG07				
IU_UDSSCUG08				
IU_UDSSCUG09				
IU_UDSSCUG10				
IU_UDSSCUG11				
IU_UDSSSUB01				
IU_UDSSSUB02				
IU_UDSSCFU01				
IU_UDSSCFU02				
IU_UDSSCFB01				
IU_UDSSCFB02				
IU_UDSSCFB03				
IU_UDSSCFB04				
IU_UDSSCFNRy01				
IU_UDSSCFNRy02				
IU_UDSSCFNRc01				
IU_UDSSCFNRc02				
IU_UDSSUSS1i01				
IU_UDSSUSS1i02				
IU_UDSSUSS1i03				
IU_UDSSUSS1i04				
IU_UDSSUSS1i05				
IU_UDSSUSS1i06				
IU_UDSICFU_CLI_COL01_CLI_COL				
IU_UDSICFU_CLI_COL02_CLI_COL				
IU_UDSICFU_CLI_COL03_CLI_COL				
IU_UDSICFB_CLI_COL01				
IU_UDSICFB_CLI_COL02				
IU_UDSICFB_CLI_COL03				
IU_UDSICFB_CLI_COL04				
IU_UDSICFB_CLI_COL05				
IU_UDSICFB_CLI_COL06				
IU_UDSICFNRy_CLI_COL01				
IU_UDSICFNRy_CLI_COL02				
IU_UDSICFNRy_CLI_COL03				
IU_UDSICFNRc_CLI_COL01				
IU_UDSICFNRc_CLI_COL02				
IU_UDSICFNRc_CLI_COL03				
IU_UDSICFNRc_CLI_COL04				
IU_UDSICFNRc_CLI_COL05				
IU_UDSICFNRc_CLI_COL06				
IU_UDSICUG_CFU01				
IU_UDSICUG_CFU02				
IU_UDSICUG_CFU03				
IU_UDSICUG_CFU04				
IU_UDSICUG_CFU05				
IU_UDSSUSS1e01				
IU_UDSSUSS1e02				
IU_UDSSUSS1e03				
IU_UDSSUSS204				
IU_UDSSUSS205				
IU_UDSSUSS206				
IU_UDSSUSS307				
IU_UDSSUSS308				
IU_UDSSUSS309				
IU_UDSNCBS01				

ATS Reference	Selected ? (Y/N)	Run ? (Y/N)	Verdict	Observations
IU_UDSNCBS02				
PU_SP_01				
PU_SP_02				
PU_SP_03				
PU_SP_04				
PU_SP_U01				
PU_SP_U02				
PU_SP_U03				
PU_SP_U04				
PU_SP_U05				
PU_SP_U06				
PU_SP_U07				
PU_SP_U08				
PU_SP_U09				
PU_SP_U10				
PU_SP_U11				
PU_SPSSCLIP01				
PU_SPSSCLIR01				
PU_SPSSCUG01				
PU_SPSSCFU01				
PU_SPSSCFB01				
PU_SPSSCFB02				
PU_SPSSCFB03				
PU_SPSSCFNRy01				
PU_SPSSCFNRy02				
PU_SPSSCFNRc01				
PU_SPSNCBS01				
PU_SPSNCBS02				
PU_SPSNMPTY01				
PU_SPSNMPTY02				
PU_SPSNMPTY03				
PU_SPSNMPTY04				
PU_AUBch01				
PU_AUBch02				
PU_AUBch03				
PU_AUBch04				
PU_AUBch05				
PU_AUBch06				
UI_SP_01				
UI_SP_02				
UI_SP_03				
UI_SP_04				
UI_SP_05				
UI_SP_06				
UI_AU_01				
UI_AU_02				
UI_AU_03VA01				
UI_AU_03VA02				
UI_AU_03VA03				
UI_AU_03VA04				
UI_AU_03VA05				
UI_AU_03VA06				
UI_AU_03VA07				
UI_AU_03VA08				
UI_AU_03VA09				
UI_AU_04VA01				
UI_AU_04VA02				
UI_AU_04VA03				
UI_AU_04VA04				
UI_AU_04VA05				
UI_AU_04VA06				
UI_AU_04VA07				
UI_AU_04VA08				

ATS Reference	Selected ? (Y/N)	Run ? (Y/N)	Verdict	Observations
UI_AU_04VA09				
UI_AU_05				
UI_AU_06				
UI_DU_01				
UI_DU_02				
UI_UD_03VA01				
UI_UD_03VA02				
UI_UD_03VA03				
UI_UD_03VA04				
UI_UD_03VA05				
UI_UD_03VA06				
UI_UD_03VA07				
UI_UD_03VA08				
UI_UD_03VA09				
UI_FX_01				
UI_FX_02				
UI_FX_03				
UI_FX_04				
UI_AF_01				
UI_AF_02				
UI_AF_03				
UI_AF_04				
UI_AF_06				
UI_AF_07				
UI_AD_01IU_DATA				
UI_AD_02IU_DATA				
UI_AD_03IU_DATA				
UI_AD_04IU_DATA				
UI_FD_01IU_FB_DATA				
UI_FD_02IU_FB_DATA				
UI_FD_03				
UI_FD_04				
UI_FD_05				
UI_FD_06				
UI_EC_01				
UI_EC_02				
UI_EC_03				
UI_EC_04				
UI_EC_05				
UI_EC_12				
UI_SP_U01IU				
UI_SP_U02IU				
UI_SP_U03IU				
UI_SP_U04IU				
UI_SP_U05IU				
UI_SP_U06IU				
UI_SP_U07IU				
UI_AU_U01				
UI_AU_U02				
UI_AU_U03				
UI_AU_U04				
UI_AU_U05				
UI_AU_U06				
UI_AU_U07				
UI_UD_U01				
UI_UD_U02				
UI_UD_U03				
UI_UD_U04				
UI_UD_U05				
UI_UD_U06				
UI_UD_U07				
UI_FX_U01				
UI_FX_U02				

