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**Integrated Services Digital Network (ISDN);
Signalling System No.7;
ISDN User Part (ISUP) version 2 for the International interface;
Part 35: Test Suite Structure and Test Purposes (TSS&TP)
specification for supplementary services**

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Foreword

This final draft European Telecommunication Standard (ETS) has been produced by the Signalling Protocols and Switching (SPS) Technical Committee of the European Telecommunications Standards Institute (ETSI), and is now submitted for the Voting phase of the ETSI standards approval procedure

This ETS is part 35 of a multi-part standard covering the ISDN User Part (ISUP) version 2 for the international interface, as described below:

- Part 1: "Basic services";
- Part 2: "ISDN supplementary services";
- Part 3: "Calling Line Identification Presentation (CLIP) supplementary service";
- Part 4: "Calling Line Identification Restriction (CLIR) supplementary service";
- Part 5: "Connected Line Identification Presentation (COLP) supplementary service";
- Part 6: "Connected Line Identification Restriction (COLR) supplementary service";
- Part 7: "Terminal Portability (TP) supplementary service";
- Part 8: "User-to-User Signalling (UUS) supplementary service";
- Part 9: "Closed User Group (CUG) supplementary service";
- Part 10: "Subaddressing (SUB) supplementary service";
- Part 11: "Malicious Call Identification (MCID) supplementary service";
- Part 12: "Conference call, add-on (CONF) supplementary service";
- Part 14: "Explicit Call Transfer (ECT) supplementary service";
- Part 15: "Diversion supplementary services";
- Part 16: "Call Hold (HOLD) supplementary service";
- Part 17: "Call Waiting (CW) supplementary service";
- Part 18: "Completion of Calls to Busy Subscriber (CCBS) supplementary service";
- Part 19: "Three party (3PTY) supplementary service";
- Part 31: "Protocol Implementation Conformance Statement (PICS) proforma specification for basic services";
- Part 32: "Test Suite Structure and Test Purposes (TSS&TP) specification for basic services";
- Part 33: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification for basic services";
- Part 34: "PICS proforma specification for supplementary services";
- Part 35: "TSS&TP specification for supplementary services";**
- Part 36: "ATS and partial PIXIT proforma specification for supplementary services".

NOTE: Part 13 has been withdrawn.

| Proposed transposition dates | |
|---|---------------------------------|
| Date of latest announcement of this ETS (doa): | 3 months after ETSI publication |
| Date of latest publication of new National Standard or endorsement of this ETS (dop/e): | 6 months after doa |
| Date of withdrawal of any conflicting National Standard (dow): | 6 months after doa |

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1 Scope

This thirty-fifth part of ETS 300 356 provides the Test Suite Structure and Test Purposes (TSS&TP) for the ISDN User Part (ISUP) version 2 supplementary services defined in ETS 300 356-2 [2] to ETS 300 356-19 [18] in compliance with the relevant requirements and in accordance with the relevant guidance given in ISO/IEC 9646-1 [22].

2 Normative references

This ETS incorporates by dated and undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this ETS only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

An ETS is referenced where it (partly) overrides the corresponding ITU-T Recommendation or where a corresponding ITU-T Recommendation does not exist (yet). For convenience, the respective section of an ITU-T Recommendation is referenced when it is not overridden by a corresponding ETS.

- [1] ETS 300 356-1 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 1: Basic services [ITU-T Recommendations Q.761 to Q.764 (1993), modified]".
- [2] ETS 300 356-2 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 2: ISDN supplementary services [ITU-T Recommendation Q.730 (1993), modified]".
- [3] ETS 300 356-3 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 3: Calling Line Identification Presentation (CLIP) supplementary service [ITU-T Recommendation Q.731, clause 3 (1993), modified]".
- [4] ETS 300 356-4 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 4: Calling Line Identification Restriction (CLIR) supplementary service [ITU-T Recommendation Q.731, clause 4 (1993), modified]".
- [5] ETS 300 356-5 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 5: Connected Line Identification Presentation (COLP) supplementary service [ITU-T Recommendation Q.731, clause 5 (1993), modified]".
- [6] ETS 300 356-6 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 6: Connected Line Identification Restriction (COLR) supplementary service [ITU-T Recommendation Q.731, clause 6 (1993), modified]".
- [7] ETS 300 356-7 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 7: Terminal Portability (TP) supplementary service [ITU-T Recommendation Q.733, clause 4 (1993), modified]".
- [8] ETS 300 356-8 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 8: User-to-User Signalling (UUS) supplementary service [ITU-T Recommendation Q.737, clause 1 (1993), modified]".

- [9] ETS 300 356-9 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 9: Closed User Group (CUG) supplementary service [ITU-T Recommendation Q.735, clause 1 (1993), modified]".
- [10] ETS 300 356-10 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 10: Subaddressing (SUB) supplementary service [CCITT Recommendation Q.731, section 8 (1992), modified]".
- [11] ETS 300 356-11 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 11: Malicious Call Identification (MCID) supplementary service".
- [12] ETS 300 356-12 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 12: Conference call, add-on (CONF) supplementary service [ITU-T Recommendation Q.734, clause 1 (1993), modified]".
- [13] ETS 300 356-14 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 14: Explicit Call Transfer (ECT) supplementary service".
- [14] ETS 300 356-15 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 15: Diversion supplementary services [ITU-T Recommendation Q.732, clauses 2 to 5 (1993), modified]".
- [15] ETS 300 356-16 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 16: Call Hold (HOLD) supplementary service [ITU-T Recommendation Q.733, clause 2 (1993), modified]".
- [16] ETS 300 356-17 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 17: Call Waiting (CW) supplementary service [CCITT Recommendation Q.733, section 1 (1992), modified]".
- [17] ETS 300 356-18 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 18: Completion of Calls to Busy Subscriber (CCBS) supplementary service".
- [18] ETS 300 356-19 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 19: Three party (3PTY) supplementary service [ITU-T Recommendation Q.734, clause 2 (1993), modified]".
- [19] ETS 300 356-31 (1997): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 31: Protocol Implementation Conformance Statement (PICS) proforma specification for basic services".
- [20] ETS 300 356-34: "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 31: Protocol Implementation Conformance Statement (PICS) proforma specification for supplementary services".
- [21] Draft new ITU-T Recommendation Q.788: "User-network interface to user-network interface compatibility test specifications for ISDN, non-ISDN and undetermined accesses interworking over international ISUP".

- [22] ISO/IEC 9646-1: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 1: General concepts".
- [23] ISO/IEC 9646-2: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 2: Abstract Test Suite specification".

3 Definitions and abbreviations

3.1 Definitions

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

- terms defined in the ISUP version 2 reference specifications [1-18];
- terms defined in ISO/IEC 9646-1 [22] and in ISO/IEC 9646-2 [23].

3.2 Abbreviations

For the purposes of this ETS, the following abbreviations apply, together with those given in ETS 300 356-1 [1] (e.g. the ISUP message acronyms):

| | |
|---------|---|
| 3PTY | Three-Party |
| ASE | Application Service Entity |
| CCBS | Completion of Calls to Busy Subscriber |
| CD | Call Deflection |
| CFB | Call Forwarding Busy |
| CFNR | Call Forwarding No Reply |
| CFU | Call Forwarding Unconditional |
| CLIP | Calling Line Identification Presentation |
| CLIR | Calling Line Identification Restriction |
| CntrlE | Controlling Exchange |
| COLP | Connected Line Identification Presentation |
| COLR | Connected Line Identification Restriction |
| CONF | Conference call, add-on |
| CUG | Closed User Group |
| CW | Call Waiting |
| DLE | Destination Exchange |
| ECT | Explicit Call Transfer |
| HOLD | Call Hold |
| InatE | International Exchange |
| InclE | Incoming International Exchange |
| IntermE | Intermediate Exchange |
| ISDN | Integrated Services Digital Network |
| ISUP | ISDN User Part |
| ITE | International Transit Exchange |
| IUT | Implementation Under Test |
| IWorkE | Interworking Exchange |
| MCID | Malicious Call Identification |
| NE | National Exchange |
| NTE | National Transit Exchange |
| OLE | Originating Local Exchange |
| OutIE | Outgoing International Exchange |
| PICS | Protocol Implementation Conformance Statement |
| SCS | System Conformance Statement |
| SUB | Subaddressing |
| SUT | System Under Test |
| TP | Terminal Portability |
| TP | Test Purpose (context dependent) |
| TSS | Test Suite Structure |
| UUS | User-to-User Signalling |
| UUSn | UUS service n (n = 1..3) |

4 Test Suite Structure (TSS)

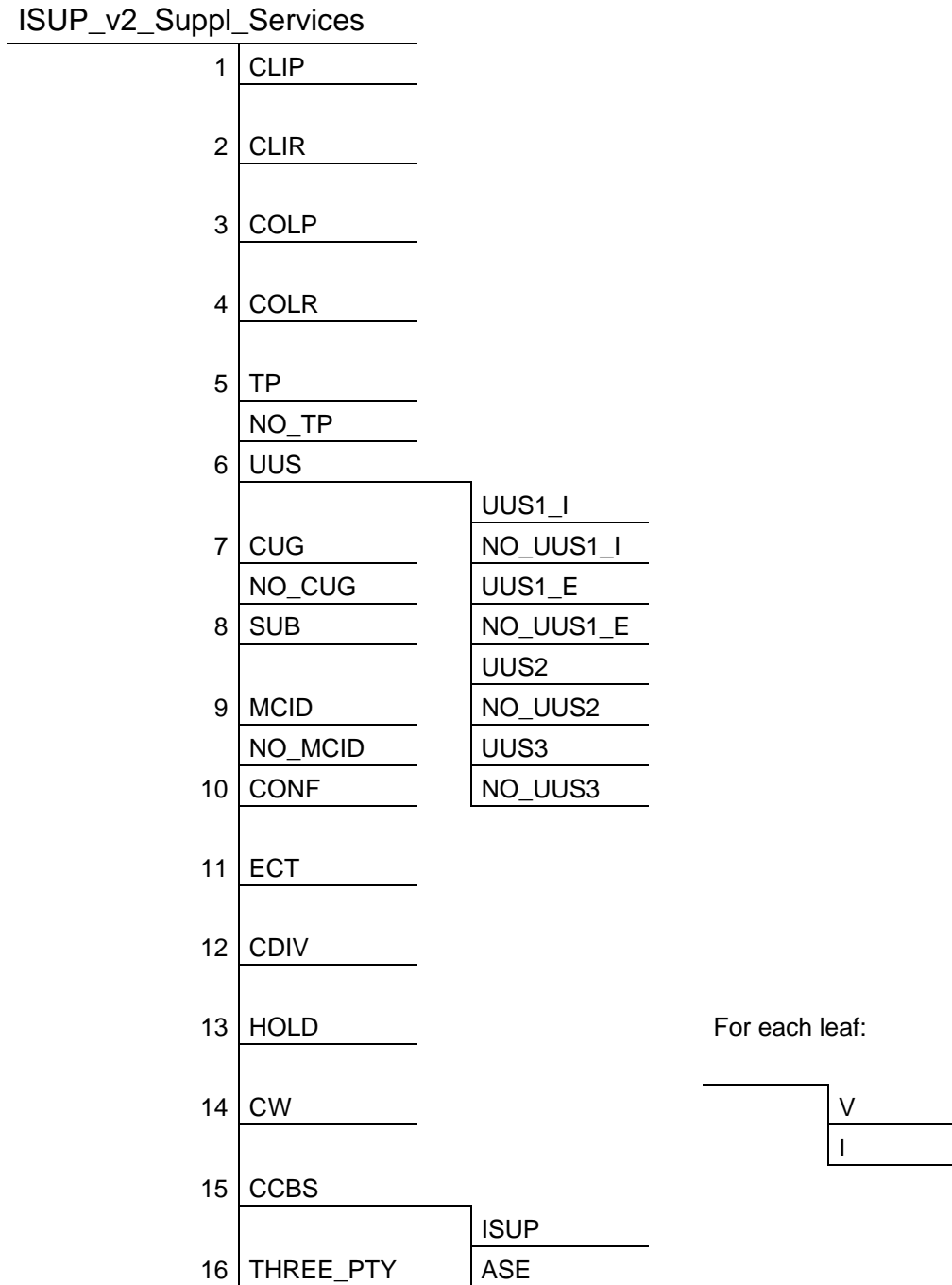


Figure 1: Test suite structure

TSS naming conventions

| | |
|-----------|--|
| CLIP | Calling Line Identification Presentation |
| CLIR | Calling Line Identification Restriction |
| COLP | Connected Line Identification Presentation |
| COLR | Connected Line Identification Restriction |
| TP | Terminal Portability |
| NO_TP | Terminal Portability not supported |
| UUS | User-to-User Signalling |
| UUS1_I | User-to-User Signalling service 1 implicit |
| NO_UUS1_I | User-to-User Signalling service 1 implicit not supported |
| UUS1_E | User-to-User Signalling service 1 explicit |
| NO_UUS1_E | User-to-User Signalling service 1 explicit not supported |
| UUS2 | User-to-User Signalling service 2 |
| NO_UUS2 | User-to-User Signalling service 2 not supported |
| UUS3 | User-to-User Signalling service 3 |
| NO_UUS3 | User-to-User Signalling service 3 not supported |
| CUG | Closed User Group |
| NO_CUG | Closed User Group not supported |
| SUB | Subaddressing |
| MCID | Malicious Call Identification |
| NO_MCID | Malicious Call Identification not supported |
| CONF | Conference Call, add-on |
| ECT | Explicit Call Transfer |
| CDIV | Call Diversion Services |
| CFB | Call Forwarding Busy |
| CFNR | Call Forwarding No Reply |
| CFU | Call Forwarding Unconditional |
| CD | Call Deflection |
| HOLD | Call Hold |
| CW | Call Waiting |
| CCBS | Completion of Calls to Busy Subscriber |
| CCBS_ISUP | CCBS - ISUP protocol |
| CCBS_ASE | CCBS - Application Service Element |
| THREE_PTY | Three-Party service |
| V | Valid behaviour stimulus |
| I | Inopportune stimulus |

5 Test Purposes (TP)**5.1 Introduction**

For each test requirement a TP is defined.

5.1.1 TP naming convention

TPs are numbered ascending within each group. Groups are organized according to the TSS down to the last but one level. The classification in the V/I groups is done by the inclusion of V or I in the test case name. Additional qualifiers, in form of lower case letters, are added to identify variants within one generic test case (see table 1).

Table 1: TP Identifier naming convention scheme

| | | |
|-------------|---|--|
| Identifier: | ISS_{<TC>}_<group>_<N>_<n>_{<n>}_{<a>} | |
| ISS | = | ISUP version 2 Supplementary Services |
| {<TC>} | = | Designation used for ASE test cases (e.g. CCBS): TC: Transaction Capabilities |
| <group> | = | One character representing the test group: V: Valid stimulus I: Inopportune stimulus |
| <N> | = | Sequence number for supplementary services according to the test suite structure |
| <n> | = | Sequence number used within the group |
| {<n>} | = | Optional additional number used (e.g. for UUS) |
| {<a>} | = | Optional lower-case character distinguishing tests with same reference number |

5.1.2 Source of TP definition

The TPs cover validation testing aspects and are based on the ISUP version 2 supplementary service reference specifications [2-18].

5.1.3 TP structure

The TP structure overlaps with the TSS.

Tps that test normal behaviour are grouped in the **V** (Valid behaviour) group.

Tps that test the IUT behaviour in situations that are not normal operation are grouped in the **I** (Inopportune stimulus) group.

Tps for the Application Service Entity (ASE) defined for some supplementary services (e.g. CCBS) have been marked with the **TC** (Transaction Capabilities) designation.

5.2 TPs for the supplementary services

All of the following TPs belong to the main group ISUP_v2_Suppl_Services. Each TP is presented in a separate table.

The first row of the table contains the following items:

- TSS: identifier in the test suite structure (test group/subgroup identifier);
- TP: identifier of the test purpose;
- ISUP v2 reference: the reference to the requirement in the ISUP standard (ITU-T Recommendation supplemented if necessary by the modifying ETS), which led to the TP;
- Selection expression: selection criterion for the TP taking into account the exchange's role and the answers to the specified PICS questions. If the PICS questions refer to features of the basic call control procedures (see ETS 300 356-31 [19]) they are preceded by the identifier "BCall". All other PICS questions refer to supplementary services specific features (see ETS 300 356-34 [20]). If there is no selection expression specified, the TP is valid for all roles of exchanges;

Q.788 reference: if there is a test purpose defined in ITU-T Recommendation Q.788 [21] which covers the expected behaviour of the TP, then the reference to that test is given here. Because the TPs defined in ITU-T Recommendation Q.788 [21] describe end-to-end tests, it is possible that one single Q.788 test is referenced by several TPs within this ETS. Some TPs do not have any reference to ITU-T Recommendation Q.788 [21] and are marked by "None" in the Q.788 reference box.

The next row defines the TP itself, each having a *title* in *italics* and a text body.

ISUP **messages** and **parameter** names are highlighted **bold** to ease the readability.

In order to check the specified behaviour for some TPs a special prerequisite test condition has to be fulfilled. If such a condition is needed, it is presented after the TP under the heading "Pre-test conditions".

5.2.1 Calling Line Identification Presentation (CLIP)

| | | | | |
|---|-----------------|--|---|--------------------------|
| TSS CLIP/ | TP ISS_V_1_1 | ISUP v2 reference 3.5.2.1.1; table 3.1/Q.731 | Selection expression OLE | Q.788 reference 2.1.1 |
| Test purpose <i>Calling party number (network provided)</i> To verify that the IUT can successfully originate a call having a calling party number with the screening indicator set to "network provided" and the presentation restricted indicator set to "presentation allowed". | | | | |
| TSS CLIP/ | TP ISS_V_1_2 | ISUP v2 reference 3.5.2.1.1; table 3.1/Q.731 | Selection expression OLE AND PICS A.3/8 (SUB) | Q.788 reference 2.1.2 |
| Test purpose <i>Calling party number (network provided) with calling subaddress</i> To verify that the IUT can successfully originate a call having a calling party number with the screening indicator set to "network provided" and an access transport parameter containing the calling subaddress. Pre-test conditions Arrange the data in the IUT so that the calling party has subscribed to the subaddressing supplementary service. | | | | |
| TSS CLIP/ | TP ISS_V_1_3 | ISUP v2 reference 3.5.2.1.1; table 3.1/Q.731 | Selection expression OLE | Q.788 reference None |
| Test purpose <i>Calling party number (user provided, verified and passed)</i> To verify that the IUT can successfully originate a call having the calling party number with the screening indicator set to "user provided, verified and passed". | | | | |

| | | | | |
|--|-----------------|--|---|--------------------------|
| TSS CLIP/ | TP ISS_V_1_4 | ISUP v2 reference 3.5.2.1.1; table 3.1/Q.731 | Selection expression OLE AND PICS A.3/8 (SUB) | Q.788 reference 2.1.3 |
| <p>Test purpose</p> <p><i>Calling party number (user provided, verified and passed) with calling subaddress</i></p> <p>To verify that the IUT can successfully originate a call having a calling party number with the screening indicator set to "user provided, verified and passed" and an access transport parameter containing the calling subaddress.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT so that the calling party has subscribed to the subaddressing supplementary service.</p> | | | | |
| TSS CLIP/ | TP ISS_V_1_5 | ISUP v2 reference 3.5.2.1.1; table 3.1/Q.731 | Selection expression OLE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Calling party number (user provided, not verified)</i></p> <p>To verify that the IUT can successfully originate a call having a default calling party number with the screening indicator set to "network provided" and a generic number containing the additional calling party number with the screening indicator set to "user provided, not verified".</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT so that there is a special arrangement from the access signalling system regarding an additional calling party number.</p> | | | | |
| TSS CLIP/ | TP ISS_V_1_6 | ISUP v2 reference 3.5.2.1.1; table 3.1/Q.731 | Selection expression OLE AND PICS A.3/8 (SUB) | Q.788 reference 2.1.4 |
| <p>Test purpose</p> <p><i>Calling party number (user provided, not verified) with calling subaddress</i></p> <p>To verify that the IUT can successfully originate a call having a default calling party number with the screening indicator set to "network provided", a generic number containing the additional calling party number with the screening indicator set to "user provided, not verified" and an access transport parameter containing the calling subaddress.</p> <p>Pre-test conditions</p> <p>Arrange the data in IUT so that there is a special arrangement from the access signalling system regarding an additional calling party number and that the calling party has subscribed to the subaddressing supplementary service.</p> | | | | |
| TSS CLIP/ | TP ISS_V_1_7 | ISUP v2 reference 3.4; 3.5.2.2.1/Q.731 | Selection expression Transit | Q.788 reference None |
| <p>Test purpose</p> <p><i>Passing on the calling party number and the generic number</i></p> <p>To verify that a calling party number and additional calling party number in the generic number can be successfully transferred to the succeeding exchange.</p> | | | | |

| | | | | |
|---|------------------|--------------------------------------|---|-------------------------|
| TSS CLIP/ | TP ISS_V_1_8 | ISUP v2 reference 3.5.2.3.1/Q.731 | Selection expression OutIE AND PICS A.4/1 | Q.788 reference None |
| <p>Test purpose</p> <p><i>Discarding the calling party number in case of bilateral agreements</i></p> <p>To verify that the calling party number is discarded in case of bilateral agreements, if the address presentation restricted indicator is set to "presentation allowed".</p> <p>NOTE: This bilateral agreement prohibits the transferral of the calling party number in any case. The test with the address presentation restricted indicator set to "presentation restricted" is a CLIR test.</p> <p>Pre-test conditions Arrange the data in IUT so that the calling party number is discarded.</p> | | | | |
| TSS CLIP/ | TP ISS_V_1_9 | ISUP v2 reference 3.5.2.3.1/Q.731 | Selection expression OutIE AND PICS A.4/2 | Q.788 reference None |
| <p>Test purpose</p> <p><i>Discarding the additional calling party number in case of bilateral agreements</i></p> <p>To verify that the additional calling party number in the generic number is discarded in case of bilateral agreements, if the address presentation restricted indicator is set to "presentation allowed".</p> <p>NOTE: This bilateral agreement prohibits the transferral of the calling party number in any case. The test with the address presentation restricted indicator set to "presentation restricted" is a CLIR test.</p> <p>Pre-test conditions Arrange the data in IUT so that the additional calling party number in the generic number is discarded.</p> | | | | |
| TSS CLIP/ | TP ISS_V_1_10 | ISUP v2 reference 3.5.2.3.1/Q.731 | Selection expression OutIE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Discarding the calling party number, if the address is marked not available</i></p> <p>To verify that the calling party number is omitted, if the address presentation restricted indicator is set to "address not available".</p> | | | | |
| TSS CLIP/ | TP ISS_V_1_11 | ISUP v2 reference 3.5.2.3.1/Q.731 | Selection expression OutIE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Discarding the additional calling party number, if no calling party number is received</i></p> <p>To verify that if the calling party number is not sent, then an additional calling party number in a generic number will be omitted.</p> | | | | |
| TSS CLIP/ | TP ISS_V_1_12 | ISUP v2 reference 3.5.2.3.1/Q.731 | Selection expression OutIE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Converting the calling party number to international format</i></p> <p>To verify that the IUT can convert the calling party number into an international number, setting the nature of address indicator to "international number" and can pass on the address presentation restricted indicator and the screening indicator transparently.</p> | | | | |

| | | | | |
|--|------------------|--------------------------------------|---|-------------------------|
| TSS CLIP/ | TP ISS_V_1_13 | ISUP v2 reference 3.5.2.3.1/Q.731 | Selection expression OutIE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Converting the additional calling party number to international format</i></p> <p>To verify that the IUT can convert the additional calling party number in the generic number into an international number, if the numbering plan indicator is "ISDN Telephony", setting the nature of address indicator to "international number" and can pass on the address presentation restricted indicator and the screening indicator transparently.</p> | | | | |
| TSS CLIP/ | TP ISS_I_1_14 | ISUP v2 reference 3.5.2.3.2/Q.731 | Selection expression OutIE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Discarding an incomplete calling party number</i></p> <p>To verify that the calling party number is discarded, if it is received with the calling party number incomplete indicator set to "incomplete".</p> | | | | |
| TSS CLIP/ | TP ISS_V_1_15 | ISUP v2 reference 3.5.2.4.1/Q.731 | Selection expression InclE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Converting the calling party number to national format, if necessary</i></p> <p>To verify that the country code in the address signals of the calling party number is removed if it is the network's own country code. The nature of address indicator shall be set to "national (significant) number". The address presentation restricted indicator shall be transferred transparently.</p> | | | | |
| TSS CLIP/ | TP ISS_V_1_16 | ISUP v2 reference 3.5.2.4.1/Q.731 | Selection expression InclE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Converting the additional calling party number to national format, if necessary</i></p> <p>To verify that the country code in the address signals of the generic number coded as an "additional calling party number", if the numbering plan indicator is "ISDN Telephony" is removed if it is the network's own country code. The nature of address indicator shall be set to "national (significant) number". The address presentation restricted indicator shall be transferred transparently.</p> | | | | |
| TSS CLIP/ | TP ISS_I_1_17 | ISUP v2 reference 3.5.2.4.1/Q.731 | Selection expression InclE AND PICS A.4/4 | Q.788 reference None |
| <p>Test purpose</p> <p><i>Adding a prefix to an international calling party number</i></p> <p>To verify that a prefix is added to the calling party number and the nature of address indicator is set to "unknown".</p> <p>NOTE: The coding "unknown" is a national option (@).</p> | | | | |
| TSS CLIP/ | TP ISS_I_1_18 | ISUP v2 reference 3.5.2.4.2/Q.731 | Selection expression InclE AND PICS A.4/5 | Q.788 reference None |
| <p>Test purpose</p> <p><i>Handling of address presentation restricted indicator set to "address not available"</i></p> <p>To verify that the screening indicator shall be set to "network provided" if the address presentation restricted indicator in calling party number is set to "address not available".</p> <p>NOTE: The coding "address not available" is a national option (@).</p> | | | | |

| | | | | |
|--|------------------|-------------------------------------|--|-------------------------|
| TSS CLIP/ | TP ISS_V_1_19 | ISUP v2 reference 3.6.10.1/Q.731 | Selection expression DLE AND (PICS A.3/12 OR PICS A.3/13 OR PICS A.3/14 OR PICS A.3/15) | Q.788 reference None |
| <p>Test purpose</p> <p><i>CLIP - interaction with call diversions</i></p> <p>To verify that a call diverting exchange shall also forward the calling party number and the generic number containing the additional calling party number.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT such that the called user has subscribed to CLIP and has activated a call diversion service (CFB, CFNR, CFU or CD).</p> | | | | |

