

**Integrated Services Digital Network (ISDN);  
Signalling System No.7;  
Interworking between ISDN User Part (ISUP) version 2 and  
Digital Subscriber Signalling System No. one (DSS1);  
Part 4: Abstract Test Suite (ATS) and partial Protocol  
Implementation eXtra Information for Testing (PIXIT)  
proforma specification**

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**Reference**

DEN/SPAN-130052-4

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**Keywords**

ATS, DSS1, interworking, ISUP, PIXIT, SS7

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**ETSI**

650 Route des Lucioles  
F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C  
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## Foreword

This European Standard (Telecommunications series) has been produced by ETSI Technical Committee Services and Protocols for Advanced Networks (SPAN), and is now submitted for the Vote phase of the ETSI standards Two-step Approval Procedure.

The present document is part 4 of a multi-part deliverable covering Integrated Services Digital Network (ISDN); Signalling System No.7; Interworking between ISDN User Part (ISUP) version 2 and Digital Subscriber Signalling System No. one (DSS1), as identified below:

- Part 1: "Protocol specification [ITU-T Recommendation Q.699, modified]";
- Part 2: "Protocol Implementation Conformance Statement (PICS) proforma specification";
- Part 3: "Test Suite Structure and Test Purposes (TSS&TP) specification";
- Part 4: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification".**

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

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# 1 Scope

The present document specifies the network Abstract Test Suite (ATS) for the interworking between ISDN [13] and non-ISDN access and the ISDN User Part functions and protocol of Signalling System No. 7 [2] to [5]. The interworking between the above signalling protocols is described in EN 300 899-1 [1] and occurs in an exchange with ISDN local exchange functionality and is specified in the context of a typical call in a pure ISDN or mixed ISDN/non-ISDN environment. The non-ISDN access defined in the present document means the analogue line access. The present document applies only to exchanges having implemented the ISUP V2 protocol specification.

A further part of the present document specifies the Test Suite Structure and Test Purposes (TSS&TP) related to this ATS and partial PIXIT proforma.

---

# 2 References

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

- References are either specific (identified by date of publication and/or edition number or version number) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies.

- [1] ETSI EN 300 899-1: "Integrated Services Digital Network (ISDN); Signalling System No.7; Interworking between ISDN User Part (ISUP) version 2 and Digital Subscriber Signalling System No. one (DSS1); Part 1: Protocol specification [ITU-T Recommendation Q.699, modified]".
- [2] ITU-T Recommendation Q.761: "Signalling System No. 7 - ISDN User Part functional description".
- [3] ITU-T Recommendation Q.762: "Signalling System No. 7 - ISDN User Part general functions of messages and signals".
- [4] ITU-T Recommendation Q.763: "Signalling System No. 7 - ISDN User Part formats and codes".
- [5] ITU-T Recommendation Q.764: "Signalling System No. 7 - ISDN User Part signalling procedures".
- [6] ISO/IEC 9646-1: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 1: General concepts".
- [7] ISO/IEC 9646-2: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 2: Abstract test suite specification".
- [8] ISO/IEC 9646-3: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 3: The Tree and Tabular Combined Notation (TTCN)".
- [9] ISO/IEC 9646-5: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 5: Requirements on test laboratories and clients for the conformance assessment process".
- [10] ISO/IEC 9646-7: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance Statements".
- [11] ITU-T Recommendation E.164: "The international public telecommunication numbering plan".
- [12] ISO/IEC 9646-4: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 4: Test realization".

- [13] ITU-T Recommendation Q.931: "ISDN user-network interface layer 3 specification for basic call control".
- [14] ITU-T Recommendation Q.699: "Interworking between ISDN access and non-ISDN access over ISDN User Part of Signalling System No. 7".
- [15] ETSI EN 300 899-3: "Integrated Services Digital Network (ISDN); Signalling System No.7; Interworking between ISDN User Part (ISUP) version 2 and Digital Subscriber Signalling System No. one (DSS1); Part 3: Test Suite Structure and Test Purposes (TSS&TP) specification".

