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OF ITU

Q.784
Annex A
(03/93)

**SPECIFICATIONS OF SIGNALLING
SYSTEM No. 7
TEST SPECIFICATION**

**TTCN VERSION
OF RECOMMENDATION Q.784**

ITU-T Recommendation Q.784 – Annex A

(Previously “CCITT Recommendation”)

FOREWORD

The ITU Telecommunication Standardization Sector (ITU-T) is a permanent organ of the International Telecommunication Union. The ITU-T is responsible for studying technical, operating and tariff questions and issuing Recommendations on them with a view to standardizing telecommunications on a worldwide basis.

The World Telecommunication Standardization Conference (WTSC), which meets every four years, established the topics for study by the ITU-T Study Groups which, in their turn, produce Recommendations on these topics.

ITU-T Recommendation Q.784, Annex A was revised by the ITU-T Study Group XI (1988-1993) and was approved by the WTSC (Helsinki, March 1-12, 1993).

NOTES

1 As a consequence of a reform process within the International Telecommunication Union (ITU), the CCITT ceased to exist as of 28 February 1993. In its place, the ITU Telecommunication Standardization Sector (ITU-T) was created as of 1 March 1993. Similarly, in this reform process, the CCIR and the IFRB have been replaced by the Radiocommunication Sector.

In order not to delay publication of this Recommendation, no change has been made in the text to references containing the acronyms "CCITT, CCIR or IFRB" or their associated entities such as Plenary Assembly, Secretariat, etc. Future editions of this Recommendation will contain the proper terminology related to the new ITU structure.

2 In this Recommendation, the expression "Administration" is used for conciseness to indicate both a telecommunication administration and a recognized operating agency.

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Annex A

TTCN version of Recommendation Q.784

(Helsinki, 1993)

A.1 Scope

This annex provides the test specification for the basic call procedures of CCITT SS No. 7 ISUP (Recommendations Q.761-Q.764 and Q.767) based on the CCITT Recommendation X.292 (ISO IS 9646). This test specification makes use of the Tree and Tabular Combined Notation (TTCN) and reflects the content of the test specification described in Recommendation Q.784. In all cases of conflict between the text of Recommendation Q.784 and this TTCN annex, then Recommendation Q.784 shall take precedence.

A.2 Symbols and abbreviations (used in A.2 to A.4.5)

| | |
|------|--|
| TTCN | Tree and Tabular Combined Notation |
| IUT | Implementation Under Test |
| ATS | Abstract Test Suite |
| ASP | Abstract Service Primitive |
| PDU | Protocol Data Unit |
| PCO | Point of Control and Observation |
| LT | Lower Tester |
| UT | Upper Tester |
| LAB | Lower Tester PCO between service provider and signalling point B |
| CAB | Circuit PCO between service provider and signalling point B |
| UTA | Upper Tester PCO at signalling point A |

A.3 Test methodology

This test specification in TTCN makes use of the abstract test methodology as described below.

The test methodology used for ISUP testing is called the distributed test method (see Figure A.1). With this test method an abstract configuration for testing is established, which does not constrain the implementation of test machines. The configuration consists of the implementation under test (IUT) and the tester. The main functionalities of the tester are separated into a lower tester (LT) and an upper tester (UT).

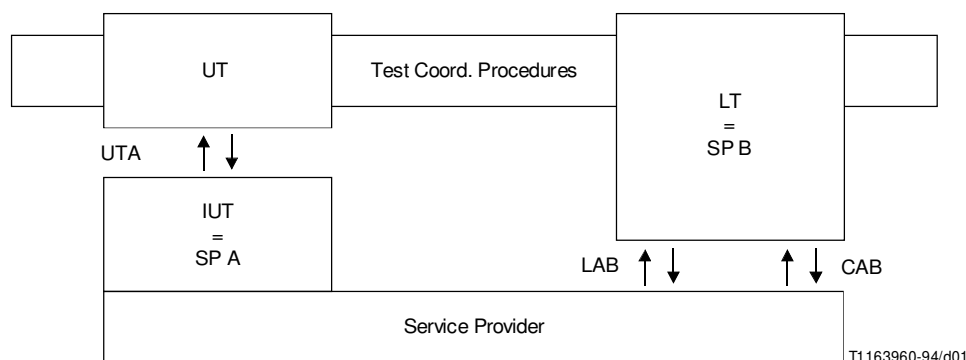


FIGURE A.1/Q.784
ISUP test method

In principle, the lower tester has the capabilities to control and observe the implementation under test at its lower boundary via the underlying service provider. The upper tester has the capabilities to control and observe the implementation under test at its upper boundary.

For ISUP testing in particular, the lower tester controls and observes the implementation under test from the signalling point of view via the underlying service provider MTP and from the connection point of view via a predefined number of circuits. The upper tester controls and observes the implementation under test by handling calls. In addition the upper tester should control the MML-interface and should observe the indications for maintenance purposes.

A.4. Explanation to the test specification

An abstract test suite (ATS) specification written in TTCN must contain the following four parts:

- the overview, giving the structure of the test suite, for general information and understanding;
- the declaration part, giving all the objects, e.g. constants, variables, points of control and observation (PCOs), timers, protocol data unit types (PDU types) and abstract service primitive types (ASP types);
- the constraints part, giving the actual values for protocol data units (PDUs) and abstract service primitives (ASPs);
- the dynamic part, describing each test case behaviour.

A.4.1. Test suite overview

The test suite overview is a sort of directory. It provides an index to the test suite and can be used for documentation and reference. The overview indicates the name of the test suite; references to the relevant protocol standards; information on the abstract test method and a test suite structure, an index to the test cases, test steps and defaults contained in the dynamic part. The relation between the testlist of Recommendation Q.784 and the TTCN test groups and test case names are indicated in the test suite structure and test case index tables.

The test suite overview for this ISUP test specification is given in A.6.

A.4.2. TTCN declarations

The declaration part should mention all the objects used in the dynamic part. The TTCN notation provides a particular format for all sorts of objects to be declared. The declarations for ISUP are given in A.7.

Subclause A.7 identifies:

- Test suite parameters and test suite constants – These are introduced to enable test case selection procedures.
- Test suite variables – These are declared for use in test cases, e.g. RSC_Received in test case ISUPB50203;
- Three PCOs. These are used in the ISUP test suite:
 - LAB – Lower tester PCO between service provider and signalling point B. By means of this PCO ISUP signalling information is exchanged between the lower tester and the IUT.
 - CAB – Circuit PCO between service provider and signalling point B. By means of this PCO circuit control procedures, e.g. connectivity check and echo control check, are accomplished.
 - UTA – Upper tester PCO at signalling point A. Some kind of stimulus operations to generate and clear calls, to activate circuit supervision procedures, etc., are assumed.
- All timer identifiers and the corresponding duration.

- The ASP types which is an incomplete TTCN declaration. A TTCN ASP declaration consists of the ASP type identifier, the PCO type identifier and the ASP structure. The last part of this declaration is omitted, in order to create the same level of abstraction as described in the Q.784 test specification using the Q.780 methodology.
- The PDU types for which the same approach described previously is applied.

A.4.3. TTCN constraints

The ASPs given in combination with the send and receive events in the dynamic part are references to instances of ASP types. Every instance of an ASP type, called ASP constraint, specifies an actual ASP value. An ASP constraint may carry an PDU constraint. All ASP and PDU constraints are grouped in the TTCN constraints part. The constraints part for ISUP are given in A.8.

Due to the high level of abstraction which is required, only the ASP constraint identifier and its ASP type identifier are described in this test suite. The actual values of the constraints are not envisaged.

The ASPs used in this test suite are grouped into:

- User ASPs – These ASPs are stimuli to establish a call, to release a call, to suspend a call, to resume a call and to check the provision of tones and announcements.
- Maintenance ASPs – One maintenance ASP is declared to represent a maintenance indication from the IUT.
- mml ASPs – Several mml ASPs are described to enable the activation of circuit supervision procedures within ISUP.
- Circuit ASPs – This category ASPs are exchanged by some functionality which enables circuit control procedures, e.g. connectivity check.
- Call set-up ASPs – The call set-up ASPs represent the corresponding call set-up PDUs in ISUP.
- Call release ASPs – The call release ASPs represent the corresponding call release PDUs in ISUP.
- Circuit supervision ASPs – The circuit supervision ASPs represent the corresponding circuit supervision PDUs in ISUP.

A.4.4. TTCN dynamic part

The TTCN dynamic part contains the main body of the test suite, i.e.:

- *The test cases grouped into test groups* – Each test case represents one test purpose. Subclause A.9.1 contains the test cases representing the purposes as mentioned in the ISUP test list (see A.5).
- *The test steps grouped into the test step library* – A test step can be called by all test cases defined in the test suite. A test step can be represented as a procedure call or subroutine as defined in a programming language. The ISUP test suite does use this TTCN construct e.g. to achieve pre-test conditions and to check specific circuit operations. The required test steps for the ISUP test suite are contained in A.9.2.
- *The default groups* – If a test case or a test step refers to a default tree, then the content of the default tree covers additional alternatives to receive events specified in that test case or test step. In that case any received behaviour other than the expected behaviour as specified in the test case or test step will be handled by the default tree. A very generic default tree for this ISUP test specification is specified in A.9.3.

The test specification is based on the test methodology described above. By means of well chosen identifiers for points of control and observation (PCOs) and abstract service primitives (ASPs) the used test methodology is expressed.

The identifications of the ASPs are selfexplaining. Although, the TTCN constraints part should clarify the contents of the ASPs, this is not done in order to create the same level of abstraction as described in the Q.784 test specification using the Q.780 methodology (the actual message content is not specified).

In this test specification only the method of “explicit final verdict” is used (i.e. in each leaf of the behaviour tree an entry occurs in the verdict column of the dynamic behaviour tables). If the leaf is an ATTACH construct (i.e. test step reference), this verdict has the following meaning: the verdict applies to each leaf of the behaviour tree of the test step.

A.4.5. Application of TTCN version for VAT and CPT

This TTCN version of Recommendation Q.784 is applicable for both validation testing (VAT) and compatibility testing (CPT). It is a conceptual description of the test process which in no way implies any implementation of the test system. This means that in case of VAT the lower tester (LT) could be a test box or a real exchange with other supporting equipment. In case of CPT the LT is a real exchange (SP B) with supporting equipment.

A.5 ISUP Test list

1 Circuit supervision

- 1.1 Non-allocated circuits
- 1.2 Reset of circuits
 - 1.2.1 RSC received on an idle circuit
 - 1.2.2 RSC sent on an idle circuit
 - 1.2.3 RSC received on a locally blocked circuit
 - 1.2.4 RSC received on a remotely blocked circuit
 - 1.2.5 Circuit group reset received
 - 1.2.6 Circuit group reset sent
 - 1.2.7 Circuit group reset received on remotely blocked circuits
- 1.3 Blocking of circuits
 - 1.3.1 Circuit group blocking unblocking
 - 1.3.1.1 CGB and CGU received
 - 1.3.1.2 CGB and CGU sent
 - 1.3.2 Circuit blocking unblocking
 - 1.3.2.1 BLO received
 - 1.3.2.2 BLO sent
 - 1.3.2.3 Blocking from both ends removal of blocking from one end
 - 1.3.2.4 IAM received on a remotely blocked circuit
- 1.4 Continuity check test call
 - 1.4.1 CCR received successful
 - 1.4.2 CCR sent successful
 - 1.4.3 CCR received unsuccessful
 - 1.4.4 CCR sent unsuccessful
 - 1.4.5 CCR received unsuccessful verify T27 timer
- 1.5 Receipt of unreasonable signalling information messages
 - 1.5.1 Receipt of unexpected messages
 - 1.5.2 Receipt of unexpected messages during call set-up
 - 1.5.3 Receipt of unexpected messages during a call
 - 1.5.4 Confusion procedures for further study

2 Normal call set-up – Ordinary speech calls

- 2.1 Both way circuit selection
 - 2.1.1 IAM sent by controlling SP
 - 2.1.2 IAM sent by non-controlling SP
- 2.2 Called address sending
 - 2.2.1 *En-bloc* operation
 - 2.2.2 Overlap operation with SAM
- 2.3 Successful call set-up
 - 2.3.1 Ordinary call with various indications in ACM
 - 2.3.2 Ordinary call with ACM CPG and ANM
 - 2.3.3 Ordinary call with various indications in CON
 - 2.3.4 Call switched via a satellite
 - 2.3.5 Echo control procedure for call set-up
 - 2.3.6 Blocking and unblocking during a call initiated
 - 2.3.7 Blocking and unblocking during a call received

3 Normal call release

- 3.1 Calling party clears before any backward message
- 3.2 Calling party clears before answer
- 3.3 Calling party clears after answer
- 3.4 Called party clears after answer
- 3.5 Suspend initiated by the network
- 3.6 Suspend and resume initiated by a calling party
- 3.7 Suspend and resume initiated by a called party
- 3.8 Collision of REL messages

4 Unsuccessful call set-up

- 4.1 Validate a set of known causes for release

5 Abnormal situation during a call

- 5.1 Inability to release in response to an REL after ANM
- 5.2 Timers
 - 5.2.1 T7 waiting for ACM or CON
 - 5.2.2 T9 waiting for an answer message
 - 5.2.3 T1 and T5 failure to receive an RLC
 - 5.2.4 T6 waiting for RES Network message
 - 5.2.5 T8 waiting for COT message if applicable
 - 5.2.6 T12 and T13 failure to receive a BLA
 - 5.2.7 T14 and T15 failure to receive a UBA
 - 5.2.8 T16 and T17 failure to receive an RLC
 - 5.2.9 T18 and T19 failure to receive a CGBA
 - 5.2.10 T20 and T21 failure to receive a CGUA
 - 5.2.11 T22 and T23 failure to receive a GRA
- 5.3 Reset of circuits during a call
 - 5.3.1 Of an outgoing circuit
 - 5.3.2 Of an incoming circuit

6 Special call set-up

- 6.1 Continuity check call
 - 6.1.1 Continuity check required
 - 6.1.2 COT applied on previous circuit
 - 6.1.3 Calling party clears during COT
 - 6.1.4 Delay of through connect
 - 6.1.5 COT unsuccessful
- 6.2 Automatic repeat attempt
 - 6.2.1 Dual seizure for non controlling SP
 - 6.2.2 Blocking of a circuit
 - 6.2.3 Circuit reset
 - 6.2.4 Continuity check failure
 - 6.2.5 Reception of unreasonable signalling information
- 6.3 Dual seizure
 - 6.3.1 Dual seizure for controlling SP
- 6.4 Semi automatic operation
 - 6.4.1 FOT sent following a call to a subscriber
 - 6.4.2 FOT received following a call to a subscriber
 - 6.4.3 FOT sent following a call via codes 11 and 12
 - 6.4.4 FOT received following a call via codes 11 and 12

7 Bearer services

- 7.1 64 kbps unrestricted
 - 7.1.1 Successful call set-up
 - 7.1.2 Unsuccessful call set-up
 - 7.1.3 Dual seizure
- 7.2 3.1 kHz audio
 - 7.2.1 Successful call set-up

8 Congestion control and user flow control – For further study

A.6 Test Suite Overview

| Test Suite Structure | | |
|--|---|----------|
| Suite Name: TTCN version of Rec. Q.784 Standards ref: Rec. Q.764 PICS ref: For further study PIXIT ref: For further study Test Method(s): DSE (Distributed Single-layer Embedded test method) Comments: The structure of the test suite aligns with the contents of Rec. Q.784 | | |
| Test Group Reference | Test Group Objective | Page No. |
| ISUPB/ ISUPB/CS/ ISUPB/CS/Non_alloc_circuits/ ISUPB/CS/Reset/ ISUPB/CS/Blocking/ ISUPB/CS/Blocking/Circuit_group/ ISUPB/CS/Blocking/Circuit/ ISUPB/CS/Cont_check_test_call/ ISUPB/CS/Rec_UNREAS/ ISUPB/NCS/ ISUPB/NCS/Both_way_select/ ISUPB/NCS/Cld_addr_send/ ISUPB/NCS/Succ_set-up/ ISUPB/NCR/ ISUPB/UCS/ ISUPB/ABN/ ISUPB/ABN/Inabl_to_rel/ ISUPB/ABN/Timers/ ISUPB/ABN/Reset/ ISUPB/SPCS/ ISUPB/SPCS/Cont_check_call/ ISUPB/SPCS/Autom_rep_attempt/ ISUPB/SPCS/Dual_seiz/ ISUPB/SPCS/Semi_autom_oper/ ISUPB/BSERV/ ISUPB/BSERV/64kbps_unres/ ISUPB/BSERV/3.1kHz_audio/ ISUPB/Congestion_and_user_flow/ | ISUP Basic Call 1 Circuit supervision 1.1 Non allocated circuits 1.2 Reset of circuits 1.3 Blocking of circuits 1.3.1 Circuit group blocking unblocking 1.3.2 Circuit blocking unblocking 1.4 Continuity check test call 1.5 Receipt of unreasonable signalling information messages 2 Normal call set-up – Ordinary speech 2.1 Both way circuit selection 2.2 Called address sending 2.3 Successful call set-up 3 Normal call release 4 Unsuccessful call set-up 5 Abnormal situation during a call 5.1 Inability to release in respons to an REL after ANM 5.2 Timers 5.3 Reset of circuits during a call 6 Special call set-up 6.1 Continuity check call 6.2 Automatic repeat attempt 6.3 Dual seizure 6.4 Semi automatic operation 7 Bearer services 7.1 64 kbps unrestricted 7.2 3.1 kHz audio 8 Congestion control and user flow control – For further study | |

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|-------------------------|-------------------------|-------------|----------|
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A.7 Declarations Part

| Test Suite Parameter Declarations | | | |
|-----------------------------------|---------|----------------------|----------|
| Parameter Name | Type | PICS/PIXIT Reference | Comments |
| SP_A | BOOLEAN | | |
| CONTR_SP | BOOLEAN | | |
| CASE | INTEGER | | |

| Test Suite Constant Declarations | | | |
|----------------------------------|---------|-------|--|
| Constant Name | Type | Value | Comments |
| ORI | BOOLEAN | TRUE | SP A is originating exchange SP A is terminating exchange SP A is controlling SP B is controlling |
| TER | BOOLEAN | FALSE | |
| CPA | BOOLEAN | TRUE | |
| CPB | BOOLEAN | FALSE | |
| A | INTEGER | 1 | |
| B | INTEGER | 2 | |
| C | INTEGER | 3 | |
| D | INTEGER | 4 | |

| Test Suite Variable Declarations | | | |
|----------------------------------|---------|-------|----------|
| Variable Name | Type | Value | Comments |
| Ready_To_Receive_REL | BOOLEAN | FALSE | |
| Ready_To_Receive_RSC | BOOLEAN | FALSE | |
| RSC_Received | BOOLEAN | FALSE | |

| PCO Declarations | | | |
|------------------|-----------------|------|----------|
| PCO Name | PCO Type | Role | Comments |
| LAB | ISUP_PCO | LT | |
| UTA | UPPERTESTER_PCO | UT | |
| CAB | CIRCUIT_PCO | LT | |

| Timer Declarations | | | |
|--------------------|----------|-------|-----------------------------------|
| Timer Name | Duration | Units | Comments |
| TNOAC | 100 | s | Ensures no response from IUT |
| T1min | 4 | s | Waiting for RLC |
| Tcot_delay | 2 | s | Simulating continuity check delay |
| T1max | 15 | s | Waiting for RLC |
| T5min | 57 | s | Waiting for RLC |
| T5max | 63 | s | Waiting for RLC |
| T6min | 60 | s | Waiting for RES |
| T6max | 120 | s | Waiting for RES |
| T7min | 20 | s | Waiting for ACM or CON |
| T7max | 30 | s | Waiting for ACM or CON |
| T8min | 10 | s | Waiting for COT |
| T8max | 15 | s | Waiting for COT |
| T9min | 120 | s | Waiting for ANM |
| T9max | 240 | s | Waiting for ANM |
| T12min | 4 | s | Waiting for BLO |
| T12max | 15 | s | Waiting for BLO |
| T13min | 57 | s | Waiting for BLO |
| T13max | 63 | s | Waiting for BLO |
| T14min | 4 | s | Waiting for UBL |
| T14max | 15 | s | Waiting for UBL |
| T15min | 57 | s | Waiting for UBL |
| T15max | 63 | s | Waiting for UBL |
| T16min | 4 | s | Waiting for RSC |
| T16max | 15 | s | Waiting for RSC |
| T17min | 57 | s | Waiting for RSC |
| T17max | 63 | s | Waiting for RSC |
| T18min | 4 | s | Waiting for CGB |
| T18max | 15 | s | Waiting for CGB |
| T19min | 57 | s | Waiting for CGB |
| T19max | 63 | s | Waiting for CGB |
| T20min | 4 | s | Waiting for CGU |
| T20max | 15 | s | Waiting for CGU |
| T21min | 57 | s | Waiting for CGU |
| T21max | 63 | s | Waiting for CGU |
| T22min | 4 | s | Waiting for GRS |
| T22max | 15 | s | Waiting for GRS |
| T23min | 57 | s | Waiting for GRS |
| T23max | 63 | s | Waiting for GRS |
| T24min | 1500 | ms | Continuity recognition |
| T24max | 2 | s | Continuity recognition |
| T25min | 1 | s | Continuity recognition |
| T25max | 10 | s | Continuity recognition |
| T26min | 60 | s | Second continuity check failure |
| T26max | 180 | s | Second continuity check failure |
| T27max | 240 | s | Continuity check request received |

| ASP Type Declarations | | | |
|-----------------------|-----------------|-----------------|----------|
| ASP Type | PCO Type | PDU Type | Comments |
| USER_REQ | UPPERTESTER_PCO | USER_ACTIONS | |
| USER_IND | UPPERTESTER_PCO | USER_ACTIONS | |
| MML_REQ | UPPERTESTER_PCO | MML_ACTIONS | |
| MAINT_IND | UPPERTESTER_PCO | MAINT_ACTIONS | |
| SPEECH_REQ | CIRCUIT_PCO | USER_DATA | |
| SPEECH_IND | CIRCUIT_PCO | USER_DATA | |
| DATA_REQ | CIRCUIT_PCO | USER_DATA | |
| DATA_IND | CIRCUIT_PCO | USER_DATA | |
| CONTCHECK_REQ | CIRCUIT_PCO | CONTCHECK_TONE | |
| CONTCHECK_IND | CIRCUIT_PCO | CONTCHECK_TONE | |
| CONTCHECKLOOP_REQ | CIRCUIT_PCO | CIRCUIT_ACTIONS | |
| TONE_IND | CIRCUIT_PCO | TONE | |
| TRANSFER_REQ | ISUP_PCO | ISUP_PDUs | |
| TRANSFER_IND | ISUP_PCO | ISUP_PDUs | |

| PDU Type Declarations | | |
|-----------------------|-----------------|----------|
| PDU Type | PCO Type | Comments |
| USER_ACTIONS | UPPERTESTER_PCO | |
| MML_ACTIONS | UPPERTESTER_PCO | |
| MAINT_ACTIONS | UPPERTESTER_PCO | |
| USER_DATA | CIRCUIT_PCO | |
| CONTCHECK_TONE | CIRCUIT_PCO | |
| CIRCUIT_ACTIONS | CIRCUIT_PCO | |
| TONE | CIRCUIT_PCO | |
| ISUP_PDUs | ISUP_PCO | |

A.8 Constraints Part

| ASP Constraints Declarations | | |
|-------------------------------------|----------|-----------|
| Constraint Name | ASP Type | Comments |
| SETUP_REQ_Speech | USER_REQ | User ASPs |
| SETUP_REQ_64kbps_unrestr | USER_REQ | |
| SETUP_REQ_3_1_kHz_audio | USER_REQ | |
| SETUP_REQ_Satellite | USER_REQ | |
| SETUP_REQ_Echo_Control | USER_REQ | |
| SETUP_REQ_any | USER_REQ | |
| SETUP_REQ_Overlap | USER_REQ | |
| SETUP_RESP_any | USER_REQ | |
| SETUP_IND_any | USER_IND | |
| SETUP_IND_64kbps_unrestr | USER_IND | |
| INFO_REQ | USER_REQ | |
| RINGING_TONE_BA | USER_IND | |
| REL_REQ | USER_REQ | |
| REL_IND | USER_IND | |
| REL_IND_Cause_Unalloc_nr | USER_IND | |
| REL_IND_Cause_No_circuit | USER_IND | |
| REL_IND_Cause_Bearer_cap_not_author | USER_IND | |
| REL_IND_Cause_Bearer_cap_not_avail | USER_IND | |
| REL_IND_Cause_Bearer_cap_not_impl | USER_IND | |
| SUSPEND_REQ | USER_REQ | |
| SUSPEND_IND | USER_IND | |
| RESUME_REQ | USER_REQ | |
| RESUME_IND | USER_IND | |
| FOT_REQ | USER_REQ | |
| FOT_IND | USER_IND | |
| TONE_ANNCT_Unalloc_nr | USER_IND | |
| TONE_ANNCT_No_circuit | USER_IND | |
| TONE_ANNCT_Switch_congestion | USER_IND | |
| NO_contcheck_tone_heard | USER_IND | |

| ASP Constraints Declarations | | |
|------------------------------|-----------|-------------------|
| Constraint Name | ASP Type | Comments |
| ALARM_MaintSystem | MAINT_IND | Alarm to maintain |
| ECD_REENABLED_cic | MAINT_IND | ECD reenabled |
| ECD_DISABLED_cicx | MAINT_IND | ECD disabled |
| ECD_DISABLED_cicy | MAINT_IND | ECD disabled |

| ASP Constraints Declarations | | |
|------------------------------|----------|----------|
| Constraint Name | ASP Type | Comments |
| RESET_CIRCUIT | MML_REQ | mml ASPs |
| GROUPRESET | MML_REQ | |
| GROUPBLOCK_maint | MML_REQ | |
| GROUPUNBLOCK_maint | MML_REQ | |
| GROUPUNBLOCK_hardw | MML_REQ | |
| BLOCK_CIRCUIT | MML_REQ | |
| UNBLOCK_CIRCUIT | MML_REQ | |
| CONTCHECK_TESTCALL | MML_REQ | |

| ASP Constraints Declarations | | |
|------------------------------|-------------------|--------------|
| Constraint Name | ASP Type | Comments |
| INFO_any_BA | SPEECH_REQ | Circuit ASPs |
| INFO_any_AB | SPEECH_IND | |
| INFO_echo_BA | SPEECH_REQ | |
| INFO_echo_AB | SPEECH_IND | |
| DATA_any_BA | DATA_REQ | |
| DATA_any_AB | DATA_IND | |
| CONTCHECK_tone_BA | CONTCHECK_REQ | |
| CONTCHECK_tone_AB | CONTCHECK_IND | |
| CONTCHECK_tone_failed_AB | CONTCHECK_IND | |
| CONNECT_CONTCHECKLOOP_B | CONTCHECKLOOP_REQ | |
| DISCONNECT_CONTCHECKLOOP_B | CONTCHECKLOOP_REQ | |
| RINGING_TONE_AB | TONE_IND | |

| ASP Constraints Declarations | | |
|------------------------------|--------------|------------------|
| Constraint Name | ASP Type | Comments |
| IAM_nonexistentCIC_BA | TRANSFER_REQ | Call set-up ASPs |
| IAM_AB | TRANSFER_IND | |
| IAM_BA | TRANSFER_REQ | |
| IAM_cicx_AB | TRANSFER_IND | |
| IAM_cicx_BA | TRANSFER_REQ | |
| IAM_cicy_AB | TRANSFER_IND | |
| IAM_Satellite_AB | TRANSFER_IND | |
| IAM_Echo_Control_AB | TRANSFER_IND | |
| IAM_Speech_AB | TRANSFER_IND | |
| IAM_Speech_BA | TRANSFER_REQ | |
| IAM_64kbps_unrestr_AB | TRANSFER_IND | |
| IAM_64kbps_unrestr_BA | TRANSFER_REQ | |
| IAM_3_1kHz_audio_AB | TRANSFER_IND | |
| IAM_3_1kHz_audio_BA | TRANSFER_REQ | |
| IAM_cicx_64kbps_unrestr_AB | TRANSFER_IND | |
| IAM_cicx_64kbps_unrestr_BA | TRANSFER_REQ | |
| IAM_cicy_64kbps_unrestr_AB | TRANSFER_IND | |
| IAM_Overlap_AB | TRANSFER_IND | |
| IAM_Satellite_BA | TRANSFER_REQ | |
| IAM_Echo_Control_BA | TRANSFER_REQ | |
| IAM_contcheckreq_AB | TRANSFER_IND | |
| IAM_contcheckreq_cicx_AB | TRANSFER_IND | |
| IAM_contcheckreq_cicy_AB | TRANSFER_IND | |
| IAM_contcheckreq_BA | TRANSFER_REQ | |
| IAM_contcheckprevious_AB | TRANSFER_IND | |
| IAM_contcheckprevious_BA | TRANSFER_REQ | |
| SAM_BA | TRANSFER_REQ | |
| SAM_AB | TRANSFER_IND | |

| ASP Constraints Declarations | | |
|------------------------------|--------------|------------------|
| Constraint Name | ASP Type | Comments |
| ACM_BA | TRANSFER_REQ | Call set-up ASPs |
| ACM_AB | TRANSFER_IND | |
| ACM_cicx_AB | TRANSFER_IND | |
| ACM_cicy_BA | TRANSFER_REQ | |
| ACM_cicx_BA | TRANSFER_REQ | |
| ACM_Free_ISDN_BA | TRANSFER_REQ | |
| ACM_Free_Non_ISDN_BA | TRANSFER_REQ | |
| ACM_Free_ISDN_AB | TRANSFER_IND | |
| ACM_Free_Non_ISDN_AB | TRANSFER_IND | |
| ACM_No_Ind_ISDN_BA | TRANSFER_REQ | |
| ACM_No_Ind_Non_ISDN_BA | TRANSFER_REQ | |
| ACM_No_Ind_ISDN_AB | TRANSFER_IND | |
| ACM_No_Ind_Non_ISDN_AB | TRANSFER_IND | |
| ACM_Echo_Control_BA | TRANSFER_REQ | |
| ACM_Echo_Control_AB | TRANSFER_IND | |
| CPG_Alert_BA | TRANSFER_REQ | |
| CPG_Alert_AB | TRANSFER_IND | |
| CPG_Progress_BA | TRANSFER_REQ | |
| CPG_In_band_info_AB | TRANSFER_IND | |
| CPG_In_band_info_BA | TRANSFER_REQ | |
| CPG_Progress_AB | TRANSFER_IND | |
| CPG_BA | TRANSFER_REQ | |
| CON_BA | TRANSFER_REQ | |
| CON_AB | TRANSFER_IND | |
| CON_Free_ISDN_BA | TRANSFER_REQ | |
| CON_Free_Non_ISDN_BA | TRANSFER_REQ | |
| CON_No_Ind_ISDN_BA | TRANSFER_REQ | |
| CON_No_Ind_Non_ISDN_BA | TRANSFER_REQ | |
| CON_Free_ISDN_AB | TRANSFER_IND | |
| CON_Free_Non_ISDN_AB | TRANSFER_IND | |
| CON_No_Ind_ISDN_AB | TRANSFER_IND | |
| CON_No_Ind_Non_ISDN_AB | TRANSFER_IND | |
| ANM_BA | TRANSFER_REQ | |
| ANM_AB | TRANSFER_IND | |
| ANM_cicx_AB | TRANSFER_IND | |
| ANM_cicy_BA | TRANSFER_REQ | |
| ANM_cicx_BA | TRANSFER_REQ | |
| FOT_BA | TRANSFER_REQ | |
| FOT_AB | TRANSFER_IND | |