5.2.2 Calling Line Identification Restriction (CLIR)

| | | | | |
|--|-----------------|--------------------------------------|---|--------------------------|
| TSS CLIR/ | TP ISS_V_2_1 | ISUP v2 reference 4.5.2.1.1/Q.731 | Selection expression OLE | Q.788 reference 2.1.5 |
| <p>Test purpose</p> <p><i>Restricted calling party number (network provided)</i></p> <p>To verify that the IUT can successfully originate a call having a calling party number with the screening indicator set to "network provided" and the address presentation restricted indicator set to "presentation restricted".</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT so that the calling party has subscribed CLIR.</p> | | | | |
| TSS CLIR/ | TP ISS_V_2_2 | ISUP v2 reference 4.5.2.1.1/Q.731 | Selection expression OLE AND PICS A.3/8 (SUB) | Q.788 reference 2.1.6 |
| <p>Test purpose</p> <p><i>Restricted calling party number (network provided) with calling subaddress</i></p> <p>To verify that the IUT can successfully originate a call having a calling party number with the screening indicator set to "network provided", the address presentation restricted indicator set to "presentation restricted" and an access transport parameter containing the calling subaddress.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT so that the calling party has subscribed to CLIR and SUB.</p> | | | | |
| TSS CLIR/ | TP ISS_V_2_3 | ISUP v2 reference 4.5.2.1.1/Q.731 | Selection expression OLE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Restricted calling party number (user provided, verified and passed)</i></p> <p>To verify that the IUT can successfully originate a call having the calling party number with the screening indicator set to "user provided, verified and passed" and the address presentation restricted indicator set to "presentation restricted".</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT so that the calling party has subscribed CLIR.</p> | | | | |

| | | | | |
|--|-----------------|--------------------------------------|---|--------------------------|
| TSS CLIR/ | TP ISS_V_2_4 | ISUP v2 reference 4.5.2.1.1/Q.731 | Selection expression OLE AND PICS A.3/8 (SUB) | Q.788 reference 2.1.7 |
| <p>Test purpose</p> <p><i>Restricted calling party number (user provided, verified and passed) with calling subaddress</i></p> <p>To verify that the IUT can successfully originate a call having a calling party number with the screening indicator set to "user provided, verified and passed", the address presentation restricted indicator set to "presentation restricted" and an access transport parameter containing the calling subaddress.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT so that the calling party has subscribed to CLIR and SUB.</p> | | | | |
| TSS CLIR/ | TP ISS_V_2_5 | ISUP v2 reference 4.5.2.1.1/Q.731 | Selection expression OLE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Restricted calling party number (user provided, not verified)</i></p> <p>To verify that the IUT can successfully originate a call having a default calling party number with the screening indicator set to "network provided" and a generic number containing the additional calling party number with the screening indicator set to "user provided, not verified", both having the address presentation restricted indicator set to "presentation restricted".</p> <p>Pre-test conditions</p> <p>Arrange the data in IUT so that there is a special arrangement from the access signalling system regarding an additional calling party number and that the calling party has subscribed to CLIR.</p> | | | | |
| TSS CLIR/ | TP ISS_V_2_6 | ISUP v2 reference 4.5.2.1.1/Q.731 | Selection expression OLE AND PICS A.3/8 (SUB) | Q.788 reference 2.1.8 |
| <p>Test purpose</p> <p><i>Restricted calling party number (user provided, not verified) with calling subaddress</i></p> <p>To verify that the IUT can successfully originate a call having a default calling party number with the screening indicator set to "network provided", a generic number containing the additional calling party number with the screening indicator set to "user provided, not verified", both having the address presentation restricted indicator set to "presentation restricted" and an access transport parameter containing the calling subaddress.</p> <p>Pre-test conditions</p> <p>Arrange the data in IUT so that there is a special arrangement from the access signalling system regarding an additional calling party number and that the calling party has subscribed to CLIR and SUB.</p> | | | | |
| TSS CLIR/ | TP ISS_V_2_7 | ISUP v2 reference 4.5.2.2.1/Q.731 | Selection expression Transit | Q.788 reference None |
| <p>Test purpose</p> <p><i>Conveying the information relating to CLIR</i></p> <p>To verify that the address presentation restricted indicator in the calling party number and in the generic number are transferred successfully to the succeeding exchange.</p> | | | | |

| | | | | |
|--|------------------|---|--|-------------------------|
| TSS CLIR/ | TP ISS_V_2_8 | ISUP v2 reference 3.5.2.3.1; 4.5.2.3.2; 4.6.5/Q.731 | Selection expression OutIE AND PICS A.5/1 | Q.788 reference None |
| <p>Test purpose</p> <p><i>Discarding the calling party number if the presentation is restricted</i></p> <p>To verify that the calling party number is discarded in case of bilateral agreements, if the address presentation restricted indicator is set to "presentation restricted".</p> <p>Pre-test conditions Arrange the data in IUT so that the calling party number is discarded.</p> | | | | |
| TSS CLIR/ | TP ISS_V_2_9 | ISUP v2 reference 3.5.2.3.1; 4.5.2.3.2; 4.6.5/Q.731 | Selection expression OutIE AND PICS A.5/2 | Q.788 reference None |
| <p>Test purpose</p> <p><i>Discarding the additional calling party number if the presentation is restricted</i></p> <p>To verify that the additional calling party number in the generic number is discarded in case of bilateral agreements, if the address presentation restricted indicator is set to "presentation restricted".</p> <p>Pre-test conditions Arrange the data in IUT so that the additional calling party number is discarded.</p> | | | | |
| TSS CLIR/ | TP ISS_V_2_10 | ISUP v2 reference 4.6.20/Q.731 | Selection expression DLE AND PICS A.3/9 (MCID) | Q.788 reference None |
| <p>Test purpose</p> <p><i>Presentation of the address - interaction with MCID</i></p> <p>To verify that the information conveyed in an incoming call (especially the calling party number and the additional calling party number in the generic number) is registered in the network regardless of whether the calling user has activated the CLIR service or not, if the called user has MCID activated.</p> <p>Pre-test conditions Arrange the data in the IUT such that the called user has activated the MCID supplementary service on a permanent basis.</p> | | | | |
| TSS CLIR/ | TP ISS_V_2_11 | ISUP v2 reference 4.2.1/Q.731 | Selection expression DLE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Presentation of the address - called party has override category</i></p> <p>To verify that the calling party number and the additional calling party number in the generic number are passed to the access regardless of whether the calling user has activated the CLIR service or not if the called user has the override category.</p> <p>Pre-test conditions Arrange the data in the IUT such that the called user has the override category.</p> | | | | |

5.2.3 Connected Line identification Presentation (COLP)

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|--|-----------------|--------------------------------------|---|--------------------------|
| TSS COLP/ | TP ISS_V_3_1 | ISUP v2 reference 5.5.2.1.1/Q.731 | Selection expression OLE | Q.788 reference 2.3.1 |
| <p>Test purpose</p> <p><i>Initiate COLP request</i></p> <p>To verify that the exchange can initiate successfully a call requesting the COLP service in the optional forward call indicators.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT such that the calling party subscribes to COLP.</p> | | | | |
| TSS COLP/ | TP ISS_V_3_2 | ISUP v2 reference 5.5.2.2.1/Q.731 | Selection expression Transit | Q.788 reference None |
| <p>Test purpose</p> <p><i>Passing on information relating to COLP</i></p> <p>To verify that the IUT passes on transparently the information related to the COLP supplementary service in the optional forward call indicators (forward direction) and the connected number (backward direction).</p> | | | | |
| TSS COLP/ | TP ISS_V_3_3 | ISUP v2 reference 5.5.2.3.1/Q.731 | Selection expression OutIE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Converting the connected number to national format, if necessary</i></p> <p>To verify that the country code in the address signals of the connected number is removed if it is the network's own country code. The nature of address indicator shall be set to "national (significant) number", the address presentation restricted indicator and the screening indicator shall be transferred transparently.</p> | | | | |
| TSS COLP/ | TP ISS_V_3_4 | ISUP v2 reference 5.5.2.3.1/Q.731 | Selection expression OutIE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Converting the additional connected number to national format, if necessary</i></p> <p>To verify that the country code in the address signals of the generic number coded as an "additional connected number", if the numbering plan indicator is "ISDN Telephony" is removed if it is the network's own country code. The nature of address indicator shall be set to "national (significant) number", the address presentation restricted indicator and the screening indicator shall be transferred transparently.</p> | | | | |
| TSS COLP/ | TP ISS_I_3_5 | ISUP v2 reference 5.5.2.3.1/Q.731 | Selection expression OutIE AND PICS A.6/1 | Q.788 reference None |
| <p>Test purpose</p> <p><i>Adding a prefix to an international connected number</i></p> <p>To verify that a prefix is added to the connected number and the nature of address indicator is set to "unknown".</p> <p>NOTE: The coding "unknown" is a national option (@).</p> | | | | |

| | | | | |
|--|------------------|--------------------------------------|---|--------------------------|
| TSS COLP/ | TP ISS_V_3_6 | ISUP v2 reference 5.5.2.4.1/Q.731 | Selection expression InclE AND PICS A.6/2 | Q.788 reference None |
| <p>Test purpose</p> <p><i>Discarding the connected number in case of bilateral agreements</i></p> <p>To verify that the connected number is discarded in case of bilateral agreements, if the address presentation restricted indicator is set to "presentation allowed".</p> <p>NOTE: This bilateral agreement prohibits the transferral of the connected number in any case. The test with the address presentation restricted indicator set to "presentation restricted" is a COLR test.</p> <p>Pre-test conditions Arrange the data in the IUT so that the connected number is discarded.</p> | | | | |
| TSS COLP/ | TP ISS_V_3_7 | ISUP v2 reference 5.5.2.4.1/Q.731 | Selection expression InclE AND PICS A.6/3 | Q.788 reference None |
| <p>Test purpose</p> <p><i>Discarding the additional connected number in case of bilateral agreements</i></p> <p>To verify that the additional connected number in the generic number is discarded in case of bilateral agreements, if the address presentation restricted indicator is set to "presentation allowed".</p> <p>NOTE: This bilateral agreement prohibits the transferral of the additional connected number in the generic number in any case. The test with the address presentation restricted indicator set to "presentation restricted" is a COLR test.</p> <p>Pre-test conditions Arrange the data in the IUT so that the additional connected number in the generic number is discarded.</p> | | | | |
| TSS COLP/ | TP ISS_V_3_8 | ISUP v2 reference 5.5.2.4.1/Q.731 | Selection expression InclE AND PICS A.6/4 | Q.788 reference 2.3.9 |
| <p>Test purpose</p> <p><i>Resetting the address signals of the connected number, if they are not to be sent</i></p> <p>To verify that for a connected number which is not to be released to the originating network the setting of the address presentation restricted indicator can be changed from "presentation allowed" to "address not available", and that the address signals are reset.</p> | | | | |
| TSS COLP/ | TP ISS_V_3_9 | ISUP v2 reference 5.5.2.4.1/Q.731 | Selection expression InclE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Converting the connected number to international format</i></p> <p>To verify that the exchange can convert the connected number into an international number, setting the nature of address indicator to "international number" and can pass on the address presentation restricted indicator and the screening indicator transparently.</p> | | | | |
| TSS COLP/ | TP ISS_I_3_10 | ISUP v2 reference 5.5.2.5.1/Q.731 | Selection expression | Q.788 reference 2.3.8 |
| <p>Test purpose</p> <p><i>Handling unrequested COL</i></p> <p>To verify that the call can be successfully set up if the IUT receives an unsolicited COL.</p> | | | | |

| | | | | |
|---|------------------|---|---|--------------------------|
| TSS COLP/ | TP ISS_V_3_11 | ISUP v2 reference 5.5.2.5.1 i)/Q.731 | Selection expression DLE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Connected number (user provided, verified and passed)</i></p> <p>To verify that the IUT can provide a connected number with the screening indicator set to "user provided, verified and passed", if the user provided COL is valid.</p> | | | | |
| TSS COLP/ | TP ISS_V_3_12 | ISUP v2 reference 5.5.2.5.1 i)/Q.731 | Selection expression DLE AND PICS A.3/8 (SUB) | Q.788 reference 2.3.3 |
| <p>Test purpose</p> <p><i>Connected number (user provided, verified and passed) with connected subaddress</i></p> <p>To verify that the IUT can provide a connected number with the screening indicator set to "user provided, verified and passed", if the user provided COL is valid and an access transport parameter containing the connected subaddress.</p> <p>Pre-test conditions Arrange the data in the IUT so that the connected party has subscribed to SUB.</p> | | | | |
| TSS COLP/ | TP ISS_V_3_13 | ISUP v2 reference 5.5.2.5.1 ii)/Q.731 | Selection expression DLE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Connected number (network provided)</i></p> <p>To verify that the IUT can provide a default connected number with the screening indicator set to "network provided", if the user provided COL is not valid.</p> | | | | |
| TSS COLP/ | TP ISS_V_3_14 | ISUP v2 reference 5.5.2.5.1 ii)/Q.731 | Selection expression DLE AND PICS A.3/8 (SUB) | Q.788 reference 2.3.2 |
| <p>Test purpose</p> <p><i>Connected number (network provided) with connected subaddress</i></p> <p>To verify that the IUT can provide a default connected number with the screening indicator set to "network provided", if the user provided COL is not valid and an access transport parameter containing the connected subaddress.</p> <p>Pre-test conditions Arrange the data in the IUT so that the connected party has subscribed to SUB.</p> | | | | |
| TSS COLP/ | TP ISS_V_3_15 | ISUP v2 reference 5.5.2.5.1 iii)/Q.731 | Selection expression DLE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Connected number (user provided, not verified)</i></p> <p>To verify that the IUT can provide a default connected number with the screening indicator set to "network provided" and a generic number containing the additional connected number with the screening indicator set to "user provided, not verified".</p> <p>Pre-test conditions Arrange the data in the IUT so that there is a special arrangement from the access signalling system regarding an additional connected number.</p> | | | | |

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|---|------------------|---|---|--------------------------|
| TSS COLP/ | TP ISS_V_3_16 | ISUP v2 reference 5.5.2.5.1 iii)/Q.731 | Selection expression DLE AND PICS A.3/8 (SUB) | Q.788 reference 2.3.4 |
| <p>Test purpose</p> <p><i>Connected number (user provided, not verified) with connected subaddress</i></p> <p>To verify that the IUT can provide a default connected number with the screening indicator set to "network provided", a generic number containing the additional connected number with the screening indicator set to "user provided, not verified" and an access transport parameter containing the connected subaddress.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT so that there is a special arrangement from the access signalling system regarding an additional connected number and that the connected party has subscribed to the subaddressing supplementary service.</p> | | | | |
| TSS COLP/ | TP ISS_V_3_17 | ISUP v2 reference 5.5.2.5.1/Q.731 | Selection expression DLE AND NOT PICS A.6/5 | Q.788 reference None |
| <p>Test purpose</p> <p><i>COL cannot be transferred</i></p> <p>To verify that the address presentation restricted indicator in the connected number in ANM or in CON is set to "presentation restricted" or "address not available" and that the screening indicator shall be set to "network provided" if the COL cannot be transferred.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT so that no COL can be transferred.</p> | | | | |
| TSS COLP/ | TP ISS_V_3_18 | ISUP v2 reference 5.6.14/Q.731 | Selection expression DLE | Q.788 reference None |
| <p>Test purpose</p> <p><i>COLP - interaction with MSN</i></p> <p>To verify that an exchange with MSN can provide the connected party multiple subscriber number or full ISDN number as the connected number on call answer.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT such that the called user has activated the Multiple Subscriber Number (MSN) supplementary service.</p> | | | | |

5.2.4 Connected Line identification Restriction (COLR)

| | | | | |
|--|-----------------|--------------------------------------|-----------------------------|-------------------------|
| TSS COLR/ | TP ISS_V_4_1 | ISUP v2 reference 6.5.2.1.1/Q.731 | Selection expression OLE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Presentation of restricted COL</i></p> <p>To verify that a local exchange will not pass the information on to the access signalling system when a connected number is received in the ANM or CON and its address presentation restricted indicator is set to "presentation restricted" , i.e. that presentation is denied on the user-network interface (UNI).</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT such that the calling user subscribes to COLP.</p> | | | | |

| | | | | |
|---|-----------------|--------------------------------------|---|-------------------------|
| TSS COLR/ | TP ISS_I_4_2 | ISUP v2 reference 6.5.2.1.2/Q.731 | Selection expression OLE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Presentation of restricted COL to "override category" calling user</i></p> <p>To verify that the received connected number and optionally the additional connected number in the generic number can be conveyed successfully to an "override category" calling user, if the called user has activated the Connected Line Presentation Restriction (COLR) supplementary service.</p> <p>Pre-test conditions Arrange the data in the IUT such that the calling user has an "override category".</p> | | | | |
| TSS COLR/ | TP ISS_V_4_3 | ISUP v2 reference 6.5.2.2.1/Q.731 | Selection expression Transit | Q.788 reference None |
| <p>Test purpose</p> <p><i>Passing on information relating to COLR</i></p> <p>To verify that the IUT shall pass transparently all information related to the COLR supplementary service in the address presentation restricted indicator of the connected number and optionally the additional connect number in the generic number.</p> | | | | |
| TSS COLR/ | TP ISS_V_4_4 | ISUP v2 reference 6.5.2.4.1/Q.731 | Selection expression InclE AND PICS A.7/1 | Q.788 reference None |
| <p>Test purpose</p> <p><i>Discarding the connected number if the presentation is restricted</i></p> <p>To verify that the connected number is discarded in case of bilateral agreements, if the address presentation restricted indicator is set to "presentation restricted".</p> <p>Pre-test conditions Arrange the data in IUT so that the connected number is discarded.</p> | | | | |
| TSS COLR/ | TP ISS_V_4_5 | ISUP v2 reference 6.5.2.4.1/Q.731 | Selection expression InclE AND PICS A.7/2 | Q.788 reference None |
| <p>Test purpose</p> <p><i>Discarding the additional connected number in the generic number if the presentation is restricted</i></p> <p>To verify that the additional connected number in the generic number is discarded in case of bilateral agreements, if the address presentation restricted indicator is set to "presentation restricted".</p> <p>Pre-test conditions Arrange the data in IUT so that the additional connected number in the generic number is discarded.</p> | | | | |
| TSS COLR/ | TP ISS_I_4_6 | ISUP v2 reference 6.5.2.4.1/Q.731 | Selection expression InclE AND PICS A.7/3 | Q.788 reference None |
| <p>Test purpose</p> <p><i>Resetting the address signals of the connected number, whose release is forbidden</i></p> <p>To verify that for a connected number which is not to be released to the originating network the setting of the address presentation restricted indicator can be changed from "presentation restricted" to "address not available" and that the address signals are reset.</p> | | | | |

| | | | | |
|---|------------------|--------------------------------------|---|--------------------------|
| TSS COLR/ | TP ISS_V_4_7 | ISUP v2 reference 6.5.2.5.1/Q.731 | Selection expression DLE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Restricted connected number (user provided, verified and passed)</i></p> <p>To verify that the IUT can provide a connected number with the screening indicator set to "user provided, verified and passed" and with the address presentation restricted indicator set to "presentation restricted", if the user provided COL is valid.</p> <p>Pre-test conditions Arrange the data in the IUT so that the connected party has subscribed to COLR.</p> | | | | |
| TSS COLR/ | TP ISS_V_4_8 | ISUP v2 reference 6.5.2.5.1/Q.731 | Selection expression DLE AND PICS A.3/8 (SUB) | Q.788 reference 2.3.6 |
| <p>Test purpose</p> <p><i>Restricted connected number (user provided, verified and passed) with connected subaddress</i></p> <p>To verify that the IUT can provide a connected number with the screening indicator set to "user provided, verified and passed" and with the address presentation restricted indicator set to "presentation restricted", if the user provided COL is valid. Additionally, an access transport parameter containing the connected subaddress shall also be provided.</p> <p>Pre-test conditions Arrange the data in the IUT so that the connected party has subscribed to COLR and SUB.</p> | | | | |
| TSS COLR/ | TP ISS_V_4_9 | ISUP v2 reference 6.5.2.5.1/Q.731 | Selection expression DLE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Restricted connected number (network provided)</i></p> <p>To verify that the IUT can provide a default connected number with the screening indicator set to "network provided" and with the address presentation restricted indicator set to "presentation restricted", if the user provided COL is not valid.</p> <p>Pre-test conditions Arrange the data in the IUT so that the connected party has subscribed to the COLR.</p> | | | | |
| TSS COLR/ | TP ISS_V_4_10 | ISUP v2 reference 6.5.2.5.1/Q.731 | Selection expression DLE AND PICS A.3/8 (SUB) | Q.788 reference 2.3.5 |
| <p>Test purpose</p> <p><i>Restricted connected number (network provided) with connected subaddress</i></p> <p>To verify that the IUT can provide a default connected number with the screening indicator set to "network provided" and with the address presentation restricted indicator set to "presentation restricted", if the user provided COL is not valid. Additionally, an access transport parameter containing the connected subaddress shall also be provided.</p> <p>Pre-test conditions Arrange the data in the IUT so that the connected party has subscribed COLR and SUB.</p> | | | | |

| TSS | TP | ISUP v2 reference | Selection expression | Q.788 reference |
|--|------------|-------------------|----------------------|-----------------|
| COLR/ | ISS_V_4_11 | 6.5.2.5.1/Q.731 | DLE | None |
| <p>Test purpose</p> <p><i>Restricted connected number (user provided, not verified)</i></p> <p>To verify that the IUT can provide a default connected number with the screening indicator set to "network provided" and a generic number containing the additional connected number with the screening indicator set to "user provided, not verified" - both having the address presentation restricted indicator set to "presentation restricted".</p> <p>Pre-test conditions</p> <p>Arrange the data in IUT so that there is a special arrangement from the access signalling system regarding an additional connected number and that the connected party has subscribed to COLR.</p> | | | | |

| TSS | TP | ISUP v2 reference | Selection expression | Q.788 reference |
|---|------------|-------------------|-----------------------------|-----------------|
| COLR/ | ISS_V_4_12 | 6.5.2.5.1/Q.731 | DLE AND PICS A.3/8 (SUB) | 2.3.5 |
| <p>Test purpose</p> <p><i>Restricted connected number (user provided, not verified) with connected subaddress</i></p> <p>To verify that the IUT can provide a default calling party number with the screening indicator set to "network provided", a generic number containing the additional connected number with the screening indicator set to "user provided, not verified" - both having the address presentation restricted indicator set to "presentation restricted" and additionally an access transport parameter containing the connected subaddress.</p> <p>Pre-test conditions</p> <p>Arrange the data in IUT so that there is a special arrangement from the access signalling system regarding an additional connected number and that the connected party has subscribed to COLR and SUB.</p> | | | | |

5.2.5 Terminal Portability (TP)

| TSS | TP | ISUP v2 reference | Selection expression | Q.788 reference |
|--|-----------|--------------------|----------------------|-----------------|
| TP/ | ISS_V_5_1 | 4.5.2.1.1 a)/Q.733 | OLE | 2.12.1 |
| <p>Test purpose</p> <p><i>Terminal portability, requested by the calling party</i></p> <p>To verify that the calling party can suspend and resume an outgoing call and that user initiated SUS and RES messages are sent to the succeeding exchange.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT so that the calling party subscribes to the Terminal portability service.</p> | | | | |

| TSS | TP | ISUP v2 reference | Selection expression | Q.788 reference |
|--|-----------|--------------------|----------------------|-----------------|
| TP/ | ISS_V_5_2 | 4.5.2.1.1 b)/Q.733 | OLE | 2.12.1 |
| <p>Test purpose</p> <p><i>Terminal portability, requested by the called party</i></p> <p>To verify that IUT informs the calling party that a suspend and a resume have been requested by the called party upon receipt of user initiated SUS and RES messages.</p> | | | | |

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|---|-----------------|---|---------------------------------|---------------------------|
| TSS TP/ | TP ISS_I_5_3 | ISUP v2 reference 4.5.2.1.2/Q.733 | Selection expression Local | Q.788 reference 2.12.2 |
| <p>Test purpose</p> <p><i>Terminal portability, requested by local served user, no Resume after Suspend</i></p> <p>To verify that the call is released with cause #102 (recovery on timer expiry) by the IUT if timer T2 expires because the local served user does not resume the call.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT so that the local user subscribes to the Terminal portability service.</p> | | | | |
| TSS TP/ | TP ISS_V_5_4 | ISUP v2 reference 4.5.2.1.1/Q.733 | Selection expression Local | Q.788 reference None |
| <p>Test purpose</p> <p><i>Terminal portability, release suspended call</i></p> <p>To verify that a suspended call can be released by the IUT, if the local user or the remote user releases the call.</p> | | | | |
| TSS TP/ | TP ISS_V_5_5 | ISUP v2 reference 4.5.2.2.1 a); 4.5.2.3.1; 4.5.2.4.1/Q.733 | Selection expression IntermE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Terminal portability, requested by the calling party (transit call)</i></p> <p>To verify that the SUS and RES messages are passed on transparently by the IUT, if the calling party requests the service.</p> | | | | |
| TSS TP/ | TP ISS_V_5_6 | ISUP v2 reference 4.5.2.2.1 b); 4.5.2.3.1; 4.5.2.4.1/Q.733 | Selection expression IntermE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Terminal portability, requested by the called party (transit call)</i></p> <p>To verify that the SUS and RES messages are passed on transparently by the IUT, if the called party requests the service.</p> | | | | |
| TSS TP/ | TP ISS_V_5_7 | ISUP v2 reference 4.5.2.5.1 a)/Q.733 | Selection expression DLE | Q.788 reference 2.12.1 |
| <p>Test purpose</p> <p><i>Terminal portability, requested by the calling party</i></p> <p>To verify that the IUT informs the called party that suspend and resume have been requested by the calling party upon receipt of user initiated SUS and RES messages.</p> | | | | |
| TSS TP/ | TP ISS_V_5_8 | ISUP v2 reference 4.5.2.5.1 b)/Q.733 | Selection expression DLE | Q.788 reference 2.12.1 |
| <p>Test purpose</p> <p><i>Terminal portability, requested by the called party</i></p> <p>To verify that the called party can suspend and resume an incoming call and that user initiated SUS and RES messages are sent to the preceding exchange.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT so that the called party subscribes to the Terminal portability service.</p> | | | | |

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|--|-----------------|--|---|-------------------------|
| TSS NO_TP/ | TP ISS_I_5_9 | ISUP v2 reference 4.5.2.3.2; 4.5.2.4.2/Q.733 | Selection expression Gateway AND NOT PICS A.3/5 AND PICS A.8/1 | Q.788 reference None |
| <p>Test purpose</p> <p><i>Terminal portability, national network does not support the service</i></p> <p>To verify that the SUS and RES messages are discarded by the IUT without notification if the served user requests suspend and resume, but the national network does not support the Terminal portability service.</p> | | | | |

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|---|------------------|-------------------------------------|---|-------------------------|
| TSS TP/ | TP ISS_V_5_10 | ISUP v2 reference 4.6.13.3/Q.733 | Selection expression Local AND PICS A.9/8 | Q.788 reference None |
| <p>Test purpose</p> <p><i>Terminal portability, request for UUS3 while call is suspended</i></p> <p>To verify that a request for User-to-user signalling service 3 is rejected by the IUT if the call is currently suspended and if the IUT is the suspend controlling exchange.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT so that the local user subscribes both to the Terminal portability service and to the User-to-user signalling service 3.</p> | | | | |

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|---|------------------|--|-------------------------------|-------------------------|
| TSS TP/ | TP ISS_V_5_11 | ISUP v2 reference 4.4/ ETS 300 356-7 [7] | Selection expression Local | Q.788 reference None |
| <p>Test purpose</p> <p><i>Terminal portability, notification from a private to a public network</i></p> <p>To verify that the suspend/resume notification from the private network is transported in the CPG message with the event indicator set to "progress" and that the SUS/RES messages are not used in this case.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT so that the local user belongs to a private network.</p> | | | | |

5.2.6 User-to-User Signalling (UUS)

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|--|-------------------|------------------------------------|---|-------------------------|
| TSS UUS/UUS1_I/ | TP ISS_V_6_1_1 | ISUP v2 reference 1.1.2.1/Q.737 | Selection expression OLE AND PICS A.9/1 | Q.788 reference None |
| <p>Test purpose</p> <p><i>32 octets user-to-user information</i></p> <p>To verify that the IUT can successfully initiate a call having 32 octets of user-to-user information in the messages related to the set up or the release of the call.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT so that the user has subscribed to the UUS1 supplementary service.</p> | | | | |