ATS Reference	Selected ? (Y/N)	Run ? (Y/N)	Verdict	Observations
UI_FX_U03				
UI_FX_U04				
UI_FX_U05				
UI_FX_U06				
UI_FX_U07				
UI_AF_U01				
UI_AF_U02				
UI_AF_U03				
UI_AF_U04				
UI_AF_U05				
UI_AF_U06				
UI_AF_U07				
UI_EC_U01				
UI_EC_U02				
UI_SPSSCLIP01				
UI_SPSSCLIP02				
UI_SPSSCLIR01				
UI_SPSSCLIR02				
UI_SPSSCOLP01				
UI_SPSSCOLP02				
UI_SPSSCOLR01				
UI_SPSSCUG01				
UI_SPSSCUG02				
UI_SPSSCUG03				
UI_SPSSCUG04				
UI_SPSSCUG05				
UI_SPSSCUG06				
UI_SPSSCUG07				
UI_SPSSCUG08				
UI_SPSSCUG09				
UI_SPSSCUG10				
UI_SPSSSUB01				
UI_SPSSSUB02				
UI_SPSSCFU01				
UI_SPSSCFU02				
UI_SPSSCFU03				
UI_SPSSCFU04				
UI_SPSSCFU05				
UI_SPSSCFB01				
UI_SPSSCFB02				
UI_SPSSCFB03				
UI_SPSSCFB04				
UI_SPSSCFB05				
UI_SPSSCFB06				
UI_SPSSCFB07				
UI_SPSSCFB08				
UI_SPSSCFB09				
UI_SPSSCFNR01				
UI_SPSSCFNR02				
UI_SPSSCFNR03				
UI_SPSSCFNR04				
UI_SPSSCFNR05				
UI_SPSSCFNR06				
UI_SPSSCFNR07				
UI_SPSSCFNR08				
UI_SPSSCFNR09				
UI_SPSSHOLD01				
UI_SPSSHOLD02				
UI_SPSSCW01				
UI_SPSSCW02				
UI_SPSSUUS1i01				
UI_SPSSUUS1i02				
UI_SPSSUUS1i03				



ATS Reference	Selected ? (Y/N)	Run ? (Y/N)	Verdict	Observations
UI__SPSSUUS1i04				
UI__SPSSUUS1i05				
UI__SPSSUUS1i06				
UI__SPSNTTP01				
UI__SPSNTTP02				
UI__SPSNMCID01				
UI__SPSNMCID02				
UI__SPSNMPTY01				
UI__SPSNMPTY02				
UI__SPSNMPTY03				
UI__SPSNMPTY04				
UI__SPSNMPTY05				
UI__SPSNMPTY06				
UI__SPSNMPTY07				
UI__SPSNMPTY08				
UI__SPSNMPTY09				
UI__SPSNMPTY10				
UI__SPSNMPTY11				
UI__SPSNECT01				
UI__SPSNECT02				
UI__SPSNECT03				
UI__SPSNECT04				
UI__SPSNCD01				
UI__SPSNCD02				
UI__SPSNCD03				
UI__SPSNCD04				
UI__SPSNCD05				
UI__SPSNCD06				
UI__SPSNCD07				
UI__SPSNCD08				
UI__SPSNCD09				
UI__SPSNCD10				
UI__SPSNCD11				
UI__SPSNCD12				
UI__SPSNCBS01				
UI__UDSSCLIP01				
UI__UDSSCLIP02				
UI__UDSSCLIR01				
UI__UDSSCOLP01				
UI__UDSSCOLP02				
UI__UDSSCOLR01				
UI__UDSSCUG01				
UI__UDSSCUG02				
UI__UDSSCUG03				
UI__UDSSCUG04				
UI__UDSSCUG05				
UI__UDSSCUG06				
UI__UDSSCUG07				
UI__UDSSCUG08				
UI__UDSSCUG09				
UI__UDSSCUG10				
UI__UDSSSUB01				
UI__UDSSSUB02				
UI__UDSSCFU01				
UI__UDSSCFU02				
UI__UDSSCFU03				
UI__UDSSCFU04				
UI__UDSSCFU05				
UI__UDSSCFB01				
UI__UDSSCFB02				
UI__UDSSCFB03				
UI__UDSSCFB04				
UI__UDSSCFB05				

ATS Reference	Selected ? (Y/N)	Run ? (Y/N)	Verdict	Observations
UI__UDSSCFB06				
UI__UDSSCFB07				
UI__UDSSCFB08				
UI__UDSSCFB09				
UI__UDSSCFNR01				
UI__UDSSCFNR02				
UI__UDSSCFNR03				
UI__UDSSCFNR04				
UI__UDSSCFNR05				
UI__UDSSCFNR06				
UI__UDSSCFNR07				
UI__UDSSCFNR08				
UI__UDSSCFNR09				
UI__UDSSUUS1i01				
UI__UDSSUUS1i02				
UI__UDSSUUS1i03				
UI__UDSSUUS1i04				
UI__UDSSUUS1i05				
UI__UDSSUUS1i06				
UI__UDSNCBS01				
UI__UDSNCD01				
UI__UDSNCD02				
UI__UDSNCD03				
UI__UDSNCD04				
UI__UDSNCD05				
UI__UDSNCD06				
UI__UDSNCD07				
UI__UDSNCD08				
UI__UDSNCD09				
UI__UDSNCD10				
UI__UDSNCD11				
UI__UDSNCD12				
UP__SP__01				
UP__SP__02				
UP__SP__03				
UP__SP__04				
UP__SP__05				
UP__SP__07				
UP__AU__01				
UP__AU__02				
UP__AU__03				
UP__AU__04				
UP__FX__01				
UP__FX__02				
UP__FX__03				
UP__AF__01_FAXG3				
UP__AF__02_FAXG3				
UP__AF__03_FAXG3				
UP__AF__04_FAXG3				
UP__EC__01				
UP__EC__02				
UP__EC__03				
UP__EC__04				
UP__EC__05				
UP__EC__06				
UP__EC__07				
UP__EC__08				
UP__EC__09				
UP__SP__U01				
UP__SP__U02				
UP__SP__U03				
UP__SP__U04				
UP__AU__U01				