| ASP Constraints Declarations | | |
|-----------------------------------|--------------|-------------------|
| Constraint Name | ASP Type | Comments |
| REL_AB | TRANSFER_IND | Call release ASPs |
| REL_BA | TRANSFER_REQ | |
| REL_cicx_BA | TRANSFER_REQ | |
| REL_cicx_AB | TRANSFER_IND | |
| REL_cicy_AB | TRANSFER_IND | |
| REL_Unalloc_nr_BA | TRANSFER_REQ | |
| REL_Unalloc_nr_AB | TRANSFER_IND | |
| REL_No_circuit_BA | TRANSFER_REQ | |
| REL_Switch_congestion_BA | TRANSFER_REQ | |
| REL_Bearer_cap_not_authorized_BA | TRANSFER_REQ | |
| REL_Bearer_cap_not_available_BA | TRANSFER_REQ | |
| REL_Bearer_cap_not_implemented_BA | TRANSFER_REQ | |
| RLC_AB | TRANSFER_IND | |
| RLC_BA | TRANSFER_REQ | |
| RLC_cicx_AB | TRANSFER_IND | |
| RLC_cicy_BA | TRANSFER_REQ | |
| RLC_cicx_BA | TRANSFER_REQ | |

| ASP Constraints Declarations | | |
|------------------------------|--------------|--------------------------|
| Constraint Name | ASP Type | Comments |
| GRS_BA | TRANSFER_REQ | Circuit supervision ASPs |
| GRS_RANGE_INVALID_BA | TRANSFER_REQ | |
| GRS_AB | TRANSFER_IND | |
| GRA_AB | TRANSFER_IND | |
| GRA_BA | TRANSFER_REQ | |
| CGB_maint_BA | TRANSFER_REQ | |
| CGB_maint_RANGE_INVALID_BA | TRANSFER_REQ | |
| CGB_hardw_RANGE_INVALID_BA | TRANSFER_REQ | |
| CGB_maint_AB | TRANSFER_IND | |
| CGB_hardw_AB | TRANSFER_IND | |
| CGBA_maint_AB | TRANSFER_IND | |
| CGBA_maint_BA | TRANSFER_REQ | |
| CGBA_hardw_BA | TRANSFER_REQ | |
| CGU_maint_BA | TRANSFER_REQ | |
| CGU_maint_AB | TRANSFER_IND | |
| CGU_hardw_AB | TRANSFER_IND | |
| CGUA_maint_AB | TRANSFER_IND | |
| CGUA_maint_BA | TRANSFER_REQ | |
| CGUA_hardw_BA | TRANSFER_REQ | |

| ASP Constraints Declarations | | |
|------------------------------|--------------|--------------------------|
| Constraint Name | ASP Type | Comments |
| RSC_BA | TRANSFER_REQ | Circuit supervision ASPs |
| RSC_AB | TRANSFER_IND | |
| RSC_cicx_BA | TRANSFER_REQ | |
| RSC_cicx_AB | TRANSFER_IND | |
| BLO_AB | TRANSFER_IND | |
| BLO_BA | TRANSFER_REQ | |
| BLO_cicx_BA | TRANSFER_REQ | |
| BLO_cicy_BA | TRANSFER_REQ | |
| BLA_BA | TRANSFER_REQ | |
| BLA_AB | TRANSFER_IND | |
| BLA_AB | TRANSFER_IND | |
| BLA_cicx_AB | TRANSFER_IND | |
| BLA_cicy_AB | TRANSFER_IND | |
| UBL_BA | TRANSFER_REQ | |
| UBL_AB | TRANSFER_IND | |
| UBA_AB | TRANSFER_IND | |
| UBA_BA | TRANSFER_REQ | |
| SUS_netw_BA | TRANSFER_REQ | |
| SUS_netw_AB | TRANSFER_IND | |
| SUS_user_BA | TRANSFER_REQ | |
| SUS_user_AB | TRANSFER_IND | |
| RES_netw_BA | TRANSFER_REQ | |
| RES_netw_AB | TRANSFER_IND | |
| RES_user_BA | TRANSFER_REQ | |
| RES_user_AB | TRANSFER_IND | |
| CCR_BA | TRANSFER_REQ | |
| CCR_AB | TRANSFER_IND | |
| COT_failed_BA | TRANSFER_REQ | |
| COT_failed_AB | TRANSFER_IND | |
| COT_failed_cicx_AB | TRANSFER_IND | |
| COT_successful_BA | TRANSFER_REQ | |
| COT_successful_AB | TRANSFER_IND | |
| COT_finished_AB | TRANSFER_IND | |
| XXX_BA | TRANSFER_REQ | |
| XXX_cicx_BA | TRANSFER_REQ | |
| YYY_BA | TRANSFER_REQ | |

A.9 Dynamic Part

A.9.1 Test Case Dynamic Behaviour

| Test Case Dynamic Behaviour | | | | |
|--|---|-----------------------|---|---|
| Test Case Name: ISUPB10101 Group: ISUPB/CS/Non_alloc_circuits/ Purpose: To verify that on receipt of a CIC relating to a circuit which does not exist, SP A will discard the message and alert the maintenance system. Default: AnyOtherEventUnexpected Comments: SUBTITLE: Non-allocated circuits REFERENCE: PRE-TEST CONDITIONS: Arrange the data in signalling point B such that the CIC identifies a circuit that does not exist between SP A and SP B. CONFIGURATION: 1 TYPE OF TEST: VAT and CPT TYPE OF SP: SP | | | | |
| Behaviour Description | L | Cref | V | C |
| LAB ! TRANSFER_REQ | 1 | IAM_nonexistentCIC_BA | | |
| UTA ? MAINT_IND | 2 | ALARM_MaintSystem | P | |
| Detailed Comments: | | | | |

| Test Case Dynamic Behaviour | | | | |
|---|---|--------|---|---|
| Test Case Name: ISUPB10201 Group: ISUPB/CS/Reset/ Purpose: To verify that on receipt of a reset circuit message SP A will respond by sending a release complete message. Default: AnyOtherEventUnexpected Comments: SUBTITLE: RSC received on an idle circuit REFERENCE: 2.10.3.1 a)/Q.764 and 2.10.3.1 b)/Q.764 PRE-TEST CONDITIONS: The circuit is idle. CONFIGURATION: 1 TYPE OF TEST: VAT TYPE OF SP: SP | | | | |
| Behaviour Description | L | Cref | V | C |
| LAB ! TRANSFER_REQ | 1 | RSC_BA | | |
| LAB ? TRANSFER_IND | 2 | RLC_AB | | |
| +Check_CIRCUIT_IDLE | 3 | | P | |
| Detailed Comments: | | | | |

| Test Case Dynamic Behaviour | | | | |
|---|---|---------------|---|---|
| Test Case Name: ISUPB10202 Group: ISUPB/CS/Reset/ Purpose: To verify that SP A is able to generate reset circuit message. Default: AnyOtherEventUnexpected Comments: SUBTITLE: RSC sent on an idle circuit REFERENCE: 2.10.3.1/Q.764 PRE-TEST CONDITIONS: The circuit is idle. CONFIGURATION: 1 TYPE OF TEST: VAT TYPE OF SP: SP | | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! MML_REQ | 1 | RESET_CIRCUIT | P | |
| LAB ? TRANSFER_IND | 2 | RSC_AB | | |
| LAB ! TRANSFER_REQ | 3 | RLC_BA | | |
| +Check_CIRCUIT_IDLE | 4 | | | |
| Detailed Comments: | | | | |

| Test Case Dynamic Behaviour | | | | |
|---|---|------------------|---|--------|
| Test Case Name: ISUPB10203 Group: ISUPB/CS/Reset/ Purpose: To verify that on receipt of a reset circuit message while in its locally blocked state, SP A will respond by sending blocking and release complete messages. Default: AnyOtherEventUnexpected Comments: SUBTITLE: RSC received on a locally blocked circuit REFERENCE: 2.10.3.1 c)/Q.764 PRE-TEST CONDITIONS: The circuit is idle. CONFIGURATION: 1 TYPE OF TEST: VAT TYPE OF SP: SP | | | | |
| Behaviour Description | L | Cref | V | C |
| +BlockLocal_CIRCUIT | 1 | RSC_BA BLO_AB | P | (Note) |
| LAB ! TRANSFER_REQ | 2 | | | |
| LAB ? TRANSFER_IND | 3 | | | |
| +Receive_RLC_and_send_BLA | 4 | | | |
| +Check_LOCAL_BLOCKING_CIRCUIT | 5 | | | |
| Detailed Comments: NOTE – A CPC = “test call” should not be used for this check. | | | | |

| Test Case Dynamic Behaviour | | | | |
|--|---|------------------|---|---|
| Test Case Name: ISUPB10204 Group: ISUPB/CS/Reset/ Purpose: To verify that SP A is able to react to a reset circuit message for a remotely blocked circuit. Default: AnyOtherEventUnexpected Comments: SUBTITLE: RSC received on a remotely blocked circuit REFERENCE: 2.10.3.1 d)/Q.764 PRE-TEST CONDITIONS: The circuit is idle. CONFIGURATION: 1 TYPE OF TEST: VAT TYPE OF SP: SP | | | | |
| Behaviour Description | L | Cref | V | C |
| +BlockRemote_CIRCUIT | 1 | RSC_BA RLC_AB | P | |
| LAB ! TRANSFER_REQ | 2 | | | |
| LAB ? TRANSFER_IND | 3 | | | |
| +Check_CIRCUIT_IDLE | 4 | | | |
| Detailed Comments: | | | | |

| Test Case Dynamic Behaviour | | | | |
|--|---|------|---|--------|
| Test Case Name: ISUPB10205 Group: ISUPB/CS/Reset/ Purpose: To verify that on receipt of one circuit group reset message SP A will respond by sending a circuit group reset acknowledge message. Default: AnyOtherEventUnexpected Comments: SUBTITLE: Circuit group reset received REFERENCE: 2.10.3.2/Q.764 PRE-TEST CONDITIONS: All circuits are idle. CONFIGURATION: 1 TYPE OF TEST: VAT TYPE OF SP: SP | | | | |
| Behaviour Description | L | Cref | V | C |
| +GRS_RANGE_VALID | 1 | | P | (Note) |
| +Check_CIRCUIT_IDLE | 2 | | | |
| +GRS_RANGE_INVALID | 3 | | | |
| +Check_CIRCUIT_IDLE | 4 | | | (Note) |
| Detailed Comments: NOTE – Check that all circuits involved in GRS are idle. | | | | |

| Test Case Dynamic Behaviour | | | | |
|--|---|------------|---|--------|
| Test Case Name: ISUPB10206 Group: ISUPB/CS/Reset/ Purpose: To verify that SP A is able to generate a circuit group reset message. Default: AnyOtherEventUnexpected Comments: SUBTITLE: Circuit group reset sent REFERENCE: 2.10.3.2/Q.764 PRE-TEST CONDITIONS: All circuits are idle. CONFIGURATION: 1 TYPE OF TEST: VAT TYPE OF SP: SP | | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! MML_REQ | 1 | GROUPRESET | | |
| LAB ? TRANSFER_IND | 2 | GRS_AB | | |
| LAB ! TRANSFER_REQ | 3 | GRA_BA | | |
| +Check_CIRCUIT_IDLE | 4 | | P | (Note) |
| Detailed Comments: NOTE – This test step should be repeated for all circuits of the circuit group. | | | | |

| Test Case Dynamic Behaviour | | | | |
|--|---|-------------|---|--------|
| Test Case Name: ISUPB10207 Group: ISUPB/CS/Reset/ Purpose: To verify that SP A is able to react to a circuit group reset message correctly for remotely blocked circuits. Default: AnyOtherEventUnexpected Comments: SUBTITLE: Circuit group reset received on remotely blocked circuits REFERENCE: 2.10.3.2 d)/Q.764 PRE-TEST CONDITIONS: All circuits are idle. CONFIGURATION: 1 TYPE OF TEST: VAT TYPE OF SP: SP | | | | |
| Behaviour Description | L | Cref | V | C |
| LAB ! TRANSFER_REQ | 1 | BLO_cicx_BA | | |
| LAB ? TRANSFER_IND | 2 | BLA_cicx_AB | | |
| LAB ! TRANSFER_REQ | 3 | BLO_cicy_BA | | |
| LAB ? TRANSFER_IND | 4 | BLA_cicy_AB | | |
| LAB ! TRANSFER_REQ | 5 | GRS_BA | | |
| LAB ? TRANSFER_IND | 6 | GRA_AB | | |
| +Check_CIRCUIT_IDLE | 7 | | P | (Note) |
| Detailed Comments: NOTE – This check applies to both circuits cicx and cicy. | | | | |

| Test Case Dynamic Behaviour | | | | |
|---|----|------|---|--------|
| <p>Test Case Name: ISUPB10311</p> <p>Group: ISUPB/CS/Blocking/Circuit_group/</p> <p>Purpose: To verify that the circuit group blocking feature can be correctly initiated.</p> <p>Default: AnyOtherEventUnexpected</p> <p>Comments: SUBTITLE: CGB and CGU received REFERENCE: 2.9.2/Q.764 PRE-TEST CONDITIONS: All circuits are idle. CONFIGURATION: 1 TYPE OF TEST: VAT and CPT TYPE OF SP: SP</p> | | | | |
| Behaviour Description | L | Cref | V | C |
| +BlockRemote_CIRCUIT_GROUP_MAINT # [CASE = A] | 1 | | | (Note) |
| +Check_REMOTE_BLOCKING_CIRCUIT_GROUP | 2 | | | |
| +UnblockRemote_CIRCUIT_GROUP_MAINT | 3 | | | |
| +Check_UNBLOCKED_CIRCUIT_GROUP | 4 | | | |
| +BlockRemote_CIRCUIT_GROUP_MAINT_ # RANGE_INVALID | 5 | | P | |
| +BlockRemote_CIRCUIT_GROUP_HARDW # [CASE = B] | 6 | | | |
| +Check_REMOTE_BLOCKING_CIRCUIT_ # GROUP_HARDW | 7 | | | |
| +UnblockRemote_CIRCUIT_GROUP_HARDW | 8 | | | |
| +Check_UNBLOCKED_CIRCUIT_GROUP | 9 | | | |
| +BlockRemote_CIRCUIT_GROUP_HARDW_ # RANGE_INVALID | 10 | | P | (Note) |
| <p>Detailed Comments:</p> <p>NOTE – A CPC = “test call” should not be used for this check.</p> | | | | |

| Test Case Dynamic Behaviour | | | | |
|--|----|--------------------|---|--------|
| <p>Test Case Name: ISUPB10312</p> <p>Group: ISUPB/CS/Blocking/Circuit_group/</p> <p>Purpose: To verify that SPA is able to generate one circuit group blocking message and one circuit group unblocking message.</p> <p>Default: AnyOtherEventUnexpected</p> <p>Comments: SUBTITLE: CGB and CGU sent REFERENCE: 2.9.2/Q.764 PRE-TEST CONDITIONS: All circuits are idle. CONFIGURATION: 1 TYPE OF TEST: VAT and CPT TYPE OF SP: SP</p> | | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! MML_REQ [CASE = A] | 1 | GROUPBLOCK_MAINT | P | (Note) |
| LAB ? TRANSFER_IND | 2 | CGB_maint_AB | | |
| LAB ! TRANSFER_REQ | 3 | CGBA_maint_BA | | |
| UTA ! MML_REQ | 4 | GROUPUNBLOCK_MAINT | | |
| LAB ? TRANSFER_IND | 5 | CGU_maint_AB | | |
| LAB ! TRANSFER_REQ | 6 | CGUA_maint_BA | | |
| +Check_UNBLOCKED_CIRCUIT_GROUP | 7 | | | |
| UTA ! MML_REQ [CASE = B] | 8 | GROUPBLOCK_HARDW | | |
| LAB ? TRANSFER_IND | 9 | CGB_hardw_AB | | |
| LAB ! TRANSFER_REQ | 10 | CGBA_hardw_BA | | |
| UTA ! MML_REQ | 11 | GROUPUNBLOCK_HARDW | | |
| LAB ? TRANSFER_IND | 12 | CGU_hardw_AB | | |
| LAB ! TRANSFER_REQ | 13 | CGUA_hardw_BA | | |
| +Check_UNBLOCKED_CIRCUIT_GROUP | 14 | | | |
| <p>Detailed Comments:</p> <p>NOTE – A CPC = “test call” should not be used for this check.</p> | | | | |

| Test Case Dynamic Behaviour | | | | |
|--|---|--------|---|--------|
| Test Case Name: ISUPB10321 Group: ISUPB/CS/Blocking/Circuit/ Purpose: To verify that the blocking/unblocking procedure can be correctly initiated. Default: AnyOtherEventUnexpected Comments: SUBTITLE: BLO received REFERENCE: 2.9.2/Q.764 PRE-TEST CONDITIONS: The circuit is idle. CONFIGURATION: 1 TYPE OF TEST: VAT and CPT TYPE OF SP: SP | | | | |
| Behaviour Description | L | Cref | V | C |
| LAB ! TRANSFER_REQ | 1 | BLO_BA | P | (Note) |
| LAB ? TRANSFER_IND | 2 | BLA_AB | | |
| +Check_REMOTE_BLOCKING_CIRCUIT | 3 | | | |
| LAB ! TRANSFER_REQ | 4 | UBL_BA | | |
| LAB ? TRANSFER_IND | 5 | UBA_AB | | |
| +Check_UNBLOCKED_CIRCUIT | 6 | | | |
| Detailed Comments: NOTE – A CPC = “test call” should not be used for this check. | | | | |

| Test Case Dynamic Behaviour | | | | |
|--|---|-----------------|---|--------|
| Test Case Name: ISUPB10322 Group: ISUPB/CS/Blocking/Circuit/ Purpose: To verify that SP A is able to generate blocking messages. Default: AnyOtherEventUnexpected Comments: SUBTITLE: BLO sent REFERENCE: 2.9.2/Q.764 PRE-TEST CONDITIONS: The circuit is idle. CONFIGURATION: 1 TYPE OF TEST: VAT and CPT TYPE OF SP: SP | | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! MML_REQ | 1 | BLOCK_CIRCUIT | P | (Note) |
| LAB ? TRANSFER_IND | 2 | BLO_AB | | |
| LAB ! TRANSFER_REQ | 3 | BLA_BA | | |
| UTA ! MML_REQ | 4 | UNBLOCK_CIRCUIT | | |
| LAB ? TRANSFER_IND | 5 | UBL_AB | | |
| LAB ! TRANSFER_REQ | 6 | UBA_BA | | |
| +Check_UNBLOCKED_CIRCUIT | 7 | | | |
| Detailed Comments: NOTE – A CPC = “test call” should not be used for this check. | | | | |

| Test Case Dynamic Behaviour | | | | |
|--|----|-----------------|---|--------|
| <p>Test Case Name: ISUPB10323</p> <p>Group: ISUPB/CS/Blocking/Circuit/</p> <p>Purpose: To verify that the blocking/unblocking procedure can be correctly initiated.</p> <p>Default: AnyOtherEventUnexpected</p> <p>Comments: SUBTITLE: Blocking from both ends removal of blocking from one end REFERENCE: 2.9.2/Q.764 PRE-TEST CONDITIONS: The circuit is idle. CONFIGURATION: 1 TYPE OF TEST: VAT and CPT TYPE OF SP: SP</p> | | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! MML_REQ | 1 | BLOCK_CIRCUIT | | |
| LAB ? TRANSFER_IND | 2 | BLO_AB | | |
| LAB ! TRANSFER_REQ | 3 | BLA_BA | | |
| LAB ! TRANSFER_REQ | 4 | BLO_BA | | |
| LAB ? TRANSFER_IND | 5 | BLA_AB | | |
| +Check_BOTHENDS_BLOCKING_CIRCUIT | 6 | | | (Note) |
| UTA ! MML_REQ | 7 | UNBLOCK_CIRCUIT | | |
| LAB ? TRANSFER_IND | 8 | UBL_AB | | |
| LAB ! TRANSFER_REQ | 9 | UBA_BA | | |
| +Check_REMOTE_BLOCKING_CIRCUIT | 10 | | | (Note) |
| LAB ! TRANSFER_REQ | 11 | UBL_BA | | |
| LAB ? TRANSFER_IND | 12 | UBA_AB | | |
| +Check_UNBLOCKED_CIRCUIT | 13 | | P | (Note) |
| <p>Detailed Comments:</p> <p>NOTE – A CPC = “test call” should not be used for this check.</p> | | | | |

| Test Case Dynamic Behaviour | | | | |
|---|----|----------------|---|--------|
| <p>Test Case Name: ISUPB10324</p> <p>Group: ISUPB/CS/Blocking/Circuit/</p> <p>Purpose: To verify that an IAM will unblock the remotely blocked circuit.</p> <p>Default: AnyOtherEventUnexpected</p> <p>Comments: SUBTITLE: IAM received on a remotely blocked circuit REFERENCE: 2.9.2.3 xiv)/Q.764 PRE-TEST CONDITIONS: The circuit is idle. CONFIGURATION: 1 TYPE OF TEST: VAT and CPT TYPE OF SP: SP</p> | | | | |
| Behaviour Description | L | Cref | V | C |
| LAB ! TRANSFER_REQ | 1 | BLO_BA | P | (Note) |
| LAB ? TRANSFER_IND | 2 | BLA_AB | | |
| +Check_REMOTE_BLOCKING_CIRCUIT | 3 | | | |
| LAB ! TRANSFER_REQ | 4 | IAM_BA | | |
| +Receive_ACM_and_SETUP_IND | 5 | | | |
| UTA ! USER_REQ | 6 | SETUP_RESP_any | | |
| LAB ? TRANSFER_IND | 7 | ANM_AB | | |
| +Check_CONNECTIVITY | 8 | | | |
| LAB ! TRANSFER_REQ | 9 | REL_BA | | |
| +Receive_RLC_and_REL_IND | 10 | | | |
| +Check_CIRCUIT_IDLE | 11 | | | |
| <p>Detailed Comments:</p> <p>NOTE – A CPC = “test call” should not be used for this check.</p> | | | | |

| Test Case Dynamic Behaviour | | | | |
|--|---|-------------------|---|---|
| Test Case Name: ISUPB10401 Group: ISUPB/CS/Cont_check_test_call/ Purpose: To verify that the continuity test call procedure can be correctly performed. Default: AnyOtherEventUnexpected Comments: SUBTITLE: CCR received successful REFERENCE: 2.1.8/Q.764 PRE-TEST CONDITIONS: The circuit is idle. CONFIGURATION: 1 TYPE OF TEST: VAT and CPT TYPE OF SP: SP | | | | |
| Behaviour Description | L | Cref | V | C |
| LAB ! TRANSFER_REQ | 1 | CCR_BA | P | |
| CAB ! CONTCHECK_REQ | 2 | CONTCHECK_tone_BA | | |
| CAB ? CONTCHECK_IND | 3 | CONTCHECK_tone_AB | | |
| LAB ! TRANSFER_REQ | 4 | REL_BA | | |
| LAB ? TRANSFER_IND | 5 | RLC_AB | | |
| +Check_CIRCUIT_IDLE | 6 | | | |
| Detailed Comments: | | | | |

| Test Case Dynamic Behaviour | | | | |
|--|---|--------------------|---|---|
| Test Case Name: ISUPB10402 Group: ISUPB/CS/Cont_check_test_call/ Purpose: To verify that the continuity test call procedure can be correctly performed. Default: AnyOtherEventUnexpected Comments: SUBTITLE: CCR sent successful REFERENCE: 2.1.8/Q.764 PRE-TEST CONDITIONS: The circuit is idle. CONFIGURATION: 1 TYPE OF TEST: VAT and CPT TYPE OF SP: SP | | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! MML_REQ | 1 | CONTCHECK_TESTCALL | P | |
| LAB ? TRANSFER_IND | 2 | CCR_AB | | |
| CAB ! CONNECT_CONTCHECKLOOP_REQ | 3 | CONNECT_ | | |
| # | 4 | CONTCHECKLOOP_B | | |
| UTA ! USER_REQ | 5 | REL_REQ | | |
| LAB ? TRANSFER_IND | 6 | REL_AB | | |
| LAB ! TRANSFER_REQ | 7 | RLC_BA | | |
| CAB ! CONNECT_CONTCHECKLOOP_REQ | 8 | DISCONNECT_ | | |
| # | | CONTCHECKLOOP_B | | |
| +Check_CIRCUIT_IDLE | | | | |
| Detailed Comments: | | | | |

| Test Case Dynamic Behaviour | | | | |
|---|----|-------------------|---|---|
| <p>Test Case Name: ISUPB10403</p> <p>Group: ISUPB/CS/Cont_check_test_call/</p> <p>Purpose: To verify that the messages associated with continuity check procedure can be correctly received.</p> <p>Default: AnyOtherEventUnexpected</p> <p>Comments: SUBTITLE: CCR received unsuccessful REFERENCE: 2.1.8/Q.764 PRE-TEST CONDITIONS: Ensure that no backward check tone is detected within the specified time out. CONFIGURATION: 1 TYPE OF TEST: VAT TYPE OF SP: SP</p> | | | | |
| Behaviour Description | L | Cref | V | C |
| LAB ! TRANSFER_REQ | 1 | CCR_BA | | |
| CAB ! CONTCHECK_REQ START T24max | 2 | CONTCHECK_tone_BA | | |
| ?TIMEOUT T24max | 3 | | | |
| LAB ! TRANSFER_REQ START T26max | 4 | COT_failed_BA | | |
| ?TIMEOUT T26max | 5 | | | |
| LAB ! TRANSFER_REQ | 6 | CCR_BA | | |
| CAB ! CONTCHECK_REQ START T24max | 7 | CONTCHECK_tone_BA | | |
| ?TIMEOUT T24max | 8 | | | |
| LAB ! TRANSFER_REQ START T26max | 9 | COT_failed_BA | | |
| UTA ? MAINT_IND | 10 | ALARM_MaintSystem | | |
| ?TIMEOUT T26max | 11 | | | |
| LAB ! TRANSFER_REQ | 12 | CCR_BA | P | |
| <p>Detailed Comments:</p> | | | | |

| Test Case Dynamic Behaviour | | | | |
|---|----|--------------------|---|---|
| <p>Test Case Name: ISUPB10404</p> <p>Group: ISUPB/CS/Cont_check_test_call/</p> <p>Purpose: To verify that the continuity check procedure can be correctly invoked.</p> <p>Default: AnyOtherEventUnexpected</p> <p>Comments: SUBTITLE: CCR sent unsuccessful REFERENCE: 2.1.8/Q.764 PRE-TEST CONDITIONS: Ensure that no backward check tone is detected within the specified time out. CONFIGURATION: 1 TYPE OF TEST: VAT TYPE OF SP: SP</p> | | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! MML_REQ | 1 | CONTCHECK_TESTCALL | | |
| LAB ? TRANSFER_IND START T24max | 2 | CCR_AB | | |
| LAB ? TRANSFER_IND | | COT_failed_AB | | |
| # CANCEL T24max, START T26max | 3 | | | |
| LAB ? TRANSFER_IND | | CCR_AB | | |
| # CANCEL T26max, START T24max | 4 | | | |
| LAB ? TRANSFER_IND | | COT_failed_AB | | |
| # CANCEL T24max, START T26max | 5 | | | |
| UTA ? MAINT_IND | 6 | ALARM_MaintSystem | | |
| LAB ? TRANSFER_IND CANCEL T26max | 7 | CCR_AB | P | |
| ?TIMEOUT T26max | 8 | | F | |
| ?TIMEOUT T24max | 9 | | F | |
| ?TIMEOUT T26max | 10 | | F | |
| ?TIMEOUT T24max | 11 | | F | |
| Detailed Comments: | | | | |

| Test Case Dynamic Behaviour | | | | |
|---|---|---------------------|---|---|
| Test Case Name: ISUPB10405 Group: ISUPB/CS/Cont_check_test_call/ Purpose: To verify that the continuity check procedure can be correctly received. Default: AnyOtherEventUnexpected Comments: SUBTITLE: CCR received unsuccessful verify T27 timer REFERENCE: 2.1.8/Q.764 PRE-TEST CONDITIONS: a) Continuity check is required. b) Ensure that no backward check tone is detected within the specified time out. c) The data in SP B is arranged such that a second CCR is not generated. CONFIGURATION: 1 TYPE OF TEST: VAT TYPE OF SP: SP | | | | |
| Behaviour Description | L | Cref | V | C |
| LAB ! TRANSFER_REQ | 1 | IAM_contcheckreq_BA | P | |
| CAB ! CONTCHECK_REQ START T24min | 2 | CONTCHECK_tone_BA | | |
| ?TIMEOUT T24min | 3 | | | |
| LAB ! TRANSFER_REQ START T27max | 4 | COT_failed_BA | | |
| ?TIMEOUT T27max | 5 | | | |
| LAB ? TRANSFER_IND | 6 | RSC_AB | | |
| LAB ! TRANSFER_REQ | 7 | RLC_BA | | |
| Detailed Comments: | | | | |