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|--|-------------------|--|--|---------------------------|
| TSS UUS/UUS1_I/ | TP ISS_V_6_1_2 | ISUP v2 reference 1.1.5.2.1.1.1; 1.1.5.2.1.1.3; 1.1.5.2.2-4.1/Q.737 | Selection expression OLE OR Interme | Q.788 reference 2.15.1 |
| <p>Test purpose</p> <p><i>UUS1 implicit - request</i></p> <p>To verify that the IUT can successfully initiate/transit a call with an UUS 1 implicit request, having the user-to-user information parameter in the IAM, without the user-to-user indicators parameter.</p> <p>Pre-test conditions (in case of OLE) Arrange the data in the IUT so that the user has subscribed to the UUS1 supplementary service.</p> | | | | |
| TSS UUS/UUS1_I/ | TP ISS_I_6_1_3 | ISUP v2 reference 1.1.5.2.5.2.3; 1.1.5.2.2-4.2/Q.737 | Selection expression OLE OR Interme | Q.788 reference 2.15.2 |
| <p>Test purpose</p> <p><i>UUS1 implicit - discarded with indication received</i></p> <p>To verify that the IUT can, after successfully initiating/transiting a call with an UUS1 implicit request, continue normal call set up if the first backward message is received with the user-to-user indicators set to "user-to-user information discarded by the network".</p> <p>NOTE: The user-to-user information is discarded because the following network does not support it.</p> <p>Pre-test conditions (in case of OLE) Arrange the data in the IUT so that the user has subscribed to the UUS1 supplementary service.</p> | | | | |
| TSS UUS/UUS1_I/ | TP ISS_I_6_1_4 | ISUP v2 reference 1.1.5.2.5.2.3; 1.1.5.2.3-5.2/Q.737 | Selection expression OLE OR Interme | Q.788 reference None |
| <p>Test purpose</p> <p><i>UUS1 implicit - discarded but no indication received</i></p> <p>To verify that the IUT can successfully initiate/transit a call with an UUS1 implicit request, and complete the call if no indication is provided in the backward direction.</p> <p>NOTE: The user-to-user information is discarded because:</p> <ol style="list-style-type: none"> 1) the remote network is unable to pass the service 1 in any message; 2) the remote user may not be able to interpret incoming UUS information. <p>Pre-test conditions (in case of OLE) Arrange the data in the IUT so that the user has subscribed to the UUS1 supplementary service.</p> | | | | |
| TSS UUS/UUS1_I/ | TP ISS_V_6_1_5 | ISUP v2 reference 1.1.5.2.1.1.1; 1.1.5.2.1.1.3; 1.1.5.2.3-5.1/Q.737 | Selection expression Interme OR DLE | Q.788 reference 2.15.1 |
| <p>Test purpose</p> <p><i>UUS1 implicit - acceptance</i></p> <p>To verify that the IUT can successfully transit/accept a call with an UUS1 implicit request, and transfer/include the user-to-user information parameter in the ACM, CPG, ANM, CON, SGM or REL as implicit acceptance (no user-to-user indicators).</p> <p>Pre-test conditions (in case of DLE) Arrange the data in the IUT so that the user has subscribed to the UUS1 supplementary service.</p> | | | | |

| TSS | TP | ISUP v2 reference | Selection expression | Q.788 reference |
|--|-------------|---------------------------------------|----------------------|-----------------|
| UUS/NO_UUS1_I/ | ISS_I_6_1_6 | 1.1.5.2.5.2.3; 1.1.5.2.3-5.2/Q.737 | IntermE OR DLE | 2.15.2 |
| <p>Test purpose</p> <p><i>UUS1 implicit - discard with indication generated</i></p> <p>To verify that the IUT can successfully transit/accept a call with an UUS1 implicit request and set the user-to-user indicators to "user-to-user information discarded by the network" in the first backward message, if the network is unable to support it.</p> <p>NOTE: The user-to-user information is discarded because the network does not support it.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT such that the network does not support the UUS1 service.</p> | | | | |

| TSS | TP | ISUP v2 reference | Selection expression | Q.788 reference |
|---|-------------|---------------------------------------|----------------------|-----------------|
| UUS/UUS1_E/ | ISS_V_6_1_7 | 1.1.5.2.1.1.2; 1.1.5.2.2-4.1/Q.737 | OLE OR IntermE | 2.15.3 |
| <p>Test purpose</p> <p><i>UUS1 explicit non-essential - request</i></p> <p>To verify that the IUT can successfully initiate/transit a call with an UUS1 explicit non-essential request, by including/transferring the user-to-user information parameter and the user-to-user indicators in the IAM set to "request, not essential".</p> <p>Pre-test conditions (in case of OLE)</p> <p>Arrange the data in the IUT so that the user has subscribed to the UUS1 supplementary service.</p> | | | | |

| TSS | TP | ISUP v2 reference | Selection expression | Q.788 reference |
|--|-------------|---------------------------------------|----------------------|-----------------|
| UUS/UUS1_E/ | ISS_I_6_1_8 | 1.1.5.2.5.2.3; 1.1.5.2.2-4.2/Q.737 | OLE OR IntermE | 2.15.5 |
| <p>Test purpose</p> <p><i>UUS1 explicit non-essential - explicit rejection received</i></p> <p>To verify that the IUT can successfully initiate/transit a call with an UUS1 explicit non-essential request, and continue normal call set up if the UUS1 service is explicitly rejected (the user-to-user indicators parameter is received as "service not provided" in the ACM or CPG or ANM or CON or REL).</p> <p>NOTE: The user-to-user information is discarded because:</p> <ol style="list-style-type: none"> 1) the network is unable to pass the explicit service 1 in any message; 2) the remote user may not be able to interpret incoming UUS information. <p>Pre-test conditions (in case of OLE)</p> <p>Arrange the data in the IUT so that the user has subscribed to the UUS1 supplementary service.</p> | | | | |

| TSS | TP | ISUP v2 reference | Selection expression | Q.788 reference |
|--|-------------|---------------------------------------|----------------------|-----------------|
| UUS/UUS1_E/ | ISS_I_6_1_9 | 1.1.5.2.5.2.3; 1.1.5.2.2-4.2/Q.737 | OLE OR IntermE | 2.15.4 |
| <p>Test purpose</p> <p><i>UUS1 explicit non-essential - implicit (no explicit) rejection received</i></p> <p>To verify that the IUT can successfully initiate/transit a call with an UUS1 explicit non-essential request, and continue normal call set up if no indication is provided in the backward direction.</p> <p>NOTE: The user-to-user information is discarded because:</p> <ol style="list-style-type: none"> 1) the network is unable to pass the explicit service 1 in any message; 2) the remote user may not be able to interpret incoming UUS information. <p>Pre-test conditions (in case of OLE)</p> <p>Arrange the data in the IUT so that the user has subscribed to the UUS1 supplementary service.</p> | | | | |

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|--|--------------------|---|---|---------------------------|
| TSS UUS/UUS1_E/ | TP ISS_I_6_1_10 | ISUP v2 reference 1.1.5.2.2.2; table 1-1/Q.737 | Selection expression Gateway AND PICS A.9/5 | Q.788 reference 2.15.5 |
| <p>Test purpose</p> <p><i>UUS1 explicit non-essential rejection in Gateway</i></p> <p>To verify that the UUS1 explicit non-essential service can be rejected and the user-to-user indicators are in the ACM or CON set to "service 1 not provided".</p> <p>NOTE: The user-to-user service is rejected because:</p> <ol style="list-style-type: none"> 1) the Gateway received a CFN from the succeeding network (note 3 table 1-1). 2) the Gateway has received user-to-user information in the SGM (Basic call PICS A.13/7) and the succeeding network does not support the segmentation procedure (see note 2 in table 1-1/Q.737). | | | | |
| TSS UUS/UUS1_E/ | TP ISS_V_6_1_11 | ISUP v2 reference 1.1.5.2.1.1.2; 1.1.5.2.3-5.1/Q.737 | Selection expression IntermE OR DLE | Q.788 reference 2.15.3 |
| <p>Test purpose</p> <p><i>UUS1 explicit non-essential - acceptance</i></p> <p>To verify that the IUT can successfully transit/accept a call with an UUS1 explicit non-essential request, by transferring/including the user-to-user indicators parameter in the ACM, CPG, ANM, CON or REL set to "service provided".</p> <p>Pre-test conditions (in case of DLE) Arrange the data in the IUT so that the user has subscribed to the UUS1 supplementary service.</p> | | | | |
| TSS UUS/NO_UUS1_E/ | TP ISS_I_6_1_12 | ISUP v2 reference 1.1.5.2.5.2.2; 1.1.5.2.2-5.2 /Q.737 | Selection expression IntermE OR DLE | Q.788 reference 2.15.4 |
| <p>Test purpose</p> <p><i>UUS1 explicit non-essential - implicit (no explicit) rejection sent</i></p> <p>To verify that the IUT can transfer/accept a call with an UUS1 explicit non-essential request, and reject the service by not providing any user-to-user indicators parameter in the ACM, CPG, ANM, CON or REL.</p> <p>NOTE: The network or the user cannot support UUS1.</p> <p>Pre-test conditions (in case of DLE) Arrange the data in the IUT so that the network cannot support UUS1.</p> | | | | |
| TSS UUS/UUS1_E/ | TP ISS_V_6_1_13 | ISUP v2 reference 1.1.5.2.1.1.2; 1.1.5.2.2-5.1/Q.737 | Selection expression OLE OR IntermE | Q.788 reference 2.15.3 |
| <p>Test purpose</p> <p><i>UUS1 explicit essential - request</i></p> <p>To verify that the IUT can successfully originate/transit a call having an UUS1 explicit essential request, by including/transferring in the IAM the user-to-user information parameter, the user-to-user indicators set to "request, essential" and the ISDN user part preference indicator in the forward call indicators set to "ISUP required all the way".</p> <p>Pre-test conditions (in case of OLE) Arrange the data in the IUT so that the user has subscribed to the UUS1 supplementary service.</p> | | | | |

| TSS | TP | ISUP v2 reference | Selection expression | Q.788 reference |
|--|--------------|---------------------------------------|--|-------------------|
| UUS/UUS1_E/ | ISS_I_6_1_14 | 1.1.5.2.5.2.2; 1.1.5.2.2-5.2/Q.737 | OLE OR Gateway | None |
| <p>Test purpose</p> <p><i>UUS1 explicit essential - implicit rejection (no explicit acceptance received)</i></p> <p>To verify that the service can be rejected if no indication (no user-to-user indicators parameter or the service 1 field in the user-to-user indicators set to "no information" or "not provided") is received in the first backward message (implicit rejection of service 1).</p> <p>NOTE: The network does not understand the service 1 request. In this case the call should be released.</p> <p>Pre-test conditions (in case of OLE) Arrange the data in the IUT so that the user has subscribed to the UUS1 supplementary service.</p> | | | | |
| UUS/UUS1_E/ | ISS_V_6_1_15 | 1.1.5.2.1.1.2; 1.1.5.2.2-5.1/Q.737 | DLE OR InterME | 2.15.3 |
| <p>Test purpose</p> <p><i>UUS1 explicit essential - acceptance</i></p> <p>To verify that the IUT can successfully complete a call with an UUS1 explicit essential request having the user-to-user indicators parameter in the ACM, CPG, ANM, CON or REL set to "service provided".</p> <p>Pre-test conditions (in case of DLE) Arrange the data in the IUT so that the user has subscribed to the UUS1 supplementary service.</p> | | | | |
| UUS/NO_UUS1_E/ | ISS_I_6_1_16 | 1.1.5.2.5.2.2; 1.1.5.2.2-5.2/Q.737 | DLE OR InterME | 2.15.6; 2.15.7 |
| <p>Test purpose</p> <p><i>UUS1 explicit essential - rejection</i></p> <p>To verify that the service can be rejected with a REL having the Cause value 29 "facility rejected" or 69 "requested facility not implemented", either with diagnostics (specifying the name of the user-to-user indicator parameter).</p> <p>NOTE: The network or the called user cannot support the service</p> | | | | |
| UUS/UUS1_E/ | ISS_V_6_1_17 | 1.1.6.13.2; 1.1.6.13.3 /Q.737 | Local AND (PICS A.9/6 OR PICS A.9/8) | None |
| <p>Test purpose</p> <p><i>UUS1 interaction with UUS2 (or UUS3) - successful request</i></p> <p>To verify that more than one supplementary services may be requested at call set up.</p> <p>Pre-test conditions Arrange the data in the IUT so that the user has subscribed to the UUS1 and UUS2 (or UUS3) supplementary services.</p> | | | | |

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| TSS UUS/UUS1_E/ | TP ISS_V_6_1_18 | ISUP v2 reference 1.1.6.13.2; 1.1.6.13.3/Q.737 | Selection expression DLE AND (PICS A.9/6 OR PICS A.9/8) | Q.788 reference None |
| <p>Test purpose</p> <p><i>UUS1 interaction with UUS2 (or UUS3) - unsuccessful request</i></p> <p>To verify that the services can be rejected with a REL having the Cause value # 29 "facility rejected" or # 69 "requested facility not implemented", either with diagnostics (user-to-user indicators name), if more services are requested, one of them is essential and it cannot be provided.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT so that the user has subscribed to the UUS1 and UUS2 (or UUS3) supplementary services.</p> | | | | |
| TSS UUS/UUS1_E/ | TP ISS_V_6_1_19 | ISUP v2 reference 1.1.6.13.2; 1.1.6.13.3/Q.737 | Selection expression Local AND (PICS A.9/6 OR PICS A.9/8) | Q.788 reference None |
| <p>Test purpose</p> <p><i>UUS1 interaction with UUS2 (or UUS3) - independent acceptance or rejection of the services</i></p> <p>To verify that the IUT can successfully complete a call with an UUS1 explicit non-essential request, having the user-to-user indicators parameter in the ACM, CPG, ANM, CON or REL set to "service provided". At the same time the UUS2 (or UUS3) service can be rejected and the user-to-user indicators in the ACM, CPG, ANM, CON or REL are set to "service 2 (or 3) not provided".</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT so that the user has subscribed to the UUS1 and UUS2 (or UUS3) supplementary services.</p> | | | | |
| TSS UUS/UUS1_E/ | TP ISS_V_6_1_20 | ISUP v2 reference 1.1.6.13.3; 1.1.6.13.1/Q.737 | Selection expression Local AND PICS A.9/8 | Q.788 reference None |
| <p>Test purpose</p> <p><i>UUS1 interaction with UUS3 requested after call set up</i></p> <p>To verify that the IUT can successfully originate/complete a call with UUS1, having requested UUS3 after call set up. The Service 1 field in the user-to-user indicators in the FAR, FAA or FRJ for UUS1 is then set to "no information".</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT so that the user has subscribed to the UUS1 and UUS3 supplementary services.</p> | | | | |
| TSS UUS/UUS1_E/ | TP ISS_V_6_1_21 | ISUP v2 reference 1.1.6.15/Q.737 | Selection expression Local AND PICS A.3/16 (HOLD) | Q.788 reference None |
| <p>Test purpose</p> <p><i>UUS1 interaction with HOLD - to a held party</i></p> <p>To verify that the IUT can successfully complete a call including an user-to-user information (service 1) to a held party during the clearing phase of a call.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT so that the user has subscribed to the UUS1 and HOLD supplementary services.</p> | | | | |

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|--|--------------------|--|---|-------------------------|
| TSS UUS/UUS1_E/ | TP ISS_V_6_1_22 | ISUP v2 reference 1.1.6.15/Q.737 | Selection expression Local AND PICS A.3/16 (HOLD) | Q.788 reference None |
| <p>Test purpose</p> <p><i>UUS1 interaction with HOLD - from a held party</i></p> <p>To verify that the IUT can successfully complete a call including an user-to-user information (service 1) from a held party during the clearing phase of a call.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT so that the remote user has subscribed to the UUS1 and HOLD supplementary services.</p> | | | | |
| TSS UUS/UUS1_E/ | TP ISS_V_6_1_23 | ISUP v2 reference 11.17/ ETS 300 356-18 [17] | Selection expression OLE AND PICS A.3/18 | Q.788 reference None |
| <p>Test purpose</p> <p><i>New UUS1 requested in CCBS recall</i></p> <p>To verify that the IUT does not store any user-to-user information contained in the original call. The CCBS call (IAM) sent by the IUT should not contain any user-to-user information if no new user-to-user information is provided from the served user in response to the CCBS recall.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT so that the user has subscribed to the UUS1 and CCBS supplementary services.</p> | | | | |
| TSS UUS/UUS1_E/ | TP ISS_V_6_1_24 | ISUP v2 reference 11.17/ ETS 300 356-18 [17] | Selection expression OLE AND PICS A.3/18 | Q.788 reference None |
| <p>Test purpose</p> <p><i>UUS1 interaction with CCBS</i></p> <p>To verify that the IUT is able to include user-to-user information in the CCBS call (IAM) if the served user includes user-to-user information in response to the CCBS recall.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT so that the user has subscribed to the UUS1 and CCBS supplementary services.</p> | | | | |
| TSS UUS/UUS2/ | TP ISS_V_6_2_1 | ISUP v2 reference 1.2.2.1/Q.737 | Selection expression OLE AND PICS A.9/1 | Q.788 reference None |
| <p>Test purpose</p> <p><i>32 octets user-to-user information</i></p> <p>To verify that the IUT can successfully initiate a call having 32 octets of user-to-user information in the USR messages during call set up.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT so that the user has subscribed to the UUS2 supplementary service.</p> | | | | |

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| TSS UUS/UUS2/ | TP ISS_V_6_2_2 | ISUP v2 reference 1.2.5.2.1.1.2; 1.2.5.2.2-5.1/Q.737 | Selection expression OLE OR Interme | Q.788 reference 2.16.1 |
| <p>Test purpose</p> <p><i>UUS2 explicit non-essential - request</i></p> <p>To verify that the IUT can successfully originate/transit a call with an UUS2 explicit non-essential request, having the user-to-user indicators in the IAM set to "request, not essential".</p> <p>Pre-test conditions (in case of OLE) Arrange the data in the IUT so that the user has subscribed to the UUS2 supplementary service.</p> | | | | |
| TSS UUS/UUS2/ | TP ISS_V_6_2_3 | ISUP v2 reference 1.2.5.2.1.1.2; 1.2.5.2.2-5.1/Q.737 | Selection expression DLE OR Interme | Q.788 reference 2.16.1 |
| <p>Test purpose</p> <p><i>UUS2 explicit non-essential - acceptance</i></p> <p>To verify that the IUT can successfully complete a call with an UUS2 explicit non-essential request, having the user-to-user indicators parameter in the ACM or CPG set to "service provided".</p> <p>Pre-test conditions (in case of DLE) Arrange the data in the IUT so that the user has subscribed to the UUS2 supplementary service.</p> | | | | |
| TSS UUS/NO_UUS2/ | TP ISS_I_6_2_4 | ISUP v2 reference 1.2.5.2.5.2.2; 1.2.5.2.2-5.2/Q.737 | Selection expression DLE or Interme | Q.788 reference 2.16.3 |
| <p>Test purpose</p> <p><i>UUS2 explicit non-essential - explicit rejection (service not provided)</i></p> <p>To verify that the UUS2 service can be rejected and the user-to-user indicators in the ACM or CPG are set to "service 2 not provided".</p> <p>NOTE: The network or the user cannot support UUS2.</p> | | | | |
| TSS UUS/NO_UUS2/ | TP ISS_I_6_2_5 | ISUP v2 reference 1.2.5.2.5.2.3; 1.2.5.2.2-5.2/Q.737 | Selection expression DLE or Interme | Q.788 reference 2.16.2 |
| <p>Test purpose</p> <p><i>UUS2 explicit non-essential - implicit rejection (no indication)</i></p> <p>To verify that the IUT can successfully complete a call with an UUS2 explicit non-essential request, if no indication is provided in the backward direction.</p> <p>NOTE: The network or the user cannot support UUS2</p> | | | | |
| TSS UUS/UUS2/ | TP ISS_V_6_2_6 | ISUP v2 reference 1.2.5.2.1.1.2; 1.2.5.2.2-5.1/Q.737 | Selection expression OLE OR Interme | Q.788 reference 2.16.1 |
| <p>Test purpose</p> <p><i>UUS2 explicit essential - request</i></p> <p>To verify that the IUT can successfully originate/transit a call having an UUS2 explicit essential request, having the user-to-user indicators set to "request, essential" and the ISDN user part preference indicator of the forward call indicators in the IAM set to "ISUP required".</p> <p>Pre-test conditions (in case of OLE) Arrange the data in the IUT so that the user has subscribed to the UUS2 supplementary service.</p> | | | | |

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| TSS UUS/UUS2/ | TP ISS_V_6_2_7 | ISUP v2 reference 1.2.5.2.1.1.2; 1.2.5.2.2-5.1/Q.737 | Selection expression DLE OR InterME | Q.788 reference 2.16.1 |
| <p>Test purpose</p> <p><i>UUS2 explicit essential - acceptance</i></p> <p>To verify that the IUT can successfully complete a call having an UUS2 explicit essential request having the user-to-user indicators parameter in the ACM or CPG set to "service provided".</p> <p>Pre-test conditions (in case of DLE) Arrange the data in the IUT so that the user has subscribed to the UUS2 supplementary service.</p> | | | | |
| TSS UUS/NO_UUS2/ | TP ISS_I_6_2_8 | ISUP v2 reference 1.2.5.2.5.2.1; 1.2.5.2.2-5.2/Q.737 | Selection expression DLE OR InterME | Q.788 reference 2.16.4; 2.16.5 |
| <p>Test purpose</p> <p><i>UUS2 explicit essential - rejection</i></p> <p>To verify that the service can be rejected with a REL with the Cause value 29 "facility rejected" or 69 "requested facility not implemented" or value 88 "incompatible destination", all with diagnostics (user-to-user indicators name).</p> | | | | |
| TSS UUS/UUS2/ | TP ISS_I_6_2_9 | ISUP v2 reference 1.2.5.2.5.2.1; 1.2.5.2.2-5.2/Q.737 | Selection expression OLE OR InterME | Q.788 reference None |
| <p>Test purpose</p> <p><i>UUS2 explicit essential - implicit rejection</i></p> <p>To verify that the service can be rejected if no indication is received (no user-to-user indicators parameter) in the first backward message (implicit rejection of service 2).</p> <p>NOTE: The remote network does not understand the service 2 request or the remote user cannot support UUS2.</p> <p>Pre-test conditions (in case of OLE) Arrange the data in the IUT so that the user has subscribed to the UUS2 supplementary service.</p> | | | | |
| TSS UUS/UUS2/ | TP ISS_V_6_2_10 | ISUP v2 reference 1.2.5.2.1.1.2/Q.737 | Selection expression OLE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Discard the user-to-user information if more than two messages received during a call set up</i></p> <p>To verify that the IUT discards the user-to-user service information in the additional message if more than two messages are received during the call set up (in each direction).</p> <p>Pre-test conditions Arrange the data in the IUT so that the user has subscribed to the UUS2 supplementary service.</p> | | | | |
| TSS UUS/UUS2/ | TP ISS_I_6_2_11 | ISUP v2 reference 1.2.5.2.1.1.2/Q.737 | Selection expression OLE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Pass on one of the USR received just after ANM</i></p> <p>To verify that the IUT can successfully pass on one of the USR messages received just after the answer state has been reached.</p> <p>Pre-test conditions Arrange the data in the IUT so that the user has subscribed to the UUS2 supplementary service.</p> | | | | |

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| TSS UUS/NO_UUS2/ | TP ISS_I_6_2_12 | ISUP v2 reference 1.2.5.2.2.2; table 1-2; 1.2.7/Q.737 | Selection expression Gateway AND PICS A.9/5 | Q.788 reference 2.16.3 |
| <p>Test purpose</p> <p><i>Explicit rejection in Gateway</i></p> <p>To verify that the UUS2 explicit non-essential service can be rejected and the user-to-user indicators in the ACM or CON are set to "service 2 not provided".</p> <p>NOTE: The user-to-user service is rejected because the Gateway received a CFN from the succeeding network (see note 2 in table 1-2/Q.737).</p> | | | | |
| TSS UUS/UUS2/ | TP ISS_I_6_2_13 | ISUP v2 reference 1.2.2.1/Q.737 | Selection expression DLE AND PICS A.9/7 | Q.788 reference None |
| <p>Test purpose</p> <p><i>Deliver user-to-user information in USR after ANM</i></p> <p>To verify that the IUT can successfully deliver the user-to-user information in the USR message to the called user after the answer state has been reached.</p> <p>Pre-test conditions Arrange the data in the IUT so that the user has subscribed to the UUS2 supplementary service.</p> | | | | |
| TSS UUS/UUS2/ | TP ISS_V_6_2_14 | ISUP v2 reference 1.2.6.13.1; 1.2.6.13.3/Q.737 | Selection expression Local AND (PICS A.9/4 OR PICS A.9/8) | Q.788 reference None |
| <p>Test purpose</p> <p><i>UUS2 interaction with UUS1 (or UUS3) - unsuccessful request</i></p> <p>To verify that the services can be rejected with a REL with Cause value # 29 "facility rejected" or # 69 "requested facility not implemented", either with diagnostics (user-to-user indicators name), if more services are requested, one of them is essential and it cannot be provided.</p> <p>Pre-test conditions Arrange the data in the IUT so that the user has subscribed to the UUS1 and UUS2 (or UUS3) supplementary services.</p> | | | | |
| TSS UUS/UUS2/ | TP ISS_V_6_2_15 | ISUP v2 reference 1.2.6.13.1; 1.2.6.13.3/Q.737 | Selection expression Local AND (PICS A.9/4 OR PICS A.9/8) | Q.788 reference None |
| <p>Test purpose</p> <p><i>UUS2 interaction with UUS1 (or UUS3) - independent acceptance or rejection of the services</i></p> <p>To verify that the IUT can successfully complete a call with an UUS2 explicit non-essential request, having the user-to-user indicators parameter set to "service provided" in the ACM or CPG. At the same time the UUS1 (or UUS3) service can be rejected and the user-to-user indicators in the ACM, CPG, ANM, CON or REL are set to "service 1 (or 3) not provided".</p> <p>Pre-test conditions Arrange the data in the IUT so that the user has subscribed to the UUS1 and UUS2 (or UUS3) supplementary services.</p> | | | | |

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| TSS UUS/UUS2/ | TP ISS_V_6_2_16 | ISUP v2 reference 1.2.6.13.3; 1.2.6.13.1/Q.737 | Selection expression Local AND PICS A.9/8 | Q.788 reference None |
| <p>Test purpose</p> <p><i>UUS2 interaction with UUS3 requested after call set up</i></p> <p>To verify that the IUT can successfully originate/complete a call with UUS2 and UUS3 service requested after call set up. The Service 2 field of the user-to-user indicators in the FAR, FAA or FRJ is then set to "no information".</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT so that the user has subscribed to the UUS2 and UUS3 supplementary services.</p> | | | | |

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| TSS UUS/UUS3/ | TP ISS_V_6_3_1 | ISUP v2 reference 1.3.2.1/Q.737 | Selection expression OLE AND PICS A.9/1 | Q.788 reference None |
| <p>Test purpose</p> <p><i>32 octets user-to-user information</i></p> <p>To verify that the IUT can successfully initiate a call having 32 octets of user-to-user information in each message.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT so that the user has subscribed to the UUS3 supplementary service.</p> | | | | |

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| TSS UUS/UUS3/ | TP ISS_V_6_3_2 | ISUP v2 reference 1.3.2.1/Q.737 | Selection expression OLE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Rejection of UUS3 after call set up, if rejected at call set up</i></p> <p>To verify that the IUT can reject an UUS3 request after call set up, if it has been rejected at the call set up.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT so that the user has subscribed to the UUS3 supplementary service.</p> | | | | |