---

## 3 Definitions and abbreviations

### 3.1 Definitions

For the purposes of the present document, the terms and definitions given in:

- ISDN/ISUP interworking reference specification [14];
- ISDN layer 3 reference specification [13];
- ISDN User Part (ISUP) reference specification [2] to [5];
- ISO/IEC 9646-1 [6], ISO/IEC 9646-3 [8] and in ISO/IEC 9646-7 [10];

and the following apply:

**Abstract Test Case (ATC):** complete and independent specification of the actions required to achieve a specific test purpose, defined at the level of abstraction of a particular Abstract Test Method, starting in a stable testing state and ending in a stable testing state (see ISO/IEC 9646-1, clause 3.3.3)

**Abstract Test Method (ATM):** description of how an IUT is to be tested, given at an appropriate level of abstraction to make the description independent of any particular realization of a Means of Testing, but with enough detail to enable abstract test cases to be specified for this method (see ISO/IEC 9646-1, clause 3.3.5)

**Abstract Test Suite (ATS):** test suite composed of abstract test cases (see ISO/IEC 9646-1, clause 3.3.6)

**Implementation Under Test (IUT):** implementation of one or more OSI protocols in an adjacent user/provider relationship, being part of a real open system which is to be studied by testing (see ISO/IEC 9646-1, clause 3.3.43)

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

**Means of Testing (MOT):** combination of equipment and procedures that can perform the derivation, selection, parameterization and execution of test cases, in conformance with a reference standardized ATS, and can produce a conformance log (see ISO/IEC 9646-1, clause 3.3.54)

**PICS proforma:** document, in the form of a questionnaire, which when completed for an implementation or system becomes the PICS

**PIXIT proforma:** document, in the form of a questionnaire, which when completed for the IUT becomes the PIXIT

**Point of Control and Observation:** point within a testing environment where the occurrence of test events is to be controlled and observed, as defined in an Abstract Test Method (see ISO/IEC 9646-1, clause 3.3.64)

**Pre-test condition:** setting or state in the IUT which cannot be achieved by providing stimulus from the test environment

**Protocol Implementation Conformance Statement (PICS):** statement made by the supplier of a protocol claimed to conform to a given specification, stating which capabilities have been implemented (see ISO/IEC 9646-1, clause 3.3.39 and clause 3.3.80)



**Protocol Implementation eXtra Information for Testing (PIXIT):** statement made by a supplier or implementor of an IUT (protocol) which contains or references all of the information related to the IUT and its testing environment, which will enable the test laboratory to run an appropriate test suite against the IUT (see ISO/IEC 9646-1, clause 3.3.41 and clause 3.3.81)

**System Under Test (SUT):** real open system in which the IUT resides (see ISO/IEC 9646-1, clause 3.3.103)

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

## 3.2 Abbreviations

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

|        |                                                       |
|--------|-------------------------------------------------------|
| ATC    | Abstract Test Case                                    |
| ATM    | Abstract Test Method                                  |
| ATS    | Abstract Test Suite                                   |
| CIC    | Circuit Identification Code                           |
| DSS1   | Digital Subscriber System No. 1                       |
| HLC    | High Layer Compatibility                              |
| ISDN   | Integrated Services Digital Network                   |
| ISUP   | ISDN User Part                                        |
| IUT    | Implementation Under Test                             |
| LLC    | Low Layer Compatibility                               |
| LT     | Lower Tester                                          |
| MMI    | Man Machine Interface                                 |
| MOT    | Means Of Testing                                      |
| MTC    | Main Test Component                                   |
| NCI    | Nature of Connection Indicators                       |
| NNI    | Network-Network Interface                             |
| OBCI   | Optional Backward Call Indicators                     |
| PCO    | Point of Control and Observation                      |
| PCTR   | Protocol Conformance Test Report                      |
| PDU    | Protocol Data Unit                                    |
| PICS   | Protocol Implementation Conformance Statement         |
| PIXIT  | Protocol Implementation eXtra Information for Testing |
| SCS    | System Conformance Statement                          |
| SP     | Signalling Point                                      |
| SUT    | System Under Test                                     |
| TMR    | Transmission Medium Requirement                       |
| TP     | Test Purpose                                          |
| TSS&TP | Test Suite Structure and Test Purposes                |
| TSS    | Test Suite Structure                                  |
| TTCN   | Tree and Tabular Combined Notation                    |
| UNI    | User-Network Interface                                |