| Test Case Dynamic Behaviour | | | | |
|---|----|--------|---|-------------|
| <p>Test Case Name: ISUPB10501</p> <p>Group: ISUPB/CS/Rec_UNREAS/</p> <p>Purpose: To verify that the action taken by a signalling point upon receipt of unexpected messages is as stated in 2.10.5.1/Q.764.</p> <p>Default: AnyOtherEventUnexpected</p> <p>Comments: SUBTITLE: Receipt of unexpected messages REFERENCE: 2.10.5.1 a)/Q.764, 2.10.5.1 b)/Q.764 and 2.10.5.1 d)/Q.764 PRE-TEST CONDITIONS: a) Arrange the data in signalling point B such that REL, RLC and other unreasonable messages may be initiated. b) The circuit should be idle and unblocked. CONFIGURATION: 1 TYPE OF TEST: VAT TYPE OF SP: SP</p> | | | | |
| Behaviour Description | L | Cref | V | C |
| LAB ! TRANSFER_REQ [CASE = A] | 1 | REL_BA | P | (Note 1) |
| LAB ? TRANSFER_IND | 2 | RLC_AB | | |
| +Check_CIRCUIT_IDLE | 3 | | | |
| LAB ! TRANSFER_REQ [CASE = B] | 4 | RLC_BA | P | (Note 1) |
| +Check_CIRCUIT_IDLE | 5 | | | |
| LAB ! TRANSFER_REQ [CASE = C] | 6 | XXX_BA | P | (Note 1, 2) |
| LAB ? TRANSFER_IND | 7 | RSC_AB | | |
| LAB ! TRANSFER_REQ | 8 | RLC_BA | | |
| +Check_CIRCUIT_IDLE | 9 | | P | |
| LAB ! TRANSFER_REQ [CASE = D] | 10 | YYY_BA | P | (Note 1) |
| +Check_CIRCUIT_IDLE | 11 | | | |
| <p>Detailed Comments:</p> <p>NOTES</p> <p>1 This test covers only some of the ambiguous messages which could be received.</p> <p>2 Not all the unreasonable messages will cause a RSC message to be sent.</p> | | | | |

| Test Case Dynamic Behaviour | | | | |
|--|----|---------------|---|--------|
| <p>Test Case Name: ISUPB10502</p> <p>Group: ISUPB/CS/Rec_UNREAS/</p> <p>Purpose: To verify that the action taken by a signalling point upon receipt of unexpected messages is as stated in 2.10.5.1/Q.764.</p> <p>Default: AnyOtherEventUnexpected</p> <p>Comments: SUBTITLE: Receipt of unexpected messages during call set-up REFERENCE: 2.10.5.1 d)/Q.764 PRE-TEST CONDITIONS: a) Arrange the data in signalling point B such that other unreasonable messages may be initiated. b) The circuit should be idle and unblocked. CONFIGURATION: 1 TYPE OF TEST: VAT TYPE OF SP: SP</p> | | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! USER_REQ [CASE = A] | 1 | SETUP_REQ_any | P | (Note) |
| LAB ? TRANSFER_IND | 2 | IAM_AB | | |
| LAB ! TRANSFER_REQ | 3 | ACM_BA | | |
| LAB ! TRANSFER_REQ | 4 | XXX_BA | | |
| LAB ! TRANSFER_REQ | 5 | ANM_BA | | |
| +Check_CONNECTIVITY | 6 | | | |
| UTA ! USER_REQ | 7 | REL_REQ | | (Note) |
| LAB ? TRANSFER_IND | 8 | REL_AB | | |
| LAB ! TRANSFER_REQ | 9 | RLC_BA | | |
| LAB ! TRANSFER_REQ [CASE = B] | 10 | IAM_BA | | |
| LAB ! TRANSFER_REQ | 11 | YYY_BA | | |
| LAB ? TRANSFER_IND | 12 | RSC_AB | | |
| LAB ! TRANSFER_REQ | 13 | RLC_BA | | |
| +Check_CIRCUIT_IDLE | 14 | | | |
| <p>Detailed Comments:</p> <p>NOTE – Messages other than call control messages will be used for XXX and YYY.</p> | | | | |

| Test Case Dynamic Behaviour | | | | |
|---|----|---------------|---|--------|
| <div>Test Case Name: ISUPB10503</div> <div>Group: ISUPB/CS/Rec_UNREAS/</div> <div>Purpose: To verify that the action taken by a signalling point upon receipt of unexpected messages is as stated in 2.10.5.1/Q.764.</div> <div>Default: AnyOtherEventUnexpected</div> <div>Comments: SUBTITLE: Receipt of unexpected messages during a call REFERENCE: 2.10.5.1 c)/Q.764 and 2.10.5.1 d)/Q.764 PRE-TEST CONDITIONS: a) Arrange the data in signalling point B such that an unexpected RLC and other unreasonable messages may be initiated. b) The circuit should be idle and unblocked. CONFIGURATION: 1 TYPE OF TEST: VAT TYPE OF SP: SP</div> | | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! USER_REQ [CASE = A] | 1 | SETUP_REQ_any | P | (Note) |
| LAB ? TRANSFER_IND | 2 | IAM_AB | | |
| LAB ! TRANSFER_REQ | 3 | ACM_BA | | |
| LAB ! TRANSFER_REQ | 4 | ANM_BA | | |
| +Check_CONNECTIVITY | 5 | | | |
| LAB ! TRANSFER_REQ | 6 | RLC_BA | | |
| LAB ? TRANSFER_IND | 7 | REL_AB | | |
| LAB ! TRANSFER_REQ | 8 | RLC_BA | | |
| +Check_CIRCUIT_IDLE | 9 | | | |
| UTA ! USER_REQ [CASE = B] | 10 | SETUP_REQ_any | | |
| LAB ! TRANSFER_REQ | 11 | IAM_AB | | |
| LAB ? TRANSFER_IND | 12 | ACM_BA | | |
| LAB ! TRANSFER_REQ | 13 | ANM_BA | | |
| +Check_CONNECTIVITY | 14 | | | |
| LAB ! TRANSFER_REQ | 15 | XXX_BA | | |
| +Check_CONNECTIVITY | 16 | | | |
| LAB ! TRANSFER_REQ | 17 | REL_BA | | |
| +Receive_RLC_and_REL_IND | 18 | | P | |
| <div>Detailed Comments:</div> <div>NOTE – Messages other than REL, RLC, RSC and SUS will be used for XXX.</div> | | | | |

| Test Case Dynamic Behaviour | | | | |
|---|---|--|---------------------------------------|---|
| <p>Test Case Name: ISUPB20101</p> <p>Group: ISUPB/NCS/Both_way_select/</p> <p>Purpose: To verify that signalling point A can initiate an outgoing call on a circuit capable of bothway operation when the controlling SP is A.</p> <p>Default: AnyOtherEventUnexpected</p> <p>Comments: SUBTITLE: IAM sent by controlling SP REFERENCE: 2.1/Q.764 PRE-TEST CONDITIONS: a) Called termination is free. b) Circuit selected is capable of bothway operation. c) SP A is the controlling signalling point. CONFIGURATION: 1 TYPE OF TEST: VAT and CPT TYPE OF SP: SP</p> | | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! USER_REQ LAB ? TRANSFER_IND LAB ! TRANSFER_REQ +Check_RINGING_TONE LAB ! TRANSFER_REQ +Check_CONNECTIVITY UTA ! USER_REQ LAB ? TRANSFER_IND LAB ! TRANSFER_REQ +Check_CIRCUIT_IDLE | 1 2 3 4 5 6 7 8 9 10 | SETUP_REQ_Speech IAM_Speech_AB ACM_BA ANM_BA REL_REQ REL_AB RLC_BA | P | |
| Detailed Comments: | | | | |

| Test Case Dynamic Behaviour | | | | |
|---|---|------------------|---|---|
| <p>Test Case Name: ISUPB20102</p> <p>Group: ISUPB/NCS/Both_way_select/</p> <p>Purpose: To verify that signalling point A can initiate an outgoing call on a circuit capable of bothway operation when the non-controlling SP is A.</p> <p>Default: AnyOtherEventUnexpected</p> <p>Comments: SUBTITLE: IAM sent by non controlling SP REFERENCE: 2.1/Q.764 PRE-TEST CONDITIONS: a) Called termination is free. b) Circuit selected is capable of bothway operation. c) SP A is the non-controlling signalling point. CONFIGURATION: 1 TYPE OF TEST: VAT and CPT TYPE OF SP: SP</p> | | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! USER_REQ | 1 | SETUP_REQ_Speech | P | |
| LAB ? TRANSFER_IND | 2 | IAM_Speech_AB | | |
| LAB ! TRANSFER_REQ | 3 | ACM_BA | | |
| +Check_RINGING_TONE | 4 | | | |
| LAB ! TRANSFER_REQ | 5 | ANM_BA | | |
| +Check_CONNECTIVITY | 6 | | | |
| LAB ! TRANSFER_REQ | 7 | REL_BA | | |
| +Receive_RLC_and_REL_IND | 8 | | | |
| +Check_CIRCUIT_IDLE | 9 | | | |
| Detailed Comments: | | | | |

| Test Case Dynamic Behaviour | | | | |
|--|----|----------------|---|---|
| Test Case Name: ISUPB20201 Group: ISUPB/NCS/Cld_addr_send/ Purpose: To verify that a call can be succesfully established (all digits included in the IAM). Default: AnyOtherEventUnexpected Comments: SUBTITLE: <i>En-bloc</i> operation REFERENCE: 2.1.1/Q.764, 2.1.4/Q.764, 2.1.7/Q.764 and 2.3/Q.764 PRE-TEST CONDITIONS: a) Called termination is free. b) The exchange data is arranged such all digits are included in the IAM. CONFIGURATION: 1 TYPE OF TEST: VAT and CPT TYPE OF SP: SP | | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! USER_REQ [SP_A = ORI] | 1 | SETUP_REQ_any | P | |
| LAB ? TRANSFER_IND | 2 | IAM_AB | | |
| LAB ! TRANSFER_REQ | 3 | ACM_BA | | |
| +Check_RINGING_TONE | 4 | | | |
| LAB ! TRANSFER_REQ | 5 | ANM_BA | | |
| +Check_CONNECTIVITY | 6 | | | |
| UTA ! USER_REQ | 7 | REL_REQ | | |
| LAB ? TRANSFER_IND | 8 | REL_AB | | |
| LAB ! TRANSFER_REQ | 9 | RLC_BA | | |
| +Check_CIRCUIT_IDLE | 10 | | | |
| LAB ! TRANSFER_REQ [SP_A = TER] | 11 | IAM_BA | | |
| +Receive_ACM_and_SETUP_IND | 12 | | | |
| +Check_RINGING_TONE | 13 | | | |
| UTA ! USER_REQ | 14 | SETUP_RESP_any | | |
| LAB ? TRANSFER_IND | 15 | ANM_AB | | |
| +Check_CONNECTIVITY | 16 | | | |
| LAB ! TRANSFER_REQ | 17 | REL_BA | | |
| +Receive_RLC_and_REL_IND | 18 | | | |
| +Check_CIRCUIT_IDLE | 19 | | | |
| Detailed Comments: | | | | |

| Test Case Dynamic Behaviour | | | | |
|--|----|-------------------|---|--------|
| <div>Test Case Name: ISUPB20202</div> <div>Group: ISUPB/NCS/Cld_addr_send/</div> <div>Purpose: To verify that signalling point A can initiate a call using an IAM followed by a SAM.</div> <div>Default: AnyOtherEventUnexpected</div> <div>Comments: SUBTITLE: Overlap operation with SAM REFERENCE: 2.1.2/Q.764 PRE-TEST CONDITIONS: a) Called termination is free. b) The signalling point data is arranged such that digits are generated in an IAM followed by a SAM. CONFIGURATION: 1 TYPE OF TEST: VAT and CPT TYPE OF SP: SP</div> | | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! USER_REQ [SP_A = ORI] | 1 | SETUP_REQ_Overlap | P | (Note) |
| LAB ? TRANSFER_IND | 2 | IAM_Overlap_AB | | |
| UTA ! USER_REQ | 3 | INFO_REQ | | |
| LAB ? TRANSFER_IND | 4 | SAM_AB | | |
| LAB ! TRANSFER_REQ | 5 | ACM_BA | | |
| +Check_RINGING_TONE | 6 | | | |
| LAB ! TRANSFER_REQ | 7 | ANM_BA | | |
| +Check_CONNECTIVITY | 8 | | | |
| UTA ! USER_REQ | 9 | REL_REQ | | |
| LAB ? TRANSFER_IND | 10 | REL_AB | | |
| LAB ! TRANSFER_REQ | 11 | RLC_BA | | |
| +Check_CIRCUIT_IDLE | 12 | | | |
| LAB ! TRANSFER_REQ [SP_A = TER] | 13 | IAM_BA | P | (Note) |
| LAB ! TRANSFER_REQ | 14 | SAM_BA | | |
| +Receive_ACM_and_SETUP_IND | 15 | | | |
| +Check_RINGING_TONE | 16 | | | |
| UTA ! USER_REQ | 17 | SETUP_RESP_any | | |
| LAB ? TRANSFER_IND | 18 | ANM_AB | | |
| +Check_CONNECTIVITY | 19 | | | |
| LAB ! TRANSFER_REQ | 20 | REL_BA | | |
| +Receive_RLC_and_REL_IND | 21 | | | |
| +Check_CIRCUIT_IDLE | 22 | | | |
| <div>Detailed Comments:</div> <div>NOTE – Where SP A is in a position to know by digit analysis that the final digit has been sent. Confirm that an end-of-pulsing (ST) signal is included in the last address message. Multiple SAMs may be used.</div> | | | | |

| Test Case Dynamic Behaviour | | | | |
|---|----|------|---|---|
| <div>Test Case Name: ISUPB20301</div> <div>Group: ISUPB/NCS/Succ_set-up/</div> <div>Purpose: To verify that a call can be successfully completed using various indications in address complete messages</div> <div>Default: AnyOtherEventUnexpected</div> <div>Comments: SUBTITLE: Ordinary call with various indications in ACM REFERENCE: 2.1.4.1/Q.764, 2.1.7/Q.764 PRE-TEST CONDITIONS: Called termination is free. CONFIGURATION: 1 TYPE OF TEST: VAT and CPT TYPE OF SP: SP</div> | | | | |
| Behaviour Description | L | Cref | V | C |
| [SP_A = ORI] | 1 | | P | |
| +SETUP_ORI_Call_BCI_Free_ISDN_in_ACM | 2 | | | |
| +SETUP_ORI_Call_BCI_Free_Non_ISDN_ | 3 | | | |
| # in_ACM | | | | |
| +SETUP_ORI_Call_BCI_No_Ind_ISDN_in_ACM | 4 | | | |
| +SETUP_ORI_Call_BCI_No_Ind_Non_ISDN_ | 5 | | | |
| # in_ACM | | | | |
| [SP_A = TER] | 6 | | | |
| +SETUP_TER_Call_BCI_Free_ISDN_in_ACM | 7 | | | |
| +SETUP_TER_Call_BCI_Free_Non_ISDN_ | 8 | | | |
| # in_ACM | | | | |
| +SETUP_TER_Call_BCI_No_Ind_ISDN_in_ACM | 9 | | | |
| +SETUP_TER_Call_BCI_No_Ind_Non_ISDN_ | 10 | | | |
| # in_ACM | | | | |
| <div>Detailed Comments:</div> | | | | |

| Test Case Dynamic Behaviour | | | | |
|--|---|------|---|---|
| <p>Test Case Name: ISUPB20302</p> <p>Group: ISUPB/NCS/Succ_set-up/</p> <p>Purpose: To verify that a call can be successfully completed using address complete message, call progress message and answer message.</p> <p>Default: AnyOtherEventUnexpected</p> <p>Comments: SUBTITLE: Ordinary call with ACM CPG and ANM REFERENCE: 2.1.5/Q.764 PRE-TEST CONDITIONS: Called termination is free. CONFIGURATION: 1 TYPE OF TEST: VAT and CPT TYPE OF SP: SP</p> | | | | |
| Behaviour Description | L | Cref | V | C |
| [SP_A = ORI] | 1 | | P | |
| +SETUP_ORI_Call_CPG_Alerting | 2 | | | |
| +SETUP_ORI_Call_CPG_Progress | 3 | | | |
| +SETUP_ORI_Call_CPG_In_band_info | 4 | | | |
| [SP_A = TER] | 5 | | P | |
| +SETUP_TER_Call_CPG_Alerting | 6 | | | |
| +SETUP_TER_Call_CPG_Progress | 7 | | | |
| +SETUP_TER_Call_CPG_In_band_info | 8 | | | |
| Detailed Comments: | | | | |

| Test Case Dynamic Behaviour | | | | |
|--|----|------|---|---|
| <p>Test Case Name: ISUPB20303</p> <p>Group: ISUPB/NCS/Succ_set-up/</p> <p>Purpose: To verify that a call can be successfully completed using various indications in the connect messages.</p> <p>Default: AnyOtherEventUnexpected</p> <p>Comments: SUBTITLE: Ordinary call with various indications in CON REFERENCE: 2.1.4.2/Q.764 PRE-TEST CONDITIONS: Called termination is free. A connect message is returned instead of an answer message from SP B. CONFIGURATION: 1 TYPE OF TEST: VAT and CPT TYPE OF SP: SP</p> | | | | |
| Behaviour Description | L | Cref | V | C |
| [SP_A = ORI] | 1 | | | |
| +SETUP_ORI_Call_BCI_Free_ISDN_ | | | | |
| # in_CON | 2 | | | |
| +SETUP_ORI_Call_BCI_Free_Non_ISDN_ | | | | |
| # in_CON | 3 | | | |
| +SETUP_ORI_Call_BCI_No_Ind_ISDN_ | | | | |
| # in_CON | 4 | | | |
| +SETUP_ORI_Call_BCI_No_Ind_Non_ISDN_ | | | | |
| # in_CON | 5 | | P | |
| [SP_A = TER] | 6 | | | |
| +SETUP_TER_Call_BCI_Free_ISDN_ | | | | |
| # in_CON | 7 | | | |
| +SETUP_TER_Call_BCI_Free_Non_ISDN_ | | | | |
| # in_CON | 8 | | | |
| +SETUP_TER_Call_BCI_No_Ind_ISDN_ | | | | |
| # in_CON | 9 | | | |
| +SETUP_TER_Call_BCI_No_Ind_Non_ISDN_ | | | | |
| # in_CON | 10 | | P | |
| Detailed Comments: | | | | |

| Test Case Dynamic Behaviour | | | | |
|---|----|---------------------|---|--------|
| <div>Test Case Name: ISUPB20304</div> <div>Group: ISUPB/NCS/Succ_set-up/</div> <div>Purpose: To verify the satellite indicator in the initial address message is correctly set.</div> <div>Default: AnyOtherEventUnexpected</div> <div>Comments: SUBTITLE: Call switched via a satellite</div> <div>REFERENCE: 2.1/Q.764</div> <div>PRE-TEST CONDITIONS:</div> <div>a) Called termination is free.</div> <div>b) The signalling point data is arranged such that the call is switched via a satellite connection or has a satellite connection already included in the path.</div> <div>CONFIGURATION: 1</div> <div>TYPE OF TEST: VAT and CPT</div> <div>TYPE OF SP: SP</div> | | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! USER_REQ [SP_A = ORI] | 1 | SETUP_REQ_Satellite | P | (Note) |
| LAB ? TRANSFER_IND | 2 | IAM_Satellite_AB | | |
| LAB ! TRANSFER_REQ | 3 | ACM_BA | | |
| +Check_RINGING_TONE | 4 | | | |
| LAB ! TRANSFER_REQ | 5 | ANM_BA | | |
| +Check_CONNECTIVITY | 6 | | | |
| UTA ! USER_REQ | 7 | REL_REQ | | |
| LAB ? TRANSFER_IND | 8 | REL_AB | | |
| LAB ! TRANSFER_REQ | 9 | RLC_BA | | |
| +Check_CIRCUIT_IDLE | 10 | | | |
| LAB ! TRANSFER_REQ [SP_A = TER] | 11 | IAM_Satellite_BA | P | (Note) |
| +Receive_ACM_and_SETUP_IND | 12 | | | |
| +Check_RINGING_TONE | 13 | | | |
| UTA ! USER_REQ | 14 | SETUP_RESP_any | | |
| LAB ? TRANSFER_IND | 15 | ANM_AB | | |
| +Check_CONNECTIVITY | 16 | | | |
| LAB ! TRANSFER_REQ | 17 | REL_BA | | |
| +Receive_RLC_and_REL_IND | 18 | | | |
| +Check_CIRCUIT_IDLE | 19 | | | |
| <div>Detailed Comments:</div> <div>NOTE – Was the satellite indicator “BA” bits in the Nature of Connection Indicators in the IAM set to “01”?</div> | | | | |

| Test Case Dynamic Behaviour | | | | |
|--|----|------------------------|---|----------------------|
| <p>Test Case Name: ISUPB20305</p> <p>Group: ISUPB/NCS/Succ_set-up/</p> <p>Purpose: To verify that a call can be successfully established with the inclusion of echo control devices.</p> <p>Default: AnyOtherEventUnexpected</p> <p>Comments: SUBTITLE: Echo control procedure for call set-up REFERENCE: 2.8/Q.764 PRE-TEST CONDITIONS: a) Called termination is free. b) The signalling point data is arranged such that the call is routed over a route requiring echo control devices or already has a echo control device included in the connection. CONFIGURATION: 1 TYPE OF TEST: VAT and CPT TYPE OF SP: SP</p> | | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! USER_REQ [SP_A = ORI] | 1 | SETUP_REQ_Echo_Control | P | (Note 1) (Note 2) |
| LAB ? TRANSFER_IND | 2 | IAM_Echo_Control_AB | | |
| LAB ! TRANSFER_REQ | 3 | ACM_Echo_Control_BA | | |
| +Check_RINGING_TONE | 4 | | | |
| LAB ! TRANSFER_REQ | 5 | ANM_BA | | |
| +Check_CONNECTIVITY | 6 | | | |
| +Check_ECHO_DEVICES | 7 | | | |
| UTA ! USER_REQ | 8 | REL_REQ | | |
| LAB ? TRANSFER_IND | 9 | REL_AB | | |
| LAB ! TRANSFER_REQ | 10 | RLC_BA | | |
| +Check_CIRCUIT_IDLE | 11 | | P | (Note 1) (Note 2) |
| LAB ! TRANSFER_REQ [SP_A = TER] | 12 | IAM_Echo_Control_BA | | |
| +Receive_ACM_Echo_and_SETUP_IND | 13 | | | |
| +Check_RINGING_TONE | 14 | | | |
| UTA ! USER_REQ | 15 | SETUP_RESP_any | | |
| LAB ? TRANSFER_IND | 16 | ANM_AB | | |
| +Check_CONNECTIVITY | 17 | | | |
| +Check_ECHO_DEVICES | 18 | | | |
| LAB ! TRANSFER_REQ | 19 | REL_BA | | |
| +Receive_RLC_and_REL_IND | 20 | | | |
| +Check_CIRCUIT_IDLE | 21 | | P | |
| <p>Detailed Comments:</p> <p>NOTES</p> <p>1 Is the Echo Control Device Indicator bit “E” (outgoing half echo device included) in Nature of Connection Indicators in the IAM set to “1”?</p> <p>2 Is the Echo Control Device Indicator bit “N” (incoming half echo device included) in the Backward Call Indicators in the ACM set to “1”?</p> | | | | |

| Test Case Dynamic Behaviour | | | | |
|---|--|-----------------|---|--------|
| Test Case Name: | ISUPB20306 | | | |
| Group: | ISUPB/NCS/Succ_set-up/ | | | |
| Purpose: | To verify that the circuit blocking and unblocking procedure can be correctly initiated during a call. | | | |
| Default: | AnyOtherEventUnexpected | | | |
| Comments: | SUBTITLE: Blocking and unblocking during a call (initiated) REFERENCE: 2.9.2.1/Q.764 PRE-TEST CONDITIONS: Called termination is free. CONFIGURATION: 1 TYPE OF TEST: VAT and CPT TYPE OF SP: SP | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! USER_REQ [SP_A = ORI] | 1 | SETUP_REQ_any | P | (Note) |
| LAB ? TRANSFER_IND | 2 | IAM_AB | | |
| LAB ! TRANSFER_REQ | 3 | ACM_BA | | |
| +Check_RINGING_TONE | 4 | | | |
| LAB ! TRANSFER_REQ | 5 | ANM_BA | | |
| +Check_CONNECTIVITY | 6 | | | |
| UTA ! MML_REQ | 7 | BLOCK_CIRCUIT | | |
| LAB ? TRANSFER_IND | 8 | BLO_AB | | |
| LAB ! TRANSFER_REQ | 9 | BLA_BA | | |
| +Check_CONNECTIVITY | 10 | | | |
| UTA ! USER_REQ | 11 | REL_REQ | | |
| LAB ? TRANSFER_IND | 12 | REL_AB | | |
| LAB ! TRANSFER_REQ | 13 | RLC_BA | | |
| +Check_LOCAL_BLOCKING_CIRCUIT | 14 | | | |
| UTA ! MML_REQ | 15 | UNBLOCK_CIRCUIT | | |
| LAB ? TRANSFER_IND | 16 | UBL_AB | | |
| LAB ! TRANSFER_REQ | 17 | UBA_BA | | |
| +Check_UNBLOCKED_CIRCUIT | 18 | | | |
| LAB ! TRANSFER_REQ [SP_A = TER] | 19 | IAM_BA | | |
| +Receive_ACM_and_SETUP_IND | 20 | | | |
| +Check_RINGING_TONE | 21 | | | |
| UTA ! USER_REQ | 22 | SETUP_RESP_any | | |
| LAB ? TRANSFER_IND | 23 | ANM_AB | | |
| +Check_CONNECTIVITY | 24 | | | |
| LAB ! TRANSFER_REQ | 25 | BLO_BA | | |
| LAB ? TRANSFER_IND | 26 | BLA_AB | | |
| +Check_CONNECTIVITY | 27 | | | |
| LAB ! TRANSFER_REQ | 28 | REL_BA | | |
| +Receive_RLC_and_REL_IND | 29 | | | |
| +Check_REMOTE_BLOCKING_CIRCUIT | 30 | | | |
| LAB ! TRANSFER_REQ | 31 | UBL_BA | | |
| LAB ? TRANSFER_IND | 32 | UBA_AB | | |
| +Check_UNBLOCKED_CIRCUIT | 33 | | | |
| Detailed Comments: NOTE – A CPC = “test call” should not be used for this check. | | | | |

| Test Case Dynamic Behaviour | | | | | |
|---|---|--|---|--------|--|
| Test Case Name: ISUPB20307 Group: ISUPB/NCS/Succ_set-up/ Purpose: To verify that the circuit blocking and unblocking procedure can be correctly received during a call. Default: AnyOtherEventUnexpected Comments: SUBTITLE: Blocking and unblocking during a call (received) REFERENCE: 2.9.2.1/Q.764 PRE-TEST CONDITIONS: Called termination is free. CONFIGURATION: 1 TYPE OF TEST: VAT and CPT TYPE OF SP: SP | | | | | |
| Behaviour Description | L | Cref | V | C | |
| UTA ! USER_REQ [SP_A = ORI] LAB ? TRANSFER_IND LAB ! TRANSFER_REQ +Check_RINGING_TONE LAB ! TRANSFER_REQ +Check_CONNECTIVITY LAB ? TRANSFER_IND LAB ! TRANSFER_REQ +Check_CONNECTIVITY UTA ! USER_REQ LAB ? TRANSFER_IND LAB ! TRANSFER_REQ +Check_REMOTE_BLOCKING_CIRCUIT LAB ! TRANSFER_REQ LAB ? TRANSFER_IND +Check_UNBLOCKED_CIRCUIT LAB ! TRANSFER_REQ [SP_A = TER] +Receive_ACM_and_SETUP_IND +Check_RINGING_TONE UTA ! USER_REQ LAB ? TRANSFER_IND +Check_CONNECTIVITY UTA ! MML_REQ LAB ? TRANSFER_IND LAB ! TRANSFER_REQ +Check_CONNECTIVITY LAB ! TRANSFER_REQ +Receive_RLC_and_REL_IND +Check_LOCAL_BLOCKING_CIRCUIT UTA ! MML_REQ LAB ? TRANSFER_IND LAB ! TRANSFER_REQ +Check_UNBLOCKED_CIRCUIT | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 | SETUP_REQ_any IAM_AB ACM_BA ANM_BA BLO_BA BLA_AB REL_REQ REL_AB RLC_BA UBL_BA UBA_AB IAM_BA SETUP_RESP_any ANM_AB BLOCK_CIRCUIT BLO_AB BLA_BA REL_BA UNBLOCK_CIRCUIT UBL_AB UBA_BA | P | (Note) | |
| | | | P | (Note) | |
| Detailed Comments: | | | | | |
| NOTE – A CPC = “test call” should not be used for this check. | | | | | |

| Test Case Dynamic Behaviour | | | | |
|--|----|---------------|---|---|
| Test Case Name: ISUPB30101 Group: ISUPB/NCR/ Purpose: To verify that the calling party can successfully release a call prior to receipt of any backward message. Default: AnyOtherEventUnexpected Comments: SUBTITLE: Calling party clears before any backward message REFERENCE: 2.3/Q.764 PRE-TEST CONDITIONS: The circuit is idle. CONFIGURATION: 1 TYPE OF TEST: VAT and CPT TYPE OF SP: SP | | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! USER_REQ [SP_A = ORI] | 1 | SETUP_REQ_any | P | |
| LAB ? TRANSFER_IND | 2 | IAM_AB | | |
| UTA ! USER_REQ | 3 | REL_REQ | | |
| LAB ? TRANSFER_IND | 4 | REL_AB | | |
| LAB ! TRANSFER_REQ | 5 | RLC_BA | | |
| + Check_CIRCUIT_IDLE | 6 | | | |
| LAB ! TRANSFER_REQ [SP_A = TER] | 7 | IAM_BA | P | |
| UTA ? USER_IND | 8 | SETUP_IND_any | | |
| LAB ! TRANSFER_REQ | 9 | REL_BA | | |
| + Receive_RLC_and_REL_IND | 10 | | | |
| + Check_CIRCUIT_IDLE | 11 | | | |
| Detailed Comments: | | | | |