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| TSS UUS/UUS3/ | TP ISS_V_6_3_3 | ISUP v2 reference 1.3.5.2.1.1.2; 1.3.5.2.2-5.1/Q.737 | Selection expression OLE OR InterME | Q.788 reference 2.17.1 |
| <p>Test purpose</p> <p><i>UUS3 explicit non-essential - request</i></p> <p>To verify that the IUT can successfully originate/transit a call with an UUS3 explicit non-essential request, having the user-to-user indicators in the IAM set to "request, not essential".</p> <p>Pre-test conditions (in case of OLE)</p> <p>Arrange the data in the IUT so that the user has subscribed to the UUS3 supplementary service.</p> | | | | |

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| TSS UUS/UUS3/ | TP ISS_V_6_3_4 | ISUP v2 reference 1.3.5.2.1.1.2; 1.3.5.2.2-5.1/Q.737 | Selection expression DLE OR InterME | Q.788 reference 2.17.1 |
| <p>Test purpose</p> <p><i>UUS3 explicit non-essential - acceptance</i></p> <p>To verify that the IUT can successfully complete a call with an UUS3 explicit non-essential request, having the Service 3 field in the user-to-user indicators parameter in the ANM or CON set to "service provided".</p> <p>Pre-test conditions (in case of DLE)</p> <p>Arrange the data in the IUT so that the user has subscribed to the UUS3 supplementary service.</p> | | | | |

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| TSS UUS/NO_UUS3/ | TP ISS_I_6_3_5 | ISUP v2 reference 1.3.5.2.5.2.3; 1.3.5.2.2-5.2/Q.737 | Selection expression DLE OR IntermeE | Q.788 reference 2.17.2 |
| <p>Test purpose</p> <p><i>UUS3 explicit non-essential - implicit rejection (no indication)</i></p> <p>To verify that the IUT can successfully complete a call with an UUS3 explicit non-essential request, if no indication is provided in the backward direction.</p> <p>NOTE: The network or the user cannot support UUS3.</p> | | | | |
| TSS UUS/NO_UUS3/ | TP ISS_I_6_3_6 | ISUP v2 reference 1.3.5.2.5.2.2; 1.3.5.2.2-5.2/Q.737 | Selection expression DLE OR IntermeE | Q.788 reference 2.17.3 |
| <p>Test purpose</p> <p><i>UUS3 explicit non-essential - explicit rejection (service not provided)</i></p> <p>To verify that the UUS3 service can be rejected and the Service 3 field in the user-to-user indicators in the ANM or CON are set to "service 3 not provided".</p> <p>NOTE: The network or the called user cannot support UUS3.</p> | | | | |
| TSS UUS/UUS3/ | TP ISS_V_6_3_7 | ISUP v2 reference 1.3.5.2.1.1.2; 1.3.5.2.2-5.1/Q.737 | Selection expression OLE OR IntermeE | Q.788 reference 2.17.1 |
| <p>Test purpose</p> <p><i>UUS3 explicit essential - request</i></p> <p>To verify that the IUT can successfully originate/transit a call with an UUS3 explicit essential request, having in the IAM the user-to-user indicators set to "request, essential" and the ISDN user part preference indicator in the forward call indicators set to "ISUP required all the way".</p> <p>Pre-test conditions (in case of OLE/DLE) Arrange the data in the IUT so that the user has subscribed to the UUS3 supplementary service.</p> | | | | |
| TSS UUS/UUS3/ | TP ISS_V_6_3_8 | ISUP v2 reference 1.3.5.2.1.1.2; 1.3.5.2.2-5.1/Q.737 | Selection expression DLE OR IntermeE | Q.788 reference 2.17.1 |
| <p>Test purpose</p> <p><i>UUS3 explicit essential - acceptance</i></p> <p>To verify that the IUT can successfully complete a call with an UUS3 explicit essential request having in the ANM or CON the Service 3 field of the user-to-user indicators parameter set to "service provided".</p> <p>Pre-test conditions (in case of OLE/DLE) Arrange the data in the IUT so that the user has subscribed to the UUS3 supplementary service.</p> | | | | |
| TSS UUS/NO_UUS3/ | TP ISS_I_6_3_9 | ISUP v2 reference 1.3.5.2.5.2.2; 1.3.5.2.2-5.2/Q.737 | Selection expression DLE OR IntermeE | Q.788 reference 2.17.4 |
| <p>Test purpose</p> <p><i>UUS3 explicit essential - explicit rejection</i></p> <p>To verify that the service can be rejected with a REL having the Cause value # 29 "facility rejected", # 69 "requested facility not implemented", either with diagnostics (user-to-user indicators name).</p> <p>NOTE: The network or the called user cannot support the service</p> | | | | |

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| TSS UUS/UUS3/ | TP ISS_V_6_3_10 | ISUP v2 reference 1.3.5.2.1.1.2; 1.3.5.2.2-5.1/Q.737 | Selection expression OLE OR InterME | Q.788 reference 2.17.6 |
| <p>Test purpose</p> <p><i>UUS3 explicit non-essential - request during the active phase of the call</i></p> <p>To verify that the IUT can successfully generate/transit an UUS3 explicit non-essential request, with a FAR having the facility indicator parameter set to "user-to-user service" and the Service 3 field in the user-to-user indicators set to "request, not essential".</p> <p>Pre-test conditions (in case of OLE) Arrange the data in the IUT so that the user has subscribed to the UUS3 supplementary service.</p> | | | | |
| TSS UUS/UUS3/ | TP ISS_V_6_3_11 | ISUP v2 reference 1.3.5.2.1.1.2; 1.3.5.2.2-5.1/Q.737 | Selection expression DLE OR InterME | Q.788 reference 2.17.5 |
| <p>Test purpose</p> <p><i>UUS3 explicit non-essential - acceptance during call</i></p> <p>To verify that the IUT can successfully reply to an UUS3 explicit non-essential request with a FAA having the facility indicator parameter set to "user-to-user service" and the Service 3 field in the user-to-user indicators parameter set to "service provided".</p> <p>Pre-test conditions (in case of DLE) Arrange the data in the IUT so that the user has subscribed to the UUS3 supplementary service.</p> | | | | |
| TSS UUS/UUS3/ | TP ISS_I_6_3_12 | ISUP v2 reference table 1-3 ; 1.3.7.1/Q.737 | Selection expression Gateway AND PICS A.9/5 | Q.788 reference 2.17.3 |
| <p>Test purpose</p> <p><i>UUS3 explicit non-essential - explicit rejection in the Gateway</i></p> <p>To verify that the UUS3 explicit non-essential service can be rejected and the Service 3 field in the user-to-user indicators in the ACM or CON are set to "service 3 not provided".</p> <p>NOTE: The user-to-user service is rejected because the Gateway received e.g. a CFN from the succeeding network (note 2 in table 1-3/Q.737).</p> | | | | |
| TSS UUS/UUS3/ | TP ISS_I_6_3_13 | ISUP v2 reference 1.3.5.2.5.2.2/Q.737 | Selection expression InterME | Q.788 reference None |
| <p>Test purpose</p> <p><i>UUS3 explicit non-essential - implicit rejection during call (no indication - discard FAA or FRJ)</i></p> <p>To verify that the IUT can successfully complete a call with an UUS3 request in the FAR, if the FAA or FRJ are discarded.</p> <p>NOTE: The FAA or FRJ are discarded because the FAR contains unrecognized or inconsistent information.</p> | | | | |
| TSS UUS/UUS3/ | TP ISS_I_6_3_14 | ISUP '97 reference 1.3.5.2.5.2.2 /Q.737 | Selection expression InterME | Q.788 reference None |
| <p>Test purpose</p> <p><i>UUS3 explicit non-essential - explicit rejection during call (service not provided - in FRJ)</i></p> <p>To verify that the UUS3 explicit non-essential service can be rejected during the active phase of the call and the Service 3 field in the user-to-user indicators in the FRJ are set to "service 3 not provided".</p> | | | | |

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| TSS UUS/UUS3/ | TP ISS_V_6_3_15 | ISUP v2 reference 1.3.6.13.1; 1.3.6.13.2/Q.737 | Selection expression Local AND (PICS A.9/4 OR PICS A.9/6) | Q.788 reference None |
| <p>Test purpose</p> <p><i>UUS3 interaction with UUS1 (or UUS2) - unsuccessful request</i></p> <p>To verify that the services can be rejected with a REL having the Cause value # 29 "facility rejected" or # 69 "requested facility not implemented", either with diagnostics (user-to-user indicators name),. if more services are requested one of them essential which cannot be provided.</p> <p>Pre-test conditions Arrange the data in the IUT so that the user has subscribed to the UUS3 and UUS1 or (UUS2) supplementary services.</p> | | | | |
| TSS UUS/UUS3/ | TP ISS_V_6_3_16 | ISUP v2 reference 1.3.6.13.1; 1.3.6.13.2/Q.737 | Selection expression Local AND (PICS A.9/4 OR PICS A.9/6) | Q.788 reference None |
| <p>Test purpose</p> <p><i>UUS3 interaction with UUS1 (or UUS2) - Independent acceptance or rejection of the services</i></p> <p>To verify that the IUT can successfully complete a call with an UUS3 explicit non-essential request, having the Service 3 field in the user-to-user indicators parameter set to "service provided" in ANM or CON. At the same time the UUS1 (or UUS2) service can be rejected and the user-to-user indicators in the ACM or CPG or ANM or CON or REL are set to "service 1 (or 2) not provided".</p> <p>Pre-test conditions Arrange the data in the IUT so that the user has subscribed to the UUS3 and UUS1 (or UUS2) supplementary services.</p> | | | | |
| TSS UUS/UUS3/ | TP ISS_V_6_3_17 | ISUP v2 reference 1.3.6.18/Q.737 | Selection expression OLE | Q.788 reference None |
| <p>Test purpose</p> <p><i>UUS3 interaction with TP - FAR sent while call is suspended</i></p> <p>To verify that if the FAR is received while a call is suspended, the IUT returns a FRJ with the Service 3 field in the user-to-user indicators set to "Service 3 not provided".</p> <p>Pre-test conditions Arrange the data in the IUT so that the user has subscribed to the UUS3 and TP supplementary services.</p> | | | | |

5.2.7 Closed User Group (CUG)

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| TSS CUG/ | TP ISS_V_7_1 | ISUP v2 reference 1.5.2.1.1 i) a)/Q.735 | Selection expression OLE | Q.788 reference 2.4.4; 2.4.5 |
| <p>Test purpose</p> <p><i>CUG without outgoing access in IAM</i></p> <p>To verify that the IUT can successfully establish a CUG call by including the CUG interlock code together with an indication of "CUG call, outgoing access not allowed" in the optional forward call indicators in the IAM. The ISUP preference indicator of the forward call indicators in the IAM should be set to "ISUP required all the way".</p> <p>Pre-test conditions Arrange the data in the IUT such that the calling party subscribes to the CUG without outgoing access supplementary service.</p> | | | | |

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| TSS CUG/ | TP ISS_V_7_2 | ISUP v2 reference 1.5.2.2.1; 1.5.2.3.1; 1.5.2.4.1/Q.735 | Selection expression InterME | Q.788 reference 2.4.4; 2.4.5 |
| <p>Test purpose</p> <p><i>Transfer of information related to CUG</i></p> <p>To verify that the IUT can successfully transfer all information related to a CUG call, i.e. CUG interlock code together with an indication of "CUG call, outgoing access not allowed" in the optional forward call indicators in the IAM.</p> | | | | |
| TSS CUG/ | TP ISS_V_7_3 | ISUP v2 reference 1.5.2.3.1; 1.5.2.4.1/Q.735 | Selection expression Gateway AND PICS A.10/3 | Q.788 reference None |
| <p>Test purpose</p> <p><i>Conversion of the interlock code</i></p> <p>To verify that the IUT can successfully convert a national into an international CUG interlock code (or vice versa) and that the indication "CUG call, outgoing access not allowed" in the optional forward call indicators in the IAM is passed on transparently.</p> | | | | |
| TSS NO_CUG/ | TP ISS_I_7_4 | ISUP v2 reference 1.5.2.4.2/Q.735, table 1-1/Q.735 | Selection expression InclE AND NOT PICS A.3/7 AND PICS A.8/2 | Q.788 reference 2.4.9 |
| <p>Test purpose</p> <p><i>CUG call without outgoing access, action at the gateway with network without CUG capability</i></p> <p>To verify that the IUT rejects a CUG call if the contents of the CUG call indicator is set to "CUG call, outgoing access not allowed" in optional forward call indicators in IAM and the succeeding national network does not support CUG. The IUT should respond with a REL with cause #29 "Facility rejected" and include the parameter name in the diagnostics field.</p> <p>Pre-test conditions A route to a network without CUG capability must be available in the IUT.</p> | | | | |
| TSS NO_CUG/ | TP ISS_I_7_5 | ISUP v2 reference 1.5.2.4.2/Q.735, table 1-1/Q.735 | Selection expression InclE AND NOT PICS A.3/7 AND PICS A.8/2 | Q.788 reference 2.4.3 |
| <p>Test purpose</p> <p><i>CUG call with outgoing access, action at the gateway interworking with network without CUG capability</i></p> <p>To verify that the IUT proceeds with normal call setup if the contents of the CUG call indicator is received as "CUG call, outgoing access allowed" in optional forward call indicators in IAM and the succeeding national network does not support CUG.</p> <p>Pre-test conditions A route to a network without CUG capability must be available in the IUT</p> | | | | |
| TSS CUG/ | TP ISS_V_7_6 | ISUP v2 reference 1.5.2.5.1; table 1-2/Q.735 | Selection expression DLE | Q.788 reference 2.4.4 |
| <p>Test purpose</p> <p><i>CUG call without outgoing access; class of called user: CUG without IA, no ICB activated</i></p> <p>To verify that the IUT can successfully establish a CUG call.</p> <p>Pre-test conditions Arrange the data in the IUT such that the called party subscribes to CUG and no incoming calls are barred.</p> | | | | |

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| TSS CUG/ | TP ISS_V_7_7 | ISUP v2 reference 1.5.2.5.1; table 1-2/Q.735 | Selection expression DLE | Q.788 reference 2.4.1 |
| <p>Test purpose</p> <p><i>CUG call with outgoing access; class of called user: CUG without IA, no ICB activated</i></p> <p>To verify that the IUT can successfully establish a CUG call.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT such that the called party subscribes to CUG and no incoming calls are barred.</p> | | | | |
| TSS CUG/ | TP ISS_V_7_8 | ISUP v2 reference 1.5.2.5.1; table 1-2/Q.735 | Selection expression DLE | Q.788 reference 2.4.8 |
| <p>Test purpose</p> <p><i>CUG call without outgoing access; class of called user: CUG without IA, ICB activated</i></p> <p>To verify that the IUT rejects the CUG call with cause # 55 "Incoming calls barred within CUG" in the REL.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT such that the called party subscribes to CUG and the incoming calls are barred (ICB).</p> | | | | |
| TSS CUG/ | TP ISS_V_7_9 | ISUP v2 reference 1.5.2.5.1; table 1-2/Q.735 | Selection expression DLE | Q.788 reference None |
| <p>Test purpose</p> <p><i>CUG call with outgoing access; class of called user: CUG without IA, ICB activated</i></p> <p>To verify that the IUT rejects the CUG call with cause # 55 "Incoming calls barred within CUG" in the REL.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT such that the called party subscribes to CUG and the incoming calls are barred (ICB).</p> | | | | |
| TSS CUG/ | TP ISS_V_7_10 | ISUP v2 reference 1.5.2.5.1; table 1-2/Q.735 | Selection expression DLE | Q.788 reference None |
| <p>Test purpose</p> <p><i>CUG call without outgoing access; class of called user: CUG with IA and no ICB activated</i></p> <p>To verify that the IUT can successfully establish a CUG call.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT such that the called party subscribes to the CUG with Incoming Access (IA) and no incoming calls are barred.</p> | | | | |
| TSS CUG/ | TP ISS_V_7_11 | ISUP v2 reference 1.5.2.5.1; table 1-2/Q.735 | Selection expression DLE | Q.788 reference None |
| <p>Test purpose</p> <p><i>CUG call with outgoing access; class of called user: CUG with IA and no ICB activated</i></p> <p>To verify that the IUT can successfully establish a CUG call with outgoing access.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT such that the called party subscribes to the CUG with Incoming Access (IA) and no incoming calls are barred.</p> | | | | |

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| TSS CUG/ | TP ISS_V_7_12 | ISUP v2 reference 1.5.2.5.1; table 1-2/Q.735 | Selection expression DLE | Q.788 reference None |
| <p>Test purpose</p> <p><i>CUG call without outgoing access; class of called user: CUG with IA and ICB activated</i></p> <p>To verify that the IUT rejects the CUG call with cause # 55 "Incoming calls barred within CUG" in the REL.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT such that the called party subscribes to the CUG with Incoming access (IA) and the incoming calls are barred (ICB).</p> | | | | |
| TSS CUG/ | TP ISS_V_7_13 | ISUP v2 reference 1.5.2.5.1; table 1-2/Q.735 | Selection expression DLE | Q.788 reference None |
| <p>Test purpose</p> <p><i>CUG call with outgoing access; class of called user: CUG with IA and ICB activated</i></p> <p>To verify that the IUT can successfully establish a non-CUG call.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT such that the called party subscribes to the CUG with Incoming access (IA) and the incoming calls are barred (ICB).</p> | | | | |
| TSS CUG/ | TP ISS_V_7_14 | ISUP v2 reference 1.5.2.5.1; table 1-2/Q.735 | Selection expression DLE | Q.788 reference 2.4.5 |
| <p>Test purpose</p> <p><i>CUG call without outgoing access; class of called user: non-CUG</i></p> <p>To verify that the IUT rejects the CUG call with cause # 87 "User not member of CUG" in the REL.</p> <p>Pre-test conditions</p> <p>Called user is not member of CUG.</p> | | | | |
| TSS CUG/ | TP ISS_V_7_15 | ISUP v2 reference 1.5.2.5.1; table 1-2/Q.735 | Selection expression DLE | Q.788 reference 2.4.2 |
| <p>Test purpose</p> <p><i>CUG call with outgoing access; class of called user: non-CUG</i></p> <p>To verify that the IUT can successfully establish a non-CUG call</p> <p>Pre-test conditions</p> <p>Called user is not member of CUG.</p> | | | | |
| TSS CUG/ | TP ISS_V_7_16 | ISUP v2 reference 1.5.2.5.1; table 1-2/Q.735 | Selection expression DLE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Non-CUG call; class of called user: CUG without IA</i></p> <p>To verify that the IUT rejects the CUG call with cause # 87 " User not member of CUG " in the REL.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT such that the called party subscribes to CUG.</p> | | | | |

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|--|------------------|--|-----------------------------|--------------------------|
| TSS CUG/ | TP ISS_V_7_17 | ISUP v2 reference 1.5.2.5.1; table 1-2/Q.735 | Selection expression DLE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Non-CUG call; class of called user: CUG with IA</i></p> <p>To verify that the IUT can successfully establish a non-CUG call.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT such that the called party subscribes to CUG with Incoming Access (IA).</p> | | | | |
| TSS CUG/ | TP ISS_V_7_18 | ISUP v2 reference 1.5.2.5.1; table 1-2/Q.735 | Selection expression DLE | Q.788 reference None |
| <p>Test purpose</p> <p><i>CUG call without outgoing access; class of called user: other CUG without IA</i></p> <p>To verify that the IUT rejects the CUG call with cause # 87 " User not member of CUG " in the REL.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT such that the called party subscribes to another CUG than that of calling user.</p> | | | | |
| TSS CUG/ | TP ISS_V_7_19 | ISUP v2 reference 1.5.2.5.1; table 1-2/Q.735 | Selection expression DLE | Q.788 reference 2.4.6 |
| <p>Test purpose</p> <p><i>CUG call with outgoing access; class of called user: other CUG without IA</i></p> <p>To verify that the IUT rejects the CUG call with cause # 87 " User not member of CUG " in the REL.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT such that the called party subscribes to another CUG than that of calling user.</p> | | | | |
| TSS CUG/ | TP ISS_V_7_20 | ISUP v2 reference 1.5.2.5.1; table 1-2/Q.735 | Selection expression DLE | Q.788 reference None |
| <p>Test purpose</p> <p><i>CUG call without outgoing access; class of called user: other CUG with IA</i></p> <p>To verify that the IUT rejects the CUG call with cause # 87 "User not member of CUG" in the REL.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT such that the called party subscribes to another CUG than that of calling user, and that incoming access (IA) is allowed.</p> | | | | |
| TSS CUG/ | TP ISS_V_7_21 | ISUP v2 reference 1.5.2.5.1; table 1-2/Q.735 | Selection expression DLE | Q.788 reference 2.4.7 |
| <p>Test purpose</p> <p><i>CUG call with outgoing access; class of called user: other CUG with IA</i></p> <p>To verify that the IUT can successfully establish a non-CUG call</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT such that the called party subscribes to another CUG than that of calling user, and that incoming access (IA) is allowed.</p> | | | | |

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|---|------------------|--------------------------------------|-----------------------------|-------------------------|
| TSS CUG/ | TP ISS_I_7_22 | ISUP v2 reference 1.5.2.5.2/Q.735 | Selection expression DLE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Non-CUG call with CUG interlock code in IAM</i></p> <p>To verify that the IUT rejects the call with cause # 111 "Protocol error, unspecified" in the REL, if a non-CUG call has a CUG interlock code in the IAM.</p> | | | | |

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|---|------------------|--------------------------------------|-----------------------------|-------------------------|
| TSS CUG/ | TP ISS_I_7_23 | ISUP v2 reference 1.5.2.5.2/Q.735 | Selection expression DLE | Q.788 reference None |
| <p>Test purpose</p> <p><i>CUG call without interlock code in IAM</i></p> <p>To verify that the IUT rejects the CUG call with cause # 111 "Protocol error, unspecified" in the REL, if there is no CUG interlock code in the IAM.</p> | | | | |

5.2.8 Subaddressing (SUB)

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|--|-----------------|--------------------------------------|-----------------------------|--------------------------|
| TSS SUB/ | TP ISS_V_8_1 | ISUP v2 reference 8.5.2.1.1/Q.731 | Selection expression OLE | Q.788 reference 2.2.1 |
| <p>Test purpose</p> <p><i>Sending the called subaddress in the access transport parameter</i></p> <p>To verify that the IUT can include the called subaddress in the access transport parameter in the IAM.</p> | | | | |

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|--|-----------------|--|---------------------------------|--------------------------|
| TSS SUB/ | TP ISS_V_8_2 | ISUP v2 reference 8.5.2.2.1; 8.5.2.3.1; 8.5.2.4.1/Q.731 | Selection expression IntermE | Q.788 reference 2.2.1 |
| <p>Test purpose</p> <p><i>Transit support of access transport parameter</i></p> <p>To verify that the contents of the access transport parameter is passed on transparently in the IAM.</p> | | | | |

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|---|-----------------|--------------------------------------|-----------------------------|--------------------------|
| TSS SUB/ | TP ISS_V_8_3 | ISUP v2 reference 8.5.2.5.1/Q.731 | Selection expression DLE | Q.788 reference 2.2.1 |
| <p>Test purpose</p> <p><i>Receiving the called subaddress in the access transport parameter</i></p> <p>To verify that a call may be successfully established if the IAM contains the subaddress in the access transport parameter and that the called subaddress is passed on to the user network interface.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT such that the called party subscribes to the SUB supplementary service.</p> | | | | |

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|---|-----------------|--|-----------------------------|-------------------------|
| TSS SUB/ | TP ISS_I_8_4 | ISUP v2 reference 8.5.2.5.2/Q.731; 2.1.1.6/Q.764 | Selection expression DLE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Receiving the called subaddress if it is not supported at the destination</i></p> <p>To verify that a call may be successfully established if the IAM contains the subaddress in the access transport parameter and the destination address does not subscribe to the SUB supplementary service.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT such that the called party does not subscribe to the SUB supplementary service.</p> | | | | |

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|--|-----------------|--------------------------------|---------------------------------|-------------------------|
| TSS SUB/ | TP ISS_V_8_5 | ISUP v2 reference 8.7/Q.731 | Selection expression IntermE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Interaction with other networks; no notification is sent back to the OLE</i></p> <p>To verify that the IUT can successfully establish a call by discarding the subaddress if the succeeding network does not support the subaddress or the supplied length is not supported.</p> | | | | |

5.2.9 Malicious Call Identification (MCID)

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| TSS MCID/ | TP ISS_V_9_1 | ISUP v2 reference 9.2.1/ ETS 300 356-11 [11] | Selection expression OLE | Q.788 reference 2.5.1 |
| <p>Test purpose</p> <p><i>Successful MCID request</i></p> <p>To verify that the IUT can successfully reply to an IDR having the MCID request indicator set to "MCID request" by sending an IRS with MCID response indicator set to "MCID included" and the calling party number included.</p> | | | | |

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|---|-----------------|--|-----------------------------|-------------------------|
| TSS MCID/ | TP ISS_V_9_2 | ISUP v2 reference 9.2.1/ ETS 300 356-11 [11] | Selection expression OLE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Successful MCID request - after ACM</i></p> <p>To verify that the IUT will accept and reply correctly to an MCID request after ACM has been received. The IUT should reply to an IDR having the MCID request indicator set to "MCID request" by sending an IRS with MCID response indicator set to "MCID included" and the calling party number included.</p> <p>NOTE: This situation may occur e.g. if the call has been forwarded before reaching the destination.</p> | | | | |

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|--|-----------------|--|--|--------------------------|
| TSS MCID/ | TP ISS_V_9_3 | ISUP v2 reference 9.2.1/ ETS 300 356-11 [11] | Selection expression OLE AND PICS A.12/1 | Q.788 reference 2.5.1 |
| <p>Test purpose</p> <p><i>Successful MCID request with calling subaddress</i></p> <p>To verify that the IUT can successfully reply to an IDR having the MCID request indicator set to "MCID request" by sending an IRS with MCID response indicator set to "MCID included", the calling party number and a calling subaddress in the access transport parameter.</p> | | | | |

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|---|-----------------|--|---|--------------------------|
| TSS NO_MCID/ | TP ISS_I_9_4 | ISUP v2 reference 9.2.2/ ETS 300 356-11 [11] | Selection expression OLE AND NOT PICS A.3/9 | Q.788 reference 2.5.2 |
| <p>Test purpose</p> <p><i>MCID request - MCID not supported by the OLE</i></p> <p>To verify that the IUT rejects a MCID request by sending a IRS with the MCID response indicator set to "MCID not included".</p> | | | | |
| TSS MCID/ | TP ISS_V_9_5 | ISUP v2 reference 9.3.1/ ETS 300 356-11 [11] | Selection expression Transit | Q.788 reference None |
| <p>Test purpose</p> <p><i>MCID information passed transparently</i></p> <p>To verify that a received IDR is transferred transparently to the preceding exchange and the subsequent IRS is transferred transparently to the succeeding exchange.</p> | | | | |
| TSS MCID/ | TP ISS_V_9_6 | ISUP v2 reference 9.4.1/ ETS 300 356-11 [11] | Selection expression OutIE AND NOT PICS A.12/4 | Q.788 reference None |
| <p>Test purpose</p> <p><i>MCID information passed and set correctly - outgoing</i></p> <p>To verify that a received IDR is transferred transparently into the national network (NOT PICS A.4/1), the subsequent IRS being transferred into the international network so that the country code in the address signals of the calling party number is added and the nature of address indicator is set to "international number".</p> | | | | |
| TSS NO_MCID/ | TP ISS_I_9_7 | ISUP v2 reference 9.4.2/ ETS 300 356-11 [11] | Selection expression OutIE AND NOT PICS A.3/9 AND PICS A.8/3 | Q.788 reference 2.5.2 |
| <p>Test purpose</p> <p><i>MCID request - MCID not supported by the calling party's national network</i></p> <p>To verify that the outgoing international exchange rejects a MCID request by sending an IRS with the MCID response indicator set to "MCID not included".</p> <p>NOTE: This test case checks the behaviour of the IUT if the national network does not support MCID.</p> | | | | |
| TSS MCID/ | TP ISS_V_9_8 | ISUP v2 reference 9.5.1/ ETS 300 356-11 [11] | Selection expression InclE | Q.788 reference None |
| <p>Test purpose</p> <p><i>MCID information passed and set correctly - incoming</i></p> <p>To verify that a received IDR is transferred transparently into the international network and the subsequent IRS is transferred into the national network so that the country code in the address signals of the calling party number is removed if it is the network's own country code and the nature of address indicator is set in this case to "national (significant) number".</p> | | | | |