ATS Reference	Selected ? (Y/N)	Run ? (Y/N)	Verdict	Observations
UP__AU_U02				
UP__AU_U03				
UP__AU_U04				
UP__FX_U01				
UP__FX_U02				
UP__FX_U03				
UP__FX_U04				
UP__AF_U01_FAXG3				
UP__AF_U02_FAXG3				
UP__AF_U03_FAXG3				
UP__AF_U04_FAXG3				
UP__UD_U01				
UP__EC_U01				
UP__SPSSCLIP01				
UP__SPSSCLIP02				
UP__SPSSCLIR01				
UP__SPSSCLIR02				
UP__SPSSCOLR01				
UP__SPSSCUG01				
UP__SPSSCUG02				
UP__SPSSCFU01				
UP__SPSSCFU02				
UP__SPSSCFB01				
UP__SPSSCFB02				
UP__SPSSCFNR01				
UP__SPSSCFNR02				
UP__SPSNMCID01				
UP__SPSNMCID02				
UP__SPSNMPTY01				
UP__SPSNMPTY02				
UP__SPSNMPTY03				
UP__SPSNMPTY04				
UP__SPSNMPTY05				
UP__SPSNMPTY06				
UP__SPSNMPTY07				
UP__SPSNMPTY08				
UP__SPSNMPTY09				
UP__SPSNMPTY10				
UP__SPSNMPTY11				
UP__SPSNCBS01				
UG__SP__01				
UG__SP__02				
UG__SP__03				
UG__SP__04				
UG__AU__01				
UG__AU__02				
UG__AU__03VA01				
UG__AU__03VA02				
UG__AU__03VA03				
UG__AU__03VA04				
UG__AU__03VA05				
UG__AU__03VA06				
UG__AU__03VA07				
UG__AU__03VA08				
UG__AU__03VA09				
UG__AU__04VA01				
UG__AU__04VA02				
UG__AU__04VA03				
UG__AU__04VA04				
UG__AU__04VA05				
UG__AU__04VA06				
UG__AU__04VA07				
UG__AU__04VA08				

ATS Reference	Selected ? (Y/N)	Run ? (Y/N)	Verdict	Observations
UG_AU_04VA09				
UG_UD_01				
UG_UD_02				
UG_UD_03VA01				
UG_UD_03VA02				
UG_UD_03VA03				
UG_UD_03VA04				
UG_UD_03VA05				
UG_UD_03VA06				
UG_UD_03VA07				
UG_UD_03VA08				
UG_UD_03VA09				
UG_FX_01				
UG_FX_02				
UG_FX_03				
UG_FX_04				
UG_AF_01_FAXG3				
UG_AF_02_FAXG3				
UG_AF_03_FAXG3				
UG_AF_04_FAXG3				
UG_AF_05_FAXG3				
UG_AF_06_FAXG3				
UG_AF_07_FAXG3				
UG_AF_08_FAXG3				
UG_AF_09_FAXG3				
UG_AF_10_FAXG3				
UG_AF_11_FAXG3				
UG_AF_12_FAXG3				
UG_AF_13_FAXG3				
UG_AF_14_FAXG3				
UG_AF_15_FAXG3				
UG_AF_16_FAXG3				
UG_AF_17_FAXG3				
UG_AF_18_FAXG3				
UG_AF_19_FAXG3				
UG_AF_20_FAXG3				
UG_AD_01_DATA				
UG_AD_02_DATA				
UG_AD_03_DATA				
UG_AD_04_DATA				
UG_AD_05_DATA				
UG_AD_06_DATA				
UG_AD_07_DATA				
UG_AD_08_DATA				
UG_AD_09_DATA				
UG_AD_10_DATA				
UG_AD_11_DATA				
UG_AD_12_DATA				
UG_AD_13_DATA				
UG_AD_14_DATA				
UG_AD_15_DATA				
UG_AD_16_DATA				
UG_FD_01_FB_DATA				
UG_FD_02_FB_DATA				
UG_FD_03_FB_DATA				
UG_FD_04_FB_DATA				
UG_FD_05_FB_DATA				
UG_FD_06_FB_DATA				
UG_FD_07_FB_DATA				
UG_FD_08_FB_DATA				
UG_FD_09_FB_DATA				
UG_FD_10_FB_DATA				
UG_FD_11_FB_DATA				

ATS Reference	Selected ? (Y/N)	Run ? (Y/N)	Verdict	Observations
UG_FD_12_FB_DATA				
UG_FD_13_FB_DATA				
UG_FD_14_FB_DATA				
UG_FD_15_FB_DATA				
UG_FD_16_FB_DATA				
UG_PP_01				
UG_PP_02				
UG_PP_03				
UG_PP_04				
UG_SMS_RECEIVE_DATA				
UG_SMS_SEND_DATA				
UG_SMS_SEND_SMMA				
UG_SP_U01				
UG_SP_U02				
UG_SP_U03				
UG_SP_U04				
UG_SP_U05				
UG_SP_U06				
UG_SP_U07				
UG_SP_U08				
UG_SP_U09				
UG_AU_U01				
UG_AU_U02				
UG_AU_U03				
UG_AU_U04				
UG_AU_U05				
UG_AU_U07				
UG_AU_U08				
UG_AU_U09				
UG_UD_U01				
UG_UD_U02				
UG_UD_U03				
UG_UD_U04				
UG_UD_U05				
UG_UD_U06				
UG_UD_U07				
UG_UD_U08				
UG_UD_U09				
UG_FX_U01				
UG_FX_U02				
UG_FX_U03				
UG_FX_U04				
UG_FX_U05				
UG_FX_U06				
UG_FX_U07				
UG_FX_U08				
UG_FX_U09				
UG_AF_U01_FAXG3				
UG_AF_U02_FAXG3				
UG_AF_U03_FAXG3				
UG_AF_U04_FAXG3				
UG_AF_U05_FAXG3				
UG_AF_U06_FAXG3				
UG_AF_U07_FAXG3				
UG_AF_U08_FAXG3				
UG_AF_U09_FAXG3				
UG_AF_U10_FAXG3				
UG_AF_U11_FAXG3				
UG_AF_U12_FAXG3				
UG_AF_U13_FAXG3				
UG_AF_U14_FAXG3				
UG_AF_U15_FAXG3				
UG_SPSSCLIP01				