| Test Case Dynamic Behaviour | | | | |
|---------------------------------|---|---------------|---|---|
| Test Case Name: | ISUPB30201 | | | |
| Group: | ISUPB/NCR/ | | | |
| Purpose: | To verify that the calling party can successfully release a call prior to receipt of answer. | | | |
| Default: | AnyOtherEventUnexpected | | | |
| Comments: | SUBTITLE: Calling party clears before answer REFERENCE: 2.3/Q.764 PRE-TEST CONDITIONS: Called termination is free. CONFIGURATION: 1 TYPE OF TEST: VAT and CPT TYPE OF SP: SP | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! USER_REQ [SP_A = ORI] | 1 | SETUP_REQ_any | P | |
| LAB ? TRANSFER_IND | 2 | IAM_AB | | |
| LAB ! TRANSFER_REQ | 3 | ACM_BA | | |
| + Check_RINGING_TONE | 4 | | | |
| UTA ! USER_REQ | 5 | REL_REQ | | |
| LAB ? TRANSFER_IND | 6 | REL_AB | | |
| LAB ! TRANSFER_REQ | 7 | RLC_BA | | |
| + Check_CIRCUIT_IDLE | 8 | | | |
| LAB ! TRANSFER_REQ [SP_A = TER] | 9 | IAM_BA | | |
| + Receive_ACM_and_SETUP_IND | 10 | | | |
| + Check_RINGING_TONE | 11 | | | |
| LAB ! TRANSFER_REQ | 12 | REL_BA | | |
| + Receive_RLC_and_REL_IND | 13 | | | |
| + Check_CIRCUIT_IDLE | 14 | | | |
| Detailed Comments: | | | | |

| Test Case Dynamic Behaviour | | | | |
|--|----|----------------|---|---|
| Test Case Name: ISUPB30301 Group: ISUPB/NCR/ Purpose: To verify that the calling party can successfully release a call after answer. Default: AnyOtherEventUnexpected Comments: SUBTITLE: Calling party clears after answer REFERENCE: 2.3/Q.764 PRE-TEST CONDITIONS: Called termination is free. CONFIGURATION: 1 TYPE OF TEST: VAT and CPT TYPE OF SP: SP | | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! USER_REQ [SP_A = ORI] | 1 | SETUP_REQ_any | P | |
| LAB ? TRANSFER_IND | 2 | IAM_AB | | |
| LAB ! TRANSFER_REQ | 3 | ACM_BA | | |
| + Check_RINGING_TONE | 4 | | | |
| LAB ! TRANSFER_REQ | 5 | ANM_BA | | |
| + Check_CONNECTIVITY | 6 | | | |
| UTA ! USER_REQ | 7 | REL_REQ | | |
| LAB ? TRANSFER_IND | 8 | REL_AB | | |
| LAB ! TRANSFER_REQ | 9 | RLC_BA | | |
| + Check_CIRCUIT_IDLE | 10 | | | |
| LAB ! TRANSFER_REQ [SP_A = TER] | 11 | IAM_BA | | |
| + Receive_ACM_and_SETUP_IND | 12 | | | |
| + Check_RINGING_TONE | 13 | | | |
| UTA ! USER_REQ | 14 | SETUP_RESP_any | | |
| LAB ? TRANSFER_IND | 15 | ANM_AB | | |
| + Check_CONNECTIVITY | 16 | | | |
| LAB ! TRANSFER_REQ | 17 | REL_BA | | |
| + Receive_RLC_and_REL_IND | 18 | | | |
| + Check_CIRCUIT_IDLE | 19 | | | |
| Detailed Comments: | | | | |

| Test Case Dynamic Behaviour | | | | |
|--|----|----------------|---|---|
| <p>Test Case Name: ISUPB30401</p> <p>Group: ISUPB/NCR/</p> <p>Purpose: To verify that a call can be successfully released in the backward direction.</p> <p>Default: AnyOtherEventUnexpected</p> <p>Comments: SUBTITLE: Called party clears after answer REFERENCE: 2.3/Q.764 PRE-TEST CONDITIONS: Called termination is free. CONFIGURATION: 1 TYPE OF TEST: VAT and CPT TYPE OF SP: SP</p> | | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! USER_REQ [SP_A = ORI] | 1 | SETUP_REQ_any | P | |
| LAB ? TRANSFER_IND | 2 | IAM_AB | | |
| LAB ! TRANSFER_REQ | 3 | ACM_BA | | |
| + Check_RINGING_TONE | 4 | | | |
| LAB ! TRANSFER_REQ | 5 | ANM_BA | | |
| + Check_CONNECTIVITY | 6 | | | |
| LAB ! TRANSFER_REQ | 7 | REL_BA | | |
| + Receive_RLC_and_REL_IND | 8 | | | |
| + Check_CIRCUIT_IDLE | 9 | | | |
| LAB ! TRANSFER_REQ [SP_A = TER] | 10 | IAM_BA | | |
| + Receive_ACM_and_SETUP_IND | 11 | | P | |
| + Check_RINGING_TONE | 12 | | | |
| UTA ! USER_REQ | 13 | SETUP_RESP_any | | |
| LAB ? TRANSFER_IND | 14 | ANM_AB | | |
| + Check_CONNECTIVITY | 15 | | | |
| UTA ! USER_REQ | 16 | REL_REQ | | |
| LAB ? TRANSFER_IND | 17 | REL_AB | | |
| LAB ! TRANSFER_REQ | 18 | RLC_BA | | |
| + Check_CIRCUIT_IDLE | 19 | | | |
| Detailed Comments: | | | | |

| Test Case Dynamic Behaviour | | | | |
|---|----|----------------|---|--------|
| Test Case Name: ISUPB30501 Group: ISUPB/NCR/ Purpose: To verify that the called subscriber can successfully clear and reanswer a call. Default: AnyOtherEventUnexpected Comments: SUBTITLE: Suspend initiated by the network REFERENCE: 2.5.1.3/Q.764 PRE-TEST CONDITIONS: Called termination is free. CONFIGURATION: 1 TYPE OF TEST: VAT and CPT TYPE of SP: SP | | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! USER_REQ [SP_A = ORI] | 1 | SETUP_REQ_any | P | (Note) |
| LAB ? TRANSFER_IND | 2 | IAM_AB | | |
| LAB ! TRANSFER_REQ | 3 | ACM_BA | | |
| + Check_RINGING_TONE | 4 | | | |
| LAB ! TRANSFER_REQ | 5 | ANM_BA | | |
| + Check_CONNECTIVITY | 6 | | | |
| LAB ! TRANSFER_REQ | 7 | SUS_netw_BA | | |
| UTA ? USER_IND | 8 | SUSPEND_IND | | |
| LAB ! TRANSFER_REQ | 9 | RES_netw_BA | | |
| UTA ? USER_IND | 10 | RESUME_IND | | |
| + Check_CONNECTIVITY | 11 | | | |
| UTA ! USER_REQ | 12 | REL_REQ | | |
| LAB ? TRANSFER_IND | 13 | REL_AB | | |
| LAB ! TRANSFER_REQ | 14 | RLC_BA | | |
| + Check_CIRCUIT_IDLE | 15 | | | |
| LAB ! TRANSFER_REQ [SP_A = TER] | 16 | IAM_BA | | |
| + Receive_ACM_and_SETUP_IND | 17 | | | |
| + Check_RINGING_TONE | 18 | | | |
| UTA ! USER_REQ | 19 | SETUP_RESP_any | | |
| LAB ? TRANSFER_IND | 20 | ANM_AB | | |
| + Check_CONNECTIVITY | 21 | | | |
| UTA ! USER_REQ | 22 | SUSPEND_REQ | | |
| LAB ? TRANSFER_IND | 23 | SUS_netw_AB | | |
| UTA ! USER_REQ | 24 | RESUME_REQ | | |
| LAB ? TRANSFER_IND | 25 | RES_netw_AB | | |
| + Check_CONNECTIVITY | 26 | | | |
| LAB ! TRANSFER_REQ | 27 | REL_BA | | |
| + Receive_RLC_and_REL_IND | 28 | | | |
| + Check_CIRCUIT_IDLE | 29 | | | |
| Detailed Comments: NOTE – In order to generate these messages, an ISDN-PSTN interworking arrangement may be needed. | | | | |

| Test Case Dynamic Behaviour | | | | |
|--|--|----------------|---|--------|
| Test Case Name: | ISUPB30601 | | | |
| Group: | ISUPB/NCR/ | | | |
| Purpose: | To verify that the calling subscriber can successfully suspend and resume a call. | | | |
| Default: | AnyOtherEventUnexpected | | | |
| Comments: | SUBTITLE: Suspend and resume initiated by a calling party REFERENCE: 2.5.1.1/Q.746 , 2.5.2.1/Q.764 PRE-TEST CONDITIONS: Called termination is free. CONFIGURATION: 1 TYPE OF TEST: VAT TYPE OF SP: SP | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! USER_REQ [SP_A = ORI] | 1 | SETUP_REQ_any | P | (Note) |
| LAB ? TRANSFER_IND | 2 | IAM_AB | | |
| LAB ! TRANSFER_REQ | 3 | ACM_BA | | |
| + Check_RINGING_TONE | 4 | | | |
| LAB ! TRANSFER_REQ | 5 | ANM_BA | | |
| + Check_CONNECTIVITY | 6 | | | |
| UTA ! USER_REQ | 7 | SUSPEND_REQ | | |
| LAB ? TRANSFER_IND | 8 | SUS_user_AB | | |
| UTA ! USER_REQ | 9 | RESUME_REQ | | |
| LAB ? TRANSFER_IND | 10 | RES_user_AB | | |
| + Check_CONNECTIVITY | 11 | | | |
| UTA ! USER_REQ | 12 | REL_REQ | | |
| LAB ? TRANSFER_IND | 13 | REL_AB | | |
| LAB ! TRANSFER_REQ | 14 | RLC_BA | | |
| + Check_CIRCUIT_IDLE | 15 | | | |
| LAB ! TRANSFER_REQ [SP_A = TER] | 16 | IAM_BA | | |
| + Receive_ACM_and_SETUP_IND | 17 | | | |
| + Check_RINGING_TONE | 18 | | | |
| UTA ! USER_REQ | 19 | SETUP_RESP_any | | |
| LAB ? TRANSFER_IND | 20 | ANM_AB | | |
| + Check_CONNECTIVITY | 21 | | | |
| LAB ! TRANSFER_REQ | 22 | SUS_user_BA | | |
| UTA ? USER_IND | 23 | SUSPEND_IND | | |
| LAB ! TRANSFER_REQ | 24 | RES_user_BA | | |
| UTA ? USER_IND | 25 | RESUME_IND | | |
| + Check_CONNECTIVITY | 26 | | | |
| LAB ! TRANSFER_REQ | 27 | REL_BA | | |
| + Receive_RLC_and_REL_IND | 28 | | | |
| + Check_CIRCUIT_IDLE | 29 | | | |
| Detailed Comments: | | | | |
| NOTE – An end-to-end ISDN arrangement is needed for this test. | | | | |

| Test Case Dynamic Behaviour | | | | |
|--|--|----------------|---|--------|
| Test Case Name: | ISUPB30701 | | | |
| Group: | ISUPB/NCR/ | | | |
| Purpose: | To verify that the called subscriber can successfully suspend and resume a call. | | | |
| Default: | AnyOtherEventUnexpected | | | |
| Comments: | SUBTITLE: Suspend and resume initiated by a called party REFERENCE: 2.5.1.2/Q.764, 2.5.2.2/Q.764 PRE-TEST CONDITIONS: Called termination is free. CONFIGURATION: 1 TYPE OF TEST: VAT TYPE OF SP: SP | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! USER_REQ [SP_A = ORI] | 1 | SETUP_REQ_any | P | (Note) |
| LAB ? TRANSFER_IND | 2 | IAM_AB | | |
| LAB ! TRANSFER_REQ | 3 | ACM_BA | | |
| + Check_RINGING_TONE | 4 | | | |
| LAB ! TRANSFER_REQ | 5 | ANM_BA | | |
| + Check_CONNECTIVITY | 6 | | | |
| LAB ! TRANSFER_REQ | 7 | SUS_user_BA | | |
| UTA ? USER_IND | 8 | SUSPEND_IND | | |
| LAB ! TRANSFER_REQ | 9 | RES_user_BA | | (Note) |
| UTA ? USER_IND | 10 | RESUME_IND | | |
| + Check_CONNECTIVITY | 11 | | | |
| UTA ! USER_REQ | 12 | REL_REQ | | |
| LAB ? TRANSFER_IND | 13 | REL_AB | | |
| LAB ! TRANSFER_REQ | 14 | RLC_BA | | |
| + Check_CIRCUIT_IDLE | 15 | | | |
| LAB ! TRANSFER_REQ [SP_A = TER] | 16 | IAM_BA | | |
| + Receive_ACM_and_SETUP_IND | 17 | | | |
| + Check_RINGING_TONE | 18 | | | |
| UTA ! USER_REQ | 19 | SETUP_RESP_any | | |
| LAB ? TRANSFER_IND | 20 | ANM_AB | | |
| + Check_CONNECTIVITY | 21 | | | |
| UTA ! USER_REQ | 22 | SUSPEND_REQ | | |
| LAB ? TRANSFER_IND | 23 | SUS_user_AB | | (Note) |
| UTA ! USER_REQ | 24 | RESUME_REQ | | |
| LAB ? TRANSFER_IND | 25 | RES_user_AB | | (Note) |
| + Check_CONNECTIVITY | 26 | | | |
| LAB ! TRANSFER_REQ | 27 | REL_BA | | |
| + Receive_RLC_and_REL_IND | 28 | | | |
| + Check_CIRCUIT_IDLE | 29 | | P | |
| Detailed Comments: NOTE – An end-to-end ISDN arrangement is needed for this test. | | | | |

| Test Case Dynamic Behaviour | | | | |
|--|----|---------------|---|---|
| <p>Test Case Name: ISUPB30801</p> <p>Group: ISUPB/NCR/</p> <p>Purpose: To verify that a release message may be received at an exchange from a succeeding or preceeding exchange after the release of the switch path is initiated.</p> <p>Default: AnyOtherEventUnexpected</p> <p>Comments: SUBTITLE: Collision of REL messages REFERENCE: 2.3.1 e)/Q.764 PRE-TEST CONDITIONS: Called termination is free. CONFIGURATION: 1 TYPE OF TEST: VAT and CPT TYPE OF SP: SP</p> | | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! USER_REQ [SP_A = ORI] | 1 | SETUP_REQ_any | | |
| LAB ? TRANSFER_IND | 2 | IAM_AB | | |
| LAB ! TRANSFER_REQ | 3 | ACM_BA | | |
| + Check_RINGING_TONE | 4 | | | |
| LAB ! TRANSFER_REQ | 5 | ANM_BA | | |
| + Check_CONNECTIVITY | 6 | | | |
| UTA ! USER_REQ | 7 | REL_REQ | | |
| LAB ? TRANSFER_IND | 8 | REL_AB | | |
| LAB ! TRANSFER_REQ | 9 | REL_BA | | |
| + Receive_RLC_AND_REL_IND | 10 | | | |
| LAB ! TRANSFER_REQ | 11 | RLC_BA | | |
| + Check_CIRCUIT_IDLE | 12 | | P | |
| LAB ! TRANSFER_REQ | 13 | RLC_BA | | |
| + Receive_RLC_AND_REL_IND | 14 | | | |
| + Check_CIRCUIT_IDLE | 15 | | P | |
| <p>Detailed Comments:</p> | | | | |

| Test Case Dynamic Behaviour | | | | |
|---|---|------|---|---|
| <p>Test Case Name: ISUPB40101</p> <p>Group: ISUP/UCS/</p> <p>Purpose: To verify that the call will be immediately released by the outgoing signalling point if a release message with a given cause is received and the correct indication is given to the calling party.</p> <p>Default: AnyOtherEventUnexpected</p> <p>Comments: SUBTITLE: Validate a set of known causes for release REFERENCE: 2.2/Q.764 PRE-TEST CONDITIONS: Arrange the data in signalling point B such that a release message with a given cause is returned to the request. CONFIGURATION: 1 TYPE OF TEST: VAT and CPT TYPE OF SP: SP</p> | | | | |
| Behaviour Description | L | Cref | V | C |
| + SETUP_Call_REL_Unalloc_nr | 1 | | | |
| + SETUP_Call_REL_No_circuit | 2 | | | |
| + SETUP_Call_REL_Switch_congestion | 3 | | P | |
| <p>Detailed Comments:</p> <p>NOTE – It may not be possible to confirm that the appropriate tone is returned to the calling party. In this case it must be verified that the signalling point under test transmits the signal received.</p> | | | | |

| Test Case Dynamic Behaviour | | | | |
|---|----|-------------------|---|---|
| <p>Test Case Name: ISUPB50101</p> <p>Group: ISUPB/ABN/Inabl_to_rel/</p> <p>Purpose: To verify that if the signalling point is unable to return a circuit to the idle condition in response to a release message, the circuit will be blocked.</p> <p>Default: AnyOtherEventUnexpected</p> <p>Comments: SUBTITLE: Inability to release in response to a REL after ANM REFERENCE: 2.10.8.1/Q.764 PRE-TEST CONDITIONS: Arrange the data in signalling point A such that it is unable to return the circuit to the idle condition in response to a release message. CONFIGURATION: 1 TYPE OF TEST: VAT TYPE OF SP: SP</p> | | | | |
| Behaviour Description | L | Cref | V | C |
| LAB ! TRANSFER_REQ [SP_A = TER] | 1 | IAM_BA | P | |
| + Receive_ACM_and_SETUP_IND | 2 | | | |
| + Check_RINGING_TONE | 3 | | | |
| UTA ! USER_REQ | 4 | SETUP_RESP_any | | |
| LAB ? TRANSFER_IND | 5 | ANM_AB | | |
| + Check_CONNECTIVITY | 6 | | | |
| LAB ! TRANSFER_REQ | 7 | REL_BA | | |
| LAB ? TRANSFER_IND | 8 | BLO_AB | | |
| UTA ? MAINT_IND | 9 | ALARM_MaintSystem | | |
| LAB ! TRANSFER_REQ | 10 | BLA_BA | | |
| + Receive_RLC_and_REL_IND | 11 | | | |
| UTA ! USER_REQ [SP_A = ORI] | 12 | SETUP_REQ_any | | |
| LAB ? TRANSFER_IND | 13 | IAM_AB | | |
| LAB ! TRANSFER_REQ | 14 | ACM_BA | | |
| + Check_RINGING_TONE | 15 | | | |
| LAB ! TRANSFER_REQ | 16 | ANM_BA | | |
| + Check_CONNECTIVITY | 17 | | | |
| UTA ! USER_REQ | 18 | REL_REQ | | |
| LAB ? TRANSFER_IND | 19 | REL_AB | | |
| LAB ! TRANSFER_REQ | 20 | BLO_BA | | |
| UTA ? MAINT_IND | 21 | ALARM_MaintSystem | | |
| LAB ? TRANSFER_IND | 22 | BLA_AB | | |
| LAB ! TRANSFER_REQ | 23 | RLC_BA | P | |
| Detailed Comments: | | | | |

| Test Case Dynamic Behaviour | | | | |
|---|----|---------------|---|---|
| <p>Test Case Name: ISUPB50201</p> <p>Group: ISUPB/ABN/Timers/</p> <p>Purpose: To check that at the expiration of T7 the circuit will be released.</p> <p>Default: AnyOtherEventUnexpected</p> <p>Comments: SUBTITLE: T7 waiting for ACM or CON REFERENCE: 2.10.8.3/Q.764 PRE-TEST CONDITIONS: Arrange the data in signalling point B such that an address complete message is not returned to the call request. CONFIGURATION: 1 TYPE OF TEST: VAT TYPE OF SP: SP</p> | | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! USER_REQ | 1 | SETUP_REQ_any | | |
| LAB ? TRANSFER_IND | | IAM_AB | | |
| # START T7min, START T7max | 2 | | | |
| ?TIMEOUT T7min | 3 | | | |
| LAB ? TRANSFER_IND CANCEL T7max | 4 | REL_AB | | |
| UTA ? USER_IND | 5 | REL_IND | | |
| LAB ! TRANSFER_REQ | 6 | RLC_BA | | |
| + Check_CIRCUIT_IDLE | 7 | | P | |
| UTA ? USER_IND CANCEL T7max | 8 | REL_IND | | |
| LAB ? TRANSFER_IND | 9 | REL_AB | | |
| LAB ! TRANSFER_REQ | 10 | RLC_BA | | |
| + Check_CIRCUIT_IDLE | 11 | | P | |
| ?TIMEOUT T7max | 12 | | | |
| LAB ! TRANSFER_REQ | 13 | REL_BA | | |
| + Receive_RLC_and_REL_IND | 14 | | F | |
| LAB ? TRANSFER_IND | | REL_AB | | |
| # CANCEL T7min, CANCEL T7max | 15 | | | |
| UTA ? USER_IND | 16 | REL_IND | | |
| LAB ! TRANSFER_REQ | 17 | RLC_BA | F | |
| UTA ? USER_IND | | REL_IND | | |
| # CANCEL T7min, CANCEL T7max | 18 | | | |
| LAB ? TRANSFER_IND | 19 | REL_AB | | |
| LAB ! TRANSFER_REQ | 20 | RLC_BA | F | |
| Detailed Comments: | | | | |

| Test Case Dynamic Behaviour | | | | |
|--|---|---------------|---|--------|
| Test Case Name: | ISUPB50202 | | | |
| Group: | ISUPB/ABN/Timers/ | | | |
| Purpose: | To verify that if an answer message is not received within T9 after receiving an address complete message the connection is released by the outgoing signalling point. | | | |
| Default: | AnyOtherEventUnexpected | | | |
| Comments: | SUBTITLE: T9 waiting for an answer message REFERENCE: 2.10.8.3 a) /Q.764 PRE-TEST CONDITIONS: The called party should not answer the call. CONFIGURATION: 1 TYPE OF TEST: VAT and CPT TYPE OF SP: SP | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! USER_REQ | 1 | SETUP_REQ_any | | (Note) |
| LAB ? TRANSFER_IND | 2 | IAM_AB | | |
| LAB ! TRANSFER_REQ | | ACM_BA | | |
| # START T9min, START T9max | 3 | | | |
| ?TIMEOUT T9min | 4 | | | |
| LAB ? TRANSFER_IND CANCEL T9max | 5 | REL_AB | | |
| UTA ? USER_IND | 6 | REL_IND | | |
| LAB ! TRANSFER_REQ | 7 | RLC_BA | | |
| + Check_CIRCUIT_IDLE | 8 | | P | |
| UTA ? USER_IND CANCEL T9max | 9 | REL_IND | | |
| LAB ? TRANSFER_IND | 10 | REL_AB | | |
| LAB ! TRANSFER_REQ | 11 | RLC_BA | | |
| + Check_CIRCUIT_IDLE | 12 | | P | |
| ?TIMEOUT T9max | 13 | | | |
| LAB ! TRANSFER_REQ | 14 | REL_BA | | |
| + Receive_RLC_and_REL_IND | 15 | | F | |
| LAB ? TRANSFER_IND | | REL_AB | | F |
| # CANCEL T9min, CANCEL T9max | 16 | | | |
| UTA ? USER_IND | 17 | REL_IND | | |
| LAB ! TRANSFER_REQ | 18 | RLC_BA | | |
| UTA ? USER_IND | | REL_IND | | |
| # CANCEL T9min, CANCEL T9max | 19 | | | |
| LAB ? TRANSFER_IND | 20 | REL_AB | | F |
| LAB ! TRANSFER_REQ | 21 | RLC_BA | | |
| Detailed Comments: | | | | |
| NOTE – The timer need only be run at the outgoing international exchange or national controlling exchange. | | | | |

| Test Case Dynamic Behaviour | | | | |
|---|----|-------------------|---|--------|
| <p>Test Case Name: ISUPB50203</p> <p>Group: ISUPB/ABN/Timers/</p> <p>Purpose: To verify that appropriate actions take place at the expiration of timers T1 and T5.</p> <p>Default: AnyOtherEventUnexpected</p> <p>Comments: SUBTITLE: T1 and T5 failure to receive an RLC REFERENCE: 2.2/Q.764, 2.10.6/Q.764 PRE-TEST CONDITIONS: Arrange the data in signalling point B such that a release complete message is not returned in response to a release message. CONFIGURATION: 1 TYPE OF TEST: VAT TYPE OF SP: SP</p> | | | | |
| Behaviour Description | L | Cref | V | C |
| LAB ! TRANSFER_REQ | 1 | IAM_BA | | |
| + Receive_ACM_and_SETUP_IND | 2 | | | |
| + Check_RINGING_TONE | 3 | | | |
| UTA ! USER_REQ | 4 | SETUP_RESP_any | | |
| LAB ? TRANSFER_IND | 5 | ANM_AB | | |
| + Check_CONNECTIVITY | 6 | | | |
| UTA ! USER_REQ | 7 | REL_REQ | | |
| LAB ? TRANSFER_IND | 8 | REL_AB | | |
| START T1min, START T1max, | | | | |
| # START T5min, START T5max | 9 | | | |
| (RSC_Received : = FALSE) | 10 | | | |
| (Ready_To_Receive_RSC : = FALSE) | 11 | | | |
| (Ready_To_Receive_REL : = FALSE) | 12 | | | |
| REPEAT Receive_REL_messages | | | | (Note) |
| # UNTIL [RSC_Received] | 13 | | | |
| UTA ? MAINT_IND | 14 | ALARM_MaintSystem | | |
| LAB ! TRANSFER_REQ | 15 | RLC_BA | P | |
| <p>Detailed Comments:</p> <p>NOTE – T1 is repeated and REL is retransmitted during T5 interval.</p> | | | | |

| Test Case Dynamic Behaviour | | | | |
|---|----|---------------|---|--------|
| Test Case Name: ISUPB50204 Group: ISUPB/ABN/Timers/ Purpose: To verify that the call is released at the expiration of timer T6. Default: AnyOtherEventUnexpected Comments: SUBTITLE: T6 waiting for RES Network message REFERENCE: 2.5.1.3/Q.764, 2.5.2.3/Q.764, 2.5.3/Q.764 PRE-TEST CONDITIONS: Arrange the data in signalling point B such that it is unable to return a resume message (called party will not reanswer). CONFIGURATION: 1 TYPE OF TEST: VAT TYPE OF SP: SP | | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! USER_REQ | 1 | SETUP_REQ_any | | (Note) |
| LAB ? TRANSFER_IND | 2 | IAM_AB | | |
| LAB ! TRANSFER_REQ | 3 | ACM_BA | | |
| + Check_RINGING_TONE | 4 | | | |
| LAB ! TRANSFER_REQ | 5 | ANM_BA | | |
| + Check_CONNECTIVITY | 6 | | | |
| LAB ! TRANSFER_REQ | | SUS_netw_BA | | |
| # START T6min, START T6max | 7 | | | |
| UTA ? USER_IND | 8 | SUSPEND_IND | | |
| ?TIMEOUT T6min | 9 | | | |
| LAB ? TRANSFER_IND CANCEL T6max | 10 | REL_AB | | |
| UTA ? USER_IND | 11 | REL_IND | | |
| LAB ! TRANSFER_REQ | 12 | RLC_BA | | |
| + Check_CIRCUIT_IDLE | 13 | | P | |
| UTA ? USER_IND CANCEL T6max | 14 | REL_IND | | |
| LAB ? TRANSFER_IND | 15 | REL_AB | | |
| LAB ! TRANSFER_REQ | 16 | RLC_BA | | |
| + Check_CIRCUIT_IDLE | 17 | | P | |
| ?TIMEOUT T6max | 18 | | | |
| LAB ! TRANSFER_REQ | 19 | REL_BA | | |
| + Receive_RLC_and_REL_IND | 20 | | F | |
| LAB ? TRANSFER_IND | | REL_AB | | |
| # CANCEL T6min, CANCEL T6max | 21 | | | |
| UTA ? USER_IND | 22 | REL_IND | | |
| LAB ! TRANSFER_REQ | 23 | RLC_BA | F | |
| UTA ? USER_IND | | REL_IND | | |
| # CANCEL T6min, CANCEL T6max | 24 | | | |
| LAB ? TRANSFER_IND | 25 | REL_AB | | |
| LAB ! TRANSFER_REQ | 26 | RLC_BA | F | |
| Detailed Comments: | | | | |
| NOTE – T6 timer needs only to be run at the international or national controlling exchange. | | | | |

| Test Case Dynamic Behaviour | | | | |
|---------------------------------|---|---------------------|---|---|
| Test Case Name: | ISUPB50205 | | | |
| Group: | ISUPB/ABN/Timers/ | | | |
| Purpose: | To verify that when the IAM indicates that the continuity check is required or is performed on the previous circuit and the COT message is not received within T8, the connection is released by the incoming signalling point. | | | |
| Default: | AnyOtherEventUnexpected | | | |
| Comments: | SUBTITLE: T8 waiting for COT message if applicable REFERENCE: 2.10.8.3/Q.764 PRE-TEST CONDITIONS: Arrange the data in signalling point B such that: a) The signalling information in the IAM indicates that a continuity check has been performed on a previous circuit or continuity check is required on this circuit. b) It does not send a continuity message. CONFIGURATION: 1 TYPE OF TEST: VAT TYPE OF SP: SP | | | |
| Behaviour Description | L | Cref | V | C |
| LAB ! TRANSFER_REQ | | IAM_contcheckreq_BA | | |
| # START T8min, START T8max | 1 | | | |
| ?TIMEOUT T8min | 2 | | | |
| LAB ? TRANSFER_IND CANCEL T8max | 3 | REL_AB | | |
| LAB ! TRANSFER_REQ | 4 | RLC_BA | | |
| + Check_CIRCUIT_IDLE | 5 | | P | |
| ?TIMEOUT T8max | 6 | | | |
| LAB ! TRANSFER_REQ | 7 | REL_BA | | |
| LAB ? TRANSFER_IND | 8 | RLC_AB | F | |
| LAB ? TRANSFER_IND | | REL_AB | | |
| # CANCEL T8min, CANCEL T8max | 9 | | | |
| LAB ! TRANSFER_REQ | 10 | RLC_BA | F | |
| Detailed Comments: | | | | |