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|---|------------------|---|--|--------------------------|
| TSS MCID/ | TP ISS_I_9_9 | ISUP v2 reference 9.5.2/ ETS 300 356-11 [11] | Selection expression InclE AND PICS A.12/5 | Q.788 reference None |
| <p>Test purpose</p> <p><i>MCID request - MCID not supported by the calling party's national network - adding information</i></p> <p>To verify that the international incoming gateway can modify the MCID response indicator set to "MCID not included" into "MCID included" and can include the available information in the calling party number.</p> <p>NOTE: The known part of the calling party number is sent with the address incomplete indicator set to "incomplete".</p> | | | | |
| TSS MCID/ | TP ISS_V_9_10 | ISUP v2 reference 9.6.1 a)/ ETS 300 356-11 [11] | Selection expression DLE | Q.788 reference 2.5.1 |
| <p>Test purpose</p> <p><i>DLE records call details</i></p> <p>To verify that the DLE can successfully record the calling party number and optionally the calling subaddress if received in the IAM or in the IRS.</p> <p>Pre-test conditions Arrange the data in the IUT so that the called user has subscribed to MCID service.</p> | | | | |
| TSS MCID/ | TP ISS_V_9_11 | ISUP v2 reference 9.6.1b)/ ETS 300 356-11 [11] | Selection expression DLE | Q.788 reference 2.5.1 |
| <p>Test purpose</p> <p><i>DLE requests call details</i></p> <p>To verify that the DLE can successfully request the calling party number and optionally the calling subaddress by sending an IDR, if there is no calling party number included in the IAM.</p> <p>Pre-test conditions Arrange the data in the IUT so that the called user has subscribed to MCID service.</p> | | | | |
| TSS MCID/ | TP ISS_I_9_12 | ISUP v2 reference 9.6.2/ ETS 300 356-11 [11] | Selection expression DLE | Q.788 reference 2.5.2 |
| <p>Test purpose</p> <p><i>No MCID information after MCID request</i></p> <p>To verify that the call setup is continued (user is alerted) if an IRS is received without the expected MCID information within timer T39 expiry, after having sent the IDR with MCID request indicator set to "MCID requested".</p> <p>Pre-test conditions Arrange the data in the IUT so that the user has subscribed to MCID service.</p> | | | | |
| TSS MCID/ | TP ISS_I_9_13 | ISUP v2 reference 9.6.2/ ETS 300 356-11 [11] | Selection expression DLE | Q.788 reference 2.5.3 |
| <p>Test purpose</p> <p><i>MCID timer (T39) expiry</i></p> <p>To verify that call setup is continued (user is alerted) if no IRS is received within timer T39 expiry, after having sent the IDR with MCID request indicator set to "MCID requested".</p> <p>Pre-test conditions Arrange the data in the IUT so that the called user has subscribed to MCID service.</p> | | | | |

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|--|------------------|---|---|--------------------------|
| TSS MCID/ | TP ISS_V_9_14 | ISUP v2 reference 10/ ETS 300 356-11 [11] | Selection expression OLE AND PICS A.2/4 | Q.788 reference 2.5.1 |
| <p>Test purpose</p> <p><i>Successful MCID request with additional calling party number</i></p> <p>To verify that the OLE can successfully reply to an IDR having the MCID request indicator set to "MCID request" by sending an IRS with MCID response indicator set to "MCID included", the calling party number and an additional calling party number in the generic number parameter.</p> <p>NOTE: This implies that a special arrangement exists with the calling user.</p> <p>Pre-test conditions Arrange the data in the IUT so that the additional calling party number information is available</p> | | | | |

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|---|------------------|--|-----------------------------|-------------------------|
| TSS MCID/ | TP ISS_V_9_15 | ISUP v2 reference 11.9; 11.13/ ETS 300 356-11 [11] | Selection expression DLE | Q.788 reference None |
| <p>Test purpose</p> <p><i>MCID interaction with DDI and/or MSN</i></p> <p>To verify that the calling party number, the called party number with DDI and/or MSN are registered if provided.</p> <p>Pre-test conditions Arrange the data in the IUT so that the called user has subscribed to the MCID, DDI and/or MSN services</p> | | | | |

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|--|------------------|--|--|-------------------------|
| TSS MCID/ | TP ISS_V_9_16 | ISUP v2 reference 11.10/ ETS 300 356-11 [11] | Selection expression DLE AND PICS A.12/3 | Q.788 reference None |
| <p>Test purpose</p> <p><i>MCID interaction with diversion services</i></p> <p>To verify that besides the calling party number, the original called number and the redirecting number are registered if provided.</p> <p>NOTE: A call diversion service has been activated for this call.</p> <p>Pre-test conditions Arrange the data in the IUT so that the user has subscribed to MCID</p> | | | | |

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|--|------------------|--|-----------------------------|-------------------------|
| TSS MCID/ | TP ISS_V_9_17 | ISUP v2 reference annex A/ ETS 300 356-11 [11] | Selection expression OLE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Generation of compatibility information</i></p> <p>To verify that the IUT includes the correct message compatibility information and parameter compatibility information in the IRS.</p> | | | | |

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|---|------------------|--|-----------------------------|-------------------------|
| TSS MCID/ | TP ISS_V_9_18 | ISUP v2 reference annex A/ ETS 300 356-11 [11] | Selection expression DLE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Generation of compatibility information</i></p> <p>To verify that the IUT includes the correct message compatibility information and parameter compatibility information in the IDR.</p> <p>Pre-test conditions Arrange the data in the IUT so that the called user has subscribed to the MCID service.</p> | | | | |

5.2.10 Conference call, add-on (CONF)

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|---|------------------|--|---|---------------------------|
| TSS CONF/ | TP ISS_V_10_1 | ISUP v2 reference 1.5.2.1.1.1/Q.734 | Selection expression Local AND BCall PICS A.13/13 | Q.788 reference None |
| <p>Test purpose</p> <p><i>Requirement related to echo control</i></p> <p>To verify that the IUT is able to initiate echo control procedures for the necessary legs when a new call is added to the conference.</p> <p>NOTE: The used PICS is defined for the basic call (BCall).</p> <p>Pre-test conditions Arrange the data in the IUT such that the served user subscribes to CONF supplementary service.</p> | | | | |
| TSS CONF/ | TP ISS_V_10_2 | ISUP v2 reference 1.5.2.1.1.2/Q.734 | Selection expression Local AND PICS A.13/1 | Q.788 reference 2.13.1 |
| <p>Test purpose</p> <p><i>Establishing a conference from an active call</i></p> <p>To verify that the IUT can successfully begin the conference from an active call and notify the implied parties correctly.</p> <p>NOTE: The generic notification indicator set to "conference established" should be sent by the IUT in the CPG. The event indicator should be set to "progress".</p> <p>Pre-test conditions Arrange the data in the IUT such that the served user subscribes to CONF supplementary service.</p> | | | | |
| TSS CONF/ | TP ISS_V_10_3 | ISUP v2 reference 1.5.2.1.1.2/Q.734 | Selection expression Local AND PICS A.13/1 | Q.788 reference 2.13.1 |
| <p>Test purpose</p> <p><i>Adding calls (conferees) to an established conference</i></p> <p>To verify that the IUT is able to add a conferee to a conference and notify the implied parties correctly.</p> <p>NOTE: The generic notification indicator set to "conference established" should be sent by the IUT to the new affected conferee and the generic notification indicator set to "other party added" to the non-affected conferees. The event indicator in the CPG should be set to "progress".</p> <p>Pre-test conditions Arrange the data in the IUT such that the served user subscribes to CONF supplementary service.</p> | | | | |
| TSS CONF/ | TP ISS_V_10_4 | ISUP v2 reference 1.5.2.1.1.2/Q.734 | Selection expression Local AND PICS A.13/2 | Q.788 reference None |
| <p>Test purpose</p> <p><i>Joining the maximum number of conferees in a conference</i></p> <p>To verify that the IUT is able to join the maximum allowed number of conferees to a conference and notify the implied parties correctly.</p> <p>NOTE: The generic notification indicator set to "conference established" should be sent by the IUT to the new affected conferee and the generic notification indicator set to "other party added" to the non-affected conferees. The event indicator in the CPG should be set to "progress".</p> <p>Pre-test conditions Arrange the data in the IUT such that the served user subscribes to CONF supplementary service.</p> | | | | |

| TSS CONF/ | TP ISS_V_10_5 | ISUP v2 reference 1.5.2.1.1.3/Q.734 | Selection expression Local AND PICS A.13/1 | Q.788 reference 2.13.2 |
|---|------------------|--|--|---------------------------|
| <p>Test purpose</p> <p><i>Isolation of party</i></p> <p>To verify that the IUT can successfully isolate a conferee from the conference and notify the implied parties correctly.</p> <p>NOTE: The generic notification indicator set to "isolated" within call progress should be sent by the IUT to the affected conferee and the generic notification indicator set to "other party isolated" should be sent to the non-affected conferees. The event indicator in the CPG should be set to "progress". The isolated conferee should not be able to communicate with the rest of the conference.</p> <p>Pre-test conditions Arrange the data in the IUT such that the served user subscribes to CONF supplementary service.</p> | | | | |

| TSS CONF/ | TP ISS_V_10_6 | ISUP v2 reference 1.5.2.1.1.4/Q.734 | Selection expression Local AND PICS A.13/1 | Q.788 reference 2.13.2 |
|---|------------------|--|--|---------------------------|
| <p>Test purpose</p> <p><i>Reattachment of party</i></p> <p>To verify that the IUT can successfully reattach the isolated conferee to the conference and notify the implied parties correctly.</p> <p>NOTE: The generic notification indicator set to "reattached" should be sent by the IUT to the affected conferee and the generic notification indicator set to "other party reattached" should be sent to non-affected conferees. The event indicator in the CPG should be set to "progress".</p> <p>Pre-test conditions Arrange the data in the IUT such that the served user subscribes to CONF supplementary service.</p> | | | | |

| TSS CONF/ | TP ISS_V_10_7 | ISUP v2 reference 1.5.2.1.1.5/Q.734 | Selection expression Local AND PICS A.13/1 | Q.788 reference 2.13.2 |
|--|------------------|--|--|---------------------------|
| <p>Test purpose</p> <p><i>Splitting of a party</i></p> <p>To verify that the IUT can create a private communication between the served user and one of the conferees and notify the implied parties correctly.</p> <p>NOTE 1: The generic notification indicator set to "conference disconnected" should be sent by the IUT to the affected conferee and the generic notification indicator set to "other party split" should be sent to the non-affected conferees. The event indicator in the CPG should be set to "progress". The non-affected conferees should not be able to participate in the communication of the private communication.</p> <p>NOTE 2: See also figure 1-5/Q.734.</p> <p>Pre-test conditions Arrange the data in the IUT such that the served user subscribes to CONF supplementary service.</p> | | | | |

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|---|-------------------|--|--|---------------------------|
| TSS CONF/ | TP ISS_V_10_8 | ISUP v2 reference 1.5.2.1.1.6/Q.734 | Selection expression Local AND PICS A.13/1 | Q.788 reference 2.13.3 |
| <p>Test purpose</p> <p><i>Disconnection of conferee</i></p> <p>To verify that IUT can successfully disconnect a conferee from the conference, if requested by the served user, and notify the implied parties correctly.</p> <p>NOTE: The IUT should release the leg towards the conferee according to normal call release procedures, i.e. send a REL to a conferee connected to the conference. The generic notification indicator set to "other party disconnected" should be sent to the non-affected conferees. The event indicator in the CPG should be set to "progress".</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT such that the served user subscribes to CONF supplementary service.</p> | | | | |
| TSS CONF/ | TP ISS_V_10_9 | ISUP v2 reference 1.5.2.1.1.7/Q.734 | Selection expression Local AND PICS A.13/1 | Q.788 reference 2.13.3 |
| <p>Test purpose</p> <p><i>Disconnection by a conferee</i></p> <p>To verify that IUT can successfully disconnect a conferee from the conference, if requested by the conferee, and notify the implied parties correctly.</p> <p>NOTE: The IUT should release the leg towards the conferee according to normal call release procedures, i.e. send a RLC in response to the REL to a conferee connected to the conference through ISUP. The generic notification indicator set to "other party disconnected" should be sent to the non-affected conferees. The event indicator in the CPG should be set to "progress".</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT such that the served user subscribes to CONF supplementary service.</p> | | | | |
| TSS CONF/ | TP ISS_V_10_10 | ISUP v2 reference 1.5.2.1.1.8/Q.734 | Selection expression Local AND PICS A.13/1 | Q.788 reference 2.13.2 |
| <p>Test purpose</p> <p><i>Termination of conference</i></p> <p>To verify that IUT can successfully disconnect all conferees from the conference, if requested by the served user, and initiate the normal call release procedure towards each conferee.</p> <p>NOTE: The IUT should send REL to all conferees connected to the conference.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT such that the served user subscribes to CONF supplementary service.</p> | | | | |
| TSS CONF/ | TP ISS_I_10_11 | ISUP v2 reference 1.5.2.1.2/Q.734 | Selection expression Local AND PICS A.13/1 | Q.788 reference None |
| <p>Test purpose</p> <p><i>Adding of conferees fails (unsuccessful)</i></p> <p>To verify that if the procedure of adding conferees fails the concerned call remains in the previous state and notifications never be sent to the affected nor to the non-affected remote parties.</p> <p>NOTE: The procedure of adding fails, e.g. because the maximum conference participants is exceeded.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT such that the served user has subscribed to CONF supplementary service.</p> | | | | |

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| TSS CONF/ | TP ISS_I_10_12 | ISUP v2 reference 1.5.2.1.2/Q.734 | Selection expression Local AND PICS A.13/1 | Q.788 reference None |
| <p>Test purpose</p> <p><i>Isolation, reattachment, splitting, disconnection of a party, conference termination (unsuccessful)</i></p> <p>To verify that if the procedures to isolate a party, reattach a party, split a party, disconnect a party, terminate conference fail, then the concerned call remains in the previous state and notifications are not sent to the affected nor to the non-affected remote parties.</p> <p>NOTE: The procedure of reattachment fails, e.g. because the party was not formerly isolated.</p> <p>Pre-test conditions Arrange the data in the IUT such that the served user has subscribed to CONF supplementary service.</p> | | | | |
| TSS CONF/ | TP ISS_V_10_13 | ISUP v2 reference 1.5.2.2.1, 1.5.2.3.1, 1.5.2.4.1/Q.734 | Selection expression (InterME OR DLE) AND PICS A.13/1 | Q.788 reference None |
| <p>Test purpose</p> <p><i>Notification procedure supported</i></p> <p>To verify that the IUT can successfully transfer/deliver the required notifications in/from the CPG message.</p> | | | | |
| TSS CONF/ | TP ISS_V_10_14 | ISUP v2 reference 1.6.15/Q.734 | Selection expression Local AND PICS A.13/1 | Q.788 reference None |
| <p>Test purpose</p> <p><i>Interaction with HOLD - held user added to conference</i></p> <p>To verify that no retrieve notification is sent to a user put on hold and subsequently added to a conference call, but that the IUT sends the "conference established" notification to the held user.</p> <p>NOTE: The IUT should send the CPG with the generic notification indicator set to "conference established" to the held user.</p> <p>Pre-test conditions Arrange the data in the IUT such that the served user has subscribed to CONF and HOLD supplementary services.</p> | | | | |
| TSS CONF/ | TP ISS_V_10_15 | ISUP v2 reference 1.6.15/Q.734 | Selection expression Local | Q.788 reference None |
| <p>Test purpose</p> <p><i>Interaction with HOLD - conference put on hold by conference controller</i></p> <p>To verify that no hold and no retrieve notification is sent to the conferees when the conference controller puts the conference on hold.</p> <p>Pre-test conditions Arrange the data in the IUT such that the served user has subscribed to CONF and HOLD supplementary services.</p> | | | | |

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| TSS CONF/ | TP ISS_V_10_16 | ISUP v2 reference 1.6.15/Q.734 | Selection expression Local | Q.788 reference None |
| <p>Test purpose</p> <p><i>Interaction with HOLD - conference put on hold by conferee</i></p> <p>To verify that when the IUT receives notification from a conferee that a call has been put on hold and subsequently retrieved, the IUT passes on this notification to the served user, but does not send any information to the other non-affected conferees.</p> <p>Pre-test conditions Arrange the data in the IUT such that the served user has subscribed to CONF and HOLD supplementary services.</p> | | | | |

5.2.11 Explicit Call Transfer (ECT)

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| TSS ECT/ | TP ISS_V_11_1 | ISUP v2 reference 9.2.1.1 a)/ ETS 300 356-14 [13] | Selection expression Local AND PICS A.14/1 | Q.788 reference None |
| <p>Test purpose</p> <p><i>Capability of storing and sending the additional calling party number in the call transfer number.</i></p> <p>To verify that the IUT is able to store the additional calling party number in the generic number when the calling party number and the generic number have been received from the remote user. This information is sent by the IUT to the other remote user in the call transfer number in either the FAC or CPG when the call transfer is activated.</p> <p>Pre-test conditions Arrange the data in the IUT so that the served user subscribes to HOLD, CW and ECT.</p> | | | | |

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| TSS ECT/ | TP ISS_V_11_2 | ISUP v2 reference 9.2.1.1 a)/ ETS 300 356-14 [13] | Selection expression Local AND PICS A.14/1 | Q.788 reference None |
| <p>Test purpose</p> <p><i>Capability of storing and sending the calling party number in the call transfer number.</i></p> <p>To verify that the IUT is able to store the calling party number when only this CLI has been received from the remote user. This information is sent by the IUT to the other remote user in the call transfer number in either the FAC or CPG when the call transfer is activated.</p> <p>Pre-test conditions Arrange the data in the IUT so that the served user subscribes to HOLD, CW and ECT.</p> | | | | |

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| TSS ECT/ | TP ISS_V_11_3 | ISUP v2 reference 9.2.1.1 b)/ ETS 300 356-14 [13] | Selection expression Local AND PICS A.14/1 | Q.788 reference None |
| <p>Test purpose</p> <p><i>Capability of storing and sending the additional connected number in the call transfer number.</i></p> <p>To verify that the IUT is able to store the additional connected number in the generic number when the connected number and the generic number have been received from the remote user. This information is sent by the IUT to the other remote user in the call transfer number in either the FAC or CPG when the call transfer is activated.</p> <p>Pre-test conditions Arrange the data in the IUT so that the served user subscribes to HOLD and ECT.</p> | | | | |

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| TSS ECT/ | TP ISS_V_11_4 | ISUP v2 reference 9.2.1.1 b)/ ETS 300 356-14 [13] | Selection expression Local AND PICS A.14/1 | Q.788 reference None |
| <p>Test purpose</p> <p><i>Capability of storing and sending the connected number in call transfer number.</i></p> <p>To verify that the IUT is able to store connected number when only this COL has been received from the remote user. This information is sent by the IUT to the other remote user in the call transfer number in either the FAC or CPG when the call transfer is activated.</p> <p>Pre-test conditions Arrange the data in the IUT so that the served user subscribes to HOLD and ECT.</p> | | | | |
| TSS ECT/ | TP ISS_V_11_5 | ISUP v2 reference 9.2.1.2.1/ ETS 300 356-14 [13] | Selection expression Local AND PICS A.14/2 | Q.788 reference None |
| <p>Test purpose</p> <p><i>Loop prevention procedure - initiation</i></p> <p>To verify that the local exchange controlling the ECT can successfully initiate the loop prevention procedure by sending LOP with loop prevention indicator set to "request" and with call transfer reference for both calls.</p> <p>Pre-test conditions Arrange the data in the IUT so that the served user subscribes to HOLD and ECT.</p> | | | | |
| TSS ECT/ | TP ISS_V_11_6 | ISUP v2 reference 9.2.1.2.1/ ETS 300 356-14 [13] | Selection expression Local AND PICS A.14/2 | Q.788 reference None |
| <p>Test purpose</p> <p><i>Loop prevention procedure - successful response</i></p> <p>To verify that the local exchange controlling the ECT can successfully perform a call transfer if a LOP with loop prevention indicator set to "response" is received and "no loop exists", and the call identity matches the one used by the IUT.</p> <p>Pre-test conditions Arrange the data in the IUT so that the served user subscribes to HOLD and ECT.</p> | | | | |
| TSS ECT/ | TP ISS_I_11_7 | ISUP v2 reference 9.2.1.2.1/ ETS 300 356-14 [13] | Selection expression Local AND PICS A.14/2 | Q.788 reference None |
| <p>Test purpose</p> <p><i>Loop prevention procedure - wrong call transfer identity ignored</i></p> <p>To verify that the local exchange controlling the ECT disregards the LOP with loop prevention indicator set to "response" and "no loop exists", if the call transfer identity does not match the one used by the IUT.</p> <p>Pre-test conditions Arrange the data in the IUT so that the served user subscribes to HOLD and ECT.</p> | | | | |

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| TSS ECT/ | TP ISS_I_11_8 | ISUP v2 reference 9.2.1.2.1/ ETS 300 356-14 [13] | Selection expression Local AND PICS A.14/2 | Q.788 reference None |
| <p>Test purpose</p> <p><i>Loop prevention procedure - unsuccessful (loop exists)</i></p> <p>To verify that the local exchange controlling the ECT rejects the call transfer if the LOP is received with loop prevention indicator set to "request" and the call transfer reference matches the one used by the IUT.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT so that the served user subscribes to HOLD and ECT.</p> | | | | |
| TSS ECT/ | TP ISS_V_11_9 | ISUP v2 reference 9.2.1.2.1; 11.4.1/ ETS 300 356-14 [13] | Selection expression Local AND PICS A.14/2 | Q.788 reference None |
| <p>Test purpose</p> <p><i>Loop prevention procedure - unsuccessful (interaction with ECT)</i></p> <p>To verify that the local exchange controlling the ECT rejects the call transfer if the LOP is received with loop prevention indicator set to "response" and "simultaneous transfer" in case of interaction with ECT.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT so that the served user subscribes to HOLD and ECT.</p> | | | | |
| TSS ECT/ | TP ISS_V_11_10 | ISUP v2 reference 9.2.1.2.1/ ETS 300 356-14 [13] | Selection expression Local AND PICS A.14/2 AND PICS A.14/8 | Q.788 reference None |
| <p>Test purpose</p> <p><i>Loop prevention procedure - unsuccessful (interworking situation)</i></p> <p>To verify that the local exchange controlling the ECT rejects the call transfer if the LOP is received with loop prevention indicator set to "response" and "insufficient information" from e.g. interworking situations.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT so that the served user subscribes to HOLD and ECT.</p> | | | | |
| TSS ECT/ | TP ISS_V_11_11 | ISUP v2 reference 9.2.1.2.1/ ETS 300 356-14 [13] | Selection expression Local AND PICS A.14/2 AND PICS A.14/9 | Q.788 reference None |
| <p>Test purpose</p> <p><i>Loop prevention procedure - successful (interworking situation)</i></p> <p>To verify that the local exchange controlling the ECT completes the call transfer if the LOP is received with loop prevention indicator set to "response" and "insufficient information" from e.g. interworking situations.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT so that the served user subscribes to HOLD and ECT.</p> | | | | |

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| TSS ECT/ | TP ISS_V_11_12 | ISUP v2 reference 9.2.1.2.1/ ETS 300 356-14 [13] | Selection expression Local AND PICS A.14/2 AND PICS A.14/4 | Q.788 reference None |
| <p>Test purpose</p> <p><i>Loop prevention procedure - unsuccessful on timer expiry</i></p> <p>To verify that the local exchange controlling the ECT rejects the call transfer if no LOP is received within T_{ECT} expiry</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT so that the served user subscribes to HOLD and ECT.</p> | | | | |
| TSS ECT/ | TP ISS_V_11_13 | ISUP v2 reference 9.2.1.2.1/ ETS 300 356-14 [13] | Selection expression Local AND PICS A.14/2 AND PICS A.14/5 | Q.788 reference None |
| <p>Test purpose</p> <p><i>Loop prevention procedure - successful on timer expiry</i></p> <p>To verify that the local exchange controlling the ECT completes the call transfer if no LOP is received within T_{ECT} expiry</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT so that the served user subscribes to HOLD and ECT.</p> | | | | |
| TSS ECT/ | TP ISS_V_11_14 | ISUP v2 reference 9.2.1.2.2 a)/ ETS 300 356-14 [13] | Selection expression Local | Q.788 reference None |
| <p>Test purpose</p> <p><i>Facility message with generic notification sent to the remote user</i></p> <p>To verify that the local exchange controlling the ECT can successfully initiate a call transfer by sending FAC with the generic notification set to "call transfer, active" or "call transfer, alerting" and the service activation parameter set to "call transfer".</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT so that the served user subscribes to HOLD and ECT.</p> | | | | |
| TSS ECT/ | TP ISS_V_11_15 | ISUP v2 reference 9.2.1.2.2 a)/ ETS 300 356-14 [13] | Selection expression Local | Q.788 reference None |
| <p>Test purpose</p> <p><i>Call progress message with generic notification sent to the remote user</i></p> <p>To verify that the local exchange (controlling the ECT) can successfully initiate a call transfer by sending CPG with the generic notification set to "call transfer, active" and the service activation parameter set to "call transfer".</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT so that the served user subscribes to HOLD and ECT.</p> | | | | |

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| TSS ECT/ | TP ISS_V_11_16 | ISUP v2 reference 9.2.1.2.2 b)/ ETS 300 356-14 [13] | Selection expression Local | Q.788 reference None |
| <p>Test purpose</p> <p><i>Facility message send upon receipt of the ANM when the ECT is invoked while one call is alerting</i></p> <p>To verify that, in case the ECT is invoked while one call is alerting, as soon as the local exchange (controlling the ECT) receives the ANM, it can successfully send to the other remote user the FAC with service activation set to "call transfer" and the generic notification set to "call transfer, active".</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT so that the served user subscribes to HOLD and ECT.</p> | | | | |
| TSS ECT/ | TP ISS_V_11_17 | ISUP v2 reference 9.2.1.2.2 b)/ ETS 300 356-14 [13] | Selection expression Local AND PICS A.14/1 | Q.788 reference None |
| <p>Test purpose</p> <p><i>Capability of sending the additional connected number in the call transfer number parameter when the ECT is invoked while one call is alerting</i></p> <p>To verify that, in case the ECT is invoked while one call is alerting, the FAC sent to the other remote user upon receipt of the ANM conveys the call transfer number parameter with the information received in the generic number parameter if both the connected number and an additional connected number in the generic number are received in the ANM.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT so that the served user subscribes to HOLD and ECT.</p> | | | | |
| TSS ECT/ | TP ISS_V_11_18 | ISUP v2 reference 9.2.1.2.2 b)/ ETS 300 356-14 [13] | Selection expression Local AND PICS A.14/1 | Q.788 reference None |
| <p>Test purpose</p> <p><i>Capability of sending the connected number in the call transfer number parameter when the ECT is invoked while one call is alerting</i></p> <p>To verify that, in case the ECT is invoked while one call is alerting, the FAC sent to the other remote user upon receipt of the ANM conveys the call transfer number parameter with the information received in the connected number parameter if only the connected number is received in the ANM.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT so that the served user subscribes to HOLD and ECT.</p> | | | | |
| TSS ECT/ | TP ISS_V_11_19 | ISUP v2 reference 7; 9.3.1; 9.4.1; 9.5.1/ ETS 300 356-14 [13] | Selection expression IntermE AND PICS A14/2 | Q.788 reference None |
| <p>Test purpose</p> <p><i>Transparent transfer of information of the loop prevention procedure message</i></p> <p>To verify that the exchange can successfully pass on the loop prevention indicator and the call transfer reference in the LOP related to the call transfer service.</p> | | | | |