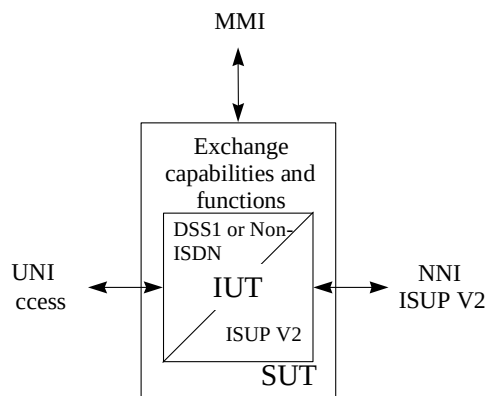
NOTE: The ISUP message acronyms can be found in table 2/ITU-T Recommendation Q.762 [3].

---

## 4 Abstract Test Method

### 4.1 Identification of the system and implementation under test

The system under test (SUT) is a local exchange where calls originate and terminate.



**Figure 1: Exchange as SUT**

The implementation under test (IUT) is the interworking implementation between the ISDN access or non-ISDN access signalling system and the ISUP V2 in this exchange, as shown in figure 1.

Circuit supervision is done mainly through the MMI (man machine interface) of the exchange. The MMI interface is implementation dependent and thus not standardized.

The effects of ISDN access signalling procedures can be observed on the D-channel on the UNI (user-network interface). The ISUP signalling protocol can be observed on the SS No. 7 link on the network-network interface (NNI).

## 4.2 ATM and testing configuration

The Abstract Test Method (ATM) chosen for this testing specification is the distributed multiparty test method. The ATM is defined at an appropriate level of abstraction so that the test cases may be specified appropriately, without adding restrictions to the implementation under test. The testing architectures are described in the following clauses.

The ATS is written in concurrent TTCN.