| Test Case Dynamic Behaviour | | | | |
|--|---|---|----------------------------|--------|
| <p>Test Case Name: ISUPB50206</p> <p>Group: ISUP/ABN/Timers/</p> <p>Purpose: To verify that appropriate actions take place at the expiration of timers T12 and T13.</p> <p>Default: AnyOtherEventUnexpected</p> <p>Comments: SUBTITLE: T12 and T13 failure to receive a BLA REFERENCE: 2.10.4/Q.764 PRE-TEST CONDITIONS: a) Circuit is idle. b) Arrange the data in signalling point B such that a blocking acknowledge message is not returned in response to a blocking message. CONFIGURATION: 1 TYPE OF TEST: VAT TYPE OF SP: SP</p> | | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! MML_REQ LAB ? TRANSFER_IND START T12min, #START T12max, START T13min, START T13max ?TIMEOUT T12min LAB ? TRANSFER_IND CANCEL T12max ?TIMEOUT T13min + Receive_BLO_and_MaintSystem_and_T13 ?TIMEOUT T13min LAB ? TRANSFER_IND CANCEL T13max ?TIMEOUT T13max LAB ? TRANSFER_IND # CANCEL T13min, CANCEL T13max ?TIMEOUT T13max LAB ? TRANSFER_IND # CANCEL T13min, CANCEL T13max ?TIMEOUT T12max # CANCEL T13min, CANCEL T13max LAB ? TRANSFER_IND CANCEL T12min, # CANCEL T12max, CANCEL T13min, # CANCEL T13max | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 | BLOCK_CIRCUIT BLO_AB BLO_AB BLO_AB BLO_AB BLO_AB BLO_AB | P F F F F F | (Note) |
| <p>Detailed Comments:</p> <p>NOTE – T12 is repeated and BLO is retransmitted during the first T13 interval.</p> | | | | |

| Test Case Dynamic Behaviour | | | | |
|--|---|---------------------------|--|---|
| Test Case Name: ISUPB50207 Group: ISUPB/ABN/Timers/ Purpose: To verify that appropriate actions take place at the expiration of timers T14 and T15. Default: AnyOtherEventUnexpected. Comments: SUBTITLE: T14 and T15 failure to receive a UBA REFERENCE: 2.10.4/Q.764 PRE-TEST CONDITIONS: a) Circuit is idle. b) Arrange the data in signalling point B such that an unblocking acknowledge message is not returned in response to an unblocking message. CONFIGURATION: 1 TYPE OF TEST: VAT TYPE OF SP: SP | | | | |
| Behaviour Description | L | Cref | V | C |
| + BlockLocal_CIRCUIT | 1 | UNBLOCK_CIRCUIT UBL_AB | P F F | |

| Test Case Dynamic Behaviour | | | | |
|---|----|---------------|---|--------|
| <div>Test Case Name: ISUPB50208</div> <div>Group: ISUPB/ABN/Timers/</div> <div>Purpose: To verify that appropriate actions take place at the expiration of timers T16 and T17.</div> <div>Default: AnyOtherEventUnexpected</div> <div>Comments: SUBTITLE: T16 and T17 failure to receive a RLC</div> <div>REFERENCE: 2.10.3.1/Q.764</div> <div>PRE-TEST CONDITIONS:</div> <div>a) Circuit is idle.</div> <div>b) Arrange the data in signalling point B such that a release complete message is not returned in response to a reset circuit message.</div> <div>CONFIGURATION: 1</div> <div>TYPE OF TEST: VAT</div> <div>TYPE OF SP: SP</div> | | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! MML_REQ | 1 | RESET_CIRCUIT | | (Note) |
| LAB ? TRANSFER_IND START T16min, | | RSC_AB | | |
| #START T16max, START T17min, START T17max | 2 | | | |
| ?TIMEOUT T16min | 3 | | | |
| LAB ? TRANSFER_IND CANCEL T16max | 4 | RSC_AB | | |
| ?TIMEOUT T17min | 5 | | | |
| + Receive_RSC_and_MaintSystem_and_T17 | 6 | | | |
| ?TIMEOUT T17min | 7 | | | |
| LAB ? TRANSFER_IND CANCEL T17max | 8 | RSC_AB | P | |
| ?TIMEOUT T17max | 9 | | F | |
| LAB ? TRANSFER_IND | | RSC_AB | | |
| # CANCEL T17min, CANCEL T17max | 10 | | F | |
| ?TIMEOUT T17max | 11 | | F | |
| LAB ? TRANSFER_IND | | RSC_AB | | |
| # CANCEL T17min, CANCEL T17max | 12 | | F | |
| ?TIMEOUT T16max | | | | |
| # CANCEL T17min, CANCEL T17max | 13 | | F | |
| LAB ? TRANSFER_IND CANCEL T16min, | | RSC_AB | | |
| # CANCEL T16max, CANCEL T17min, | | | | |
| # CANCEL T17max | 14 | | F | |
| <div>Detailed Comments:</div> <div>NOTE – T16 is repeated and RSC is retransmitted during the first T17 interval.</div> | | | | |

| Test Case Dynamic Behaviour | | | | |
|--|----|------------------|---|--------|
| <div>Test Case Name: ISUPB50209</div> <div>Group: ISUPB/ABN/Timers/</div> <div>Purpose: To verify that appropriate actions take place at the expiration of timers T18 and T19.</div> <div>Default: AnyOtherEventUnexpected</div> <div>Comments: SUBTITLE: T18 and T19 failure to receive a CGBA REFERENCE: 2.10.4/Q.764 PRE-TEST CONDITIONS: a) Circuit is idle. b) Arrange the data in signalling point B such that a circuit group blocking acknowledge message is not returned in response to a circuit group blocking message. CONFIGURATION: 1 TYPE OF TEST: VAT TYPE OF SP: SP</div> | | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! MML_REQ | 1 | GROUPBLOCK_MAINT | | (Note) |
| LAB ? TRANSFER_IND START T18min, | | CGB_maint_AB | | |
| #START T18max, START T19min, START T19max | 2 | | | |
| ?TIMEOUT T18min | 3 | | | |
| LAB ? TRANSFER_IND CANCEL T18max | 4 | CGB_maint_AB | | |
| ?TIMEOUT T19min | 5 | | | |
| + Receive_CGB_and_MaintSystem_and_T19 | 6 | | | |
| ?TIMEOUT T19min | 7 | | | |
| LAB ? TRANSFER_IND CANCEL T19max | 8 | CGB_maint_AB | P | |
| ?TIMEOUT T19max | 9 | | F | |
| LAB ? TRANSFER_IND | | CGB_maint_AB | | |
| # CANCEL T19min, CANCEL T19max | 10 | | F | |
| ?TIMEOUT T19max | 11 | | F | |
| LAB ? TRANSFER_IND | | CGB_maint_AB | | |
| # CANCEL T19min, CANCEL T19max | 12 | | F | |
| ?TIMEOUT T18max | | | | |
| # CANCEL T19min, CANCEL T19max | 13 | | F | |
| LAB ? TRANSFER_IND CANCEL T18min, | | CGB_maint_AB | | |
| # CANCEL T18max, CANCEL T19min, | | | | |
| # CANCEL T19max | 14 | | F | |
| <div>Detailed Comments:</div> <div>NOTE – T18 is repeated and CGB is retransmitted during the first T19 interval.</div> | | | | |

| Test Case Dynamic Behaviour | | | | |
|--|----|--------------------|---|--------|
| Test Case Name: ISUPB50210 Group: ISUPB/ABN/Timers/ Purpose: To verify that appropriate actions take place at the expiration of timers T20 and T21. Default: AnyOtherEventUnexpected Comments: SUBTITLE: T20 and T21 failure to receive a CGUA REFERENCE: 2.10.4/Q.764 PRE-TEST CONDITIONS: a) Circuit is idle. b) Arrange the data in signalling point B such that a circuit group unblocking acknowledge message is not returned in response to a circuit group unblocking message. CONFIGURATION: 1 TYPE OF TEST: VAT TYPE OF SP: SP | | | | |
| Behaviour Description | L | Cref | V | C |
| + BlockLocal_CIRCUIT_GROUP | 1 | GROUPUNBLOCK_MAINT | | (Note) |
| UTA ! MML_REQ | 2 | CGU_maint_AB | | |
| LAB ? TRANSFER_IND START T20min, #START T20max, START T21min, START T21max | 3 | | | |
| ?TIMEOUT T20min | 4 | CGU_maint_AB | | |
| LAB ? TRANSFER_IND CANCEL T20max | 5 | | | |
| ?TIMEOUT T21min | 6 | | | |
| + Receive_CGU_and_MaintSystem_and_T21 | 7 | | | |
| ?TIMEOUT T21min | 8 | CGU_maint_AB | | |
| LAB ? TRANSFER_IND CANCEL T21max | 9 | | P | |
| ?TIMEOUT T21max | 10 | CGU_maint_AB | F | |
| LAB ? TRANSFER_IND | | | | |
| # CANCEL T21min, CANCEL T21max | 11 | | F | |
| ?TIMEOUT T21max | 12 | CGU_maint_AB | F | |
| LAB ? TRANSFER_IND | | | | |
| # CANCEL T21min, CANCEL T21max | 13 | | F | |
| ?TIMEOUT T20max | | | | |
| # CANCEL T21min, CANCEL T21max | 14 | CGU_maint_AB | F | |
| LAB ? TRANSFER_IND CANCEL T20min, # CANCEL T20max, CANCEL T21min, # CANCEL T21max | 15 | | F | |
| Detailed Comments: NOTE – T20 is repeated and CGU is retransmitted during the first T21 interval. | | | | |

| Test Case Dynamic Behaviour | | | | |
|---|----|------------|---|--------|
| <div>Test Case Name: ISUPB50211</div> <div>Group: ISUPB/ABN/Timers/</div> <div>Purpose: To verify that appropriate actions take place at the expiration of timers T22 and T23.</div> <div>Default: AnyOtherEventUnexpected</div> <div>Comments: SUBTITLE: T22 and T23 failure to receive a GRA</div> <div>REFERENCE: 2.10.4/Q.764</div> <div>PRE-TEST CONDITIONS:</div> <div>a) Circuit is idle.</div> <div>b) Arrange the data in signalling point B such that a circuit group reset acknowledged message is not returned in response to a circuit group reset message.</div> <div>CONFIGURATION: 1</div> <div>TYPE OF TEST: VAT</div> <div>TYPE OF SP: SP</div> | | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! MML_REQ | 1 | GROUPRESET | | (Note) |
| LAB ? TRANSFER_IND START T22min, | | GRS_AB | | |
| #START T22max, START T23min, START T23max | 2 | | | |
| ?TIMEOUT T22min | 3 | | | |
| LAB ? TRANSFER_IND CANCEL T22max | 4 | GRS_AB | | |
| ?TIMEOUT T23min | 5 | | | |
| + Receive_GRS_and_MaintSystem_and_T23 | 6 | | | |
| ?TIMEOUT T23min | 7 | | | |
| LAB ? TRANSFER_IND CANCEL T23max | 8 | GRS_AB | P | |
| ?TIMEOUT T23max | 9 | | F | |
| LAB ? TRANSFER_IND | | GRS_AB | | |
| # CANCEL T23min, CANCEL T23max | 10 | | F | |
| ?TIMEOUT T23max | 11 | | F | |
| LAB ? TRANSFER_IND | | GRS_AB | | |
| # CANCEL T23min, CANCEL T23max | 12 | | F | |
| ?TIMEOUT T22max CANCEL T23min, | | | | |
| # CANCEL T23max | 13 | | F | |
| LAB ? TRANSFER_IND CANCEL T22min, | | GRS_AB | | |
| # CANCEL T22max, CANCEL T23min, | | | | |
| # CANCEL T23max | 14 | | F | |
| <div>Detailed Comments:</div> <div>NOTE – T22 is repeated and GRS is retransmitted during the first T23 interval.</div> | | | | |

| Test Case Dynamic Behaviour | | | | |
|--|---|---------------|---|---|
| Test Case Name: ISUPB50301 Group: ISUPB/ABN/Reset/ Purpose: To verify that on receipt of a reset message the call is immediately released outgoing call. Default: AnyOtherEventUnexpected. Comments: SUBTITLE: Of an outgoing circuit REFERENCE: 2.10.3.1 a)/Q.764 PRE-TEST CONDITIONS: Called termination is free. CONFIGURATION: 1 TYPE OF TEST: VAT and CPT TYPE OF SP: SP | | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! USER_REQ | 1 | SETUP_REQ_any | P | |
| LAB ? TRANSFER_IND | 2 | IAM_AB | | |
| LAB ! TRANSFER_REQ | 3 | ACM_BA | | |
| + Check_RINGING_TONE | 4 | | | |
| LAB ! TRANSFER_REQ | 5 | ANM_BA | | |
| + Check_CONNECTIVITY | 6 | | | |
| LAB ! TRANSFER_REQ | 7 | RSC_BA | | |
| + Receive_RLC_and_REL_IND | 8 | | | |
| + Check_CIRCUIT_IDLE | 9 | | | |
| Detailed Comments: | | | | |

| Test Case Dynamic Behaviour | | | | |
|---|---|----------------|---|---|
| <p>Test Case Name: ISUPB50302</p> <p>Group: ISUPB/ABN/Reset/</p> <p>Purpose: To verify that on receipt of a reset message the call is immediately released incoming call.</p> <p>Default: AnyOtherEventUnexpected</p> <p>Comments: SUBTITLE: Of an incoming circuit REFERENCE: 2.10.3.1 a)/Q.764 PRE-TEST CONDITIONS: Called termination is free. CONFIGURATION: 1 TYPE OF TEST: VAT and CPT TYPE OF SP: SP</p> | | | | |
| Behaviour Description | L | Cref | V | C |
| LAB ! TRANSFER_REQ | 1 | IAM_BA | | |
| + Receive_ACM_and_SETUP_IND | 2 | | | |
| + Check_RINGING_TONE | 3 | | | |
| UTA ! USER_REQ | 4 | SETUP_RESP_any | | |
| LAB ? TRANSFER_IND | 5 | ANM_AB | | |
| + Check_CONNECTIVITY | 6 | | | |
| LAB ! TRANSFER_REQ | 7 | RSC_BA | | |
| + Receive_RLC_and_REL_IND | 8 | | | |
| + Check_CIRCUIT_IDLE | 9 | | P | |
| <p>Detailed Comments:</p> | | | | |

| Test Case Dynamic Behaviour | | | | |
|---|----|---------------------|---|---|
| Test Case Name: ISUPB60101 | | | | |
| Group: ISUPB/SPCS/Cont_check_call/ | | | | |
| Purpose: To verify that a call can be setup on a circuit requiring a continuity check. | | | | |
| Default: AnyOtherEventUnexpected | | | | |
| Comments: SUBTITLE: Continuity check required | | | | |
| REFERENCE: 2.1.8/Q.764 | | | | |
| PRE-TEST CONDITIONS: Arrange the data in signalling point A such that a continuity check is required on this circuit. | | | | |
| CONFIGURATION: 1 | | | | |
| TYPE OF TEST: VAT and CPT | | | | |
| TYPE OF SP: SP | | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! USER_REQ [SP_A = ORI] | 1 | SETUP_REQ_any | P | |
| LAB ? TRANSFER_IND | 2 | IAM_contcheckreq_AB | | |
| CAB ! CONTCHECKLOOP_REQ | | CONNECT_ | | |
| # | 3 | CONTCHECKLOOP_B | | |
| LAB ? TRANSFER_IND | 4 | COT_successful_AB | | |
| CAB ! CONTCHECKLOOP_REQ | | DISCONNECT_ | | |
| # | 5 | CONTCHECKLOOP_B | | |
| LAB ! TRANSFER_REQ | 6 | ACM_BA | | |
| + Check_RINGING_TONE | 7 | | | |
| LAB ! TRANSFER_REQ | 8 | ANM_BA | | |
| + Check_CONNECTIVITY | 9 | | | |
| UTA ! USER_REQ | 10 | REL_REQ | | |
| LAB ? TRANSFER_IND | 11 | REL_AB | | |
| LAB ! TRANSFER_REQ | 12 | RLC_BA | | |
| + Check_CIRCUIT_IDLE | 13 | | | |
| LAB ! TRANSFER_REQ [SP_A = TER] | 14 | IAM_contcheckreq_BA | | |
| UTA ? USER_IND | 15 | SETUP_IND_any | | |
| CAB ! CONTCHECK_REQ | 16 | CONTCHECK_tone_BA | | |
| CAB ? CONTCHECK_IND | 17 | CONTCHECK_tone_AB | | |
| LAB ! TRANSFER_REQ | 18 | COT_successful_BA | | |
| LAB ? TRANSFER_IND | 19 | ACM_AB | | |
| + Check_RINGING_TONE | 20 | | | |
| UTA ! USER_REQ | 21 | SETUP_RESP_any | | |
| LAB ? TRANSFER_IND | 22 | ANM_AB | | |
| + Check_CONNECTIVITY | 23 | | | |
| LAB ! TRANSFER_REQ | 24 | REL_BA | | |
| + Receive_RLC_and_REL_IND | 25 | | | |
| + Check_CIRCUIT_IDLE | 26 | | | |
| Detailed Comments: | | | | |

| Test Case Dynamic Behaviour | | | | |
|--|----|--------------------------|---|---|
| <p>Test Case Name: ISUPB60102</p> <p>Group: ISUPB/SPCS/Cont_check_call/</p> <p>Purpose: To verify that if a continuity check is being performed on a previous circuit, a backward message is delayed until receipt of the COT message.</p> <p>Default: AnyOtherEventUnexpected</p> <p>Comments: SUBTITLE: COT applied on a previous circuit REFERENCE: 2.1.8/Q.764 PRE-TEST CONDITIONS: Arrange the data in signalling point B such that the signalling information in the IAM indicates that a continuity check has been performed on a previous circuit. CONFIGURATION: 1 TYPE OF TEST: VAT and CPT TYPE OF SP: SP</p> | | | | |
| Behaviour Description | L | Cref | V | C |
| LAB ! TRANSFER_REQ START Tcot_delay | 1 | IAM_contcheckprevious_BA | | |
| UTA ? USER_IND | 2 | SETUP_IND_any | | |
| ?TIMEOUT Tcot_delay | 3 | | | |
| LAB ! TRANSFER_REQ | 4 | COT_successful_BA | | |
| LAB ? TRANSFER_IND | 5 | ACM_AB | | |
| + Check_RINGING_TONE | 6 | | | |
| UTA ! USER_REQ | 7 | SETUP_RESP_any | | |
| LAB ? TRANSFER_IND | 8 | ANM_AB | | |
| + Check_CONNECTIVITY | 9 | | | |
| LAB ! TRANSFER_REQ | 10 | REL_BA | | |
| + Receive_RLC_and_REL_IND | 11 | | | |
| + Check_CIRCUIT_IDLE | 12 | | P | |
| LAB ? TRANSFER_IND CANCEL Tcot_delay | 13 | ACM_AB | | |
| LAB ! TRANSFER_REQ | 14 | REL_BA | | |
| + Receive_RLC_and_REL_IND | 15 | | F | |
| <p>Detailed Comments:</p> | | | | |

| Test Case Dynamic Behaviour | | | | |
|---|----|---------------------|---|---|
| <p>Test Case Name: ISUPB60103</p> <p>Group: ISUPB/SPCS/Cont_check_call/</p> <p>Purpose: To verify that the calling party can successfully clear the call during the continuity check phase.</p> <p>Default: AnyOtherEventUnexpected</p> <p>Comments: SUBTITLE: Calling party clears during a COT REFERENCE: 2.3/Q.764 PRE-TEST CONDITIONS: a) Arrange the data in signalling point A such that a continuity check is applied on this call. b) Calling party will release the call within 2 seconds. CONFIGURATION: 1 TYPE OF TEST: VAT TYPE OF SP: SP</p> | | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! USER_REQ [SP_A = ORI] | 1 | SETUP_REQ_any | P | |
| LAB ? TRANSFER_IND | 2 | IAM_contcheckreq_AB | | |
| CAB ! CONTCHECKLOOP_REQ | | CONNECT_ | | |
| # | 3 | CONTCHECKLOOP_B | | |
| UTA ! USER_REQ | 4 | REL_REQ | | |
| LAB ? TRANSFER_IND | 5 | REL_AB | | |
| LAB ! TRANSFER_REQ | 6 | RLC_BA | | |
| CAB ! CONTCHECKLOOP_REQ | 7 | DISCONNECT | | |
| # | | CONTCHECKLOOP_B | | |
| + Check_CIRCUIT_IDLE | 8 | | P | |
| LAB ! TRANSFER_REQ [SP_A = TER] | 9 | IAM_contcheckreq_BA | | |
| UTA ? USER_IND | 10 | SETUP_IND_any | | |
| LAB ! TRANSFER_REQ | 11 | REL_BA | | |
| + Receive_RLC_and_REL_IND | 12 | | | |
| + Check_CIRCUIT_IDLE | 13 | | P | |
| Detailed Comments: | | | | |

| Test Case Dynamic Behaviour | | | | |
|--|----|-------------------------|---|---|
| <p>Test Case Name: ISUPB60104</p> <p>Group: ISUPB/SPCS/Cont_check_call/</p> <p>Purpose: To verify that the switching through of the speech path is delayed until the residual check-tone has propagated through the return of the speech path.</p> <p>Default: AnyOtherEventUnexpected</p> <p>Comments: SUBTITLE: Delay of through connect REFERENCE: 2.1.8/Q.764 PRE-TEST CONDITIONS: a) The called termination is free. b) Arrange the data in signalling point A such that a continuity check is applied on this circuit. CONFIGURATION: 1 TYPE OF TEST: VAT and CPT TYPE OF SP: SP</p> | | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! USER_REQ [SP_A = ORI] | 1 | SETUP_REQ_any | P | |
| LAB ? TRANSFER_IND | 2 | IAM_contcheckreq_AB | | |
| CAB ! CONTCHECKLOOP_REQ | | CONNECT_ | | |
| # | 3 | CONTCHECKLOOP_B | | |
| UTA ? USER_IND | 4 | NO_contcheck_tone_heard | | |
| LAB ? TRANSFER_IND | 5 | COT_successful_AB | | |
| CAB ! CONTCHECKLOOP_REQ | 6 | DISCONNECT_ | | |
| # | | CONTCHECKLOOP_B | | |
| LAB ! TRANSFER_REQ | 7 | ACM_BA | | |
| + Check_RINGING_TONE | 8 | | | |
| LAB ! TRANSFER_REQ | 9 | ANM_BA | | |
| + Check_CONNECTIVITY | 10 | | | |
| UTA ! USER_REQ | 11 | REL_REQ | | |
| LAB ? TRANSFER_IND | 12 | REL_AB | | |
| LAB ! TRANSFER_REQ | 13 | RLC_BA | | |
| + Check_CIRCUIT_IDLE | 14 | | | |
| LAB ! TRANSFER_REQ [SP_A = TER] | 15 | IAM_contcheckreq_BA | | |
| UTA ? USER_IND | 16 | SETUP_IND_any | | |
| CAB ! CONTCHECK_REQ | 17 | CONTCHECK_tone_BA | | |
| UTA ? USER_IND | 18 | NO_contcheck_tone_heard | | |
| CAB ? CONTCHECK_IND | 19 | CONTCHECK_tone_AB | | |
| LAB ! TRANSFER_REQ | 20 | COT_successful_BA | | |
| LAB ? TRANSFER_IND | 21 | ACM_AB | | |
| + Check_RINGING_TONE | 22 | | | |
| UTA ! USER_REQ | 23 | SETUP_RESP_any | | |
| LAB ? TRANSFER_IND | 24 | ANM_AB | | |
| + Check_CONNECTIVITY | 25 | | | |
| LAB ! TRANSFER_REQ | 26 | REL_BA | | |
| + Receive_RLC_and_REL_IND | 27 | | | |
| + Check_CIRCUIT_IDLE | 28 | | | |
| Detailed Comments: | | | | |

| Test Case Dynamic Behaviour | | | | |
|---|----|---------------------|---|---|
| <p>Test Case Name: ISUPB60105</p> <p>Group: ISUPB/SPCS/Cont_check_call/</p> <p>Purpose: To verify that a repeat attempt of the continuity check is made on the failed circuit.</p> <p>Default: AnyOtherEventUnexpected</p> <p>Comments: SUBTITLE: COT unsuccessful REFERENCE: 2.1.8/Q.764 PRE-TEST CONDITIONS: a) Arrange data in signalling point A such that a COT is applied on this circuit. b) Ensure that no backward tone is detected within the specified time out. CONFIGURATION: 1 TYPE OF TEST: VAT TYPE OF SP: SP</p> | | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! USER_REQ | 1 | SETUP_REQ_any | | |
| LAB ? TRANSFER_IND START T24max | 2 | IAM_contcheckreq_AB | | |
| LAB ? TRANSFER_IND CANCEL T24max, | | COT_failed_AB | | |
| # START T25min, START T25max | 3 | | | |
| ?TIMEOUT T25min | 4 | | | |
| LAB ? TRANSFER_IND | | CCR_AB | | |
| # CANCEL T25max, START T24max | 5 | | | |
| LAB ? TRANSFER_IND CANCEL T24max, | | COT_failed_AB | | |
| # START T26min, START T26max | 6 | | | |
| UTA ? MAINT_IND | 7 | ALARM_MaintSystem | | |
| ?TIMEOUT T26min | 8 | | | |
| LAB ? TRANSFER_IND | | CCR_AB | | |
| # CANCEL T26max, START T24max | 9 | | | |
| LAB ? TRANSFER_IND CANCEL T24max | 10 | COT_failed_AB | P | |
| ?TIMEOUT T24max | 11 | | F | |
| ?TIMEOUT T26max | 12 | | F | |
| LAB ? TRANSFER_IND | | CCR_AB | | |
| # CANCEL T26min, CANCEL T26max | 13 | | F | |
| ?TIMEOUT T26max | 14 | | F | |
| ?TIMEOUT T24max | 15 | | F | |
| ?TIMEOUT T25max | 16 | | F | |
| LAB ? TRANSFER_IND | | CCR_AB | | |
| # CANCEL T25min, CANCEL T25max | 17 | | F | |
| ?TIMEOUT T24max | 18 | | F | |
| <p>Detailed Comment:</p> <p>NOTE – The call should be re-attempted.</p> | | | | |

| Test Case Dynamic Behaviour | | | | |
|---|----|----------------|---|----------|
| <p>Test Case Name: ISUPB60201</p> <p>Group: ISUPB/SPCS/Autom_rep_attempt/</p> <p>Purpose: To verify that an automatic repeat attempt will be made on detection of a dual seizure.</p> <p>Default: AnyOtherEventUnexpected</p> <p>Comments: SUBTITLE: Dual seizure for non-controlling SP REFERENCE: 2.9.1 i)/Q.764 PRE-TEST CONDITIONS: Arrange the signalling point data such that SP B is the controlling exchange for CIC = x. CONFIGURATION: 1 TYPE OF TEST: VAT and CPT TYPE OF SP: SP</p> | | | | |
| Behaviour Description | | Cref | V | C |
| UTA ! USER_REQ | 1 | SETUP_REQ_any | | |
| LAB ? TRANSFER_IND | 2 | IAM_cicx_AB | | |
| LAB ! TRANSFER_REQ | 3 | IAM_cicx_BA | | |
| + Receive_ACM_cicx_and_SETUP_IND_ | | | | |
| # and_IAM_cicy | 4 | | | |
| + Check_RINGING_TONE | 5 | | | (Note 1) |
| UTA ! USER_REQ | 6 | SETUP_RESP_any | | |
| LAB ? TRANSFER_IND | 7 | ANM_cicx_AB | | |
| + Check_CONNECTIVITY | 8 | | | (Note 1) |
| LAB ! TRANSFER_REQ | 9 | ACM_cicy_BA | | |
| + Check_RINGING_TONE | 10 | | | (Note 2) |
| LAB ! TRANSFER_REQ | 11 | ANM_cicy_BA | | |
| + Check_CONNECTIVITY | 12 | | | (Note 2) |
| UTA ! USER_REQ | 13 | REL_REQ | | |
| LAB ? TRANSFER_IND | 14 | REL_cicy_AB | | |
| LAB ! TRANSFER_REQ | 15 | RLC_cicy_BA | | |
| + Check_CIRCUIT_IDLE | 16 | | | (Note 2) |
| LAB ! TRANSFER_REQ | 17 | REL_cicx_BA | | |
| + Receive_RLC_cicx_and_REL_IND | 18 | | | |
| + Check_CIRCUIT_IDLE | 19 | | P | (Note 1) |
| <p>NOTES</p> <p>1 This check applies to the circuit cicx.</p> <p>2 This check applies to the circuit cicy.</p> <p>3 The message sequence may not be as shown above.</p> | | | | |

| Test Case Dynamic Behaviour | | | | |
|---|----|---------------|---|----------|
| <p>Test Case Name: ISUPB60202</p> <p>Group: ISUPB/SPCS/Autom_rep_attempt/</p> <p>Purpose: To verify that an automatic repeat attempt will be made on receipt of the blocking message after sending an initial address message and before any backward messages have been received.</p> <p>Default: AnyOtherEventUnexpected</p> <p>Comments: SUBTITLE: Blocking of a circuit REFERENCE: 2.9.1 ii)/Q.764 PRE-TEST CONDITIONS: Arrange the data in the signalling point B such that a blocking message is returned in response to the initial address message of the first call request. CONFIGURATION: 1 TYPE OF TEST: VAT TYPE OF SP: SP</p> | | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! USER_REQ | 1 | SETUP_REQ_any | | |
| LAB ? TRANSFER_IND | 2 | IAM_cicx_AB | | |
| LAB ! TRANSFER_REQ | 3 | BLO_cicx_BA | | |
| + Receive_BLA_cicx_and_REL_cicx_ | | | | |
| # and_IAM_cicy_and_send_RLC | 4 | | | |
| LAB ! TRANSFER_REQ | 5 | ACM_cicy_BA | | |
| + Check_RINGING_TONE | 6 | | | (Note 1) |
| LAB ! TRANSFER_REQ | 7 | ANM_cicy_BA | | |
| + Check_CONNECTIVITY | 8 | | | (Note 1) |
| UTA ! USER_REQ | 9 | REL_REQ | | |
| LAB ? TRANSFER_IND | 10 | REL_cicy_AB | | |
| LAB ! TRANSFER_REQ | 11 | RLC_cicy_BA | | |
| + Check_CIRCUIT_IDLE | 12 | | P | (Note 1) |
| <p>Detailed Comments:</p> <p>1 This check applies to the circuit cicy.</p> <p>2 The message sequence may not be as shown above.</p> | | | | |