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| TSS ECT/ | TP ISS_V_11_20 | ISUP v2 reference 7; 9.3.1; 9.4.1; 9.5.1/ ETS 300 356-14 [13] | Selection expression IntermE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Transparent transfer of information in the FAC or CPG</i></p> <p>To verify that the exchange can successfully pass on the access transport and the generic notification indicator in the FAC or CPG related to the call transfer service.</p> | | | | |
| TSS ECT/ | TP ISS_V_11_21 | ISUP v2 reference 7; 9.4.1; 9.5.1/ ETS 300 356-14 [13] | Selection expression Gateway AND PICS A.14/6 | Q.788 reference None |
| <p>Test purpose</p> <p><i>Call transfer number - removal of number</i></p> <p>To verify that the exchange removes the call transfer number in the FAC or CPG before sending it to the next exchange, if its indicator is set to "presentation restricted" and there is no bilateral agreement.</p> | | | | |
| TSS ECT/ | TP ISS_V_11_22 | ISUP v2 reference 7; 9.4.1/ ETS 300 356-14 [13] | Selection expression OutIE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Call transfer number - conversion to international number</i></p> <p>To verify that the IUT converts the call transfer number to international format. The nature of address indicator shall be set to "international number".</p> | | | | |
| TSS ECT/ | TP ISS_V_11_23 | ISUP v2 reference 7; 9.5.1/ ETS 300 356-14 [13] | Selection expression InclE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Call transfer number - removal of own country code</i></p> <p>To verify that the IUT removes the country code in the address signals of the call transfer number if it is the network's own country code. The nature of address indicator shall be set to "national (significant) number".</p> | | | | |
| TSS ECT/ | TP ISS_V_11_24 | ISUP v2 reference 9.7.1/ ETS 300 356-14 [13] | Selection expression Local AND BCall PICS A.13/11 AND BCall PICS A.13/13 | Q.788 reference None |
| <p>Test purpose</p> <p><i>ECT - interaction with echo control</i></p> <p>To verify that the local exchange (controlling the ECT) can successfully initiate echo control procedures, when the total propagation delay for the two legs of the call to be transferred requires usage of echo control devices. The information to be summed is received in the propagation delay counter of the IAM for incoming calls and in the call history information of the ANM/CON for outgoing calls.</p> <p>NOTE: The used PICS are defined for the basic call (BCall).</p> <p>Pre-test conditions Arrange the data in the IUT so that the served user subscribes to ECT.</p> | | | | |

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| TSS ECT/ | TP ISS_V_11_25 | ISUP v2 reference 10/ ETS 300 356-14 [13] | Selection expression IWorkE AND PICS A.14/7 | Q.788 reference None |
| <p>Test purpose</p> <p><i>Loop prevention procedure - Interworking with protocols not supporting loop prevention</i></p> <p>To verify that the IUT is able to support call control interworking between ISUP v2 and protocols not supporting the loop prevention procedure, and return a LOP (response) message with the indication "insufficient information" in response to a LOP (request) message.</p> | | | | |
| TSS ECT/ | TP ISS_V_11_26 | ISUP v2 reference 10/ ETS 300 356-14 [13] | Selection expression IWorkE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Notification - Interworking with protocols not supporting the notification mechanism or the simple service activation procedure</i></p> <p>To verify that the exchange discards the FAC (always) and the CPG (if received during alerting) and successfully completes the call transfer.</p> | | | | |
| TSS ECT/ | TP ISS_V_11_27 | ISUP v2 reference 11.17.1/ ETS 300 356-14 [13] | Selection expression Local | Q.788 reference None |
| <p>Test purpose</p> <p><i>ECT - Interaction with UUS1</i></p> <p>To verify that if the ECT is invoked while a remote user is alerted, the originating exchange discards the user-to-user information received in the ANM or in the REL from that remote user.</p> <p>Pre-test conditions Arrange the data in the IUT so that the served user subscribes to ECT and UUS1.</p> | | | | |
| TSS ECT/ | TP ISS_V_11_28 | ISUP v2 reference 11.17.2/ ETS 300 356-14 [13] | Selection expression Local | Q.788 reference None |
| <p>Test purpose</p> <p><i>ECT - Interaction with UUS2</i></p> <p>To verify that if the ECT is invoked while a remote user is alerted, the exchange discards the USR messages received after the call transfer invocation until the ANM from that remote user is received.</p> <p>Pre-test conditions Arrange the data in the IUT so that the served user subscribes to ECT and UUS2.</p> | | | | |
| TSS ECT/ | TP ISS_V_11_29 | ISUP v2 reference 11.17.3/ ETS 300 356-14 [13] | Selection expression Local | Q.788 reference None |
| <p>Test purpose</p> <p><i>ECT - Interaction with UUS3</i></p> <p>To verify that the exchange discards the USR messages if received after the call transfer invocation until the call transfer is completed, i.e. either FAC is sent to the remote users when both calls are already answered or ANM is received from a remote user when one of the calls is alerting.</p> <p>Pre-test conditions Arrange the data in the IUT so that the served user subscribes to ECT and UUS3.</p> | | | | |

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| TSS ECT/ | TP ISS_V_11_30 | ISUP v2 reference figure A.4/ ETS 300 356-14 [13] | Selection expression Local AND PICS A.2/7 | Q.788 reference None |
| <p>Test purpose</p> <p><i>ECT - Interaction with SUB</i></p> <p>To verify that if the IUT is able to receive and re-send the subaddress in the access transport parameter in the FAC message in either direction after activating the call transfer service. These are the calling subaddress for incoming calls and the connected subaddress for outgoing calls.</p> <p>Pre-test conditions Arrange the data in the IUT so that the served user subscribes to ECT.</p> | | | | |
| TSS ECT/ | TP ISS_V_11_31 | ISUP v2 reference annex B/ ETS 300 356-14 [13] | Selection expression Local | Q.788 reference None |
| <p>Test purpose</p> <p><i>Parameter compatibility information - call transfer number</i></p> <p>To verify that the IUT generates the correct parameter compatibility information for the call transfer number in the FAC or CPG.</p> <p>Pre-test conditions Arrange the data in the IUT so that the served user subscribes to ECT.</p> | | | | |
| TSS ECT/ | TP ISS_V_11_32 | ISUP v2 reference annex B/ ETS 300 356-14 [13] | Selection expression Local AND PICS A.14/2 | Q.788 reference None |
| <p>Test purpose</p> <p><i>Parameter compatibility information - call transfer reference</i></p> <p>To verify that the IUT generates the correct parameter compatibility information for the call transfer reference in the LOP.</p> <p>Pre-test conditions Arrange the data in the IUT so that the served user subscribes to ECT.</p> | | | | |
| TSS ECT/ | TP ISS_V_11_33 | ISUP v2 reference annex B/ ETS 300 356-14 [13] | Selection expression Local | Q.788 reference None |
| <p>Test purpose</p> <p><i>Parameter compatibility information - generic notification parameter</i></p> <p>To verify that the IUT generates the correct parameter compatibility information for the generic notification parameter in the FAC or CPG.</p> <p>Pre-test conditions Arrange the data in the IUT so that the served user subscribes to ECT.</p> | | | | |
| TSS ECT/ | TP ISS_V_11_34 | ISUP v2 reference annex B/ ETS 300 356-14 [13] | Selection expression Local AND PICS A.14/2 | Q.788 reference None |
| <p>Test purpose</p> <p><i>Parameter compatibility information - loop prevention indicators</i></p> <p>To verify that the IUT generates the correct parameter compatibility information for the loop prevention indicators in the LOP.</p> <p>Pre-test conditions Arrange the data in the IUT so that the served user subscribes to ECT.</p> | | | | |

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| TSS ECT/ | TP ISS_V_11_35 | ISUP v2 reference annex B/ ETS 300 356-14 [13] | Selection expression Local AND PICS A.14/2 | Q.788 reference None |
| <p>Test purpose</p> <p><i>Parameter compatibility information - service activation</i></p> <p>To verify that the IUT generates the correct parameter compatibility information for the service activation in the FAC.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT so that the served user subscribes to ECT.</p> | | | | |
| TSS ECT/ | TP ISS_V_11_36 | ISUP v2 reference annex B/ ETS 300 356-14 [13] | Selection expression Local | Q.788 reference None |
| <p>Test purpose</p> <p><i>Message compatibility information - loop prevention message</i></p> <p>To verify that the IUT generates the correct message compatibility information for the LOP message.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT so that the served user subscribes to ECT.</p> | | | | |
| TSS ECT/ | TP ISS_V_11_37 | ISUP v2 reference annex B/ ETS 300 356-14 [13] | Selection expression Local | Q.788 reference None |
| <p>Test purpose</p> <p><i>Message compatibility information - facility message</i></p> <p>To verify that the IUT generates the correct message compatibility information for the FAC message.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT so that the served user subscribes to ECT.</p> | | | | |

5.2.12 Call diversion (CFB, CFNR, CFU, CD)

| | | |
|----------|---|-----------------------------|
| CFNR | Call forwarding on no reply | call diversion may occur |
| CFNR(A) | CFNR - option A - late release | |
| CFNR(B) | CFNR - option B - immediate release | |
| CD(a) | CD during alerting | |
| CD(a,A) | CD during alerting - option A - late release | |
| CD(a,B) | CD during alerting - option B - immediate release | |
| CFB(u,e) | CFB user determined with early ACM | call is diverting |
| CD(i,e) | CD immediate response with early ACM | |
| CFU | Call forwarding unconditional | |
| CFB(n) | CFB network determined | |
| CFB(u,l) | CFB user determined with late ACM | |
| CD(i,l) | CD immediate response with late ACM | |
| CD(i) | CD immediate response | |

| | | | | |
|---|------------------|--------------------------------------|-----------------------------|--------------------------|
| TSS CDIV/ | TP ISS_V_12_1 | ISUP v2 reference 2.5.2.1.1/Q.732 | Selection expression OLE | Q.788 reference 2.6.1 |
| <p>Test purpose</p> <p><i>"Call is diverting" indication received in ACM</i></p> <p>To verify that a call can be successfully established, if diversion occurs. The ACM contains the generic notification indicator set to "call is diverting", the call diversion information and the redirection number. Applicable redirection reason in the call diversion information:</p> <p>"busy" CFB(n); CFB(u,l) "unconditional" CFU "deflection immediate response" CD(i,l)</p> | | | | |

| | | | | |
|---|------------------|--------------------------------------|-----------------------------|------------------------------------|
| TSS CDIV/ | TP ISS_V_12_2 | ISUP v2 reference 2.5.2.1.1/Q.732 | Selection expression OLE | Q.788 reference 2.6.3; 2.7.1 |
| <p>Test purpose</p> <p><i>"Call diversion may occur" received in ACM</i></p> <p>To verify that a call can be successfully established, if diversion may occur. The ACM indicates that "call diversion may occur" in the optional backward call indicators. The following CPG contains the generic notification indicator set to "call is diverting", the call diversion information and the redirection number, if diversion occurs.</p> <p>Applicable redirection reason in the call diversion information:</p> <p>"busy" CFB(u,e) "no reply" CFNR "deflection during alerting " CD(a) "deflection immediate response" CD(i,e)</p> | | | | |

| | | | | |
|---|------------------|--|-----------------------------|-------------------------|
| TSS CDIV/ | TP ISS_V_12_3 | ISUP v2 reference 2.4.2; table 2-1/Q.732 | Selection expression OLE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Redirection number - presentation allowed - according to the notification subscription option</i></p> <p>To verify that the originating exchange makes the redirection number available to the calling access signalling system, if the notification subscription option of the call diversion information is coded "010 presentation allowed with redirection number".</p> <p>The redirection number restriction parameter is set to "00 presentation allowed".</p> | | | | |

| | | | | |
|--|------------------|--|-----------------------------|-------------------------|
| TSS CDIV/ | TP ISS_V_12_4 | ISUP v2 reference 2.4.2; table 2-1/Q.732 | Selection expression OLE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Redirection number - presentation restricted - according to the notification subscription option</i></p> <p>To verify that the originating exchange does not make the redirection number available to the calling access signalling system, if the notification subscription option of the call diversion information is coded "001 presentation not allowed", "011 presentation allowed without redirection number" or "000 unknown".</p> <p>The redirection number restriction parameter is set to "00 presentation allowed".</p> | | | | |

| | | | | |
|---|------------------|---|-----------------------------|-------------------------|
| TSS CDIV/ | TP ISS_V_12_5 | ISUP v2 reference 2.4.2; table 2-1/Q.732 | Selection expression OLE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Redirection number - presentation restricted - according to redirection number restriction parameter</i></p> <p>To verify that the originating exchange does not make the redirection number available to the calling access signalling system, if the redirection number restriction parameter indicates "01 Presentation restricted".</p> <p>The notification subscription option of the call diversion information is coded "010 Presentation allowed with redirection number".</p> | | | | |
| TSS CDIV/ | TP ISS_I_12_6 | ISUP v2 reference 2.4.2; table 2-1/Q.732 | Selection expression OLE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Redirection number - presentation restricted - no redirection number restriction parameter received</i></p> <p>To verify that the originating exchange does not make the redirection number available to the calling access signalling system, if no redirection number restriction parameter is received.</p> <p>The notification subscription option of the call diversion information is coded "010 Presentation allowed with redirection number".</p> | | | | |
| TSS CDIV/ | TP ISS_I_12_7 | ISUP v2 reference 2.4.2/Q.732; figure 6/ ETS 300 204 | Selection expression OLE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Multiple diversions - redirection number not send by the last diversion</i></p> <p>To verify that the originating exchange does not make any redirection number available to the calling access signalling system, if the last diverting exchange does not send one.</p> <p>NOTE: The first diverting exchange sends the redirection number and allows for its presentation. The second (last) diversion allows for the presentation of the redirection number, but does not send it, i.e. only call diversion information is present in the message and the redirection number is missing. The redirection number restriction parameter is also received as "presentation allowed".</p> | | | | |
| TSS CDIV/ | TP ISS_I_12_8 | ISUP v2 reference 2.4.2/Q.732 | Selection expression OLE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Multiple diversions - redirection number - presentation according to the most restrictive notification subscription option</i></p> <p>To verify that the originating exchange handles the presentation of the redirection number according to the contents of the most restrictive notification subscription option of the call diversion information, if the forwarded-to user allows presentation of the number ("presentation allowed" in the redirection number restriction parameter).</p> <p>NOTE: Several messages each containing the call diversion information are received, as if multiple forwardings have occurred (from option B - immediate release - diverting exchanges, so no collecting of information takes place).</p> | | | | |

| TSS CDIV/ | TP ISS_V_12_9 | ISUP v2 reference 2.5.2.2.1; 2.5.2.5.1.2 d)/Q.732 | Selection expression IntermE | Q.788 reference None |
|--|------------------|---|---------------------------------|-------------------------|
| <p>Test purpose</p> <p><i>Notification procedures for a diverting call - before the diverting exchange</i></p> <p>To verify that the IUT can successfully pass on in the backward direction (on the leg before the diversion) all the diversion information from the diverting exchange.</p> <p>It has to be checked that the following signalling information is passed on:</p> <p>optional backward call indicators with setting "call diversion may occur" for CFNR, CD(a), CFB(u,e) and CD(i,e) generic notification indicator call diversion information redirection number (altered in gateways) redirection number restriction parameter</p> <p>NOTE: The following messages can be tested for CFNR, CD(a), CFB(u,e) and CD(i,e): ACM with optional backward call indicators with "call diversion may occur"; CPG with generic notification indicator, call diversion information and redirection number; CPG alerting (or ANM or CON) with redirection number restriction parameter.</p> <p>The following messages can be tested for CFU, CFB(n), CFB(u,l), CD(i,l): ACM with generic notification indicator, call diversion information and redirection number; CPG alerting (or ANM or CON) with redirection number restriction parameter.</p> | | | | |

| TSS CDIV/ | TP ISS_V_12_10 | ISUP v2 reference 2.5.2.2.1/Q.732 | Selection expression IntermE | Q.788 reference None |
|--|-------------------|--------------------------------------|---------------------------------|-------------------------|
| <p>Test purpose</p> <p><i>Notification procedures for a diverting call - after the diverting exchange</i></p> <p>To verify that the IUT can successfully pass on in both directions (on the leg after the diversion) all the diversion information from the diverting exchange.</p> <p>It has to be checked that the following signalling information is passed on in the forward direction:</p> <p>redirecting number (altered in Gateways) original called number (altered in Gateways) redirection information</p> <p>It has to be checked that the following signalling information is passed on in the backward direction: redirection number restriction parameter (in ACM/CPG/ANM/CON)</p> | | | | |

| TSS CDIV/ | TP ISS_I_12_11 | ISUP v2 reference 2.5.2.3/Q.732; 3.5.2.3/Q.731 | Selection expression OutIE | Q.788 reference None |
|---|-------------------|--|-------------------------------|-------------------------|
| <p>Test purpose</p> <p><i>Original called number in the outgoing international gateway</i></p> <p>To verify that the outgoing international gateway checks and manipulates the original called number according to the procedures as defined for CLIP.</p> <p>Applicable tests:</p> <p>Discarding the original called number if case of bilateral agreements (PICS A.15/11) Discarding the original called number, if the address is marked not available Converting the original called number to international format with transparent transferral of screening indicator and address presentation restricted indicator Discarding an incomplete original called number</p> | | | | |

| | | | | |
|--|-------------------|--|-------------------------------|-------------------------|
| TSS CDIV/ | TP ISS_V_12_12 | ISUP v2 reference 2.5.2.3/Q.732; 3.5.2.3/Q.731 | Selection expression OutIE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Redirecting number in the outgoing international gateway</i></p> <p>To verify that the outgoing international gateway checks and manipulates the redirecting number according to the procedures as defined for CLIP.</p> <p>Applicable tests:</p> <ul style="list-style-type: none"> Discarding the redirecting number if case of bilateral agreements (PICS A.15/12) Discarding the redirecting number, if the address is marked not available Converting the redirecting number to international format with transparent transferral of screening indicator and address presentation restricted indicator Discarding an incomplete redirecting number | | | | |
| TSS CDIV/ | TP ISS_V_12_13 | ISUP v2 reference 2.5.2.3/Q.732; ETS 300 356-15 [14] | Selection expression OutIE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Redirection number in the outgoing international gateway.</i></p> <p>To verify that the outgoing international gateway checks and manipulates the redirection number according to the procedures defined for COLP.</p> <p>Tests applicable:</p> <ul style="list-style-type: none"> Converting the redirection number to national format, if necessary (own country code) Adding a prefix to an international redirection number (PICS A.15/14 - national option @) | | | | |
| TSS CDIV/ | TP ISS_V_12_14 | ISUP v2 reference 2.5.2.4/Q.732; 3.5.2.4/Q.731 | Selection expression InclE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Original called number in the incoming international gateway</i></p> <p>To verify that the incoming international gateway checks and manipulates the original called number according to the procedures as defined for CLIP.</p> <p>Applicable tests:</p> <ul style="list-style-type: none"> Converting the original called number to national format, if necessary (own country code) Adding a prefix to an international original called number (PICS A.15/15 - national option @) | | | | |
| TSS CDIV/ | TP ISS_V_12_15 | ISUP v2 reference 2.5.2.4/Q.732; 3.5.2.4/Q.731 | Selection expression InclE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Redirecting number in the incoming international gateway.</i></p> <p>To verify that the incoming international gateway checks and manipulates the redirecting number according to the procedures as defined for CLIP.</p> <p>Applicable tests:</p> <ul style="list-style-type: none"> Converting the redirecting number to national format, if necessary (own country code) Adding a prefix to an international redirecting number (PICS A.15/16 - national option @) | | | | |

| | | | | |
|--|-------------------|--|---|-------------------------|
| TSS CDIV/ | TP ISS_V_12_16 | ISUP v2 reference 2.5.2.4/Q.732; ETS 300 356-15 [14] | Selection expression InclE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Redirection number in the incoming international gateway.</i></p> <p>To verify that the incoming international gateway checks and manipulates the redirection number according to the procedures defined for COLP.</p> <p>Tests applicable:</p> <ul style="list-style-type: none"> Discarding the redirection number in case of bilateral agreements (PICS A.15/13) Converting the redirection number to international format | | | | |
| TSS CDIV/ | TP ISS_V_12_17 | ISUP v2 reference 2.5.2.4/Q.732; 3.5.2.4/Q.731; ETS 300 356-15 [14] | Selection expression InclE AND PICS A.15/13 | Q.788 reference None |
| <p>Test purpose</p> <p><i>Redirection number restriction parameter in the incoming international gateway.</i></p> <p>To verify that the incoming international gateway removes the redirection number restriction parameter if the redirection number has been previously discarded in case of bilateral agreements.</p> | | | | |
| TSS CDIV/ | TP ISS_V_12_18 | ISUP v2 reference 2.5.2.5.1.1/Q.732 | Selection expression DLE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Completion of diverted call by the diverted-to exchange</i></p> <p>To verify that the IUT accepts and can successfully establish a diverted call.</p> | | | | |
| TSS CDIV/ | TP ISS_V_12_19 | ISUP v2 reference 2.5.2.5.1.1/Q.732 | Selection expression DLE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Setting of redirection number restriction parameter at the diverted-to exchange (pres. allowed)</i></p> <p>To verify that the IUT includes the redirection number restriction indicator in the ACM, CPG, ANM or CON set to "presentation allowed" (COLR not activated).</p> | | | | |
| TSS CDIV/ | TP ISS_V_12_20 | ISUP v2 reference 2.5.2.5.1.1/Q.732 | Selection expression DLE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Setting the redirection number restriction indicator at the diverted-to exchange (pres. restricted)</i></p> <p>To verify that the IUT includes the redirection number restriction indicator in the ACM, CPG, ANM or CON set to "presentation restricted" (COLR activated).</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT so that the diverted-to user subscribes to the COLR supplementary service.</p> | | | | |

| | | | | |
|--|-------------------|--|--|-------------------------|
| TSS CDIV/ | TP ISS_V_12_21 | ISUP v2 reference 2.5.2.5.1.2 b) 1)/ Q.732 | Selection expression DLE AND PICS A.15/2 | Q.788 reference None |
| <p>Test purpose</p> <p><i>Setting the redirection counter in the diverting exchange - first diversion</i></p> <p>To verify that the IUT can successfully divert a call which has not been diverted before and set the redirection counter to the correct value.</p> <p>The call is diverted directly to another exchange; the redirection counter should be set to 1.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT so that called user has activated diversion to an external exchange.</p> | | | | |
| TSS CDIV/ | TP ISS_V_12_22 | ISUP v2 reference 2.5.2.5.1.2 b) 1)/ Q.732 | Selection expression DLE AND PICS A.15/2 | Q.788 reference None |
| <p>Test purpose</p> <p><i>Setting of redirection counter in the diverting exchange - multiple local diversions</i></p> <p>To verify that the IUT can successfully divert a call which has not been diverted before and set the redirection counter to the correct value.</p> <p>The call is diverted $N \leq 5$ times; the redirection counter should be set to N. (e.g. for the pre-test condition the call is diverted twice: once to the same exchange and then to an external exchange, $N=2$)</p> <p>Pre-test conditions</p> <p>For $N=2$ arrange the data in the IUT so that called user has activated diversion to another user on the same exchange, and this user at his turn has activated diversion to an external exchange.</p> | | | | |
| TSS CDIV/ | TP ISS_V_12_23 | ISUP v2 reference 2.5.2.5.1.2 b) 1)/ Q.732 | Selection expression DLE AND PICS A.15/2 | Q.788 reference None |
| <p>Test purpose</p> <p><i>Updating of redirection counter in the diverting exchange</i></p> <p>To verify that the IUT can successfully divert a call which has already been diverted and increment the redirection counter.</p> <p>NOTE: The call has been diverted 1 to 4 times.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT so that called user has activated diversion to an external exchange</p> | | | | |
| TSS CDIV/ | TP ISS_V_12_24 | ISUP v2 reference 2.5.2.5.1.2 b) 2)/ Q.732; 2.5.2.5.1.2 b) 6)/ ETS 300 356-15 [14] | Selection expression DLE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Original called number generated by the diverting exchange</i></p> <p>Verify that the IUT sets the address presentation restricted indicator of the original called number according to the "served user releases his/her number to the diverted-to user" option.</p> <p>The redirecting indicator in the redirection information shall be set to "011 Call diverted".</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT so that called user has activated diversion to an external exchange.</p> | | | | |

| | | | | |
|--------------|-------------------|--|-----------------------------|-------------------------|
| TSS CDIV/ | TP ISS_V_12_25 | ISUP v2 reference 2.5.2.5.1.2 b) 4)/ Q.732; 2.5.2.5.1.2 b) 6)/ ETS 300 356-15 [14] | Selection expression DLE | Q.788 reference None |
|--------------|-------------------|--|-----------------------------|-------------------------|

Test purpose

Redirecting number generated by the diverting exchange

Verify that the IUT sets the address presentation restricted indicator of the **redirecting number** according to the "served user releases his/her number to the diverted-to user" option.

The redirecting indicator in the **redirection information** shall be set to "011 Call diverted".

Pre-test conditions

Arrange the data in the IUT so that called user has activated diversion to an external exchange.

| | | | | |
|--------------|-------------------|--|-----------------------------|-------------------------|
| TSS CDIV/ | TP ISS_V_12_26 | ISUP v2 reference 2.5.2.5.1.2 b) 5)/ Q.732 | Selection expression DLE | Q.788 reference None |
|--------------|-------------------|--|-----------------------------|-------------------------|

Test purpose

ISDN user part preference indicator in the diverting exchange

To verify that the IUT can successfully divert a call and that ISDN user part preference indicator received in the **forward call indicators** with the value "ISDN user part...

...not required all the way" shall be changed to "ISDN user part preferred all the way"

...preferred all the way" shall be left unchanged

...required all the way" shall be left unchanged.