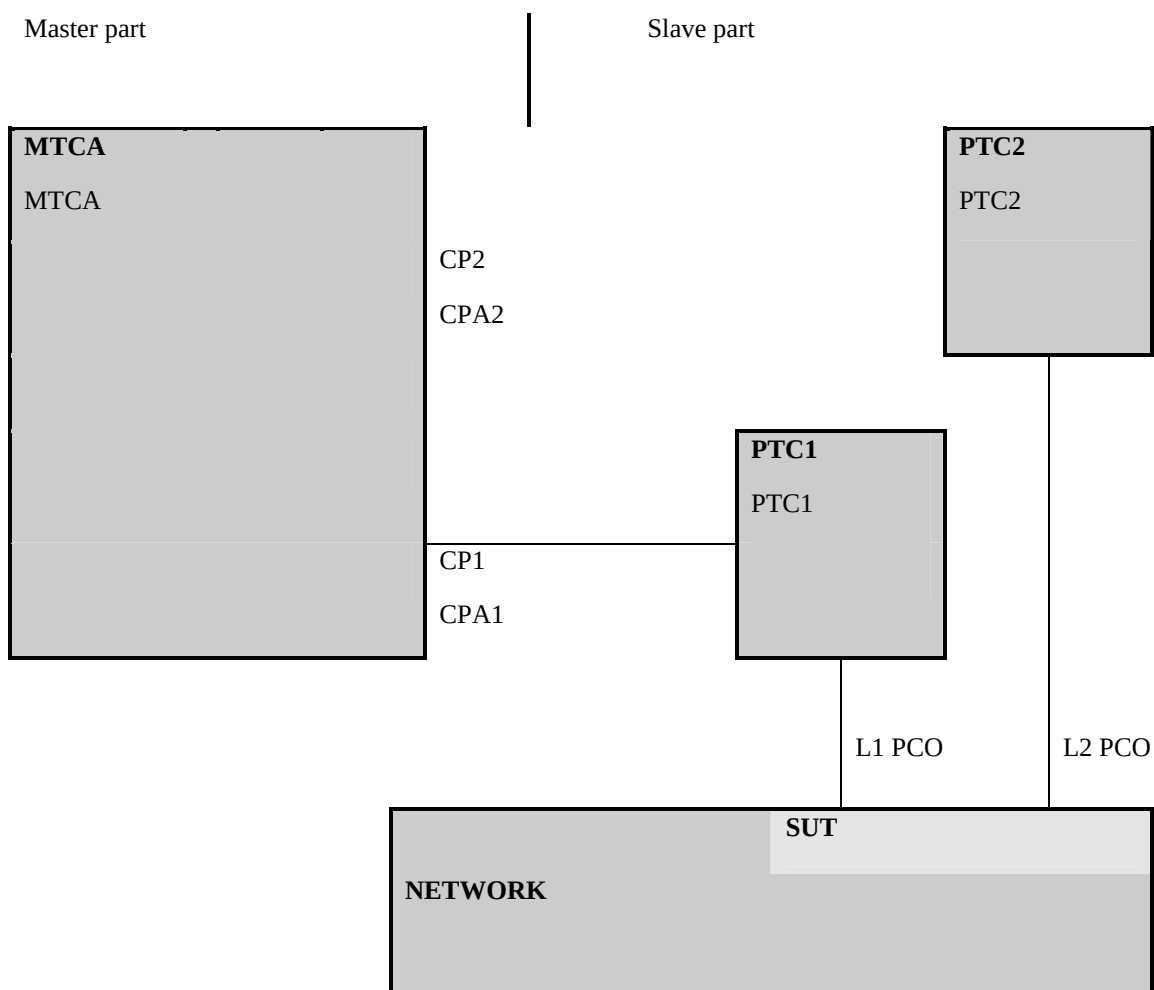
### 4.2.1 Test method

The requirement for testing the network SUT is to focus on both the behaviour of the network SUT at the user-network interface where a T reference point or coincident S and T reference point applies and on the behaviour of the ISUP circuit at the network-network interface.

It is possible to specify an ATS based on a Single party (remote) test method for such a SUT. However, it is considered that an ATS based on such an approach is of limited use as the only way to specify SUT generated PDUs is to use the "implicit send" statement. Many users of such an ATS would replace the "implicit send" statements with descriptions of the behaviour at other interfaces.

An ATS based on a multi-party test method is considered to be more useful in that it is closer to how a real test suite would be constructed. Such a test method specifies behaviour at multiple network interfaces. The test system is made up of one Main Test Component (MTC) and one or more Parallel Test Components (PTC), see figure 2.

To observe the mapping between DSS 1 layer 3 parameters and information elements and ISUP parameters and indicators, as defined in EN 300 899-1 [1], for each side a Point of Control and Observation (PCO) is needed. The PCO used by the LT to control the ISDN signalling is abbreviated with 'L1'; the ISUP signalling link is abbreviated with 'L2'. The ISDN and the ISUP PDUs to be sent and observed on the L1 and the L2 PCO side allow for PDU constraints to be specified and coded down to the bit level.



**Figure 2: Test method**

As EN 300 899-1 [1] focuses on the mapping between DSS 1 layer 3 parameters and information elements and ISUP parameters and indicators, no PCO for traffic channel functionality such as connectivity, tones and announcements is used in this testing recommendation.

In a master/slave arrangement, the MTC is considered to be the master while the PTCs are the slaves. The MTC MTCA has only one function in this configuration. It has the pure MTC function of controlling the two or more PTCs. Thus it is responsible for starting the PTCs and afterwards coordinates activities by exchanging Coordination Messages (CM) with the PTCs.

The "slave" testers are an explicit description of how to deal with the user-network and the network-network interfaces during the testing process, i.e. "how to make the SUT send the required message".

## 5 Untestable test purposes

The test purposes of the two test groups:

- Interworking from Non-ISDN access to ISUP (outgoing call), TP20xxxx;
- Interworking from ISUP to Non-ISDN access (incoming call), TP40xxxx;

have not been converted into TTCN code, as the behaviour of the non-ISDN part cannot be coded properly in TTCN, when using a test method as described above.

The test purposes of the two test groups:

- DSS1 Data link reset and Data Link failure procedures (outgoing call), TP111xxx;
- DSS1 Data link reset and Data Link failure procedures (incoming call), TP311xxx;

have not been converted into TTCN code, as the behaviour of the data link cannot be coded properly in TTCN, when using a test method as described in clause 4.2.1.

---

## 6 ATS to TP map

The identifiers used for the TPs (see EN 300 899-3 [15]) are reused as test case names. Thus there is a straightforward one-to-one mapping.

---

## 7 PCTR conformance

A test laboratory, when requested by a client to produce a PCTR, is required, as specified in ISO/IEC 9646-5 [9], to produce a PCTR conformant with the PCTR template given in annex B of ISO/IEC 9646-5 [9].