ATS Reference	Selected ? (Y/N)	Run ? (Y/N)	Verdict	Observations
UG_SPSSCLIP02				
UG_SPSSCLIR01				
UG_SPSSCLIR02				
UG_SPSSCOLP01				
UG_SPSSCOLP02				
UG_SPSSCOLR01				
UG_SPSSCUG01				
UG_SPSSCUG02				
UG_SPSSCUG03				
UG_SPSSCUG04				
UG_SPSSCUG05				
UG_SPSSCUG06				
UG_SPSSCUG07				
UG_SPSSCUG08				
UG_SPSSCUG09				
UG_SPSSCUG10				
UG_SPSSCUG11				
UG_SPSSCUG12				
UG_SPSSCUG13				
UG_SPSSCUG14				
UG_SPSSCUG15				
UG_SPSSCUG16				
UG_SPSSCUG17				
UG_SPSSCUG18				
UG_SPSSCUG19				
UG_SPSSCUG20				
UG_SPSSCUG21				
UG_SPSSCUG22				
UG_SPSSCUG23				
UG_SPSSCUG24				
UG_SPSSCUG25				
UG_SPSSCUG26				
UG_SPSSCUG27				
UG_SPSSSUB01				
UG_SPSSSUB02				
UG_SPSSCFU01				
UG_SPSSCFU02				
UG_SPSSCFB01				
UG_SPSSCFB02				
UG_SPSSCFNRy01				
UG_SPSSCFNRy02				
UG_SPSSCFNRc01				
UG_SPSSCFNRc02				
UG_SPSSHOLD01				
UG_SPSSHOLD02				
UG_SPSSHOLD03				
UG_SPSSHOLD04				
UG_SPSSHOLD05				
UG_SPSSHOLD06				
UG_SPSSCW01				
UG_SPSSCW02				
UG_SPSSUUS1i01				
UG_SPSSUUS1i02				
UG_SPSSUUS1i03				
UG_SPSSUUS1i04				
UG_SPSSUUS1i05				
UG_SPSSUUS1i06				
UG_SPSSMPTY01				
UG_SPSSMPTY02				
UG_SPSSMPTY03				
UG_SPSSMPTY04				
UG_SPSSMPTY05				
UG_SPSSMPTY06				

ATS Reference	Selected ? (Y/N)	Run ? (Y/N)	Verdict	Observations
UG_SPSSMPTY07				
UG_SPSSMPTY08				
UG_SPSSMPTY09				
UG_SPSSMPTY10				
UG_SPSSMPTY11				
UG_SPSSCBS01				
UG_SPSSCBS02				
UG_SPSSCBS03				
UG_SPSNCUG_CFU01				
UG_SPSNCUG_CFU02				
UG_SPSNCUG_CFU03				
UG_SPSNCUG_CFU04				
UG_SPSNCUG_CFU05				
UG_SPSNCFB_CW01				
UG_SPSNCFB_CW02				
UG_UDSSCLIP01				
UG_UDSSCLIP02				
UG_UDSSCLIR01				
UG_UDSSCLIR02				
UG_UDSSCOLP01				
UG_UDSSCOLP02				
UG_UDSSCOLR01				
UG_UDSSCUG01				
UG_UDSSCUG02				
UG_UDSSCUG03				
UG_UDSSCUG04				
UG_UDSSCUG05				
UG_UDSSCUG06				
UG_UDSSCUG07				
UG_UDSSCUG08				
UG_UDSSCUG09				
UG_UDSSCUG10				
UG_UDSSCUG11				
UG_UDSSCUG12				
UG_UDSSCUG13				
UG_UDSSCUG14				
UG_UDSSCUG15				
UG_UDSSCUG16				
UG_UDSSCUG17				
UG_UDSSCUG18				
UG_UDSSCUG19				
UG_UDSSCUG20				
UG_UDSSCUG21				
UG_UDSSCUG22				
UG_UDSSCUG23				
UG_UDSSCUG24				
UG_UDSSCUG25				
UG_UDSSCUG26				
UG_UDSSCUG27				
UG_UDSSSUB01				
UG_UDSSSUB02				
UG_UDSSCFU01				
UG_UDSSCFU02				
UG_UDSSCFB01				
UG_UDSSCFB02				
UG_UDSSCFB03				
UG_UDSSCFB04				
UG_UDSSCFNRy01				
UG_UDSSCFNRy02				
UG_UDSSCFNRc01				
UG_UDSSCFNRc02				
UG_UDSSUUS1i01				
UG_UDSSUUS1i02				

ATS Reference	Selected ? (Y/N)	Run ? (Y/N)	Verdict	Observations
UG_UDSSUUS1i03				
UG_UDSSUUS1i04				
UG_UDSSUUS1i05				
UG_UDSSUUS1i06				
UG_UDSSCBS01				
UG_UDSSCBS02				
UG_UDSSCBS03				
UG_UDSNCUG_CFU01				
UG_UDSNCUG_CFU03				
UG_UDSNCUG_CFU04				
UG_UDSNCUG_CFU05				
UG_UDSNCUG_CFU06				
GU_SP_01				
GU_SP_02				
GU_SP_03				
GU_SP_04				
GU_AU_01				
GU_AU_02				
GU_AU_03VA01				
GU_AU_03VA02				
GU_AU_03VA03				
GU_AU_03VA04				
GU_AU_03VA05				
GU_AU_03VA06				
GU_AU_03VA07				
GU_AU_03VA08				
GU_AU_03VA09				
GU_AU_04VA01				
GU_AU_04VA02				
GU_AU_04VA03				
GU_AU_04VA04				
GU_AU_04VA05				
GU_AU_04VA06				
GU_AU_04VA07				
GU_AU_04VA08				
GU_AU_04VA09				
GU_UD_01				
GU_DU_02				
GU_UD_03VA01				
GU_UD_03VA02				
GU_UD_03VA03				
GU_UD_03VA04				
GU_UD_03VA05				
GU_UD_03VA06				
GU_UD_03VA07				
GU_UD_03VA08				
GU_UD_03VA09				
GU_FX_01				
GU_FX_02				
GU_FX_03				
GU_FX_04				
GU_AF_01_FAXG3				
GU_AF_02_FAXG3				
GU_AF_03_FAXG3				
GU_AF_04_FAXG3				
GU_AF_05_FAXG3				
GU_AF_06_FAXG3				
GU_AF_07_FAXG3				
GU_AF_08_FAXG3				
GU_AF_09_FAXG3				
GU_AF_10_FAXG3				
GU_AF_11_FAXG3				
GU_AF_12_FAXG3				