| Test Case Dynamic Behaviour | | | | |
|---|----|---------------|---|----------|
| <p>Test Case Name: ISUPB60203</p> <p>Group: ISUPB/SPCS/Autom_rep_attempt/</p> <p>Purpose: To verify that an automatic repeat attempt will be made on receipt of circuit reset after sending an initial address message and before any backward messages have been received.</p> <p>Default: AnyOtherEventUnexpected</p> <p>Comments: SUBTITLE: Circuit reset REFERENCE: 2.9.1 iii)/Q.764 PRE-TEST CONDITIONS: a) Arrange the data in the signalling point B such that a circuit reset message is returned in response to the initial address message of the first call request. b) The called termination should be free. CONFIGURATION: 1 TYPE OF TEST: VAT TYPE OF SP: SP</p> | | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! USER_REQ | 1 | SETUP_REQ_any | | |
| LAB ? TRANSFER_IND | 2 | IAM_cicx_AB | | |
| LAB ! TRANSFER_REQ | 3 | RSC_cicx_BA | | |
| + Receive_RLC_cicx_and_IAM_cicy | 4 | | | |
| LAB ! TRANSFER_REQ | 5 | ACM_cicy_BA | | |
| + Check_RINGING_TONE | 6 | | | (Note 1) |
| LAB ! TRANSFER_REQ | 7 | ANM_cicy_BA | | |
| + Check_CONNECTIVITY | 8 | | | (Note 1) |
| UTA ! USER_REQ | 9 | REL_REQ | | |
| LAB ? TRANSFER_IND | 10 | REL_cicy_AB | | |
| LAB ! TRANSFER_REQ | 11 | RLC_cicy_BA | | |
| + Check_CIRCUIT_IDLE | 12 | | P | (Note 2) |
| <p>Detailed Comments:</p> <p>1 This check applies to the circuit cicy.</p> <p>2 This check applies to both circuits cicx and cicy.</p> <p>3 The message sequence may not be as shown above.</p> | | | | |

| Test Case Dynamic Behaviour | | | | |
|---|----|---------------|---|----------|
| <div>Test Case Name: ISUPB60205</div> <div>Group: ISUPB/SPCS/Autom_rep_attempt/</div> <div>Purpose: To verify that an automatic repeat attempt will be made on receipt of unreasonable signalling information after sending an initial address message and before any backward messages have been received.</div> <div>Default: AnyOtherEventUnexpected</div> <div>Comments: SUBTITLE: Reception of unreasonable signalling information REFERENCE: 2.9.1 v)/Q.764, 2.10.5.1 d)/Q.764. PRE-TEST CONDITIONS: a) Arrange the data in the signalling point B such that unreasonable signalling information (see note below) is returned in response to the initial address message of the first call request. b) The called termination should be free. CONFIGURATION: 1 TYPE OF TEST: VAT TYPE OF SP: SP</div> | | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! USER_REQ | 1 | SETUP_REQ_any | P | (Note 1) |
| LAB ? TRANSFER_IND | 2 | IAM_cicx_AB | | |
| LAB ! TRANSFER_REQ | 3 | XXX_cicx_BA | | |
| + Receive_RSC_cicx_and_IAM_cicy | 4 | | | (Note 2) |
| LAB ! TRANSFER_REQ | 5 | RLC_cicx_BA | | |
| LAB ! TRANSFER_REQ | 6 | ACM_cicy_BA | | |
| + Check_RINGING_TONE | 7 | | | |
| LAB ! TRANSFER_REQ | 8 | ANM_cicy_BA | | (Note 2) |
| + Check_CONNECTIVITY | 9 | | | |
| UTA ! USER_REQ | 10 | REL_REQ | | (Note 3) |
| LAB ? TRANSFER_IND | 11 | REL_cicy_AB | | |
| LAB ! TRANSFER_REQ | 12 | RLC_cicy_BA | | |
| + Check_CIRCUIT_IDLE | 13 | | | |
| <div>Detailed Comments:</div> <div>NOTES</div> <div>1 This may be any message that if received at this point would be either ambiguous or inappropriate. For example, SUS or RES messages.</div> <div>2 This check applies to the circuit cicy.</div> <div>3 This check applies to both circuits cicx and cicy.</div> <div>4 The message sequence may not be as shown above.</div> | | | | |

| Test Case Dynamic Behaviour | | | | |
|--|---|----------------|---|----------|
| Test Case Name: | ISUPB60301 | | | |
| Group: | ISUPB/SPCS/Dual_seiz/ | | | |
| Purpose: | To verify that on detection of dual seizure, the call initiated by the controlling signalling point is completed and the non-controlling signalling point is backed off. | | | |
| Default: | AnyOtherEventUnexpected | | | |
| Comments: | SUBTITLE: Dual seizure for controlling SP REFERENCE: 2.10.1.4/Q.764 PRE-TEST CONDITIONS: Arrange the signalling point data such that signalling point A is the controlling exchange. CONFIGURATION: 1 TYPE OF TEST: VAT and CPT TYPE OF SP: SP | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! USER_REQ [CONTR_SP = CPA] | 1 | SETUP_REQ_any | P | (Note 1) |
| LAB ? TRANSFER_IND | 2 | IAM_cicx_AB | | |
| LAB ! TRANSFER_REQ | 3 | IAM_cicx_BA | | |
| LAB ! TRANSFER_REQ | 4 | ACM_cicx_BA | | |
| + Check_RINGING_TONE | 5 | | | |
| LAB ! TRANSFER_REQ | 6 | ANM_cicx_BA | | |
| + Check_CONNECTIVITY | 7 | | | |
| UTA ! USER_REQ | 8 | REL_REQ | | |
| LAB ? TRANSFER_IND | 9 | REL_cicx_AB | | |
| LAB ! TRANSFER_REQ | 10 | RLC_cicx_BA | | |
| + Check_CIRCUIT_IDLE | 11 | | | |
| UTA ! USER_REQ [CONTR_SP = CPB] | 12 | SETUP_REQ_any | | |
| LAB ? TRANSFER_IND | 13 | IAM_cicx_AB | | |
| LAB ! TRANSFER_REQ | 14 | IAM_cicx_BA | | |
| + Receive_ACM_cicx_and_SETUP_IND_# and_IAM_cicy | 15 | | | |
| + Check_RINGING_TONE | 16 | | | |
| UTA ! USER_REQ | 17 | SETUP_RESP_any | | |
| LAB ? TRANSFER_IND | 18 | ANM_cicx_AB | | |
| + Check_CONNECTIVITY | 19 | | | |
| LAB ! TRANSFER_REQ | 20 | REL_cicx_BA | | |
| + Receive_RLC_cicx_and_REL_IND | 21 | | | |
| + Check_CIRCUIT_IDLE | 22 | | | |
| Detailed Comments: | | | | |
| NOTES | | | | |
| 1 The call initiated by SP B should be re-attempted, see test number ISUPB60201. | | | | |
| 2 This check applies to the circuit cicx. | | | | |

| Test Case Dynamic Behaviour | | | | |
|---|----|---------------|---|----------|
| <p>Test Case Name: ISUPB60401</p> <p>Group: ISUPB/SPCS/Semi_autom_oper/</p> <p>Purpose: To verify that the FOT is correctly sent.</p> <p>Default: AnyOtherEventUnexpected</p> <p>Comments: SUBTITLE: FOT sent following a call to a subscriber REFERENCE: 2.1.12/Q.764 PRE-TEST CONDITIONS: a) FOT message is generated at signalling point A. b) Arrange the data so that a controlling operator is at signalling point A. c) Arrange the data so that an assistant operator is at signalling point B. CONFIGURATION: 1 TYPE OF TEST: VAT TYPE OF SP: SP</p> | | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! USER_REQ | 1 | SETUP_REQ_any | | |
| LAB ? TRANSFER_IND | 2 | IAM_AB | | |
| LAB ! TRANSFER_REQ | 3 | ACM_BA | | |
| LAB ! TRANSFER_REQ | 4 | ANM_BA | | |
| + Check_CONNECTIVITY | 5 | | | (Note 1) |
| UTA ! USER_REQ | 6 | FOT_REQ | | (Note 2) |
| LAB ? TRANSFER_IND | 7 | FOT_AB | | |
| + Check_CONNECTIVITY | 8 | | | (Note 3) |
| UTA ! USER_REQ | 9 | REL_REQ | | |
| LAB ? TRANSFER_IND | 10 | REL_AB | | |
| LAB ! TRANSFER_REQ | 11 | RLC_BA | P | |
| <p>Detailed Comments:</p> <p>NOTES</p> <p>1 Checks connectivity between operator and subscriber.</p> <p>2 The support of the FOT message at the international interface does not impose that the related functions are implemented in each gateway (e.g. language assistance).</p> <p>3 Checks connectivity between the operators.</p> | | | | |

| Test Case Dynamic Behaviour | | | | |
|---|----|----------------|---|----------|
| <p>Test Case Name: ISUPB60402</p> <p>Group: ISUPB/SPCS/Semi_autom_oper/</p> <p>Purpose: To verify that the FOT is correctly received.</p> <p>Default: AnyOtherEventUnexpected</p> <p>Comments: SUBTITLE: FOT received following a call to a subscriber REFERENCE: 2.1.12/Q.764 PRE-TEST CONDITIONS: a) FOT message is generated at signalling point B. b) Arrange the data so that a controlling operator is at signalling point B. c) Arrange the data so that an assistant operator is at signalling point A. CONFIGURATION: 1 TYPE OF TEST: VAT TYPE OF SP: SP</p> | | | | |
| Behaviour Description | L | Cref | V | C |
| LAB ! TRANSFER_REQ | 1 | IAM_BA | | |
| + Receive_ACM_and_SETUP_IND | 2 | | | |
| UTA ! USER_REQ | 3 | SETUP_RESP_any | | |
| LAB ? TRANSFER_IND | 4 | ANM_AB | | |
| + Check_CONNECTIVITY | 5 | | | (Note 1) |
| LAB ! TRANSFER_REQ | 6 | FOT_BA | | (Note 2) |
| UTA ? USER_IND | 7 | FOT_IND | | |
| + Check_CONNECTIVITY | 8 | | | (Note 3) |
| LAB ! TRANSFER_REQ | 9 | REL_BA | | |
| + Receive_RLC_and_REL_IND | 10 | | P | |
| <p>Detailed Comments:</p> <p>NOTES</p> <p>1 Checks connectivity between operator and subscriber.</p> <p>2 The support of the FOT message at the international interface does not impose that the related functions are implemented in each gateway (e.g., language assistance).</p> <p>3 Checks connectivity between the operators.</p> | | | | |

| Test Case Dynamic Behaviour | | | | |
|--|----|---------------|---|----------|
| <p>Test Case Name: ISUPB60403</p> <p>Group: ISUPB/SPCS/Semi_autom_oper/</p> <p>Purpose: To verify that a FOT is correctly sent.</p> <p>Default: AnyOtherEventUnexpected</p> <p>Comments: SUBTITLE: FOT sent following a call via codes 11 and 12 REFERENCE: 2.1.12/Q.764 PRE-TEST CONDITIONS: a) FOT message is generated at signalling point A. b) Arrange the data so that a controlling operator is at signalling point A. c) Arrange the data so that an incoming operator is at signalling point B. CONFIGURATION: 1 TYPE OF TEST: VAT TYPE OF SP: SP</p> | | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! USER_REQ | 1 | SETUP_REQ_any | | |
| LAB ? TRANSFER_IND | 2 | IAM_AB | | |
| LAB ! TRANSFER_REQ | 3 | ACM_BA | | |
| LAB ! TRANSFER_REQ | 4 | ANM_BA | | |
| + Check_CONNECTIVITY | 5 | | | (Note 1) |
| + Check_CONNECTIVITY | 6 | | | (Note 2) |
| UTA ! USER_REQ | 7 | FOT_REQ | | (Note 3) |
| LAB ? TRANSFER_IND | 8 | FOT_AB | | |
| + Check_CONNECTIVITY | 9 | | | (Note 4) |
| UTA ! USER_REQ | 10 | REL_REQ | | |
| LAB ? TRANSFER_IND | 11 | REL_AB | | |
| LAB ! TRANSFER_REQ | 12 | RLC_BA | P | |
| <p>Detailed Comments:</p> <p>NOTES</p> <p>1 Checks connectivity between the operators.</p> <p>2 Checks connectivity between operator and subscriber.</p> <p>3 The support of the FOT message at the international interface does not impose that the related functions are implemented in each gateway (e.g. language assistance).</p> <p>4 Checks connectivity between the operators.</p> | | | | |

| Test Case Dynamic Behaviour | | | | |
|--|----|----------------|---|----------|
| <p>Test Case Name: ISUPB60404</p> <p>Group: ISUPB/SPCS/Semi_autom_oper/</p> <p>Purpose: To verify that the FOT is correctly received.</p> <p>Default: AnyOtherEventUnexpected</p> <p>Comments: SUBTITLE: FOT received following a call via codes 11 and 12 REFERENCE: 2.1.12/Q.764 PRE-TEST CONDITIONS: a) FOT message is generated at signalling point B. b) Arrange the data so that a controlling operator is at signalling point B. c) Arrange the data so that an incoming operator is at signalling point A. CONFIGURATION: 1 TYPE OF TEST: VAT TYPE OF SP: SP</p> | | | | |
| Behaviour Description | L | Cref | V | C |
| LAB ! TRANSFER_REQ | 1 | IAM_BA | | |
| + Receive_ACM_and_SETUP_IND | 2 | | | |
| UTA ! USER_REQ | 3 | SETUP_RESP_any | | |
| LAB ? TRANSFER_IND | 4 | ANM_AB | | |
| + Check_CONNECTIVITY | 5 | | | (Note 1) |
| + Check_CONNECTIVITY | 6 | | | (Note 2) |
| LAB ! TRANSFER_REQ | 7 | FOT_BA | | (Note 3) |
| UTA ? USER_IND | 8 | FOT_IND | | |
| + Check_CONNECTIVITY | 9 | | | (Note 4) |
| LAB ! TRANSFER_REQ | 10 | REL_BA | | |
| + Receive_RLC_and_REL_IND | 11 | | P | |
| <p>Detailed Comments:</p> <p>NOTES</p> <p>1 Checks connectivity between the operators.</p> <p>2 Checks connectivity between operator and subscriber.</p> <p>3 The support of the FOT message at the international interface does not impose that the related functions are implemented in each gateway (e.g. language assistance).</p> <p>4 Checks connectivity between the operators.</p> | | | | |

[illegible]

| Test Case Dynamic Behaviour | | | | |
|---|---|------|---|---|
| <p>Test Case Name: ISUPB70102</p> <p>Group: ISUPB/BSERV/64kbps_unres/</p> <p>Purpose: To verify that the call will be immediately released by the outgoing signalling point if a release message with a given cause is received and, for circuits equipped with echo control, the echo control device is enabled.</p> <p>Default: AnyOtherEventUnexpected</p> <p>Comments: SUBTITLE: Unsuccessful call set-up REFERENCE: 2.2/Q.764 PRE-TEST CONDITIONS: Arrange the data in signalling point B such that a release message with a given cause is returned to the request. CONFIGURATION: 1 TYPE OF TEST: VAT and CPT TYPE OF SP: SP</p> | | | | |
| Behaviour Description | L | Cref | V | C |
| + SETUP_Call_REL_Unalloc_nr_64kbps_unrestr | 1 | | | |
| + SETUP_Call_REL_No_circuit_64kbps_unrestr | 2 | | | |
| + SETUP_Call_REL_Bearer_cap_not_ | | | | |
| # authorized_64kbp_unrestr | 3 | | | |
| + SETUP_Call_REL_Bearer_cap_not_ | | | | |
| # available_64kbp_unrestr | 4 | | | |
| + SETUP_Call_REL_Bearer_cap_not_ | | | | |
| # implemented_64kbp_unrestr | 5 | | P | |
| <p>Detailed Comments:</p> | | | | |

| Test Case Dynamic Behaviour | | | | |
|--|----|------------------------|---|--------------|
| <p>Test Case Name: ISUPB70201</p> <p>Group: ISUPB/BSERV/3.1kHz_audio/</p> <p>Purpose: To verify that a 3.1 kHz audio call can be successfully completed using appropriate Transmission Medium Requirement and User Service Information parameters.</p> <p>Default: AnyOtherEventUnexpected</p> <p>Comments: SUBTITLE: Successful call set-up REFERENCE: 2.1/Q.764 PRE-TEST CONDITIONS: Called termination is free. CONFIGURATION: 1 TYPE OF TEST: VAT and CPT TYPE OF SP: SP</p> | | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! USER_REQ [SP_A = ORI] | 1 | SETUP_REQ_3_1kHz_audio | P | (Notes 1, 2) |
| LAB ? TRANSFER_IND | 2 | IAM_3_1kHz_audio_AB | | |
| LAB ! TRANSFER_REQ | 3 | ACM_BA | | |
| LAB ! TRANSFER_REQ | 4 | ANM_BA | | |
| + Check_DATA_SPEECH | 5 | | | |
| UTA ! USER_REQ | 6 | REL_REQ | | |
| LAB ? TRANSFER_IND | 7 | REL_AB | | |
| LAB ! TRANSFER_REQ | 8 | RLC_BA | | |
| + Check_CIRCUIT_IDLE | 9 | | | |
| LAB ! TRANSFER_REQ [SP_A=TER] | 10 | IAM_3_1kHz_audio_BA | P | (Notes 1, 2) |
| + Receive_ACM_and_SETUP_IND | 11 | | | |
| UTA ! USER_REQ | 12 | SETUP_RESP_any | | |
| LAB ? TRANSFER_IND | 13 | ANM_AB | | |
| + Check_DATA_SPEECH | 14 | | | |
| LAB ! TRANSFER_REQ | 15 | REL_BA | | |
| + Receive_RLC_and_REL_IND | 16 | | | |
| + Check_CIRCUIT_IDLE | 17 | | P | |
| <p>Detailed Comments:</p> <p>NOTES</p> <p>1 Is the TMR set to “3.1 kHz Audio”?</p> <p>2 Does the USI, if included, have appropriate information? For example, USI has two or three octets for 3.1 kHz audio. To check the contents of the User Service Information parameter is optional.</p> | | | | |

A.9.2 Test Step Dynamic Behaviour

| Test Step Dynamic Behaviour | | | | |
|---|---|--------|---|----------|
| Test Step Name: GRS_RANGE_VALID Group: ISUPB/TEST_STEP/Circuit_Supervision/ Purpose: To check that on receipt of one GRS SP A responds by sending a GRA. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| LAB ! TRANSFER_REQ | 1 | GRS_BA | | (Note 1) |
| LAB ? TRANSFER_IND | 2 | GRA_AB | | (Note 2) |
| Detailed Comments: NOTES 1 Range is 1 to 31. 2 Are the status bits in GRA set correctly? | | | | |

| Test Step Dynamic Behaviour | | | | |
|---|---|----------------------|---|--------|
| Test Step Name: GRS_RANGE_INVALID Group: ISUPB/TEST_STEP/Circuit_Supervision/ Purpose: To check that exchange discards GRS with invalid range. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| LAB ! TRANSFER_REQ START TNOAC | 1 | GRS_RANGE_INVALID_BA | | (Note) |
| ?TIMEOUT TNOAC | 2 | | | |
| LAB ?OTHERWISE CANCEL TNOAC | 3 | | F | |
| Detailed Comments: NOTE – Range 0 and 32 to 255. | | | | |

| Test Step Dynamic Behaviour | | | | |
|---|---|------------------|---|---|
| Test Step Name: BlockLocal_CIRCUIT_GROUP_MAINT Group: ISUPB/TEST_STEP/Circuit_Supervision/ Purpose: To get circuit group blocked for SP A. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! MML_REQ | 1 | GROUPBLOCK_MAINT | | |
| LAB ? TRANSFER_IND | 2 | CGB_maint_AB | | |
| LAB ! TRANSFER_REQ | 3 | CGBA_maint_BA | | |
| Detailed Comments: | | | | |

| Test Step Dynamic Behaviour | | | | |
|--|---|---------------|---|--------|
| Test Step Name: BlockRemote_CIRCUIT_GROUP_MAINT Group: ISUPB/TEST_STEP/Circuit_Supervision/ Purpose: To check that on receipt of one CGB SP A responds by sending a CGBA. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| LAB ! TRANSFER_REQ | 1 | CGB_maint_BA | | (Note) |
| LAB ? TRANSFER_IND | 2 | CGBA_maint_AB | | |
| Detailed Comments: NOTE – Range is 1 to 31. | | | | |

| Test Step Dynamic Behaviour | | | | |
|---|---|---------------|---|--------|
| Test Step Name: BlockRemote_CIRCUIT_GROUP_HARDW | | | | |
| Group: ISUPB/TEST_STEP/Circuit_Supervision/ | | | | |
| Purpose: To check that on receipt of one CGB SP A responds by sending a CGBA. | | | | |
| Default: AnyOtherEventUnexpected | | | | |
| Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| LAB ! TRANSFER_REQ | 1 | CGB_hardw_BA | | (Note) |
| LAB ? TRANSFER_IND | 2 | CGBA_hardw_AB | | |
| Detailed Comments: | | | | |
| NOTE – Range is 1 to 31. | | | | |

| Test Step Dynamic Behaviour | | | | |
|---|---|----------------------------|---|--------|
| Test Step Name: BlockRemote_CIRCUIT_GROUP_MAINT_RANGE_INVALID Group: ISUPB/TEST_STEP/Circuit_Supervision/ Purpose: To check that exchange discards CGG with invalid range. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| LAB ! TRANSFER_REQ START TNOAC | | CGB_maint_RANGE_INVALID_BA | | (Note) |
| # | 1 | | | |
| ?TIMEOUT TNOAC | 2 | | | |
| LAB ?OTHERWISE CANCEL TNOAC | 3 | | F | |
| Detailed Comments: NOTE – Range 0 and 32 to 255. | | | | |

| Test Step Dynamic Behaviour | | | | |
|---|---|----------------------------|---|--------|
| Test Step Name: BlockRemote_CIRCUIT_GROUP_HARDW_RANGE_INVALID Group: ISUPB/TEST_STEP/Circuit_Supervision/ Purpose: To check that exchange discards CGG with invalid range. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| LAB ! TRANSFER_REQ START TNOAC | 1 | CGB_hardw_RANGE_INVALID_BA | | (Note) |
| # | 2 | | | |
| ?TIMEOUT TNOAC | 3 | | F | |
| LAB ?OTHERWISE CANCEL TNOAC | | | | |
| Detailed Comments: NOTE – Range 0 and 32 to 255. | | | | |

| Test Step Dynamic Behaviour | | | | |
|--|---|---------------|---|--------|
| Test Step Name: UnblockRemote_CIRCUIT_GROUP_MAINT Group: ISUPB/TEST_STEP/Circuit_Supervision/ Purpose: To unblock circuit group which was blocked remotely. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| LAB ! TRANSFER_REQ | 1 | CGU_maint_BA | | (Note) |
| LAB ? TRANSFER_IND | 2 | CGUA_maint_AB | | |
| Detailed Comments: NOTE – Range is 1 to 31. | | | | |

| Test Step Dynamic Behaviour | | | | |
|---|---|---------------|---|--------|
| Test Step Name: UnblockRemote_CIRCUIT_GROUP_HARDW | | | | |
| Group: ISUPB/TEST_STEP/Circuit_Supervision/ | | | | |
| Purpose: To unblock circuit group which was blocked remotely. | | | | |
| Default: AnyOtherEventUnexpected | | | | |
| Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| LAB ! TRANSFER_REQ | 1 | CGU_hardw_BA | | (Note) |
| LAB ? TRANSFER_IND | 2 | CGUA_hardw_AB | | |
| Detailed Comments: | | | | |
| NOTE – Range is 1 to 31. | | | | |

| Test Step Dynamic Behaviour | | | | |
|---|---|---------------|---|---|
| Test Step Name: BlockLocal_CIRCUIT Group: ISUPB/TEST_STEP/Circuit_Supervision/ Purpose: To get circuit locally blocked for SP A. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! MML_REQ | 1 | BLOCK_CIRCUIT | | |
| LAB ? TRANSFER_IND | 2 | BLO_AB | | |
| LAB ! TRANSFER_REQ | 3 | BLA_BA | | |
| Detailed Comments: | | | | |

| Test Step Dynamic Behaviour | | | | |
|---|---|-----------------|---|---|
| Test Step Name: UnblockLocal_CIRCUIT Group: ISUPB/TEST_STEP/Circuit_Supervision/ Purpose: To get circuit locally unblocked for SP A. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! MML_REQ | 1 | UNBLOCK_CIRCUIT | | |
| LAB ? TRANSFER_IND | 2 | UBL_AB | | |
| LAB ! TRANSFER_REQ | 3 | UBA_BA | | |
| Detailed Comments: | | | | |

| Test Step Dynamic Behaviour | | | | |
|---|---|--------|---|---|
| Test Step Name: BlockRemote_CIRCUIT Group: ISUPB/TEST_STEP/Circuit_Supervision/ Purpose: To get circuit remotely blocked for SP A. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| LAB ! TRANSFER_REQ | 1 | BLO_BA | | |
| LAB ? TRANSFER_IND | 2 | BLA_AB | | |
| Detailed Comments: | | | | |

| Test Step Dynamic Behaviour | | | | |
|---|---|--------|---|---|
| Test Step Name: UnblockRemote_CIRCUIT Group: ISUPB/TEST_STEP/Circuit_Supervision/ Purpose: To get circuit remotely unblocked for SP A. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| LAB ! TRANSFER_REQ | 1 | UBL_BA | | |
| LAB ? TRANSFER_IND | 2 | UBA_AB | | |
| Detailed Comments: | | | | |

| Test Step Dynamic Behaviour | | | | |
|---|---|---------------|---|---|
| Test Step Name: Check_CIRCUIT_IDLE Group: ISUPB/Circuit_Condition/ Purpose: To check that circuit is idle. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! USER_REQ | 1 | SETUP_REQ_any | | |
| LAB ? TRANSFER_IND | 2 | IAM_AB | | |
| LAB ! TRANSFER_REQ | 3 | REL_BA | | |
| + Receive_RLC_and_REL_IND | 4 | | | |
| Detailed Comments: NOTE – This check will be implementation dependent. However, this is a possible method. | | | | |

| Test Step Dynamic Behaviour | | | | |
|--|---|-------------|---|---|
| Test Step Name: Check_CONNECTIVITY Group: ISUPB/TEST_STEP/Circuit_Condition/ Purpose: To check that speech is possible. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| CAB ! SPEECH_REQ | 1 | INFO_any_BA | | |
| CAB ? SPEECH_IND | 2 | INFO_any_AB | | |
| Detailed Comments: NOTE – This check will be implementation dependent. However, this is a possible method. | | | | |

| Test Step Dynamic Behaviour | | | | |
|---|---|-----------------|---|---|
| Test Step Name: Check_RINGING_TONE Group: ISUPB/TEST_STEP/Circuit_Condition/ Purpose: To check that ringing tone can be heard. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ? USER_IND [SP_A=ORI] | 1 | RINGING_TONE_BA | | |
| CAB ? TONE_IND [SP_A=TER] | 2 | RINGING_TONE_AB | | |
| Detailed Comments: NOTE – This check will be implementation dependent. However, this is a possible method. | | | | |

| Test Step Dynamic Behaviour | | | | |
|--|---|-------------|---|---|
| Test Step Name: Check_DATA Group: ISUPB/TEST_STEP/Circuit_Condition/ Purpose: To check that speech is possible. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| CAB ! DATA_REQ | 1 | DATA_any_BA | | |
| CAB ? DATA_IND | 2 | DATA_any_AB | | |
| Detailed Comments: NOTE – This check will be implementation dependent. However, this is a possible method. | | | | |

| Test Step Dynamic Behaviour | | | | |
|---|---|-------------|---|---|
| Test Step Name: Check_DATA_SPEECH Group: ISUPB/TEST_STEP/Circuit_Condition/ Purpose: To check that speech is possible. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| CAB ! DATA_REQ | 1 | DATA_any_BA | | |
| CAB ? DATA_IND | 2 | DATA_any_AB | | |
| CAB ! SPEECH_REQ | 3 | INFO_any_BA | | |
| CAB ? SPEECH_IND | 4 | INFO_any_AB | | |
| Detailed Comments: NOTE – This check will be implementation dependent. However, this is a possible method. | | | | |

| Test Step Dynamic Behaviour | | | | |
|--|---|--------------|---|---|
| Test Step Name: Check_ECHO_DEVICES Group: ISUPB/TEST_STEP/Circuit_Condition/ Purpose: To check that the echo devices operate correctly. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| CAB ! SPEECH_REQ | 1 | INFO_echo_BA | | |
| CAB ? SPEECH_IND | 2 | INFO_echo_AB | | |
| Detailed Comments: NOTE – This check will be implementation dependent. However, this is a possible method. | | | | |

| Test Step Dynamic Behaviour | | | | |
|--|---|---------------|---|----------|
| Test Step Name: Check_REMOTE_BLOCKING_CIRCUIT_GROUP Group: ISUPB/TEST_STEP/Circuit_Condition/ Purpose: To verify that a call can only be originated from SP B on the circuits indicated by the range and status field in CGB message. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! USER_REQ | 1 | SETUP_REQ_any | | |
| LAB ? TRANSFER_IND | 2 | IAM_AB | | (Note 1) |
| LAB ! TRANSFER_REQ | 3 | REL_BA | | |
| + Receive_RLC_and_REL_IND | 4 | | | |
| LAB ! TRANSFER_REQ | 5 | IAM_BA | | (Note 2) |
| + Receive_ACM_and_SETUP_IND | 6 | | | |
| LAB ! TRANSFER_REQ | 7 | REL_BA | | |
| + Receive_RLC_and_REL_IND | 8 | | | |
| Detailed Comments: NOTES 1 Circuit is not member of the circuit group. 2 Circuit is member of circuit group. 3 This check will be implementation dependent. However, this is a possible method. | | | | |

| Test Step Dynamic Behaviour | | | | |
|---|---|---------------|---|----------|
| Test Step Name: Check_UNBLOCKED_CIRCUIT_GROUP Group: ISUPB/TEST_STEP/Circuit_Condition/ Purpose: To verify that a call can be originated from either SP on the circuits indicated by the range and status field in CGB message. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! USER_REQ | 1 | SETUP_REQ_any | | |
| LAB ? TRANSFER_IND | 2 | IAM_AB | | (Note 1) |
| LAB ! TRANSFER_REQ | 3 | REL_BA | | |
| + Receive_RLC_and_REL_IND | 4 | | | |
| LAB ! TRANSFER_REQ | 5 | IAM_BA | | (Note 2) |
| + Receive_ACM_and_SETUP_IND | 6 | | | |
| LAB ! TRANSFER_REQ | 7 | REL_BA | | |
| + Receive_RLC_and_REL_IND | 8 | | | |
| Detailed Comments: NOTES 1 Circuit is not member of circuit group. 2 Circuit is member of the circuit group. 3 This test step should be repeated for all circuits of the circuit group. 4 This check will be implementation dependent. However, this is a possible method. | | | | |