Pre-test conditions

Arrange the data in the IUT so that called user has activated diversion.

| | | | | |
|--------------|-------------------|---|-----------------------------|-------------------------|
| TSS CDIV/ | TP ISS_V_12_27 | ISUP v2 reference 2.5.2.5.1.2 c) ii); iii)/ Q.732 | Selection expression DLE | Q.788 reference None |
|--------------|-------------------|---|-----------------------------|-------------------------|

Test purpose

Call diversion may occur in the diverting exchange -

To verify that the IUT includes an **optional backward call indicator** with the indication "call diversion may occur" in the **ACM** in case of CFNR, CD(a), CFB(u,e) and CD(i,e)

Pre-test conditions

Arrange the data in the IUT so that called user has activated the appropriate diversion service to an external exchange.

| | | | | |
|--------------|-------------------|---|--|-------------------------|
| TSS CDIV/ | TP ISS_V_12_28 | ISUP v2 reference 2.5.2.5.1.2 c) ii); table 2-2/Q.732 | Selection expression DLE AND PICS A.16/5 | Q.788 reference None |
|--------------|-------------------|---|--|-------------------------|

Test purpose

Served user answers the call before T_{CFNR} expiry

To verify that a call may be answered by the served user and that no signalling occurs on the diverted-to user leg if the call is answered before timeout of Timer T_{CFNR} , in case of CFNR

Pre-test conditions

Arrange the data in the IUT so that called user has activated the CFNR service.

| | | | | |
|--|-------------------|--|--|------------------------------------|
| TSS CDIV/ | TP ISS_V_12_29 | ISUP v2 reference 2.5.2.5.1.2 c) i); ii); iii)/Q.732 | Selection expression DLE AND NOT PICS A.16/1 | Q.788 reference None |
| <p>Test purpose</p> <p><i>Immediate through-connection in the diverting exchange</i></p> <p>To verify that the IUT can successfully divert a call and that the incoming circuit is connected to the chosen outgoing circuit immediately, in case of CFU, CFB, CD(i), CFNR(B) and CD(a,B).</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT so that called user has activated the appropriate diversion service to an external exchange.</p> | | | | |
| TSS CDIV/ | TP ISS_V_12_30 | ISUP v2 reference 2.5.2.5.1.2 c) ii)/ Q.732 | Selection expression DLE AND PICS A.16/1 (option A) | Q.788 reference None |
| <p>Test purpose</p> <p><i>Through-connection backwards upon alerting and forwards upon answer in the diverting exchange</i></p> <p>To verify that the IUT through-connects in the backward direction (incoming circuit) after receiving the alerting indication and in the forward direction (outgoing circuit) after receiving the answer (connect) indication, in case of CFNR(A) and CD(a,A).</p> <p>NOTE: The IUT can through-connect in both directions after receiving the alerting indication.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT so that called user has activated the appropriate diversion service to an external exchange.</p> | | | | |
| TSS CDIV/ | TP ISS_V_12_31 | ISUP v2 reference 2.5.2.5.1.2 c) ii)/ Q.732 | Selection expression DLE AND PICS A.16/1 (option A) | Q.788 reference None |
| <p>Test purpose</p> <p><i>Served user answers before receipt of alerting indication from diverted-to exchange</i></p> <p>To verify that the IUT allows the served user to answer the call after the IAM has been sent to the diverted-to exchange, in case of CFNR(A) and CD(a,A). The served user shall be allowed to answer the call after ACM (no indication) has been received and the connection towards the diverted-to exchange shall be released.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT so that called user has activated CFNR(A) or CD(a,A) to an external exchange.</p> | | | | |
| TSS CDIV/ | TP ISS_V_12_32 | ISUP v2 reference 2.5.2.5.1.2 c) ii)/ Q.732 | Selection expression DLE AND PICS A.16/1 (option A) | Q.788 reference 2.7.4; 2.9.7 |
| <p>Test purpose</p> <p><i>Unsuccessful call setup to the diverted-to user, ringing tone applied by the diverting exchange</i></p> <p>To verify that, if the IUT receives a release indication with cause "user busy" from the diverted-to exchange, it continues to provide ringing tone to the calling user until he releases the connection (or timer T9 in the controlling exchange expires), in case of CFNR(A) and CD(a,A).</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT so that called user has activated CFNR(A) or CD(a,A) to an external exchange.</p> | | | | |

| | | | | |
|--------------|-------------------|--|--|--|
| TSS CDIV/ | TP ISS_V_12_33 | ISUP v2 reference 2.5.2.5.2.1 c) iii)/ Q.732 | Selection expression DLE AND NOT PICS A.16/1 | Q.788 reference 2.6.4 2.7.5 2.8.3 2.9.5 2.9.6 |
|--------------|-------------------|--|--|--|

Test purpose

Unsuccessful call setup to the diverted-to user, call released by the diverting exchange

To verify that, if the IUT receives a release indication with cause "user busy" from the diverted-to exchange, it releases the call (incoming circuit) and the resources, in case of CFU, CFB, CD(i), CFNR(B) and CD(a,B).

Pre-test conditions

Arrange the data in the IUT so that called user has activated CFU, CFB, CD(i), CFNR(B) or CD(a,B) to an external exchange.

| | | | | |
|--------------|-------------------|---|--|-----------------------------------|
| TSS CDIV/ | TP ISS_V_12_34 | ISUP v2 reference 2.5.2.5.1.2 e) i) 2)/ Q.732 | Selection expression DLE AND PICS A.16/1 (option A) | Q.788 reference 2.7.1 2.9.4 |
|--------------|-------------------|---|--|-----------------------------------|

Test purpose

Notification procedures in the diverting exchange- collecting information for the backward direction

To verify that the IUT can successfully divert a call and store the diversion information parameters in the backward direction until an alerting indication is received from the diverted-to exchanges, in case of CFNR(A) and CD(a,A). The IUT receives several **CPG** messages with **call diversion information** and shall retain the most recent redirection reason and the most severe notification subscription option.

Pre-test conditions

Arrange the data in the IUT so that called user has activated CFNR(A) or CD(a,A) to an external exchange.

| | | | | |
|--------------|-------------------|---|--|-------------------------|
| TSS CDIV/ | TP ISS_V_12_35 | ISUP v2 reference 2.5.2.5.1.2 e) i) 1)/ Q.732 | Selection expression DLE AND NOT PICS A.16/1 | Q.788 reference None |
|--------------|-------------------|---|--|-------------------------|

Test purpose

Notification procedures in the diverting exchange - passing on information in the backward direction

To verify that the IUT can successfully divert a call and pass on in the backward direction the diversion information parameters received from the diverted-to exchanges, in case of CFU, CFB, CD(i), CFNR(B) and CD(a,B).

Pre-test conditions

Arrange the data in the IUT so that called user has activated CFU, CFB, CD(i), CFNR(B) or CD(a,B) to an external exchange.

| | | | | |
|--------------|-------------------|---|--|---|
| TSS CDIV/ | TP ISS_V_12_36 | ISUP v2 reference 2.5.2.5.1.2 e i)/Q.732 | Selection expression DLE AND PICS A.16/1 (option A) | Q.788 reference 2.7.1 case C 2.9.4 case C |
|--------------|-------------------|---|--|---|

Test purpose

Mapping of CON to ANM in the diverting exchange - option A

To verify that the IUT can successfully divert a call and map a received **CON** from the forwarding leg to a **CPG** (alerting), followed by an **ANM** on the preceding leg in case of CFNR(A) or CD(a,A).

Pre-test conditions

Arrange the data in the IUT so that called user has activated CFNR(A) or CD(a,A). to an external exchange.

| | | | | |
|--|-------------------|---|---|---|
| TSS CDIV/ | TP ISS_V_12_37 | ISUP v2 reference 2.5.2.5.1.2 e i)/Q.732 | Selection expression DLE AND NOT PICS A.16/1 | Q.788 reference 2.6.1 case C 2.8.1 case C 2.9.1 case C |
| <p>Test purpose</p> <p><i>Mapping of CON to ANM in the diverting exchange - option B</i></p> <p>To verify that the IUT can successfully divert a call and map a received CON from the forwarding leg to an ANM on the preceding leg, in case of CFU, CFB, CD(i), CFNR(B) or CD(a,B).</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT so that called user has activated CFU, CFB, CD(i), CFNR(B) or CD(a,B) to an external exchange.</p> | | | | |
| TSS CDIV/ | TP ISS_V_12_38 | ISUP v2 reference 2.1.1.1 e); table A.1/Q.764 | Selection expression DLE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Timer T7 expiry in the diverting exchange</i></p> <p>To verify that the IUT can divert a call and release the resources upon T7 timer expiry, if no ACM is received from the forwarded-to exchange.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT so that called user has activated diversion to an external exchange.</p> | | | | |
| TSS CDIV/ | TP ISS_V_12_39 | ISUP v2 reference 2.1.4.6 b); table A.1/Q.764 | Selection expression DLE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Timer T9 expiry in the diverting exchange</i></p> <p>To verify that the IUT can divert a call and release the resources upon T9 timer expiry, if no ANM is received from the forwarded-to exchange</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT so that called user has activated diversion to an external exchange.</p> | | | | |
| TSS CDIV/ | TP ISS_V_12_40 | ISUP v2 reference 2.5.2.5.2.2/Q.732 | Selection expression DLE AND PICS A.15/2 AND NOT PICS A.16/1 | Q.788 reference None |
| <p>Test purpose</p> <p><i>Call clearing in the diverting exchange - redirection counter set to maximum value</i></p> <p>To verify that the IUT will refuse any further external diversions and clear the call, if it is received with the redirection counter in the redirection information set to the maximum value, in case of CFU, CFB, CD(i), CFNR(B) and CD(a,B).</p> <p>The cause values shall be in case of:</p> <p>CFU "call rejected" (21) CFB "user busy" (17) CFNR(B) "no answer from user (user alerted)" (19) CD(i), CD(a,B) "no user responding" (18)</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT so that called user has activated diversion to an external exchange.</p> | | | | |

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|--------------|-------------------|--|---|-------------------------|
| TSS CDIV/ | TP ISS_V_12_41 | ISUP v2 reference 2.5.2.5.2.2/Q.732 | Selection expression DLE AND PICS A.15/2 AND PICS A.16/1 | Q.788 reference None |
|--------------|-------------------|--|---|-------------------------|

Test purpose

Continue providing ringing tone in the diverting exchange - redirection counter set to maximum value

To verify that the IUT will refuse any further (external or internal) diversions and continue providing ringing tone until the calling user clears the call (or timer T9 in OLE expires), if it is received with the redirection counter in the **redirection information** set to the maximum value, in case of CFNR(A) and CD(a,A).

Pre-test conditions

Arrange the data in the IUT so that called user has activated diversion to an exchange.

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|--------------|-------------------|---|---|-------------------------|
| TSS CDIV/ | TP ISS_V_12_42 | ISUP v2 reference 2.5.2.5.1.2 c)/Q.732; 2.6/Q.764 | Selection expression DLE AND BCall PICS A.13/11 | Q.788 reference None |
|--------------|-------------------|---|---|-------------------------|

Test purpose

Interactions with the propagation delay determination procedure

To verify that the IUT can successfully divert a call and set the required propagation delay value on the outgoing circuit correctly. The value should be set to the received value plus the propagation delay for the outgoing route, as if the IUT was an intermediate exchange.

Pre-test conditions

Arrange the data in the IUT so that called user has activated diversion to an external exchange

| | | | | |
|--------------|-------------------|----------------------------------|---|-------------------------|
| TSS CDIV/ | TP ISS_V_12_43 | ISUP v2 reference 2.6.3/Q.732 | Selection expression DLE AND PICS A.3/3 | Q.788 reference None |
|--------------|-------------------|----------------------------------|---|-------------------------|

Test purpose

Call diversion - interaction with COLP

To verify that the **connected number** and the additional connected number in the **generic number** received in an **ANM** or **CON** message are passed on unmodified at a diverting exchange.

NOTE: The CON will be mapped to an ANM.

Pre-test conditions

Arrange the data in the IUT so that called user has activated diversion to an external exchange.

| | | | | |
|--------------|-------------------|----------------------------------|---|-------------------------|
| TSS CDIV/ | TP ISS_V_12_44 | ISUP v2 reference 2.6.5/Q.732 | Selection expression DLE AND PICS A.3/1 | Q.788 reference None |
|--------------|-------------------|----------------------------------|---|-------------------------|

Test purpose

Call diversion - interaction with CLIP

To verify that the diverting exchange diverts the **calling party number** and the additional calling number in the **generic number**.

Pre-test conditions

Arrange the data in the IUT so that called user has activated diversion to an external exchange.

| | | | | |
|--|-------------------|-----------------------------------|---|-------------------------|
| TSS CDIV/ | TP ISS_V_12_45 | ISUP v2 reference 2.6.7/Q.732 | Selection expression DLE AND PICS A.3/7 | Q.788 reference None |
| <p>Test purpose</p> <p><i>Call diversion - interaction with CUG - CUG call not diverted</i></p> <p>To verify that a CUG call with outgoing access not allowed to a non-CUG user who has activated diversion is not forwarded.</p> | | | | |
| TSS CDIV/ | TP ISS_V_12_46 | ISUP v2 reference 2.6.7/Q.732 | Selection expression DLE AND PICS A.3/7 | Q.788 reference None |
| <p>Test purpose</p> <p><i>Call diversion - interaction with CUG - CUG call diverted</i></p> <p>To verify that a CUG call with outgoing access not allowed to a CUG member who has activated diversion is successful and that the CUG restrictions are forwarded.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT so that called user has activated diversion to an external exchange and has subscribed to CUG.</p> | | | | |
| TSS CDIV/ | TP ISS_V_12_47 | ISUP v2 reference 2.6.17/Q.732 | Selection expression DLE AND PICS A.3/8 | Q.788 reference None |
| <p>Test purpose</p> <p><i>Call diversion - interaction with SUB - old called party subaddress not diverted</i></p> <p>To verify that the IUT does not divert the called party subaddress.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT so that called user has activated diversion to an external exchange.</p> | | | | |
| TSS CDIV/ | TP ISS_V_12_48 | ISUP v2 reference 2.6.17/Q.732 | Selection expression DLE AND PICS A.3/8 | Q.788 reference None |
| <p>Test purpose</p> <p><i>Call diversion - interaction with SUB - new called party subaddress included</i></p> <p>To verify that a new called party subaddress corresponding to the diverted-to user shall be provided by the served user at call diversion activation and shall be included in the access transport parameter in the IAM sent on the diverted leg.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT so that called user has activated diversion to an external exchange and has subscribed to SUB.</p> | | | | |

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|---|-------------------|--|--|-------------------------|
| TSS CDIV/ | TP ISS_V_12_49 | ISUP v2 reference 2.7/Q.732; 2.1.1.1/Q.764 | Selection expression DLE AND IWorkE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Call diversion - interworking with other networks</i></p> <p>To verify that the IUT is able to handle the call to other signalling systems according to the basic call procedures. If the ISDN user part preference indicator in the forward call indicators is set to "ISDN user part...":</p> <p>...not required all the way" (01) then the call should be diverted ...preferred all the way" (00) then the call should be diverted ...required all the way" (10) then the call should be rejected/released.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT so that the called user has activated diversion with a diverted-to number which is to be routed to another signalling system.</p> | | | | |

5.2.13 Call Hold (HOLD)

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|---|------------------|--|-------------------------------|---------------------------|
| TSS HOLD/ | TP ISS_V_13_1 | ISUP v2 reference 2.5.2.1.1.1; 2.5.2.1.1.2/Q.733 | Selection expression Local | Q.788 reference 2.11.3 |
| <p>Test purpose</p> <p><i>Call hold after answer, requested by the local user</i></p> <p>To verify that a call can be placed on hold and can be retrieved again by the local user and that notifications are sent with CPG messages having the event indicator set to "progress".</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT so that the local user subscribes to the Call hold service.</p> | | | | |

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|---|------------------|--|-------------------------------|---------------------------|
| TSS HOLD/ | TP ISS_V_13_2 | ISUP v2 reference 2.5.2.1.1.1; 2.5.2.1.1.2/Q.733 | Selection expression Local | Q.788 reference 2.11.3 |
| <p>Test purpose</p> <p><i>Call hold after answer, requested by the remote user</i></p> <p>To verify that a call can be placed on hold and can be retrieved again by the remote user and that notifications are sent with CPG messages.</p> | | | | |

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|---|------------------|---|--|---------------------------|
| TSS HOLD/ | TP ISS_V_13_3 | ISUP v2 reference 2.2.1; 2.5.2.1.1.1; 2.5.2.1.1.2/Q.733 | Selection expression OLE and PICS A.17/2 | Q.788 reference 2.11.1 |
| <p>Test purpose</p> <p><i>Call hold after alerting, requested by the local user</i></p> <p>To verify that an outgoing call can be placed on HOLD after alerting has commenced and can be retrieved afterwards by the local user and that notifications are sent with CPG messages.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT so that the local user subscribes to the Call hold service.</p> | | | | |

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|--|------------------|---|---|---------------------------|
| TSS HOLD/ | TP ISS_V_13_4 | ISUP v2 reference 2.2.1; 2.9/Q.733 | Selection expression OLE and PICS A.17/2 | Q.788 reference None |
| <p>Test purpose</p> <p><i>Call hold after alerting, expiry of T9 while the call is on hold</i></p> <p>To verify that a held call is released if it is not answered before expiry of T9 (waiting for ANM).</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT so that the local user subscribes to the Call hold service.</p> | | | | |
| TSS HOLD/ | TP ISS_V_13_5 | ISUP v2 reference 2.2.1; 2.5.2.1.1.1; 2.5.2.1.1.2/Q.733 | Selection expression OLE and PICS A.17/1 | Q.788 reference 2.11.1 |
| <p>Test purpose</p> <p><i>Call hold after IAM, local user requests HOLD for outgoing call</i></p> <p>To verify that an outgoing call can be placed on hold and can be retrieved afterwards by the local user and that notifications are sent with CPG messages.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT so that the local user subscribes to the Call hold service.</p> | | | | |
| TSS HOLD/ | TP ISS_V_13_6 | ISUP v2 reference 2.5.2.2.1; 2.5.2.3.1; 2.5.2.4.1/Q.733 | Selection expression IntermE | Q.788 reference 2.11.3 |
| <p>Test purpose</p> <p><i>Call hold after answer (transit call)</i></p> <p>To verify that a transit call can be placed on hold and can be retrieved again by the served user (called or calling party) and that the indications are passed on transparently.</p> | | | | |
| TSS HOLD/ | TP ISS_V_13_7 | ISUP v2 reference 2.2.2; 2.5.2.2.1; 2.5.2.3.1; 2.5.2.4.1/Q.733 | Selection expression IntermE | Q.788 reference 2.11.1 |
| <p>Test purpose</p> <p><i>Call hold after alerting (transit call)</i></p> <p>To verify that a transit call can be placed on hold after alerting has commenced at the called party and can be retrieved afterwards and that the indications are passed on transparently by the IUT.</p> | | | | |
| TSS HOLD/ | TP ISS_V_13_8 | ISUP v2 reference 2.7/Q.733 | Selection expression IWorkE and PICS A.17/3 | Q.788 reference None |
| <p>Test purpose</p> <p><i>Call hold after answer, interworking with PSTN</i></p> <p>To verify that an in-band indication is sent to the PSTN subscriber if a call is placed on hold by the ISDN subscriber.</p> | | | | |

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|--|------------------|--------------------------------|-------------------------------|---------------------------|
| TSS HOLD/ | TP ISS_V_13_9 | ISUP v2 reference 2.3/Q.764 | Selection expression Local | Q.788 reference 2.11.4 |
| <p>Test purpose</p> <p><i>Call hold after answer, release of the call by the local served user</i></p> <p>To verify that a call in the held state can be released by the user who activated the Call hold service.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT so that the local user subscribes to the Call hold service.</p> | | | | |

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|---|-------------------|--------------------------------|-------------------------------|---------------------------|
| TSS HOLD/ | TP ISS_V_13_10 | ISUP v2 reference 2.3/Q.764 | Selection expression Local | Q.788 reference 2.11.5 |
| <p>Test purpose</p> <p><i>Call hold after answer, release of the call by the non-served user</i></p> <p>To verify that a call in the held state can be released by the user who did not activate the Call hold service.</p> | | | | |

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|---|-------------------|--------------------------------|-------------------------------|---------------------------|
| TSS HOLD/ | TP ISS_V_13_11 | ISUP v2 reference 2.3/Q.764 | Selection expression Local | Q.788 reference 2.11.2 |
| <p>Test purpose</p> <p><i>Call hold after alerting, release of the call by the local served user</i></p> <p>To verify that a held call can be released by the user who activated the Call hold service without retrieving the call.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT so that the local user subscribes to the Call hold service.</p> | | | | |

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|---|-------------------|--|-----------------------------|---------------------------|
| TSS HOLD/ | TP ISS_V_13_12 | ISUP v2 reference 2.2.1; 2.5.2.5.1/Q.733 | Selection expression DLE | Q.788 reference 2.11.1 |
| <p>Test purpose</p> <p><i>Call hold after alerting, requested by the remote user</i></p> <p>To verify that an incoming call can be placed on hold and can be retrieved afterwards by the remote user.</p> | | | | |

5.2.14 Call Waiting (CW)

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|--|------------------|--------------------------------------|-----------------------------|---------------------------|
| TSS CW/ | TP ISS_V_14_1 | ISUP v2 reference 1.5.2.1.1/Q.733 | Selection expression OLE | Q.788 reference 2.10.1 |
| <p>Test purpose</p> <p><i>Call waiting indication in ACM</i></p> <p>To verify that a call can be successfully established if the ACM indicates that it is a waiting call.</p> | | | | |

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|--|------------------|--------------------------------------|-----------------------------|---------------------------|
| TSS CW/ | TP ISS_V_14_2 | ISUP v2 reference 1.5.2.1.1/Q.733 | Selection expression OLE | Q.788 reference 2.10.1 |
| <p>Test purpose</p> <p><i>Call waiting indication in CPG</i></p> <p>To verify that a call can be successfully established if the CPG indicates that it is a waiting call.</p> | | | | |

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|---|------------------|---|---------------------------------|---------------------------|
| TSS CW/ | TP ISS_V_14_3 | ISUP v2 reference 1.5.2.2.1; 1.5.2.3.1; 1.5.2.4.1/Q.733 | Selection expression IntermE | Q.788 reference 2.10.1 |
| <p>Test purpose</p> <p><i>Call waiting indication in ACM (transit)</i></p> <p>To verify that a call can be successfully established if the ACM indicates that it is a waiting call.</p> | | | | |
| TSS CW/ | TP ISS_V_14_4 | ISUP v2 reference 1.5.2.2.1; 1.5.2.3.1; 1.5.2.4.1/Q.733 | Selection expression IntermE | Q.788 reference 2.10.1 |
| <p>Test purpose</p> <p><i>Call Waiting indication in CPG (transit)</i></p> <p>To verify that a call can be successfully established if the CPG indicates that it is a waiting call.</p> | | | | |
| TSS CW/ | TP ISS_V_14_5 | ISUP v2 reference 1.5.2.5.1/Q.733 | Selection expression DLE | Q.788 reference 2.10.1 |
| <p>Test purpose</p> <p><i>Call waiting indication in ACM or CPG</i></p> <p>To verify that a call can be successfully established if the user has subscribed to the call waiting service (with notification) and if he is currently busy, but answers the waiting call. The indication shall be sent either in an ACM or a CPG.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT so that the called user subscribes to the call waiting service with the notification option.</p> | | | | |
| TSS CW/ | TP ISS_V_14_6 | ISUP v2 reference 1.5.2.5.1/Q.733 | Selection expression DLE | Q.788 reference 2.10.1 |
| <p>Test purpose</p> <p><i>Call waiting without notification</i></p> <p>To verify that a call can be successfully established if the user has subscribed to the call waiting service (without notification) and if he is currently busy, but answers the waiting call. No indication shall be sent to the calling user.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT so that the called user subscribes to the call waiting service without the notification option.</p> | | | | |
| TSS CW/ | TP ISS_V_14_7 | ISUP v2 reference 1.5.2.5.2/Q.733 | Selection expression DLE | Q.788 reference 2.10.2 |
| <p>Test purpose</p> <p><i>Call waiting rejected</i></p> <p>To verify that the IUT sends a REL with cause #21 (call rejected) if a busy user rejects the waiting call.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT so that the called user subscribes to the call waiting service with the notification option.</p> | | | | |

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|--|------------------|--------------------------------------|-----------------------------|---------------------------|
| TSS CW/ | TP ISS_V_14_8 | ISUP v2 reference 1.5.2.5.2/Q.733 | Selection expression DLE | Q.788 reference 2.10.3 |
| <p>Test purpose</p> <p><i>Call waiting ignored (expiry of call waiting supervision timer)</i></p> <p>To verify that the IUT sends a REL with cause #19 (no answer from user, user alerted) if a busy user does not answer the waiting call.</p> <p>Pre-test conditions Arrange the data in the IUT so that the called user subscribes to the call waiting service with the notification option.</p> | | | | |

5.2.15 Completion of Calls to Busy Subscriber (CCBS)

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|---|------------------|---|-----------------------------|-------------------------|
| TSS CCBS-ISUP/ | TP ISS_V_15_1 | ISUP v2 reference 7.1.1; 9.2.1/ ETS 300 356-18 [17] | Selection expression OLE | Q.788 reference None |
| <p>Test purpose</p> <p><i>ISUP Preference Indicator in the CCBS call</i></p> <p>To verify that for the CCBS call, the IUT sets the ISUP preference indicator in the forward call indicator parameter in the IAM to "ISDN User Part required all the way".</p> <p>Pre-test conditions Arrange the data in the IUT such that the calling user subscribes to the CCBS supplementary service.</p> | | | | |

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|--|------------------|--|-----------------------------|-------------------------|
| TSS CCBS-ISUP/ | TP ISS_V_15_2 | ISUP v2 reference 7.1.3/ ETS 300 356-18 [17] | Selection expression OLE | Q.788 reference None |
| <p>Test purpose</p> <p><i>CCBS parameter in the CCBS call</i></p> <p>To verify that for the CCBS call, the IUT includes in the IAM the CCBS call indicator in the CCBS parameter coded as "CCBS call".</p> <p>Pre-test conditions Arrange the data in the IUT such that the calling user subscribes to the CCBS supplementary service.</p> | | | | |

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|--|------------------|--|-----------------------------|-------------------------|
| TSS CCBS-ISUP/ | TP ISS_V_15_3 | ISUP v2 reference 9.1.1.1.1/ ETS 300 356-18 [17] | Selection expression OLE | Q.788 reference None |
| <p>Test purpose</p> <p><i>CCBS call with retained basic call information</i></p> <p>To verify that for the CCBS call, the IUT includes the retained call information in the IAM:</p> <p>User service information; User service information prime; Access transport (e.g. called party subaddress); Called party number.</p> <p>Pre-test conditions Arrange the data in the IUT such that the calling user subscribes to the CCBS and such that the relevant call information that is to be tested may be provided by the calling user.</p> | | | | |

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|---|------------------|--|--|-------------------------|
| TSS CCBS-ISUP/ | TP ISS_V_15_4 | ISUP v2 reference 9.1.1.1.1; 11.17/ ETS 300 356-18 [17] | Selection expression OLE AND PICS A.18/3 | Q.788 reference None |
| <p>Test purpose</p> <p><i>CCBS call with retained call information & interactions with other supplementary services</i></p> <p>To verify that for the CCBS call, the IUT includes the retained call information in the IAM: Calling party number (if supported); Access transport (e.g. calling party subaddress if supported); UUS1,2,3 (retained request if supported); UUS1 (information given by user in response to CCBS recall, if supported); Optional forward call indicator (with COLP request).</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT such that the calling user subscribes to the CCBS and such that the relevant call information for the applicable supplementary services may be provided by the calling user (e.g. SUB, COLP).</p> | | | | |
| TSS CCBS-ISUP/ | TP ISS_V_15_5 | ISUP v2 reference 9.3.1; 9.4.1; 9.5.1/ ETS 300 356-18 [17] | Selection expression IntermE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Transit support of diagnostics field in REL</i></p> <p>To verify that the IUT is able to pass the diagnostics field including the CCBS indicator transparently to the preceding exchange.</p> | | | | |
| TSS CCBS-ISUP/ | TP ISS_V_15_6 | ISUP v2 reference 9.3.1; 9.4.1; 9.5.1/ ETS 300 356-18 [17] | Selection expression IntermE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Transit support of CCBS parameter in IAM</i></p> <p>To verify that the IUT is able to pass CCBS parameter transparently to the succeeding exchange.</p> | | | | |
| TSS CCBS-ISUP/ | TP ISS_V_15_7 | ISUP v2 reference 7.1.2/ ETS 300 356-18 [17] | Selection expression DLE | Q.788 reference None |
| <p>Test purpose</p> <p><i>CCBS possible to destination B</i></p> <p>To verify that the IUT is able to generate in a REL message with cause # 17 "User busy" or # 34 "No circuit available" the diagnostics field containing a CCBS indicator with a "CCBS possible" indication.</p> | | | | |
| TSS CCBS-ISUP/ | TP ISS_V_15_8 | ISUP v2 reference 7.1.3/ ETS 300 356-18 [17] | Selection expression DLE | Q.788 reference None |
| <p>Test purpose</p> <p><i>CCBS parameter in the CCBS call</i></p> <p>To verify that the IUT is able to terminate the CCBS call, with the CCBS call indicator in the CCBS parameter in the IAM coded as "CCBS call".</p> | | | | |