ATS Reference	Selected ? (Y/N)	Run ? (Y/N)	Verdict	Observations
GU_AF_13_FAXG3				
GU_AF_14_FAXG3				
GU_AF_15_FAXG3				
GU_AF_16_FAXG3				
GU_AF_17_FAXG3				
GU_AF_18_FAXG3				
GU_AF_19_FAXG3				
GU_AF_20_FAXG3				
GU_AD_01_DATA				
GU_AD_02_DATA				
GU_AD_03_DATA				
GU_AD_04_DATA				
GU_AD_05_DATA				
GU_AD_06_DATA				
GU_AD_07_DATA				
GU_AD_08_DATA				
GU_AD_09_DATA				
GU_AD_10_DATA				
GU_AD_11_DATA				
GU_AD_12_DATA				
GU_AD_13_DATA				
GU_AD_14_DATA				
GU_AD_15_DATA				
GU_AD_16_DATA				
GU_FD_01_FB_DATA				
GU_FD_02_FB_DATA				
GU_FD_03_FB_DATA				
GU_FD_04_FB_DATA				
GU_FD_05_FB_DATA				
GU_FD_06_FB_DATA				
GU_FD_07_FB_DATA				
GU_FD_08_FB_DATA				
GU_FD_09_FB_DATA				
GU_FD_10_FB_DATA				
GU_FD_11_FB_DATA				
GU_FD_12_FB_DATA				
GU_FD_13_FB_DATA				
GU_FD_14_FB_DATA				
GU_FD_15_FB_DATA				
GU_FD_16_FB_DATA				
GU_PP_01				
GU_PP_02				
GU_PP_03				
GU_PP_04				
GU_SMS_RECEIVE_DATA				
GU_SMS_SEND_DATA				
GU_SMS_SEND_SMMA				
GU_SP_U01				
GU_SP_U02				
GU_SP_U03				
GU_SP_U04				
GU_SP_U05				
GU_SP_U06				
GU_SP_U07				
GU_SP_U08				
GU_SP_U09				
GU_AU_U01				
GU_AU_U02				
GU_AU_U03				
GU_AU_U04				
GU_AU_U05				
GU_AU_U07				
GU_AU_U08				

ATS Reference	Selected ? (Y/N)	Run ? (Y/N)	Verdict	Observations
GU__AU_U09				
GU__UD_U01				
GU__UD_U02				
GU__UD_U03				
GU__UD_U04				
GU__UD_U05				
GU__UD_U06				
GU__UD_U07				
GU__UD_U08				
GU__UD_U09				
GU__FX_U01				
GU__FX_U02				
GU__FX_U03				
GU__FX_U04				
GU__FX_U05				
GU__FX_U06				
GU__FX_U07				
GU__FX_U08				
GU__FX_U09				
GU__AF_U01_FAXG3				
GU__AF_U02_FAXG3				
GU__AF_U03_FAXG3				
GU__AF_U04_FAXG3				
GU__AF_U05_FAXG3				
GU__AF_U06_FAXG3				
GU__AF_U07_FAXG3				
GU__AF_U08_FAXG3				
GU__AF_U09_FAXG3				
GU__AF_U10_FAXG3				
GU__AF_U11_FAXG3				
GU__AF_U12_FAXG3				
GU__AF_U13_FAXG3				
GU__AF_U14_FAXG3				
GU__AF_U15_FAXG3				
GU__SPSSCLIP01				
GU__SPSSCLIP02				
GU__SPSSCLIR01				
GU__SPSSCLIR02				
GU__SPSSCOLP01				
GU__SPSSCOLP02				
GU__SPSSCOLR01				
GU__SPSSCUG01				
GU__SPSSCUG02				
GU__SPSSCUG03				
GU__SPSSCUG04				
GU__SPSSCUG05				
GU__SPSSCUG06				
GU__SPSSCUG07				
GU__SPSSCUG08				
GU__SPSSCUG09				
GU__SPSSCUG10				
GU__SPSSCUG11				
GU__SPSSCUG12				
GU__SPSSCUG13				
GU__SPSSCUG14				
GU__SPSSCUG15				
GU__SPSSCUG16				
GU__SPSSCUG17				
GU__SPSSCUG18				
GU__SPSSCUG19				
GU__SPSSCUG20				
GU__SPSSCUG21				
GU__SPSSCUG22				