| Test Step Dynamic Behaviour | | | | |
|--|---|---------------|---|----------|
| Test Step Name: Check_REMOTE_BLOCKING_CIRCUIT Group: ISUPB/TEST_STEP/Circuit_Condition/ Purpose: To verify that a call can only be originated from SP B on the circuit. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! USER_REQ | 1 | SETUP_REQ_any | | (Note 1) |
| LAB ? TRANSFER_IND | 2 | IAM_AB | | |
| LAB ! TRANSFER_REQ | 3 | REL_BA | | |
| + Receive_RLC_and_REL_IND | 4 | | | (Note 2) |
| LAB ! TRANSFER_REQ | 5 | IAM_BA | | |
| + Receive_ACM_and_SETUP_IND | 6 | | | |
| LAB ! TRANSFER_REQ | 7 | REL_BA | | |
| + Receive_RLC_and_REL_IND | 8 | | | |
| Detailed Comments: NOTES 1 Circuit is not the blocked one. 2 Circuit is the blocked one. 3 This check will be implementation dependent. However, this is a possible method. | | | | |

| Test Step Dynamic Behaviour | | | | |
|---|---|---------------|---|---|
| Test Step Name: Check_UNBLOCKED_CIRCUIT | | | | |
| Group: ISUPB/TEST_STEP/Circuit_Condition/ | | | | |
| Purpose: To verify that a call can be originated from either SP on the circuit. | | | | |
| Default: AnyOtherEventUnexpected | | | | |
| Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! USER_REQ | 1 | SETUP_REQ_any | | |
| LAB ? TRANSFER_IND | 2 | IAM_AB | | |
| LAB ! TRANSFER_REQ | 3 | REL_BA | | |
| + Receive_RLC_and_REL_IND | 4 | | | |
| LAB ! TRANSFER_REQ | 5 | IAM_BA | | |
| + Receive_ACM_and_SETUP_IND | 6 | | | |
| LAB ! TRANSFER_REQ | 7 | REL_BA | | |
| + Receive_RLC_and_REL_IND | 8 | | | |
| Detailed Comments: | | | | |
| NOTE – This check will be implementation dependent. However, this is a possible method. | | | | |

| Test Step Dynamic Behaviour | | | | |
|--|---|---------------|---|----------|
| Test Step Name: Check_LOCAL_BLOCKING_CIRCUIT | | | | |
| Group: ISUPB/TEST_STEP/Circuit_Condition/ | | | | |
| Purpose: To verify that a call can only be originated from SP A on the circuit. | | | | |
| Default: AnyOtherEventUnexpected | | | | |
| Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! USER_REQ | 1 | SETUP_REQ_any | | (Note 1) |
| LAB ? TRANSFER_IND | 2 | IAM_AB | | |
| LAB ! TRANSFER_REQ | 3 | REL_BA | | |
| + Receive_RLC_and_REL_IND | 4 | | | (Note 2) |
| LAB ! TRANSFER_REQ | 5 | IAM_BA | | |
| LAB ? TRANSFER_IND | 6 | BLO_AB | | |
| LAB ! TRANSFER_REQ | 7 | BLA_BA | | |
| Detailed Comments: | | | | |
| NOTE | | | | |
| 1 Circuit is not the blocked one. | | | | |
| 2 Circuit is the blocked one. | | | | |
| 3 This check will be implementation dependent. However, this is a possible method. | | | | |

| Test Step Dynamic Behaviour | | | | |
|--|---|---------------|---|----------|
| Test Step Name: Check_BOTHENDS_BLOCKING_CIRCUIT | | | | |
| Group: ISUPB/TEST_STEP/Circuit_Condition/ | | | | |
| Purpose: To verify that a call cannot be originated on the circuit by either SP. | | | | |
| Default: AnyOtherEventUnexpected | | | | |
| Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! USER_REQ | 1 | SETUP_REQ_any | | (Note 1) |
| LAB ? TRANSFER_IND | 2 | IAM_AB | | |
| LAB ! TRANSFER_REQ | 3 | REL_BA | | |
| + Receive_RLC_and_REL_IND | 4 | | | |
| LAB ! TRANSFER_REQ | 5 | IAM_BA | | |
| LAB ? TRANSFER_IND | 6 | BLO_AB | | |
| LAB ! TRANSFER_REQ | 7 | BLA_BA | | |
| Detailed Comments: | | | | |
| NOTES | | | | |
| 1 Circuit is not the blocked one. | | | | |
| 2 This check will be implementation dependent. However, this is a possible method. | | | | |

| Test Step Dynamic Behaviour | | | | |
|---|----|------------------|---|---|
| Test Step Name: SETUP_ORI_Call_BCI_Free_ISDN_in_ACM Group: ISUPB/TEST_STEP/Ori_Call_Setup/ Purpose: To verify that a call can be successfully completed using backward call indicator constraint: Called party status indicator = free; ISDN access indicator = ISDN in ACM. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! USER_REQ | 1 | SETUP_REQ_Speech | | |
| LAB ? TRANSFER_IND | 2 | IAM_Speech_AB | | |
| LAB ! TRANSFER_REQ | 3 | ACM_Free_ISDN_BA | | |
| + Check_RINGING_TONE | 4 | | | |
| LAB ! TRANSFER_REQ | 5 | ANM_BA | | |
| + Check_CONNECTIVITY | 6 | | | |
| UTA ! USER_REQ | 7 | REL_REQ | | |
| LAB ? TRANSFER_IND | 8 | REL_AB | | |
| LAB ! TRANSFER_REQ | 9 | RLC_BA | | |
| + Check_CIRCUIT_IDLE | 10 | | | |
| Detailed Comments: | | | | |

| Test Step Dynamic Behaviour | | | | |
|---|----|----------------------|---|---|
| Test Step Name: SETUP_ORI_Call_BCI_Free_Non_ISDN_in_ACM Group: ISUPB/TEST_STEP/Ori_Call_Setup/ Purpose: To verify that a call can be successfully completed using backward call indicator constraint: Called party status indicator = free; ISDN access indicator = non ISDN in ACM. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! USER_REQ | 1 | SETUP_REQ_Speech | | |
| LAB ? TRANSFER_IND | 2 | IAM_Speech_AB | | |
| LAB ! TRANSFER_REQ | 3 | ACM_Free_Non_ISDN_BA | | |
| + Check_RINGING_TONE | 4 | | | |
| LAB ! TRANSFER_REQ | 5 | ANM_BA | | |
| + Check_CONNECTIVITY | 6 | | | |
| UTA ! USER_REQ | 7 | REL_REQ | | |
| LAB ? TRANSFER_IND | 8 | REL_AB | | |
| LAB ! TRANSFER_REQ | 9 | RLC_BA | | |
| + Check_CIRCUIT_IDLE | 10 | | | |
| Detailed Comments: | | | | |

| Test Step Dynamic Behaviour | | | | |
|--|----|--------------------|---|---|
| Test Step Name: SETUP_ORI_Call_BCI_No_Ind_ISDN_in_ACM Group: ISUPB/TEST_STEP/Ori_Call_Setup/ Purpose: To verify that a call can be successfully completed using backward call indicator constraint: Called party status indicator = no indication; ISDN access indicator = ISDN in ACM. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! USER_REQ | 1 | SETUP_REQ_Speech | | |
| LAB ? TRANSFER_IND | 2 | IAM_Speech_AB | | |
| LAB ! TRANSFER_REQ | 3 | ACM_No_Ind_ISDN_BA | | |
| + Check_RINGING_TONE | 4 | | | |
| LAB ! TRANSFER_REQ | 5 | ANM_BA | | |
| + Check_CONNECTIVITY | 6 | | | |
| UTA ! USER_REQ | 7 | REL_REQ | | |
| LAB ? TRANSFER_IND | 8 | REL_AB | | |
| LAB ! TRANSFER_REQ | 9 | RLC_BA | | |
| + Check_CIRCUIT_IDLE | 10 | | | |
| Detailed Comments: | | | | |

| Test Step Dynamic Behaviour | | | | |
|--|----|------------------------|---|---|
| Test Step Name: SETUP_ORI_Call_BCI_No_Ind_Non_ISDN_in_ACM Group: ISUPB/TEST_STEP/Ori_Call_Setup/ Purpose: To verify that a call can be successfully completed using backward call indicator constraint: Called party status indicator = no indication; ISDN access indicator = non ISDN in ACM. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! USER_REQ | 1 | SETUP_REQ_Speech | | |
| LAB ? TRANSFER_IND | 2 | IAM_Speech_AB | | |
| LAB ! TRANSFER_REQ | 3 | ACM_No_Ind_Non_ISDN_BA | | |
| + Check_RINGING_TONE | 4 | | | |
| LAB ! TRANSFER_REQ | 5 | ANM_BA | | |
| + Check_CONNECTIVITY | 6 | | | |
| UTA ! USER_REQ | 7 | REL_REQ | | |
| LAB ? TRANSFER_IND | 8 | REL_AB | | |
| LAB ! TRANSFER_REQ | 9 | RLC_BA | | |
| + Check_CIRCUIT_IDLE | 10 | | | |
| Detailed Comments: | | | | |

| Test Step Dynamic Behaviour | | | | |
|--|----|------------------|---|---|
| Test Step Name: SETUP_ORI_Call_CPG_Alerting Group: ISUPB/TEST_STEP/Ori_Call_Setup/ Purpose: To verify that a call can be successfully completed using event information “alerting” in the call progress message. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! USER_REQ | 1 | SETUP_REQ_Speech | | |
| LAB ? TRANSFER_IND | 2 | IAM_Speech_AB | | |
| LAB ! TRANSFER_REQ | 3 | ACM_BA | | |
| LAB ! TRANSFER_REQ | 4 | CPG_Alert_BA | | |
| + Check_RINGING_TONE | 5 | | | |
| LAB ! TRANSFER_REQ | 6 | ANM_BA | | |
| + Check_CONNECTIVITY | 7 | | | |
| UTA ! USER_REQ | 8 | REL_REQ | | |
| LAB ? TRANSFER_IND | 9 | REL_AB | | |
| LAB ! TRANSFER_REQ | 10 | RLC_BA | | |
| + Check_CIRCUIT_IDLE | 11 | | | |
| Detailed Comments: | | | | |

| Test Step Dynamic Behaviour | | | | |
|--|----|------------------|---|---|
| Test Step Name: SETUP_ORI_Call_CPG_Progress Group: ISUPB/TEST_STEP/Ori_Call_Setup/ Purpose: To verify that a call can be successfully completed using event information “progress” in the call progress message. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! USER_REQ | 1 | SETUP_REQ_Speech | | |
| LAB ? TRANSFER_IND | 2 | IAM_Speech_AB | | |
| LAB ! TRANSFER_REQ | 3 | ACM_BA | | |
| LAB ! TRANSFER_REQ | 4 | CPG_Progress_BA | | |
| + Check_RINGING_TONE | 5 | | | |
| LAB ! TRANSFER_REQ | 6 | ANM_BA | | |
| + Check_CONNECTIVITY | 7 | | | |
| UTA ! USER_REQ | 8 | REL_REQ | | |
| LAB ? TRANSFER_IND | 9 | REL_AB | | |
| LAB ! TRANSFER_REQ | 10 | RLC_BA | | |
| + Check_CIRCUIT_IDLE | 11 | | | |
| Detailed Comments: | | | | |

| Test Step Dynamic Behaviour | | | | |
|---|----|---------------------|---|---|
| Test Step Name: SETUP_ORI_Call_CPG_In_band_info Group: ISUPB/TEST_STEP/Ori_Call_Setup/ Purpose: To verify that a call can be successfully completed using event information “in_band_info” in the call progress message. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! USER_REQ | 1 | SETUP_REQ_Speech | | |
| LAB ? TRANSFER_IND | 2 | IAM_Speech_AB | | |
| LAB ! TRANSFER_REQ | 3 | ACM_BA | | |
| LAB ! TRANSFER_REQ | 4 | CPG_In_band_info_BA | | |
| + Check_RINGING_TONE | 5 | | | |
| LAB ! TRANSFER_REQ | 6 | ANM_BA | | |
| + Check_CONNECTIVITY | 7 | | | |
| UTA ! USER_REQ | 8 | REL_REQ | | |
| LAB ? TRANSFER_IND | 9 | REL_AB | | |
| LAB ! TRANSFER_REQ | 10 | RLC_BA | | |
| + Check_CIRCUIT_IDLE | 11 | | | |
| Detailed Comments: | | | | |

| Test Step Dynamic Behaviour | | | | |
|---|---|------------------|---|---|
| Test Step Name: SETUP_ORI_Call_BCI_Free_ISDN_in_CON Group: ISUPB/TEST_STEP/Ori_Call_Setup/ Purpose: To verify that a call can be successfully completed using backward call indicator constraint: Called party status indicator = free; ISDN access indicator = ISDN in CON. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! USER_REQ | 1 | SETUP_REQ_Speech | | |
| LAB ? TRANSFER_IND | 2 | IAM_Speech_AB | | |
| LAB ! TRANSFER_REQ | 3 | CON_Free_ISDN_BA | | |
| + Check_CONNECTIVITY | 4 | | | |
| UTA ! USER_REQ | 5 | REL_REQ | | |
| LAB ? TRANSFER_IND | 6 | REL_AB | | |
| LAB ! TRANSFER_REQ | 7 | RLC_BA | | |
| + Check_CIRCUIT_IDLE | 8 | | | |
| Detailed Comments: | | | | |

| Test Step Dynamic Behaviour | | | | |
|---|---|----------------------|---|---|
| Test Step Name: SETUP_ORI_Call_BCI_Free_Non_ISDN_in_CON Group: ISUPB/TEST_STEP/Ori_Call_Setup/ Purpose: To verify that a call can be successfully completed using backward call indicator constraint: Called party status indicator = free; ISDN access indicator = non ISDN in CON. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! USER_REQ | 1 | SETUP_REQ_Speech | | |
| LAB ? TRANSFER_IND | 2 | IAM_Speech_AB | | |
| LAB ! TRANSFER_REQ | 3 | CON_Free_Non_ISDN_BA | | |
| + Check_CONNECTIVITY | 4 | | | |
| UTA ! USER_REQ | 5 | REL_REQ | | |
| LAB ? TRANSFER_IND | 6 | REL_AB | | |
| LAB ! TRANSFER_REQ | 7 | RLC_BA | | |
| + Check_CIRCUIT_IDLE | 8 | | | |
| Detailed Comments: | | | | |

| Test Step Dynamic Behaviour | | | | |
|--|---|--------------------|---|---|
| Test Step Name: SETUP_ORI_Call_BCI_No_Ind_ISDN_in_CON Group: ISUPB/TEST_STEP/Ori_Call_Setup/ Purpose: To verify that a call can be successfully completed using backward call indicator constraint: Called party status indicator = no indication; ISDN access indicator = ISDN in CON. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! USER_REQ | 1 | SETUP_REQ_Speech | | |
| LAB ? TRANSFER_IND | 2 | IAM_Speech_AB | | |
| LAB ! TRANSFER_REQ | 3 | CON_No_Ind_ISDN_BA | | |
| + Check_CONNECTIVITY | 4 | | | |
| UTA ! USER_REQ | 5 | REL_REQ | | |
| LAB ? TRANSFER_IND | 6 | REL_AB | | |
| LAB ! TRANSFER_REQ | 7 | RLC_BA | | |
| + Check_CIRCUIT_IDLE | 8 | | | |
| Detailed Comments: | | | | |

| Test Step Dynamic Behaviour | | | | |
|--|---|------------------------|---|---|
| Test Step Name: SETUP_ORI_Call_BCI_No_Ind_Non_ISDN_in_CON Group: ISUPB/TEST_STEP/Ori_Call_Setup/ Purpose: To verify that a call can be successfully completed using backward call indicator constraint: Called party status indicator = no indication; ISDN access indicator = non ISDN in CON. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! USER_REQ | 1 | SETUP_REQ_Speech | | |
| LAB ? TRANSFER_IND | 2 | IAM_Speech_AB | | |
| LAB ! TRANSFER_REQ | 3 | CON_No_Ind_Non_ISDN_BA | | |
| + Check_CONNECTIVITY | 4 | | | |
| UTA ! USER_REQ | 5 | REL_REQ | | |
| LAB ? TRANSFER_IND | 6 | REL_AB | | |
| LAB ! TRANSFER_REQ | 7 | RLC_BA | | |
| + Check_CIRCUIT_IDLE | 8 | | | |
| Detailed Comments: | | | | |

| Test Step Dynamic Behaviour | | | | |
|---|---|----------------|---|---|
| Test Step Name: SETUP_TER_Call_BCI_Free_ISDN_in_ACM Group: ISUPB/TEST_STEP/Ter_Call_Setup/ Purpose: To verify that a call can be successfully completed using backward call indicator constraint: Called party status indicator = free; ISDN access indicator = ISDN in ACM. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| LAB ! TRANSFER_REQ | 1 | IAM_Speech_BA | | |
| + Receive_ACM_Free_ISDN_and_SETUP_IND | 2 | | | |
| + Check_RINGING_TONE | 3 | | | |
| UTA ! USER_REQ | 4 | SETUP_RESP_any | | |
| LAB ? TRANSFER_IND | 5 | ANM_AB | | |
| + Check_CONNECTIVITY | 6 | | | |
| LAB ! TRANSFER_REQ | 7 | REL_BA | | |
| + Receive_RLC_and_REL_IND | 8 | | | |
| + Check_CIRCUIT_IDLE | 9 | | | |
| Detailed Comments: | | | | |

| Test Step Dynamic Behaviour | | | | |
|---|---|----------------|---|---|
| Test Step Name: SETUP_TER_Call_BCI_Free_Non_ISDN_in_ACM Group: ISUPB/TEST_STEP/Ter_Call_Setup/ Purpose: To verify that a call can be successfully completed using backward call indicator constraint: Called party status indicator = free; ISDN access indicator = non ISDN in ACM. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| LAB ! TRANSFER_REQ | 1 | IAM_Speech_BA | | |
| + Receive_ACM_Free_Non_ISDN_and_ | | | | |
| # SETUP_IND | 2 | | | |
| + Check_RINGING_TONE | 3 | | | |
| UTA ! USER_REQ | 4 | SETUP_RESP_any | | |
| LAB ? TRANSFER_IND | 5 | ANM_AB | | |
| + Check_CONNECTIVITY | 6 | | | |
| LAB ! TRANSFER_REQ | 7 | REL_BA | | |
| + Receive_RLC_and_REL_IND | 8 | | | |
| + Check_CIRCUIT_IDLE | 9 | | | |
| Detailed Comments: | | | | |

| Test Step Dynamic Behaviour | | | | |
|--|---|----------------|---|---|
| Test Step Name: SETUP_TER_Call_BCI_No_Ind_ISDN_in_ACM Group: ISUPB/TEST_STEP/Ter_Call_Setup/ Purpose: To verify that a call can be successfully completed using backward call indicator constraint: Called party status indicator = no indication; ISDN access indicator = ISDN in ACM. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| LAB ! TRANSFER_REQ | 1 | IAM_Speech_BA | | |
| + Receive_ACM_No_Ind_ISDN_and_SETUP_IND | 2 | | | |
| + Check_RINGING_TONE | 3 | | | |
| UTA ! USER_REQ | 4 | SETUP_RESP_any | | |
| LAB ? TRANSFER_IND | 5 | ANM_AB | | |
| + Check_CONNECTIVITY | 6 | | | |
| LAB ! TRANSFER_REQ | 7 | REL_BA | | |
| + Receive_RLC_and_REL_IND | 8 | | | |
| + Check_CIRCUIT_IDLE | 9 | | | |
| Detailed Comments: | | | | |

| Test Step Dynamic Behaviour | | | | |
|--|---|----------------|---|---|
| Test Step Name: SETUP_TER_Call_BCL_No_Ind_Non_ISDN_in_ACM Group: ISUPB/TEST_STEP/Ter_Call_Setup/ Purpose: To verify that a call can be successfully completed using backward call indicator constraint: Called party status indicator = no indication; ISDN access indicator = non ISDN in ACM. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| LAB ! TRANSFER_REQ | 1 | IAM_Speech_BA | | |
| + Receive_ACM_No_Ind_Non_ISDN_and_ | | | | |
| # SETUP_IND | 2 | | | |
| + Check_RINGING_TONE | 3 | | | |
| UTA ! USER_REQ | 4 | SETUP_RESP_any | | |
| LAB ? TRANSFER_IND | 5 | ANM_AB | | |
| + Check_CONNECTIVITY | 6 | | | |
| LAB ! TRANSFER_REQ | 7 | REL_BA | | |
| + Receive_RLC_and_REL_IND | 8 | | | |
| + Check_CIRCUIT_IDLE | 9 | | | |
| Detailed Comments: | | | | |

| Test Step Dynamic Behaviour | | | | |
|---|----|----------------|---|---|
| Test Step Name: SETUP_TER_Call_CPG_Alerting Group: ISUPB/TEST_STEP/Ter_Call_Setup/ Purpose: To verify that a call can be successfully completed using event information “alerting” in the call progress message. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| LAB ! TRANSFER_REQ | 1 | IAM_Speech_BA | | |
| + Receive_ACM_and_SETUP_IND | 2 | | | |
| LAB ? TRANSFER_IND | 3 | CPG_Alert_AB | | |
| + Check_RINGING_TONE | 4 | | | |
| UTA ! USER_REQ | 5 | SETUP_RESP_any | | |
| LAB ? TRANSFER_IND | 6 | ANM_AB | | |
| + Check_CONNECTIVITY | 7 | | | |
| LAB ! TRANSFER_REQ | 8 | REL_BA | | |
| + Receive_RLC_and_REL_IND | 9 | | | |
| + Check_CIRCUIT_IDLE | 10 | | | |
| Detailed Comments: | | | | |

| Test Step Dynamic Behaviour | | | | |
|---|----|-----------------|---|---|
| Test Step Name: SETUP_TER_Call_CPG_Progress Group: ISUPB/TEST_STEP/Ter_Call_Setup/ Purpose: To verify that a call can be successfully completed using event information “progress” in the call progress message. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| LAB ! TRANSFER_REQ | 1 | IAM_Speech_BA | | |
| + Receive_ACM_and_SETUP_IND | 2 | | | |
| LAB ? TRANSFER_IND | 3 | CPG_Progress_AB | | |
| + Check_RINGING_TONE | 4 | | | |
| UTA ! USER_REQ | 5 | SETUP_RESP_any | | |
| LAB ? TRANSFER_IND | 6 | ANM_AB | | |
| + Check_CONNECTIVITY | 7 | | | |
| LAB ! TRANSFER_REQ | 8 | REL_BA | | |
| + Receive_RLC_and_REL_IND | 9 | | | |
| + Check_CIRCUIT_IDLE | 10 | | | |
| Detailed Comments: | | | | |

| Test Step Dynamic Behaviour | | | | |
|---|----|---------------------|---|---|
| Test Step Name: SETUP_TER_Call_CPG_In_band_info Group: ISUPB/TEST_STEP/Ter_Call_Setup/ Purpose: To verify that a call can be successfully completed using event information “in_band_info” in the call progress message. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| LAB ! TRANSFER_REQ | 1 | IAM_Speech_BA | | |
| + Receive_ACM_and_SETUP_IND | 2 | | | |
| LAB ? TRANSFER_IND | 3 | CPG_In_band_info_AB | | |
| + Check_RINGING_TONE | 4 | | | |
| UTA ! USER_REQ | 5 | SETUP_RESP_any | | |
| LAB ? TRANSFER_IND | 6 | ANM_AB | | |
| + Check_CONNECTIVITY | 7 | | | |
| LAB ! TRANSFER_REQ | 8 | REL_BA | | |
| + Receive_RLC_and_REL_IND | 9 | | | |
| + Check_CIRCUIT_IDLE | 10 | | | |
| Detailed Comments: | | | | |

| Test Step Dynamic Behaviour | | | | |
|---|---|------------------|---|---|
| Test Step Name: SETUP_TER_Call_BCI_Free_ISDN_in_CON Group: ISUPB/TEST_STEP/Ter_Call_Setup/ Purpose: To verify that a call can be successfully completed using backward call indicator constraint: Called party status indicator = free; ISDN access indicator = ISDN in CON. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| LAB ! TRANSFER_REQ | 1 | IAM_Speech_BA | | |
| UTA ? USER_IND | 2 | SETUP_IND | | |
| LAB ? TRANSFER_IND | 3 | CON_Free_ISDN_AB | | |
| + Check_CONNECTIVITY | 4 | | | |
| LAB ! TRANSFER_REQ | 5 | REL_BA | | |
| + Receive_RLC_and_REL_IND | 6 | | | |
| + Check_CIRCUIT_IDLE | 7 | | | |
| Detailed Comments: | | | | |

| Test Step Dynamic Behaviour | | | | |
|---|---|----------------------|---|---|
| Test Step Name: SETUP_TER_Call_BCI_Free_Non_ISDN_in_CON Group: ISUPB/TEST_STEP/Ter_Call_Setup/ Purpose: To verify that a call can be successfully completed using backward call indicator constraint: Called party status indicator = free; ISDN access indicator = non ISDN in CON. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| LAB ! TRANSFER_REQ | 1 | IAM_Speech_BA | | |
| UTA ? USER_IND | 2 | SETUP_IND | | |
| LAB ? TRANSFER_IND | 3 | CON_Free_Non_ISDN_AB | | |
| + Check_CONNECTIVITY | 4 | | | |
| LAB ! TRANSFER_REQ | 5 | REL_BA | | |
| + Receive_RLC_and_REL_IND | 6 | | | |
| + Check_CIRCUIT_IDLE | 7 | | | |
| Detailed Comments: | | | | |

| Test Step Dynamic Behaviour | | | | |
|--|---|--------------------|---|---|
| Test Step Name: SETUP_TER_Call_BCI_No_Ind_ISDN_in_CON Group: ISUPB/TEST_STEP/Ter_Call_Setup/ Purpose: To verify that a call can be successfully completed using backward call indicator constraint: Called party status indicator = no indication; ISDN access indicator = ISDN in CON. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| LAB ! TRANSFER_REQ | 1 | IAM_Speech_BA | | |
| UTA ? USER_IND | 2 | SETUP_IND | | |
| LAB ? TRANSFER_IND | 3 | CON_No_Ind_ISDN_AB | | |
| + Check_CONNECTIVITY | 4 | | | |
| LAB ! TRANSFER_REQ | 5 | REL_BA | | |
| + Receive_RLC_and_REL_IND | 6 | | | |
| + Check_CIRCUIT_IDLE | 7 | | | |
| Detailed Comments: | | | | |

| Test Step Dynamic Behaviour | | | | |
|--|---|------------------------|---|---|
| Test Step Name: SETUP_TER_Call_BCI_No_Ind_Non_ISDN_in_CON Group: ISUPB/TEST_STEP/Ter_Call_Setup/ Purpose: To verify that a call can be successfully completed using backward call indicator constraint: Called party status indicator = no indication; ISDN access indicator = non ISDN in CON. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| LAB ! TRANSFER_REQ | 1 | IAM_Speech_BA | | |
| UTA ? USER_IND | 2 | SETUP_IND | | |
| LAB ? TRANSFER_IND | 3 | CON_No_Ind_Non_ISDN_AB | | |
| + Check_CONNECTIVITY | 4 | | | |
| LAB ! TRANSFER_REQ | 5 | REL_BA | | |
| + Receive_RLC_and_REL_IND | 6 | | | |
| + Check_CIRCUIT_IDLE | 7 | | | |
| Detailed Comments: | | | | |

| Test Step Dynamic Behaviour | | | | |
|--|----|-----------------------|---|---|
| Test Step Name: SETUP_Call_REL_Unalloc_nr Group: ISUPB/TEST_STEP/Unsucc_Call_Setup/ Purpose: To verify that a call can be successfully released using cause information “unallocated number” in the release message. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! USER_REQ [CASE=A] | 1 | SETUP_REQ_any | | |
| LAB ? TRANSFER_IND | 2 | IAM_AB | | |
| LAB ! TRANSFER_REQ | 3 | REL_Unalloc_nr_BA | | |
| + Receive_RLC_and_REL_IND | 4 | | | |
| UTA ? USER_IND | 5 | TONE_ANNCT_Unalloc_nr | | |
| + Check_CIRCUIT_IDLE | 6 | | | |
| UTA ! USER_REQ [CASE=B] | 7 | SETUP_REQ_any | | |
| LAB ? TRANSFER_IND | 8 | IAM_AB | | |
| LAB ! TRANSFER_REQ | 9 | ACM_BA | | |
| LAB ! TRANSFER_REQ | 10 | REL_Unalloc_nr_BA | | |
| + Receive_RLC_and_REL_IND | 11 | | | |
| UTA ? USER_IND | 12 | TONE_ANNCT_Unalloc_nr | | |
| + Check_CIRCUIT_IDLE | 13 | | | |
| Detailed Comments: | | | | |

| Test Step Dynamic Behaviour | | | | |
|---|----|-----------------------|---|---|
| Test Step Name: SETUP_Call_REL_No_circuit Group: ISUPB/TEST_STEP/Unsucc_Call_Setup/ Purpose: To verify that a call can be successfully released using cause information “no circuit available” in the release message. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! USER_REQ [CASE=A] | 1 | SETUP_REQ_any | | |
| LAB ? TRANSFER_IND | 2 | IAM_AB | | |
| LAB ! TRANSFER_REQ | 3 | REL_No_circuit_BA | | |
| + Receive_RLC_and_REL_IND | 4 | | | |
| UTA ? USER_IND | 5 | TONE_ANNCT_No_circuit | | |
| + Check_CIRCUIT_IDLE | 6 | | | |
| UTA ! USER_REQ [CASE=B] | 7 | SETUP_REQ_any | | |
| LAB ? TRANSFER_IND | 8 | IAM_AB | | |
| LAB ! TRANSFER_REQ | 9 | ACM_BA | | |
| LAB ! TRANSFER_REQ | 10 | REL_No_circuit_BA | | |
| + Receive_RLC_and_REL_IND | 11 | | | |
| UTA ? USER_IND | 12 | TONE_ANNCT_No_circuit | | |
| + Check_CIRCUIT_IDLE | 13 | | | |
| Detailed Comments: | | | | |