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|--|------------------|--|-----------------------------|-------------------------|
| TSS CCBS-ISUP/ | TP ISS_V_15_9 | ISUP v2 reference 9/ ETS 300 356-18 [17] | Selection expression DLE | Q.788 reference None |
| <p>Test purpose</p> <p><i>CCBS not possible to destination B</i></p> <p>To verify that the IUT is able to generate in a REL message with cause #17 "User busy" or cause #34 "No circuit available" the diagnostics field containing a CCBS indicator with a "CCBS not possible" indication.</p> <p>NOTE: CCBS is not possible because e.g. the queue is set to zero or filled up or due to maintenance reasons.</p> <p>Pre-test conditions Arrange the data in the IUT such that CCBS for destination B is not possible</p> | | | | |

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|--|-------------------|--|-------------------------------|-------------------------|
| TSS CCBS-ISUP/ | TP ISS_V_15_10 | ISUP v2 reference annex B/ ETS 300 356-18 [17] | Selection expression Local | Q.788 reference None |
| <p>Test purpose</p> <p><i>Parameter compatibility information - CCBS</i></p> <p>To verify that the IUT generates the correct parameter compatibility information for the CCBS in the IAM.</p> <p>Pre-test conditions for OLE Arrange the data in the IUT so that the calling user subscribes to CCBS.</p> | | | | |

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|--|-------------------|---|--|-------------------------|
| TSS CCBS-ISUP/ | TP ISS_V_15_11 | ISUP v2 reference 11.10.2.2.c; 9.6.2.c/ ETS 300 356-18 [17] | Selection expression DLE and PICS A.18/1 | Q.788 reference None |
| <p>Test purpose</p> <p><i>Destination busy upon arrival of CCBS call - Interaction with CFB and retention option supported</i></p> <p>To verify that the IUT sends a REL with cause #17 or #34 and diagnostics "CCBS possible".</p> <p>The DLE should retain the original request in the queue.</p> | | | | |

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|---|-------------------|---|--|-------------------------|
| TSS CCBS-ISUP/ | TP ISS_V_15_12 | ISUP v2 reference 11.10.2.2.c; 9.6.2.c/ ETS 300 356-18 [17] | Selection expression DLE AND NOT PICS A.18/1 | Q.788 reference None |
| <p>Test purpose</p> <p><i>Destination busy upon arrival of CCBS call - Interaction with CFB and no retention option supported</i></p> <p>To verify that the IUT sends a REL with cause #17 or #34 with diagnostics "CCBS possible" when the terminals are compatible.</p> <p>The DLE releases all its resources for the original request and waits for new CCBS request.</p> | | | | |

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|---|-------------------|--|--|-------------------------|
| TSS CCBS-ISUP/ | TP ISS_V_15_13 | ISUP v2 reference 11.10.2.2.c/ ETS 300 356-18 [17] | Selection expression DLE AND PICS A.18/9 | Q.788 reference None |
| <p>Test purpose</p> <p><i>CCBS call as a normal call - Interaction with CFB</i></p> <p>To verify that the IUT deletes the CCBS parameter in the IAM if the CCBS call is forwarded by the initially busy user.</p> <p>Pre-test conditions User at destination B must subscribe to and activate CFB to an external user while the recall timer is running (CCBS-T9).</p> | | | | |

| | | | | |
|---|-------------------|--|--|-------------------------|
| TSS CCBS-ISUP/ | TP ISS_V_15_14 | ISUP v2 reference 9.6.1/ ETS 300 356-18 [17] | Selection expression DLE AND PICS A.18/6 | Q.788 reference None |
| <p>Test purpose</p> <p><i>Maximum number of CCBS request queue entries of destination B</i></p> <p>To verify that the IUT supports the maximum number of up to 5 queue entries.</p> | | | | |
| TSS CCBS-ISUP/ | TP ISS_V_15_15 | ISUP v2 reference 9.6.1/ ETS 300 356-18 [17] | Selection expression DLE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Incoming non-CCBS call with identical service requirements released</i></p> <p>To verify that the IUT, having an entry in the CCBS queue, releases a second incoming call if the service requirements of the second call are identical to the entry being processed and resources are available.</p> <p>NOTE: The original request remains in the queue.</p> <p>Pre-test conditions Arrange the data in the IUT so that there are free resources in addition to the resource reserved for the first CCBS request.</p> | | | | |
| TSS CCBS-ISUP/ | TP ISS_V_15_16 | ISUP v2 reference 9.6.1/ ETS 300 356-18 [17] | Selection expression DLE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Incoming non-CCBS call with not identical service requirements accepted</i></p> <p>To verify that the IUT, having a queue entry in the CCBS queue, accepts a second incoming call if the service requirements of the second call are not identical to the entry being processed and resources are available.</p> <p>NOTE: The original request remains in the queue.</p> <p>Pre-test conditions Arrange the data in the IUT so that there are free resources in addition to the resource reserved for the first CCBS request.</p> | | | | |

CCBS Application Service Element (ASE)

| | | | | |
|---|---------------------|--|-----------------------------|-------------------------|
| TSS CCBS-ASE/ | TP ISS_TC_V_15_1 | ISUP v2 reference 9.1.1.1.1/ ETS 300 356-18 [17] | Selection expression OLE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Ability to perform a CCBS REQUEST class 1 operation - successful</i></p> <p>To verify that the IUT can successfully perform a CCBS REQUEST operation if required by the calling user:</p> <p>NOTE 1: Send a CcbsRequest invoke to the DLE by using the TCAP primitive TC-BEGIN request(TC-INVOKE request).</p> <p>NOTE 2: Receive a CcbsRequest return result from the DLE in a TC-CONTINUE indication(TC-INVOKE indication).</p> <p>Pre-test conditions Arrange the data in the IUT such that the calling user subscribes to the CCBS supplementary service.</p> | | | | |

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|---|---------------------|--|-----------------------------|-------------------------|
| TSS CCBS-ASE/ | TP ISS_TC_I_15_2 | ISUP v2 reference 9.1.1.1.2/ ETS 300 356-18 [17] | Selection expression OLE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Ability to perform a CCBS REQUEST class 1 operation - unsuccessful</i></p> <p>To verify that if a failure occurs (short or long term denial) while invoking a CCBS REQUEST operation, the IUT is able to indicate the result to the calling user.</p> <p>NOTE 1: Send a CcbsRequest invoke to the DLE by using the TCAP primitive TC-BEGIN request(TC-INVOKE request).</p> <p>NOTE 2: Receive a CcbsRequest return error from the DLE in a TC-END indication(TC-U-ERROR indication).</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT such that the calling user subscribes to the CCBS supplementary service.</p> | | | | |

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|--|---------------------|--|-----------------------------|-------------------------|
| TSS CCBS-ASE/ | TP ISS_TC_V_15_3 | ISUP v2 reference 9.1.2.1.1/ ETS 300 356-18 [17] | Selection expression OLE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Ability to perform a CCBS CANCEL class 4 operation</i></p> <p>To verify that the IUT can successfully perform a deactivation request if required by the calling user.</p> <p>NOTE: Send a CcbsCancel invoke without cancelCause to the DLE by using the TCAP primitive TC-END request(TC-INVOKE request).</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT such that the calling user subscribes to the CCBS supplementary service.</p> | | | | |

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|--|---------------------|--|-----------------------------|-------------------------|
| TSS CCBS-ASE/ | TP ISS_TC_V_15_4 | ISUP v2 reference 9.2.1/ ETS 300 356-18 [17] | Selection expression OLE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Ability to indicate a CCBS recall to the calling user</i></p> <p>To verify that the IUT can successfully initiate a CCBS recall to the calling user:</p> <p>NOTE: Receive a RemoteUserFree invoke from the DLE in a TC-CONTINUE indication(TC-INVOKE indication).</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT such that the calling user subscribes to the CCBS supplementary service.</p> | | | | |

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|--|---------------------|---|--|-------------------------|
| TSS CCBS-ASE/ | TP ISS_TC_I_15_5 | ISUP v2 reference 9.2.1/ ETS 300 356-18 [17] | Selection expression OLE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Calling user busy when destination B becomes free</i></p> <p>To verify that the IUT can act correctly after receipt of the indication that destination B is free but calling user A is still busy:</p> <p>NOTE 1: Receive a RemoteUserFree invoke from the DLE in a TC-CONTINUE indication(TC-INVOKE indication)</p> <p>NOTE 2: Notify the calling user A</p> <p>NOTE 3: Send CcbsSuspend invoke in a TC-CONTINUE request(TC-INVOKE request) to the DLE</p> <p>NOTE 4: Eventually send CcbsResume invoke in TC-CONTINUE request(TC-INVOKE request) to the DLE if the calling user becomes free.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT such that the calling user subscribes to the CCBS supplementary service.</p> | | | | |
| TSS CCBS-ASE/ | TP ISS_TC_V_15_6 | ISUP v2 reference 3/ ETS 300 356-18 [17] | Selection expression Local AND PICS A.18/1 | Q.788 reference None |
| <p>Test purpose</p> <p><i>Support of the retain option</i></p> <p>To verify that the IUT performs the retain option by setting the retainSupported parameter to TRUE or FALSE in the CcbsRequest or in the CcbsRequest return result.</p> <p>Pre-test conditions for OLE</p> <p>Arrange the data in the IUT such that the calling user subscribes to the CCBS supplementary service.</p> | | | | |
| TSS CCBS-ASE/ | TP ISS_TC_V_15_7 | ISUP v2 reference 9.1.1.1.1/ ETS 300 356-18 [17] | Selection expression OLE AND PICS A.18/2 | Q.788 reference None |
| <p>Test purpose</p> <p><i>Maximum number of outstanding CCBS requests of a user</i></p> <p>To verify that the IUT does not send any CcbsRequest to the DLE if the maximum number of outstanding requests is reached.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT such that the calling user subscribes to the CCBS supplementary service.</p> | | | | |
| TSS CCBS-ASE/ | TP ISS_TC_I_15_8 | ISUP v2 reference 9.1.1.2.2; 9.6.1; 9.9.4/ ETS 300 356-18 [17] | Selection expression DLE AND PICS A.18/6 | Q.788 reference None |
| <p>Test purpose</p> <p><i>Maximum number of queue entries CCBS requests</i></p> <p>To verify that the IUT sends a CcbsRequest return error to the OLE if the maximum number of queue entries is reached.</p> <p>NOTE: Send CcbsRequest return error in TC-END request(TC-INVOKE request).</p> | | | | |

| | | | | |
|--|----------------------|---|--|-------------------------|
| TSS CCBS-ASE/ | TP ISS_TC_V_15_9 | ISUP v2 reference 9.9.4/ ETS 300 356-18 [17] | Selection expression Local | Q.788 reference None |
| <p>Test purpose</p> <p><i>Ability to end a dialogue</i></p> <p>To verify that the IUT can end a TC dialogue after a successful CCBS call.</p> <p>NOTE: Send a TC-END request without component primitive upon sending of the ACM, CPG or CON.</p> <p>Pre-test conditions for OLE</p> <p>Arrange the data in the IUT such that the calling user subscribes to the CCBS supplementary service.</p> | | | | |
| TSS CCBS-ASE/ | TP ISS_TC_V_15_10 | ISUP v2 reference 10.1/ ETS 300 356-18 [17] | Selection expression OLE AND PICS A.18/7 | Q.788 reference None |
| <p>Test purpose</p> <p><i>Initiate the CCBS supplementary service even if no diagnostics is received in the release message</i></p> <p>To verify that the IUT sends a CcbsRequest invoke if the calling user activates the CCBS.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT such that the calling user subscribes to the CCBS supplementary service.</p> | | | | |
| TSS CCBS-ASE/ | TP ISS_TC_V_15_11 | ISUP v2 reference 12.1/ ETS 300 356-18 [17] | Selection expression OLE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Support of the retention timer CCBS-T1</i></p> <p>To verify that the retention timer CCBS-T1 can be started after receive of a release message with cause value # 17 or # 34 from the DLE and stopped normally after activation of the CCBS supplementary service by the calling user.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT such that the calling user subscribes to the CCBS supplementary service.</p> | | | | |
| TSS CCBS-ASE/ | TP ISS_TC_V_15_12 | ISUP v2 reference 9.9.4 c); 12.1/ ETS 300 356-18 [17] | Selection expression OLE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Support of the CCBS request operation timer CCBS-T2</i></p> <p>To verify that the timer CCBS-T2 can be started after sending of a CcbsRequest to the DLE and stopped normally after receipt of CcbsRequest return result from the DLE.</p> <p>NOTE: If the timer expires a TC-END with TC-L-CANCEL indication primitive is received from the DLE and the service request is rejected.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT such that the calling user subscribes to the CCBS supplementary service.</p> | | | | |

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|--|----------------------|---|--|-------------------------|
| TSS CCBS-ASE/ | TP ISS_TC_I_15_13 | ISUP v2 reference 9.1.2.1.2/ ETS 300 356-18 [17] | Selection expression OLE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Support of the CCBS service duration timer CCBS-T3</i></p> <p>To verify that the IUT can successfully deactivate a CCBS request if the CCBS service duration timer CCBS-T3 expires.</p> <p>NOTE: Send a CcbsCancel invoke with cancelCause to the DLE by using the TCAP primitive TC-END request(TC-INVOKE request) with cancelCause "CCBS-T3 Timeout".</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT such that the calling user subscribes to the CCBS supplementary service.</p> | | | | |
| TSS CCBS-ASE/ | TP ISS_TC_I_15_14 | ISUP v2 reference 9.1.2.1.2 b); 12.1/ ETS 300 356-18 [17] | Selection expression OLE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Support of the CCBS recall timer CCBS-T4</i></p> <p>To verify that the timer CCBS-T4 can be stopped after receiving an indication from the user for a CCBS recall.</p> <p>NOTE: CCBS-T4 contains the maximum time the network will wait for the calling user A to respond to a CCBS recall. The OLE sends a CcbsCancel invoke in TC-END request to the DLE in case of CCBS-T4 expiry.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT such that the calling user subscribes to the CCBS supplementary service.</p> | | | | |
| TSS CCBS-ASE/ | TP ISS_TC_I_15_15 | ISUP v2 reference 9.2.2.c 1)/ ETS 300 356-18 [17] | Selection expression OLE AND PICS A.18/5 | Q.788 reference None |
| <p>Test purpose</p> <p><i>Reject a second identical activation of CCBS</i></p> <p>To verify that the IUT does not send any CcbsRequest to the DLE if a second identical activation of CCBS is done.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT so that the calling user subscribes to CCBS supplementary service.</p> | | | | |
| TSS CCBS-ASE/ | TP ISS_TC_I_15_16 | ISUP v2 reference 9.2.2.c 2)/ ETS 300 356-18 [17] | Selection expression OLE AND PICS A.18/4 | Q.788 reference None |
| <p>Test purpose</p> <p><i>Treat a second identical activation of CCBS as a new request</i></p> <p>To verify that the IUT treats a second identical activation of CCBS as a new request.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT so that the calling user subscribes to CCBS supplementary service.</p> | | | | |

| | | | | |
|--|----------------------|--|---|-------------------------|
| TSS CCBS-ASE/ | TP ISS_TC_I_15_17 | ISUP v2 reference 9.1.2.2.2/ ETS 300 356-18 [17] | Selection expression DLE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Support of the CCBS service supervision timer CCBS-T7</i></p> <p>To verify that the IUT deactivates the CCBS-request if CCBS-T7 expires.</p> <p>NOTE 1: CCBS-T7 is started after sending a CcbsRequest return result to the OLE</p> <p>NOTE 2: CCBS-T7 is stopped after the destination B becomes not busy, before sending RemoteUserFree to the OLE.</p> <p>NOTE 3: Send a CcbsCancel invoke in a TC-END request(TC-INVOKE request) with cancelCause "CCBS-T7 Timeout".</p> | | | | |
| TSS CCBS-ASE/ | TP ISS_TC_I_15_18 | ISUP v2 reference 9.6.2 a); 12.1/ ETS 300 356-18 [17] | Selection expression DLE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Support of the destination B idle guard timer CCBS-T8</i></p> <p>To verify that no resources are available at the destination B side until timer CCBS-T8 expires.</p> | | | | |
| TSS CCBS-ASE/ | TP ISS_TC_V_15_19 | ISUP v2 reference 9.6.2 d); 12.1/ ETS 300 356-18 [17] | Selection expression DLE | Q.788 reference None |
| <p>Test purpose</p> <p><i>Support of the DLE recall timer CCBS-T9</i></p> <p>To verify that the timer CCBS-T9 can be started after sending of a TC-CONTINUE with RemoteUserFree from the DLE and stopped after CCBS call is received from the OLE.</p> <p>NOTE: Send a CcbsCancel invoke in a TC-END request(TC-INVOKE request) with cancelCause "CCBS-T9 Timeout".</p> | | | | |
| TSS CCBS-ASE/ | TP ISS_TC_I_15_20 | ISUP v2 reference 10.6.3.3.1; 10.6.3.3.2; 12.3/ ETS 300 356-18 [17] | Selection expression Local AND PICS A.18/19 | Q.788 reference None |
| <p>Test purpose</p> <p><i>Support of the interworking supervision timer T_{SUP}</i></p> <p>To verify that the timer T_{SUP} is used correctly in case of interworking with a private network.</p> <p>NOTE 1: The DLE sends a CcbsCancel invoke in TC-END request to the OLE without cancelCause in case of T_{SUP} timer expiry.</p> <p>NOTE 2: The OLE sends a CcbsCancel invoke in TC-END request to the DLE without cancelCause in case of T_{SUP} timer expiry.</p> <p>Pre-test conditions for OLE</p> <p>Arrange the data in the IUT such that the calling user subscribes to the CCBS supplementary service.</p> | | | | |

| | | | | |
|--|----------------------|--|-----------------------------|-------------------------|
| TSS CCBS-ASE/ | TP ISS_TC_I_15_21 | ISUP v2 reference 9.1.1.1.1/ ETS 300 356-18 [17] | Selection expression OLE | Q.788 reference None |
| <p>Test purpose</p> <p><i>CCBS REQUEST not invoked</i></p> <p>To verify that if a call is released with a cause other than #17 or #34, then no CCBS REQUEST shall be sent from the OLE to the DLE</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT such that the calling user subscribes to the CCBS supplementary service.</p> | | | | |

5.2.16 Three-Party (3PTY)

| | | | | |
|---|------------------|---|-------------------------------|---------------------------|
| TSS THREE_PTY/ | TP ISS_V_16_1 | ISUP v2 reference 2.4; 2.2.1/Q.734.2 | Selection expression Local | Q.788 reference 2.14.1 |
| <p>Test purpose</p> <p><i>Served user initiates 3PTY</i></p> <p>To verify that the IUT, where the served user with two active calls is located, can successfully join these calls to form a three-way conversation, and notify the implied remote parties accordingly.</p> <p>The IUT should send CPG messages with the generic notification indicator set to "conference established" to both implied parties. The event indicator in the CPG should be set to "progress".</p> <p>The notification should be independent of the call set up direction of the two calls; i.e. it should apply to all of the following scenarios: A -->B; A<-- B; A -->B; A<-- B A -->C; A -->C; A<--C; A<-- C</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT such that the served user subscribes to the 3PTY and HOLD supplementary services.</p> | | | | |
| TSS THREE_PTY/ | TP ISS_V_16_2 | ISUP v2 reference 2.5.2.1.1.3 a)/ Q.734.2 | Selection expression Local | Q.788 reference 2.14.1 |
| <p>Test purpose</p> <p><i>Served user creates a private communication with a remote user</i></p> <p>To verify that the IUT (controlling the conference) on a 3PTY call can successfully create private communication with one of the remote users. The appropriate notification (depending on A-B active-held or A-C active-idle connection) is sent in CPG messages to the two users.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT such that the served user subscribes to the 3PTY and HOLD supplementary services.</p> | | | | |

| | | | | |
|-------------------|------------------|--|-------------------------------|---------------------------|
| TSS THREE_PTY/ | TP ISS_V_16_3 | ISUP v2 reference 2.5.2.1.1.3 b)/ ETS 300 356-19 [18] 9.2.4.1/ ETS 300 188-1 | Selection expression Local | Q.788 reference 2.14.2 |
|-------------------|------------------|--|-------------------------------|---------------------------|

Test purpose

Served user disconnects one remote user and retains the other

To verify that the IUT (controlling the conference) on a 3PTY call can successfully disconnect one remote user and retain and notify the other user appropriately using **CPG** messages.

The IUT should send to the appropriate remote users **CPG** messages with **generic notification indicator** (depending on A-B active-held or A-C active-idle connection). The **event indicator** in the **CPG** should be set to "progress".

NOTE: The "remote hold" notification should be sent in a **CPG** to the remaining remote user, followed by the "conference disconnected" notification in a separate **CPG**.

Pre-test conditions

Arrange the data in the IUT such that the served user has activated 3PTY and HOLD supplementary services.

| | | | | |
|-------------------|------------------|--|-------------------------------|---------------------------|
| TSS THREE_PTY/ | TP ISS_V_16_4 | ISUP v2 reference 2.5.2.1.1.3/ ETS 300 356-19 [18] | Selection expression Local | Q.788 reference 2.14.4 |
|-------------------|------------------|--|-------------------------------|---------------------------|

Test purpose

Served user disconnects both remote users and terminates the call

To verify that the IUT (controlling the conference) can send the appropriate notification to the two remote users when disconnecting both remote users on the 3PTY call.

The IUT should send to the appropriate remote users a **CPG** with a **generic notification indicator** (depending on A-B active-held or A-C active-idle connection). The **event indicator** in the **CPG** is set to "progress".

Pre-test conditions

Arrange the data in the IUT such that the served user has activated 3PTY and HOLD supplementary services.

| | | | | |
|-------------------|------------------|------------------------------------|-------------------------------|---------------------------|
| TSS THREE_PTY/ | TP ISS_V_16_5 | ISUP v2 reference 2.2.1/Q.734.2 | Selection expression Local | Q.788 reference 2.14.3 |
|-------------------|------------------|------------------------------------|-------------------------------|---------------------------|

Test purpose

Remote user disconnects 3PTY call

To verify that the IUT (controlling the conference) can successfully continue the 3PTY call after receiving disconnection by one of the remote users, and send the appropriate notification to the remaining party.

The IUT should send to the other remote user **CPG** with a **generic notification indicator** (depending on A-B active-held or A-C active-idle connection). The **event indicator** in the **CPG** is set to "progress".

NOTE: The "remote hold" notification should be sent in a **CPG** to the other remote user, followed by the "conference disconnected" notification in a separate **CPG**.

Pre-test conditions

Arrange the data in the IUT such that the served user has activated 3PTY and HOLD supplementary services.

| | | | | |
|--|------------------|---|---------------------------------|---------------------------|
| TSS THREE_PTY/ | TP ISS_V_16_6 | ISUP v2 reference 2.5.2.2 to 2.5.4.1/ Q.734.2; table 2-1/ ETS 300 356-19 [18] | Selection expression IntermE | Q.788 reference 2.14.1 |
| <p>Test purpose</p> <p><i>Transit support of 3PTY</i></p> <p>To verify that the IUT can transparently transfer all information related to 3PTY.</p> <p>The IUT should be able to transparently transfer the CPG message with the following notifications in the generic notification indicator in both the forward and the backward direction:</p> <ol style="list-style-type: none"> 1) "Conference established" 2) "Conference disconnected" 3) "Remote hold" | | | | |
| TSS THREE_PTY/ | TP ISS_V_16_7 | ISUP v2 reference 2.5.2.5.1/Q.734.2; table 2-1/ ETS 300 356-19 [18] | Selection expression DLE | Q.788 reference 2.14.1 |
| <p>Test purpose</p> <p><i>Remote user included in 3PTY</i></p> <p>To verify that the IUT can receive the notification information IUT related to 3PTY, and pass it on to the access signalling system</p> <p>The IUT should be able to transparently transfer the CPG message with the following notifications in the generic notification indicator in both the forward and the backward direction:</p> <ol style="list-style-type: none"> 1) "Conference established" 2) "Conference disconnected" 3) "Remote hold" | | | | |
| TSS THREE_PTY/ | TP ISS_V_16_8 | ISUP v2 reference 2.6.15/Q.734.2 | Selection expression Local | Q.788 reference None |
| <p>Test purpose</p> <p><i>Served user initiates 3PTY; interaction with HOLD</i></p> <p>To verify that the IUT does not send any notifications to the remote users by request of HOLD by the served user during the 3PTY conversation active phase.</p> <p>Pre-test conditions</p> <p>Arrange the data in the IUT such that the served user has activated 3PTY and HOLD supplementary services.</p> | | | | |
| TSS THREE_PTY/ | TP ISS_V_16_9 | ISUP v2 reference 2.7/Q.734.2 | Selection expression IWorkE | Q.788 reference None |
| <p>Test purpose</p> <p><i>3PTY; interaction with other networks</i></p> <p>To verify that the IUT will discard the call progress information in case of interaction with network which does not provide it. The 3PTY should be completed.</p> | | | | |

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|--|-------------------|---|-----------------------------|-------------------------|
| TSS THREE_PTY/ | TP ISS_V_16_10 | ISUP v2 reference annex ZA/ ETS 300 356-19 [18] | Selection expression OLE | Q.788 reference None |
| Test purpose <i>Coding of compatibility information for the generic notification parameter;</i> To verify that the compatibility information parameter for the generic notification indicator parameter is coded correctly. | | | | |

6 Test coverage

The TPs defined in this ETS cover most main capabilities of the ISUP version 2 reference specifications for supplementary services. A list containing the number of TPs for each supplementary service is provided in table 2.

Whenever it was possible, the TPs have been described such that they bundle related requirements of the respective base standard. Due to this fact, a TP may lead to implementing several test cases for the ATS.

NOTE: The majority of TPs (over 80%) concentrate on valid behaviour. The number of invalid behaviour TPs is limited. An expansion of the invalid behaviour TPs is left for further study.

Table 2: Number of tests for the ISUP version 2 supplementary services

| Item | Supplementary service | Group | Number of test purposes |
|--------------------|---|-----------|-------------------------|
| 1 | Calling Line Identification Presentation | CLIP | 19 |
| 2 | Calling Line Identification Restriction | CLIR | 11 |
| 3 | Connected Line Identification Presentation | COLP | 18 |
| 4 | Connected Line Identification Restriction | COLR | 12 |
| 5 | Terminal Portability | TP | 11 |
| 6 | User-to-User Signalling service 1 implicit | UUS1_I | 6 |
| | User-to-User Signalling service 1 explicit | UUS1_E | 18 |
| | User-to-User Signalling service 2 | UUS2 | 16 |
| | User-to-User Signalling service 3 | UUS3 | 17 |
| 7 | Closed User Group | CUG | 23 |
| 8 | Subaddressing | SUB | 5 |
| 9 | Malicious Call Identification | MCID | 18 |
| 10 | Conference call, add-on | CONF | 16 |
| 11 | Explicit Call Transfer | ECT | 37 |
| 12 | Call diversion services | CDIV | 49 |
| 13 | Call Hold | HOLD | 12 |
| 14 | Call Waiting | CW | 8 |
| 15 | Completion of Calls to Busy Subscriber (ISUP) | CCBS_ISUP | 16 |
| | Completion of Calls to Busy Subscriber (ASE) | CCBS_ASE | 21 |
| 16 | Three-Party | THREE_PTY | 10 |
| Grand total | | | 343 |

History

| Document history | |
|------------------|--|
| February 1997 | Public Enquiry PE 9726: 1997-02-28 to 1997-06-27 |
| December 1997 | Vote V 9809: 1997-12-30 to 1998-02-27 |
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