ATS Reference	Selected ? (Y/N)	Run ? (Y/N)	Verdict	Observations
GU__SPSSCUG23				
GU__SPSSCUG24				
GU__SPSSCUG25				
GU__SPSSCUG26				
GU__SPSSCUG27				
GU__SPSSSUB01				
GU__SPSSSUB02				
GU__SPSSCFU01				
GU__SPSSCFU02				
GU__SPSSCFB01				
GU__SPSSCFB02				
GU__SPSSCFNRy01				
GU__SPSSCFNRy02				
GU__SPSSCFNRc01				
GU__SPSSCFNRc02				
GU__SPSSHOLD01				
GU__SPSSHOLD02				
GU__SPSSHOLD03				
GU__SPSSHOLD04				
GU__SPSSHOLD05				
GU__SPSSHOLD06				
GU__SPSSCW01				
GU__SPSSCW02				
GU__SPSSUUS1i01				
GU__SPSSUUS1i02				
GU__SPSSUUS1i03				
GU__SPSSUUS1i04				
GU__SPSSUUS1i05				
GU__SPSSUUS1i06				
GU__SPSSMPTY01				
GU__SPSSMPTY02				
GU__SPSSMPTY03				
GU__SPSSMPTY04				
GU__SPSSMPTY05				
GU__SPSSMPTY06				
GU__SPSSMPTY07				
GU__SPSSMPTY08				
GU__SPSSMPTY09				
GU__SPSSMPTY10				
GU__SPSSMPTY11				
GU__SPSSCBS01				
GU__SPSSCBS02				
GU__SPSSCBS03				
GU__SPSNCUG_CFU01				
GU__SPSNCUG_CFU02				
GU__SPSNCUG_CFU03				
GU__SPSNCUG_CFU04				
GU__SPSNCUG_CFU05				
GU__SPSNCFB_CW01				
GU__SPSNCFB_CW02				
GU__UDSSCLIP01				
GU__UDSSCLIP02				
GU__UDSSCLIR01				
GU__UDSSCLIR02				
GU__UDSSCOLP01				
GU__UDSSCOLP02				
GU__UDSSCOLR01				
GU__UDSSCUG01				
GU__UDSSCUG02				
GU__UDSSCUG03				
GU__UDSSCUG04				
GU__UDSSCUG05				
GU__UDSSCUG06				

ATS Reference	Selected ? (Y/N)	Run ? (Y/N)	Verdict	Observations
GU_UDSSCUG07				
GU_UDSSCUG08				
GU_UDSSCUG09				
GU_UDSSCUG10				
GU_UDSSCUG11				
GU_UDSSCUG12				
GU_UDSSCUG13				
GU_UDSSCUG14				
GU_UDSSCUG15				
GU_UDSSCUG16				
GU_UDSSCUG17				
GU_UDSSCUG18				
GU_UDSSCUG19				
GU_UDSSCUG20				
GU_UDSSCUG21				
GU_UDSSCUG22				
GU_UDSSCUG23				
GU_UDSSCUG24				
GU_UDSSCUG25				
GU_UDSSCUG26				
GU_UDSSCUG27				
GU_UDSSSUB01				
GU_UDSSSUB02				
GU_UDSSCFU01				
GU_UDSSCFU02				
GU_UDSSCFB01				
GU_UDSSCFB02				
GU_UDSSCFB03				
GU_UDSSCFB04				
GU_UDSSCFNRy01				
GU_UDSSCFNRy02				
GU_UDSSCFNRc01				
GU_UDSSCFNRc02				
GU_UDSSUUS1i01				
GU_UDSSUUS1i02				
GU_UDSSUUS1i03				
GU_UDSSUUS1i04				
GU_UDSSUUS1i05				
GU_UDSSUUS1i06				
GU_UDSSCBS01				
GU_UDSSCBS02				
GU_UDSSCBS03				
GU_UDSNCUG_CFU01				
GU_UDSNCUG_CFU03				
GU_UDSNCUG_CFU04				
GU_UDSNCUG_CFU05				
GU_UDSNCUG_CFU06				
UU_SP_01				
UU_SP_02				
UU_SP_03				
UU_SP_04				
UU_AU_01				
UU_AU_02				
UU_AU_03VA01				
UU_AU_03VA02				
UU_AU_03VA03				
UU_AU_03VA04				
UU_AU_03VA05				
UU_AU_03VA06				
UU_AU_03VA07				
UU_AU_03VA08				
UU_AU_03VA09				
UU_AU_04VA01				

ATS Reference	Selected ? (Y/N)	Run ? (Y/N)	Verdict	Observations
UU_AU_04VA02				
UU_AU_04VA03				
UU_AU_04VA04				
UU_AU_04VA05				
UU_AU_04VA06				
UU_AU_04VA07				
UU_AU_04VA08				
UU_AU_04VA09				
UU_UD_01				
UU_UD_02				
UU_UD_03VA01				
UU_UD_03VA02				
UU_UD_03VA03				
UU_UD_03VA04				
UU_UD_03VA05				
UU_UD_03VA06				
UU_UD_03VA07				
UU_UD_03VA08				
UU_UD_03VA09				
UU_FX_01				
UU_FX_02				
UU_FX_03				
UU_FX_04				
UU_AF_01_FAXG3				
UU_AF_02_FAXG3				
UU_AF_03_FAXG3				
UU_AF_04_FAXG3				
UU_AF_05_FAXG3				
UU_AF_06_FAXG3				
UU_AF_07_FAXG3				
UU_AF_08_FAXG3				
UU_AF_09_FAXG3				
UU_AF_10_FAXG3				
UU_AF_11_FAXG3				
UU_AF_12_FAXG3				
UU_AF_13_FAXG3				
UU_AF_14_FAXG3				
UU_AF_15_FAXG3				
UU_AF_16_FAXG3				
UU_AF_17_FAXG3				
UU_AF_18_FAXG3				
UU_AF_19_FAXG3				
UU_AF_20_FAXG3				
UU_AD_01_DATA				
UU_AD_02_DATA				
UU_AD_03_DATA				
UU_AD_04_DATA				
UU_AD_05_DATA				
UU_AD_06_DATA				
UU_AD_07_DATA				
UU_AD_08_DATA				
UU_AD_09_DATA				
UU_AD_10_DATA				
UU_AD_11_DATA				
UU_AD_12_DATA				
UU_AD_13_DATA				
UU_AD_14_DATA				
UU_AD_15_DATA				
UU_AD_16_DATA				
UU_FD_01_FB_DATA				
UU_FD_02_FB_DATA				
UU_FD_03_FB_DATA				
UU_FD_04_FB_DATA				