| Test Step Dynamic Behaviour | | | | |
|---|----|------------------------------|---|---|
| Test Step Name: SETUP_Call_REL_Switch_congestion Group: ISUPB/TEST_STEP/Unsucc_Call_Setup/ Purpose: To verify that a call can be successfully released using cause information “switching equipment congestion” in the release message. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! USER_REQ [CASE=A] | 1 | SETUP_REQ_any | | |
| LAB ? TRANSFER_IND | 2 | IAM_AB | | |
| LAB ! TRANSFER_REQ | 3 | REL_Switch_congestion_BA | | |
| + Receive_RLC_and_REL_IND | 4 | | | |
| UTA ? USER_IND | | | | |
| # | 5 | TONE_ANNCT_Switch_congestion | | |
| + Check_CIRCUIT_IDLE | 6 | | | |
| UTA ! USER_REQ [CASE=B] | 7 | SETUP_REQ_any | | |
| LAB ? TRANSFER_IND | 8 | IAM_AB | | |
| LAB ! TRANSFER_REQ | 9 | ACM_BA | | |
| LAB ! TRANSFER_REQ | 10 | REL_Switch_congestion_BA | | |
| + Receive_RLC_and_REL_IND | 11 | | | |
| UTA ? USER_IND | | | | |
| # | 12 | TONE_ANNCT_Switch_congestion | | |
| + Check_CIRCUIT_IDLE | 13 | | | |
| Detailed Comments: | | | | |

| Test Step Dynamic Behaviour | | | | |
|--|---|--------------------------|---|--------|
| Test Step Name: SETUP_Call_REL_Unalloc_nr_64kbps_unrestr Group: ISUPB/TEST_STEP/Unsucc_Call_Setup/ Purpose: To verify that a call can be successfully released using cause information “unallocated number” in the release message. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! USER_REQ | 1 | SETUP_REQ_64kbps_unrestr | | |
| LAB ? TRANSFER_IND | 2 | IAM_64kbps_unrestr_AB | | |
| LAB ! TRANSFER_REQ | 3 | REL_Unalloc_nr_BA | | |
| + Receive_RLC_and_REL_IND_ | | | | |
| # Cause_Unalloc_nr | 4 | | | |
| + Check_CIRCUIT_IDLE | 5 | | | |
| UTA ? MAINT_IND | 6 | ECD_REENABLED_cic | | (Note) |
| Detailed Comments: NOTE – This check applies to the circuits equipped with echo control. | | | | |

| Test Step Dynamic Behaviour | | | | |
|--|---|--------------------------|---|--------|
| Test Step Name: SETUP_Call_REL_No_circuit_64kbps_unrestr Group: ISUPB/TEST_STEP/Unsucc_Call_Setup/ Purpose: To verify that a call can be successfully released using cause information “no circuit available” in the release message. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! USER_REQ | 1 | SETUP_REQ_64kbps_unrestr | | |
| LAB ? TRANSFER_IND | 2 | IAM_64kbps_unrestr_AB | | |
| LAB ! TRANSFER_REQ | 3 | REL_No_circuit_BA | | |
| + Receive_RLC_and_REL_IND_ | | | | |
| # Cause_No_circuit | 4 | | | |
| + Check_CIRCUIT_IDLE | 5 | | | |
| UTA ? MAINT_IND | 6 | ECD_REENABLED_cic | | (Note) |
| Detailed Comments: NOTE – This check applies to the circuits equipped with echo control. | | | | |

| Test Step Dynamic Behaviour | | | | |
|--|----------------------------|--|---|--------|
| Test Step Name: SETUP_Call_REL_Bearer_cap_not_authorized_64kbp_unrestr Group: ISUPB/TEST_STEP/Unsucc_Call_Setup/ Purpose: To verify that a call can be successfully released using cause information “bearer capability not authorized” in the release message. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! USER_REQ LAB ? TRANSFER_IND LAB ! TRANSFER_REQ # + Receive_RLC_and_REL_IND_Cause_ # Bearer_cap_not_authorized + Check_CIRCUIT_IDLE UTA ? MAINT_IND | 1 2 3 4 5 6 | SETUP_REQ_64kbps_unrestr IAM_64kbps_unrestr_AB REL_Bearer_cap_ not_authorized_BA ECD_REENABLED_cic | | (Note) |
| Detailed Comments: NOTE – This check applies to the circuits equipped with echo control. | | | | |

| Test Step Dynamic Behaviour | | | | |
|--|----------------------------|---|---|--------|
| Test Step Name: SETUP_Call_REL_Bearer_cap_not_available_64kbp_unrestr Group: ISUPB/TEST_STEP/Unsucc_Call_Setup/ Purpose: To verify that a call can be successfully released using cause information “bearer capability not available” in the release message. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! USER_REQ LAB ? TRANSFER_IND LAB ! TRANSFER_REQ # + Receive_RLC_and_REL_IND_Cause_ # Bearer_cap_not_available + Check_CIRCUIT_IDLE UTA ? MAINT_IND | 1 2 3 4 5 6 | SETUP_REQ_64kbps_unrestr IAM_64kbps_unrestr_AB REL_Bearer_cap_ not_available_BA ECD_REENABLED_cic | | (Note) |
| Detailed Comments: NOTE – This check applies to the circuits equipped with echo control. | | | | |

| Test Step Dynamic Behaviour | | | | |
|--|---|--------------------------|---|--------|
| Test Step Name: SETUP_Call_REL_Bearer_cap_not_implemented_64kbp_unrestr Group: ISUPB/TEST_STEP/Unsucc_Call_Setup/ Purpose: To verify that a call can be successfully released using cause information "bearer capability not implemented" in the release message. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| UTA ! USER_REQ | 1 | SETUP_REQ_64kbps_unrestr | | |
| LAB ? TRANSFER_IND | 2 | IAM_64kbps_unrestr_AB | | |
| LAB ! TRANSFER_REQ | | REL_Bearer_cap_ | | |
| # | 3 | not_implemented_BA | | |
| + Receive_RLC_and_REL_IND_Cause_ | | | | |
| # Bearer_cap_not_implemented | 4 | | | |
| + Check_CIRCUIT_IDLE | 5 | | | |
| UTA ? MAINT_IND | 6 | ECD_REENABLED_cic | | (Note) |
| Detailed Comments: NOTE – This check applies to the circuits equipped with echo control. | | | | |

| Test Step Dynamic Behaviour | | | | |
|--|---|---------|---|---|
| Test Step Name: Receive_REL_and_REL_IND Group: ISUPB/TEST_STEP/Various/ Purpose: To verify that an REL is sent from A to B and a release indication is given to the user. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| LAB ? TRANSFER_IND | 1 | REL_AB | | |
| UTA ? USER_IND | 2 | REL_IND | | |
| UTA ? USER_IND | 3 | REL_IND | | |
| LAB ? TRANSFER_IND | 4 | REL_AB | | |
| Detailed Comments: | | | | |

| Test Step Dynamic Behaviour | | | | |
|--|---|---------|---|---|
| Test Step Name: Receive_RLC_and_REL_IND Group: ISUPB/TEST_STEP/Various/ Purpose: To verify that an RLC is sent from A to B and a release indication is given to the user. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| LAB ? TRANSFER_IND | 1 | RLC_AB | | |
| UTA ? USER_IND | 2 | REL_IND | | |
| UTA ? USER_IND | 3 | REL_IND | | |
| LAB ? TRANSFER_IND | 4 | RLC_AB | | |
| Detailed Comments: | | | | |

| Test Step Dynamic Behaviour | | | | |
|---|---|--------------------------|---|---|
| Test Step Name: Receive_RLC_and_REL_IND_Cause_Unalloc_nr Group: ISUPB/TEST_STEP/Various/ Purpose: To verify that an RLC is sent from A to B and a release indication is given to the user. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| LAB ? TRANSFER_IND | 1 | RLC_AB | | |
| UTA ? USER_IND | 2 | REL_IND_Cause_Unalloc_nr | | |
| UTA ? USER_IND | 3 | REL_IND_Cause_Unalloc_nr | | |
| LAB ? TRANSFER_IND | 4 | RLC_AB | | |
| Detailed Comments: | | | | |

| Test Step Dynamic Behaviour | | | | |
|---|---|--------------------------|---|---|
| Test Step Name: Receive_RLC_and_REL_IND_Cause_No_circuit Group: ISUPB/TEST_STEP/Various/ Purpose: To verify that an RLC is sent from A to B and a release indication is given to the user. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| LAB ? TRANSFER_IND | 1 | RLC_AB | | |
| UTA ? USER_IND | 2 | REL_IND_Cause_No_circuit | | |
| UTA ? USER_IND | 3 | REL_IND_Cause_No_circuit | | |
| LAB ? TRANSFER_IND | 4 | RLC_AB | | |
| Detailed Comments: | | | | |

| Test Step Dynamic Behaviour | | | | |
|--|---|-------------------------------------|---|---|
| Test Step Name: Receive_RLC_and_REL_IND_Cause_Bearer_cap_not_authorized Group: ISUPB/TEST_STEP/Various/ Purpose: To verify that an RLC is sent from A to B and a release indication is given to the user. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| LAB ? TRANSFER_IND | 1 | RLC_AB | | |
| UTA ? USER_IND | 2 | REL_IND_Cause_Bearer_cap_not_author | | |
| # UTA ? USER_IND | 3 | REL_IND_Cause_Bearer_cap_not_author | | |
| # LAB ? TRANSFER_IND | 4 | RLC_AB | | |
| Detailed Comments: | | | | |

| Test Step Dynamic Behaviour | | | | |
|---|---|---------------------------------------|---|---|
| Test Step Name: Receive_RLC_and_REL_IND_Cause_Bearer_cap_not_available Group: ISUPB/TEST_STEP/Various/ Purpose: To verify that an RLC is sent from A to B and a release indication is given to the user. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| LAB ? TRANSFER_IND | 1 | RLC_AB | | |
| UTA ? USER_IND | 2 | REL_IND_Cause_Bearer cap_not_avail | | |
| UTA ? USER_IND | 3 | REL_IND_Cause_Bearer cap_not_avail | | |
| LAB ? TRANSFER_IND | 4 | RLC_AB | | |
| Detailed Comments: | | | | |

| Test Step Dynamic Behaviour | | | | |
|---|---|---------------------------------------|---|---|
| Test Step Name: Receive_RLC_and_REL_IND_Cause_Bearer_cap_not_implemented Group: ISUPB/TEST_STEP/Various/ Purpose: To verify that an RLC is sent from A to B and a release indication is given to the user. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| LAB ? TRANSFER_IND | 1 | RLC_AB | | |
| UTA ? USER_IND | 2 | REL_IND_Cause_Bearer cap_not_impl | | |
| UTA ? USER_IND | 3 | REL_IND_Cause_Bearer_ cap_not_impl | | |
| LAB ? TRANSFER_IND | 4 | RLC_AB | | |
| Detailed Comments: | | | | |

| Test Step Dynamic Behaviour | | | | |
|--|---|-------------|---|---|
| Test Step Name: Receive_RLC_cicx_and_REL_IND Group: ISUPB/TEST_STEP/Various/ Purpose: To verify that an RLC indicating CIC x is sent from A to B and a release indication is given to the user. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| LAB ? TRANSFER_IND | 1 | RLC_cicx_AB | | |
| UTA ? USER_IND | 2 | REL_IND | | |
| UTA ? USER_IND | 3 | REL_IND | | |
| LAB ? TRANSFER_IND | 4 | RLC_cicx_AB | | |
| Detailed Comments: | | | | |

| Test Step Dynamic Behaviour | | | | |
|--|---|---------------|---|---|
| Test Step Name: Receive_ACM_and_SETUP_IND Group: ISUPB/TEST_STEP/Various/ Purpose: To verify that an ACM is sent from A to B and a setup indication is given to the user. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| LAB ? TRANSFER_IND | 1 | ACM_AB | | |
| UTA ? USER_IND | 2 | SETUP_IND_any | | |
| UTA ? USER_IND | 3 | SETUP_IND_any | | |
| LAB ? TRANSFER_IND | 4 | ACM_AB | | |
| Detailed Comments: | | | | |

| Test Step Dynamic Behaviour | | | | |
|--|---|---------------------|---|---|
| Test Step Name: Receive_ACM_Echo_and_SETUP_IND Group: ISUPB/TEST_STEP/Various/ Purpose: To verify that an ACM_Echo_Control is sent from A to B and a setup indication is given to the user. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| LAB ? TRANSFER_IND | 1 | ACM_Echo_Control_AB | | |
| UTA ? USER_IND | 2 | SETUP_IND_any | | |
| UTA ? USER_IND | 3 | SETUP_IND_any | | |
| LAB ? TRANSFER_IND | 4 | ACM_Echo_Control_AB | | |
| Detailed Comments: | | | | |

| Test Step Dynamic Behaviour | | | | |
|--|---|------------------|---|---|
| Test Step Name: Receive_ACM_Free_ISDN_and_SETUP_IND Group: ISUPB/TEST_STEP/Various/ Purpose: To verify that an ACM_Free_ISDN is sent from A to B and a setup indication is given to the user. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| LAB ? TRANSFER_IND | 1 | ACM_Free_ISDN_AB | | |
| UTA ? USER_IND | 2 | SETUP_IND_any | | |
| UTA ? USER_IND | 3 | SETUP_IND_any | | |
| LAB ? TRANSFER_IND | 4 | ACM_Free_ISDN_AB | | |
| Detailed Comments: | | | | |

| Test Step Dynamic Behaviour | | | | |
|--|---|----------------------|---|---|
| Test Step Name: Receive_ACM_Free_Non_ISDN_and_SETUP_IND Group: ISUPB/TEST_STEP/Various/ Purpose: To verify that an ACM_Free_Non_ISDN is sent from A to B and a setup indication is given to the user. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| LAB ? TRANSFER_IND | 1 | ACM_Free_Non_ISDN_AB | | |
| UTA ? USER_IND | 2 | SETUP_IND_any | | |
| UTA ? USER_IND | 3 | SETUP_IND_any | | |
| LAB ? TRANSFER_IND | 4 | ACM_Free_Non_ISDN_AB | | |
| Detailed Comments: | | | | |

| Test Step Dynamic Behaviour | | | | |
|--|---|--------------------|---|---|
| Test Step Name: Receive_ACM_No_Ind_ISDN_and_SETUP_IND Group: ISUPB/TEST_STEP/Various/ Purpose: To verify that an ACM_No_Ind_ISDN is sent from A to B and a setup indication is given to the user. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| LAB ? TRANSFER_IND | 1 | ACM_No_Ind_ISDN_AB | | |
| UTA ? USER_IND | 2 | SETUP_IND_any | | |
| UTA ? USER_IND | 3 | SETUP_IND_any | | |
| LAB ? TRANSFER_IND | 4 | ACM_No_Ind_ISDN_AB | | |
| Detailed Comments: | | | | |

| Test Step Dynamic Behaviour | | | | |
|--|---|------------------------|---|---|
| Test Step Name: Receive_ACM_No_Ind_Non_ISDN_and_SETUP_IND Group: ISUPB/TEST_STEP/Various/ Purpose: To verify that an ACM_No_Ind_Non_ISDN is sent from A to B and a setup indication is given to the user. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| LAB ? TRANSFER_IND | 1 | ACM_No_Ind_Non_ISDN_AB | | |
| UTA ? USER_IND | 2 | SETUP_IND_any | | |
| UTA ? USER_IND | 3 | SETUP_IND_any | | |
| LAB ? TRANSFER_IND | 4 | ACM_No_Ind_Non_ISDN_AB | | |
| Detailed Comments: | | | | |

| Test Step Dynamic Behaviour | | | | |
|--|----|---------------|---|---|
| Test Step Name: Receive_ACM_cicx_and_SETUP_IND_and_IAM_cicy Group: ISUPB/TEST_STEP/Various/ Purpose: To verify that an ACM indicating CIC x is sent from A to B, that a setup indication is given to the user and that an IAM indicating CIC y is sent from A to B. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| LAB ? TRANSFER_IND | 1 | ACM_cicx_AB | | |
| UTA ? USER_IND | 2 | SETUP_IND_any | | |
| LAB ? TRANSFER_IND | 3 | IAM_cicy_AB | | |
| LAB ? TRANSFER_IND | 4 | IAM_cicy_AB | | |
| UTA ? USER_IND | 5 | SETUP_IND_any | | |
| UTA ? USER_IND | 6 | SETUP_IND_any | | |
| LAB ? TRANSFER_IND | 7 | ACM_cicx_AB | | |
| LAB ? TRANSFER_IND | 8 | IAM_cicy_AB | | |
| LAB ? TRANSFER_IND | 9 | IAM_cicy_AB | | |
| LAB ? TRANSFER_IND | 10 | ACM_cicx_AB | | |
| LAB ? TRANSFER_IND | 11 | IAM_cicy_AB | | |
| LAB ? TRANSFER_IND | 12 | ACM_cicx_AB | | |
| UTA ? USER_IND | 13 | SETUP_IND_any | | |
| UTA ? USER_IND | 14 | SETUP_IND_any | | |
| LAB ? TRANSFER_IND | 15 | ACM_cicx_AB | | |
| Detailed Comments: | | | | |

| Test Step Dynamic Behaviour | | | | |
|---|----|----------------------------|---|---|
| Test Step Name: Receive_ACM_cicx_and_SETUP_IND_and_IAM_cicy_64kbps_unrestr Group: ISUPB/TEST_STEP/Various/ Purpose: To verify that an ACM indicating CIC x is sent from A to B, that a setup indication is given to the user and that an IAM indicating CIC y is sent from A to B. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| LAB ? TRANSFER_IND | 1 | ACM_cicx_AB | | |
| UTA ? USER_IND | 2 | SETUP_IND_any | | |
| LAB ? TRANSFER_IND | 3 | IAM_cicy_64kbps_unrestr_AB | | |
| LAB ? TRANSFER_IND | 4 | IAM_cicy_64kbps_unrestr_AB | | |
| UTA ? USER_IND | 5 | SETUP_IND_any | | |
| UTA ? USER_IND | 6 | SETUP_IND_any | | |
| LAB ? TRANSFER_IND | 7 | ACM_cicx_AB | | |
| LAB ? TRANSFER_IND | 8 | IAM_cicy_64kbps_unrestr_AB | | |
| LAB ? TRANSFER_IND | 9 | IAM_cicy_64kbps_unrestr_AB | | |
| LAB ? TRANSFER_IND | 10 | ACM_cicx_AB | | |
| LAB ? TRANSFER_IND | 11 | IAM_cicy_64kbps_unrestr_AB | | |
| LAB ? TRANSFER_IND | 12 | ACM_cicx_AB | | |
| UTA ? USER_IND | 13 | SETUP_IND_any | | |
| UTA ? USER_IND | 14 | SETUP_IND_any | | |
| LAB ? TRANSFER_IND | 15 | ACM_cicx_AB | | |
| Detailed Comments: | | | | |

| Test Step Dynamic Behaviour | | | | |
|---|----|-------------------|---|---|
| Test Step Name: Receive_RLC_and_REL_IND_and_MaintSystem Group: ISUPB/TEST_STEP/Various/ Purpose: To verify that an RLC, an REL IND and a MaintSystem are sent from A to B. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| LAB ? TRANSFER_IND | 1 | RLC_AB | | |
| UTA ? USER_IND | 2 | REL_IND | | |
| UTA ? MAINT_IND | 3 | ALARM_MaintSystem | | |
| UTA ? MAINT_IND | 4 | ALARM_MaintSystem | | |
| UTA ? USER_IND | 5 | REL_IND | | |
| UTA ? USER_IND | 6 | REL_IND | | |
| LAB ? TRANSFER_IND | 7 | RLC_AB | | |
| UTA ? MAINT_IND | 8 | ALARM_MaintSystem | | |
| UTA ? MAINT_IND | 9 | ALARM_MaintSystem | | |
| LAB ? TRANSFER_IND | 10 | RLC_AB | | |
| UTA ? MAINT_IND | 11 | ALARM_MaintSystem | | |
| LAB ? TRANSFER_IND | 12 | RLC_AB | | |
| UTA ? USER_IND | 13 | REL_IND | | |
| UTA ? USER_IND | 14 | REL_IND | | |
| LAB ? TRANSFER_IND | 15 | RLC_AB | | |
| Detailed Comments: | | | | |

| Test Step Dynamic Behaviour | | | | |
|-----------------------------|--|-------------|---|---|
| Test Step Name: | Receive_BLA_cicx_and_REL_cicx_and_IAM_cicy_and_send_RLC_cicx | | | |
| Group: | ISUPB/TEST_STEP/Various/ | | | |
| Purpose: | To verify that a BLA indicating CIC x, an REL indicating CIC x and an IAM indicating CIC y is sent from A to B and send an RLC indicating CIC x from B to A. | | | |
| Default: | AnyOtherEventUnexpected | | | |
| Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| LAB ? TRANSFER_IND | 1 | BLA_cicx_AB | | |
| LAB ? TRANSFER_IND | 2 | REL_cicx_AB | | |
| LAB ! TRANSFER_REQ | 3 | RLC_cicx_BA | | |
| LAB ? TRANSFER_IND | 4 | IAM_cicy_AB | | |
| LAB ? TRANSFER_IND | 5 | IAM_cicy_AB | | |
| LAB ? TRANSFER_IND | 6 | REL_cicx_AB | | |
| LAB ! TRANSFER_REQ | 7 | RLC_cicx_BA | | |
| LAB ? TRANSFER_IND | 8 | IAM_cicy_AB | | |
| LAB ? TRANSFER_IND | 9 | BLA_cicx_AB | | |
| LAB ? TRANSFER_IND | 10 | REL_cicx_AB | | |
| LAB ! TRANSFER_REQ | 11 | RLC_cicx_BA | | |
| Detailed Comments: | | | | |

| Test Step Dynamic Behaviour | | | | |
|-----------------------------|---|-------------|---|---|
| Test Step Name: | Receive_RLC_cicx_and_IAM_cicy | | | |
| Group: | ISUPB/TEST_STEP/Various/ | | | |
| Purpose: | To verify that an RLC indicating CIC x and an IAM indicating CIC y is sent from A to B. | | | |
| Default: | AnyOtherEventUnexpected | | | |
| Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| LAB ? TRANSFER_IND | 1 | RLC_cicx_AB | | |
| LAB ? TRANSFER_IND | 2 | IAM_cicy_AB | | |
| LAB ? TRANSFER_IND | 3 | IAM_cicy_AB | | |
| LAB ? TRANSFER_IND | 4 | RLC_cicx_AB | | |
| Detailed Comments: | | | | |

| Test Step Dynamic Behaviour | | | | |
|---|---|-------------|---|---|
| Test Step Name: Receive_RSC_cicx_and_IAM_cicy Group: ISUPB/TEST_STEP/Various/ Purpose: To verify that an RSC indicating CIC x and an IAM indicating CIC y is sent from A to B. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| LAB ? TRANSFER_IND | 1 | RSC_cicx_AB | | |
| LAB ? TRANSFER_IND | 2 | IAM_cicy_AB | | |
| LAB ? TRANSFER_IND | 3 | IAM_cicy_AB | | |
| LAB ? TRANSFER_IND | 4 | RSC_cicx_AB | | |
| Detailed Comments: | | | | |

| Test Step Dynamic Behaviour | | | | |
|--|---|--------|---|---|
| Test Step Name: Receive_RLC_and_send_BLA Group: ISUPB/TEST_STEP/Various/ Purpose: To verify that an RLC is sent from A to B and send a BLA from B to A. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| LAB ? TRANSFER_IND | 1 | RLC_AB | | |
| LAB ! TRANSFER_REQ | 2 | BLA_BA | | |
| LAB ! TRANSFER_REQ | 3 | BLA_BA | | |
| LAB ? TRANSFER_IND | 4 | RLC_AB | | |
| Detailed Comments: | | | | |

| Test Step Dynamic Behaviour | | | | |
|---|----|--------|---|---|
| Test Step Name: Receive_REL_messages Group: ISUPB/TEST_STEP/Various/ Purpose: Receive release messages until reset circuit is received. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| ?TIMEOUT T1min (Ready_To_Receive_REL := TRUE) LAB ? TRANSFER_IND [Ready_To_Receive_REL] CANCEL T1max START T1min, START T1max (Ready_To_Receive_REL := FALSE) [NOT (Ready_To_Receive_REL)] LAB ! TRANSFER_REQ # CANCEL T1min, CANCEL T1max ?TIMEOUT T5min (Ready_To_Receive_RSC := TRUE) LAB ? TRANSFER_IND [Ready_To_Receive_RSC] CANCEL T5max (RSC_Received := TRUE) [NOT (Ready_To_Receive_RSC)] LAB ! TRANSFER_REQ # CANCEL T5min, CANCEL T5max ?TIMEOUT T1max ?TIMEOUT T5max | 1 | REL_AB | F | |
| | 2 | | | |
| | 3 | | | |
| | 4 | | | |
| | 5 | | | |
| | 6 | | | |
| | 7 | RLC_BA | | |
| | 8 | | | |
| | 9 | | | |
| | 10 | | | |
| | 11 | | | |
| | 12 | | | |
| | 13 | RSC_AB | | |
| | 14 | | | |
| | 15 | | | |
| | 16 | | | |
| | 17 | | | |
| | 18 | | | |
| | 19 | RLC_BA | | |
| | | | | |
| | | | | |
| Detailed Comments: | | | | |

| Test Step Dynamic Behaviour | | | | |
|--|---|-------------------|---|---|
| Test Step Name: Receive_BLO_and_MaintSystem_and_T13 Group: ISUPB/TEST_STEP/Various/ Purpose: Receive a blocking message, alerting of maintenance system and manipulate T13. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| LAB ? TRANSFER_IND | | BLO_AB | | |
| # START T13min, START T13max | 1 | | | |
| UTA ? MAINT_IND | 2 | ALARM_MaintSystem | | |
| ?TIMEOUT T13min CANCEL T13max | 3 | | F | |
| UTA ? MAINT_IND | 4 | ALARM_MaintSystem | | |
| LAB ? TRANSFER_IND | | BLO_AB | | |
| # START T13min, START T13max | 5 | | | |
| ?TIMEOUT T13max | 6 | | F | |
| Detailed Comments: | | | | |

| Test Step Dynamic Behaviour | | | | |
|---|---|-------------------|---|---|
| Test Step Name: Receive_UBL_and_MaintSystem_and_T15 Group: ISUPB/TEST_STEP/Various/ Purpose: Receive an unblocking message, alerting of maintenance system and manipulate T15. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| LAB ? TRANSFER_IND | | UBL_AB | | |
| # START T15min, START T15max | 1 | | | |
| UTA ? MAINT_IND | 2 | ALARM_MaintSystem | F | |
| ?TIMEOUT T15min CANCEL T15max | 3 | | | |
| UTA ? MAINT_IND | 4 | ALARM_MaintSystem | | |
| LAB ? TRANSFER_IND | | UBL_AB | | |
| # START T15min, START T15max | 5 | | | |
| ?TIMEOUT T15max | 6 | | F | |
| Detailed Comments: | | | | |

| Test Step Dynamic Behaviour | | | | |
|---|---|-------------------|---|---|
| Test Step Name: Receive_RSC_and_MaintSystem_and_T17 Group: ISUPB/TEST_STEP/Various/ Purpose: Receive a reset circuit message, alerting of maintenance system and manipulate T17. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| LAB ? TRANSFER_IND | | RSC_AB | | |
| # START T17min, START T17max | 1 | | | |
| UTA ? MAINT_IND | 2 | ALARM_MaintSystem | | |
| ?TIMEOUT T17min CANCEL T17max | 3 | | F | |
| UTA ? MAINT_IND | 4 | ALARM_MaintSystem | | |
| LAB ? TRANSFER_IND | | RSC_AB | | |
| # START T17min, START T17max | 5 | | | |
| ?TIMEOUT T17max | 6 | | F | |
| Detailed Comments: | | | | |

| Test Step Dynamic Behaviour | | | | |
|---|---|-------------------|---|---|
| Test Step Name: Receive_CGB_and_MaintSystem_and_T19 Group: ISUPB/TEST_STEP/Various/ Purpose: Receive a circuit group reset message, alerting of maintenance system and manipulate T19. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| LAB ? TRANSFER_IND | | CGB_maint_AB | | |
| # START T19min, START T19max | 1 | | | |
| UTA ? MAINT_IND | 2 | ALARM_MaintSystem | | |
| ?TIMEOUT T19min CANCEL T19max | 3 | | F | |
| UTA ? MAINT_IND | 4 | ALARM_MaintSystem | | |
| LAB ? TRANSFER_IND | | CGB_maint_AB | | |
| # START T19min, START T19max | 5 | | | |
| ?TIMEOUT T19max | 6 | | F | |
| Detailed Comments: | | | | |

| Test Step Dynamic Behaviour | | | | |
|--|---|-------------------|---|---|
| Test Step Name: Receive_CGU_and_MaintSystem_and_T21 Group: ISUPB/TEST_STEP/Various/ Purpose: Receive a circuit group unblocking message, alerting of maintenance system and manipulate T21. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| LAB ? TRANSFER_IND | | CGU_maint_AB | | |
| # START T21min, START T21max | 1 | | | |
| UTA ? MAINT_IND | 2 | ALARM_MaintSystem | | |
| ?TIMEOUT T21min CANCEL T21max | 3 | | F | |
| UTA ? MAINT_IND | 4 | ALARM_MaintSystem | | |
| LAB ? TRANSFER_IND | | CGU_maint_AB | | |
| # START T21min, START T21max | 5 | | | |
| ?TIMEOUT T21max | 6 | | F | |
| Detailed Comments: | | | | |

| Test Step Dynamic Behaviour | | | | |
|---|---|-------------------|---|---|
| Test Step Name: Receive_GRS_and_MaintSystem_and_T23 Group: ISUPB/TEST_STEP/Various/ Purpose: Receive a circuit group reset message, alerting of maintenance system and manipulate T23. Default: AnyOtherEventUnexpected Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| LAB ? TRANSFER_IND | | GRS_AB | | |
| # START T23min, START T23max | 1 | | | |
| UTA ? MAINT_IND | 2 | ALARM_MaintSystem | | |
| ?TIMEOUT T23min CANCEL T23max | 3 | | F | |
| UTA ? MAINT_IND | 4 | ALARM_MaintSystem | | |
| LAB ? TRANSFER_IND | | GRS_AB | | |
| # START T23min, START T23max | 5 | | | |
| ?TIMEOUT T23max | 6 | | F | |
| Detailed Comments: | | | | |

A.9.3 Default Dynamic Behaviour

| Default Dynamic Behaviour | | | | |
|---|---|------|---|---|
| Default Name: AnyOtherEventUnexpected Group: ISUPB/DEFAULT/ Purpose: To receive any behaviour other than expected behaviour. Comments: | | | | |
| Behaviour Description | L | Cref | V | C |
| LAB ? OTHERWISE | 1 | | F | |
| CAB ? OTHERWISE | 2 | | F | |
| UTA ? OTHERWISE | 3 | | F | |
| Detailed Comments: | | | | |