ATS Reference	Selected ? (Y/N)	Run ? (Y/N)	Verdict	Observations
UU_FD_05_FB_DATA				
UU_FD_06_FB_DATA				
UU_FD_07_FB_DATA				
UU_FD_08_FB_DATA				
UU_FD_09_FB_DATA				
UU_FD_10_FB_DATA				
UU_FD_11_FB_DATA				
UU_FD_12_FB_DATA				
UU_FD_13_FB_DATA				
UU_FD_14_FB_DATA				
UU_FD_15_FB_DATA				
UU_FD_16_FB_DATA				
UU_PP_01				
UU_PP_02				
UU_PP_03				
UU_PP_04				
UU_SMS_RECEIVE_DATA				
UU_SMS_SEND_DATA				
UU_SMS_SEND_SMMA				
UU_SP_U01				
UU_SP_U02				
UU_SP_U03				
UU_SP_U04				
UU_SP_U05				
UU_SP_U06				
UU_SP_U07				
UU_SP_U08				
UU_SP_U09				
UU_AU_U01				
UU_AU_U02				
UU_AU_U03				
UU_AU_U04				
UU_AU_U05				
UU_AU_U07				
UU_AU_U08				
UU_AU_U09				
UU_UD_U01				
UU_UD_U02				
UU_UD_U03				
UU_UD_U04				
UU_UD_U05				
UU_UD_U06				
UU_UD_U07				
UU_UD_U08				
UU_UD_U09				
UU_FX_U01				
UU_FX_U02				
UU_FX_U03				
UU_FX_U04				
UU_FX_U05				
UU_FX_U06				
UU_FX_U07				
UU_FX_U08				
UU_FX_U09				
UU_AF_U01_FAXG3				
UU_AF_U02_FAXG3				
UU_AF_U03_FAXG3				
UU_AF_U04_FAXG3				
UU_AF_U05_FAXG3				
UU_AF_U06_FAXG3				
UU_AF_U07_FAXG3				
UU_AF_U08_FAXG3				
UU_AF_U09_FAXG3				

ATS Reference	Selected ? (Y/N)	Run ? (Y/N)	Verdict	Observations
UU__AF_U10_FAXG3				
UU__AF_U11_FAXG3				
UU__AF_U12_FAXG3				
UU__AF_U13_FAXG3				
UU__AF_U14_FAXG3				
UU__AF_U15_FAXG3				
UU__SPSSCLIP01				
UU__SPSSCLIP02				
UU__SPSSCLIR01				
UU__SPSSCLIR02				
UU__SPSSCOLP01				
UU__SPSSCOLP02				
UU__SPSSCOLR01				
UU__SPSSCUG01				
UU__SPSSCUG02				
UU__SPSSCUG03				
UU__SPSSCUG04				
UU__SPSSCUG05				
UU__SPSSCUG06				
UU__SPSSCUG07				
UU__SPSSCUG08				
UU__SPSSCUG09				
UU__SPSSCUG10				
UU__SPSSCUG11				
UU__SPSSCUG12				
UU__SPSSCUG13				
UU__SPSSCUG14				
UU__SPSSCUG15				
UU__SPSSCUG16				
UU__SPSSCUG17				
UU__SPSSCUG18				
UU__SPSSCUG19				
UU__SPSSCUG20				
UU__SPSSCUG21				
UU__SPSSCUG22				
UU__SPSSCUG23				
UU__SPSSCUG24				
UU__SPSSCUG25				
UU__SPSSCUG26				
UU__SPSSCUG27				
UU__SPSSSUB01				
UU__SPSSSUB02				
UU__SPSSCFU01				
UU__SPSSCFU02				
UU__SPSSCFB01				
UU__SPSSCFB02				
UU__SPSSCFNRy01				
UU__SPSSCFNRy02				
UU__SPSSCFNRc01				
UU__SPSSCFNRc02				
UU__SPSSHOLD01				
UU__SPSSHOLD02				
UU__SPSSHOLD03				
UU__SPSSHOLD04				
UU__SPSSHOLD05				
UU__SPSSHOLD06				
UU__SPSSCW01				
UU__SPSSCW02				
UU__SPSSUUS1i01				
UU__SPSSUUS1i02				
UU__SPSSUUS1i03				
UU__SPSSUUS1i04				
UU__SPSSUUS1i05				

ATS Reference	Selected ? (Y/N)	Run ? (Y/N)	Verdict	Observations
UU__SPSSUUS1i06				
UU__SPSSMPTY01				
UU__SPSSMPTY02				
UU__SPSSMPTY03				
UU__SPSSMPTY04				
UU__SPSSMPTY05				
UU__SPSSMPTY06				
UU__SPSSMPTY07				
UU__SPSSMPTY08				
UU__SPSSMPTY09				
UU__SPSSMPTY10				
UU__SPSSMPTY11				
UU__SPSSCBS01				
UU__SPSSCBS02				
UU__SPSSCBS03				
UU__SPSNCUG_CFU01				
UU__SPSNCUG_CFU02				
UU__SPSNCUG_CFU03				
UU__SPSNCUG_CFU04				
UU__SPSNCUG_CFU05				
UU__SPSNCFB_CW01				
UU__SPSNCFB_CW02				
UU__UDSSCLIP01				
UU__UDSSCLIP02				
UU__UDSSCLIR01				
UU__UDSSCLIR02				
UU__UDSSCOLP01				
UU__UDSSCOLP02				
UU__UDSSCOLR01				
UU__UDSSCUG01				
UU__UDSSCUG02				
UU__UDSSCUG03				
UU__UDSSCUG04				
UU__UDSSCUG05				
UU__UDSSCUG06				
UU__UDSSCUG07				
UU__UDSSCUG08				
UU__UDSSCUG09				
UU__UDSSCUG10				
UU__UDSSCUG11				
UU__UDSSCUG12				
UU__UDSSCUG13				
UU__UDSSCUG14				
UU__UDSSCUG15				
UU__UDSSCUG16				
UU__UDSSCUG17				
UU__UDSSCUG18				
UU__UDSSCUG19				
UU__UDSSCUG20				
UU__UDSSCUG21				
UU__UDSSCUG22				
UU__UDSSCUG23				
UU__UDSSCUG24				
UU__UDSSCUG25				
UU__UDSSCUG26				
UU__UDSSCUG27				
UU__UDSSSUB01				
UU__UDSSSUB02				
UU__UDSSCFU01				
UU__UDSSCFU02				
UU__UDSSCFB01				
UU__UDSSCFB02				
UU__UDSSCFB03				



ATS Reference	Selected ? (Y/N)	Run ? (Y/N)	Verdict	Observations
UU__UDSSCFB04				
UU__UDSSCFNRy01				
UU__UDSSCFNRy02				
UU__UDSSCFNRc01				
UU__UDSSCFNRc02				
UU__UDSSUUS1i01				
UU__UDSSUUS1i02				
UU__UDSSUUS1i03				
UU__UDSSUUS1i04				
UU__UDSSUUS1i05				
UU__UDSSUUS1i06				
UU__UDSSCBS01				
UU__UDSSCBS02				
UU__UDSSCBS03				
UU__UDSNCUG_CFU01				
UU__UDSNCUG_CFU03				
UU__UDSNCUG_CFU04				
UU__UDSNCUG_CFU05				
UU__UDSNCUG_CFU06				

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## Annex C (normative): Abstract Test Suite (ATS)

This ATS has been produced using the Tree and Tabular Combined Notation (TTCN) according to ISO/IEC 9646-3 [22].

The ATS was developed on a separate TTCN software tool and therefore the TTCN tables are not completely referenced in the table of contents. The ATS itself contains a test suite overview part which provides additional information and references.

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### C.1 The TTCN Graphical form (TTCN.GR)

The TTCN.GR representation of this ATS is contained in an Adobe Portable Document Format™ file (MINIT-53-CHO2b\_UMTS.PDF contained in archive ts\_10211002v010101p0.zip) which accompanies the present document.

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### C.2 The TTCN Machine Processable form (TTCN.MP)

The TTCN.MP representation corresponding to this ATS is contained in an ASCII file (MINIT-53-CHO2b\_UMTS.MP contained in archive ts\_10211002v010101p0.zip) which accompanies the present document.

**NOTE:** Where an ETSI Abstract Test Suite (in TTCN) is published in both .GR and .MP format these two forms shall be considered equivalent. In the event that there appears to be syntactical or semantic differences between the two then the problem shall be resolved and the erroneous format (whichever it is) shall be corrected.

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## Annex D (informative): Bibliography

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- ETSI EN 300 061-1: "Integrated Services Digital Network (ISDN); Subaddressing (SUB) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- ETSI EN 300 210-1: "Integrated Services Digital Network (ISDN); Freephone (FPH) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- ETSI EN 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".
- ETSI EN 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".
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- ETSI 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".
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- ETSI TS 100 518: "Digital cellular telecommunications system (Phase 2+) (GSM); Closed User Group (CUG) Supplementary Services - Stage 1 (GSM 02.85 Release 1998)".
- ETSI TS 100 520: "Digital cellular telecommunications system (Phase 2+) (GSM); Call Barring (CB) Supplementary Services - Stage 1 (GSM 02.88 Release 1998)".
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- ETSI TS 100 524: "Digital cellular telecommunications system (Phase 2+) (GSM); Signalling requirements relating to routing of calls to mobile subscribers (GSM 03.04 Release 1997)".
- ETSI EN 300 928: "Digital cellular telecommunications system (Phase 2+) (GSM); Technical realization of Supplementary Services (GSM 03.11 Release 1998)".
- ETSI TS 100 543: "Digital cellular telecommunications system (Phase 2+) (GSM); Call Forwarding (CF) supplementary services; Stage 2 (GSM 03.82 Release 1998)".
- ETSI TS 100 544: "Digital cellular telecommunications system (Phase 2+) (GSM); Call Waiting (CW) and Call Hold (HOLD) supplementary services; Stage 2 (GSM 03.83 Release 1998)".
- ETSI TS 100 546: "Digital cellular telecommunications system (Phase 2+) (GSM); Closed User Group (CUG) supplementary services - Stage 2; (GSM 03.85 Release 1998)".
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ETSI TS 100 974: "Digital cellular telecommunications system (Phase 2+); Mobile Application Part (MAP) Specification (3GPP TS 09.02 Release 1998)".

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ETSI TS 122 084 (V3.0.1): "Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); MultiParty (MPY) Supplementary Services - Stage 1 (3G TS 22.084 version 3.0.1 Release 1999)".

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ETSI TS 123 088 (V3.0.0): "Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); Call Barring (CB) Supplementary Services - Stage 2 (3G TS 23.088 version 3.0.0 Release 1999)".

ETSI TS 123 091 (V3.1.0): "Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); Explicit Call Transfer (ECT) supplementary service - Stage 2 (3G TS 23.091 version 3.1.0 Release 1999)".

ETSI TS 123 093 (V3.1.0): "Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); Technical realization of Completion of Calls to Busy Subscriber (CCBS) - Stage 2 (3G TS 23.093 version 3.1.0 Release 1999)".

ETSI TS 124 007 (V3.2.0): "Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); Mobile radio interface signalling layer 3 (3G TS 24.007 version 3.2.0 Release 1999)".

ETSI TS 124 010 (V3.0.0): "Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); Mobile radio interface layer 3 Supplementary services specification; General aspects (3G TS 24.010 version 3.0.0 Release 1999)".

ETSI TS 124 012 (V3.0.0): "Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); Short Message Service Cell Broadcast (SMSCB) support on the mobile radio interface (3G TS 24.012 version 3.0.0 Release 1999)".

ETSI TS 124 065 (V3.1.0): "Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); General Packet Radio Service (GPRS); Mobile Station (MS) - Serving GPRS Support Node (SGSN); Subnetwork Dependent Convergence Protocol (SNDTCP) (3G TS 24.065 version 3.1.0 Release 1999)".

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ETSI TS 124 090 (V3.0.0): "Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); Unstructured Supplementary Service Data (USSD) - Stage 3 (3G TS 24.090 version 3.0.0 Release 1999)".

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ITU-T Recommendation F.182: "Operational provisions for the international public facsimile service between subscribers with Group 3 facsimile terminals (Telefax 3)".



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## History

<b>Document history</b>		
V1.1.1	March 2003	Publication