Furthermore, a test laboratory, offering testing for the ATS specification contained in annex C, when requested by a client to produce a PCTR, is required to produce a PCTR conformant with the PCTR proforma contained in annex A of the present document.

A PCTR which conforms to this PCTR proforma specification shall preserve the content and ordering of the clauses contained in annex A. Clause A.6 of the PCTR may contain additional columns. If included, these shall be placed to the right of the existing columns. Text in italics may be retained by the test laboratory.

---

## 8 PIXIT conformance

A test realizer, producing an executable test suite for the Abstract Test Suite (ATS) specification contained in annex C, is required, as specified in ISO/IEC 9646-4 [12], to produce an augmented partial PIXIT proforma conformant with this partial PIXIT proforma specification.

An augmented partial PIXIT proforma which conforms to this partial PIXIT proforma specification shall, as a minimum, have contents which are technically equivalent to annex B. The augmented partial PIXIT proforma may contain additional questions that need to be answered in order to prepare the Means Of Testing (MOT) for a particular Implementation Under Test (IUT).

A test laboratory, offering testing for the ATS specification contained in annex C, is required, as specified in ISO/IEC 9646-5 [9], to further augment the augmented partial PIXIT proforma to produce a PIXIT proforma conformant with this partial PIXIT proforma specification.

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

---

## 9 ATS conformance

The test realizer producing a Means Of Testing (MOT) and Executable Test Suite (ExTS) for this Abstract Test Suite (ATS) specification shall comply with the requirements of ISO/IEC 9646-4 [12]. In particular, these concern the realization of an ExTS based on each ATS. The test realizer shall provide a statement of conformance of the MOT to this ATS specification.

An ExTS which conforms to this ATS specification shall contain test groups and test cases which are technically equivalent to those contained in the ATS in annex C. All sequences of test events comprising an abstract test case shall be capable of being realized in the executable test case. Any further checking which the test system might be capable of performing is outside the scope of this ATS specification and shall not contribute to the verdict assignment for each test case.

Test laboratories running conformance test services using this ATS shall comply with ISO/IEC 9646-5 [9].

A test laboratory which claims to conform to this ATS specification shall use an MOT which conforms to this ATS.

## Annex A (normative):

### Protocol Conformance Test Report (PCTR) proforma

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

## A.1 Identification summary

### A.1.1 Protocol conformance test report

|                                 |  |
|---------------------------------|--|
| PCTR number:                    |  |
| PCTR Date:                      |  |
| Corresponding SCTR number:      |  |
| Corresponding SCTR date:        |  |
| Test Laboratory identification: |  |
| Test Laboratory Manager:        |  |
| Signature:                      |  |

### A.1.2 IUT identification

|                          |              |
|--------------------------|--------------|
| Name:                    |              |
| Version:                 |              |
| Protocol specification:  | EN 300 899-1 |
| PICS:                    |              |
| Previous PCTRs (if any): |              |

### A.1.3 Testing environment

|                                      |                                              |
|--------------------------------------|----------------------------------------------|
| PIXIT Reference number:              |                                              |
| ATS Specification:                   | EN 300 899-4                                 |
| Abstract Test Method:                | Multi-Party test method (see ISO/IEC 9646-2) |
| Means of Testing identification:     |                                              |
| Dates of testing:                    |                                              |
| Conformance Log reference(s):        |                                              |
| Retention Date for Log reference(s): |                                              |

## A.1.4 Limits and reservations

*Additional information relevant to the technical contents or further use of the test report, or to the rights and obligations of the test laboratory and the client, may be given here. Such information may include restriction on the publication of the report.*

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## A.1.5 Comments

*Additional comments may be given by either the client or the test laboratory on any of the contents of the PCTR, for example, to note disagreement between the two parties.*

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## A.2 IUT Conformance status

This IUT has or has not been shown by conformance assessment to be non-conforming to the specified protocol specification.

*Strike the appropriate words in this sentence. If the PICS for this IUT is consistent with the static conformance requirements (as specified in clause A.3 of the present document) and there are no "FAIL" verdicts to be recorded (in clause A.6) strike the words "has or", otherwise strike the words "or has not".*

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## A.3 Static conformance summary

The PICS for this IUT is or is not consistent with the static conformance requirements in the specified protocol.

*Strike the appropriate words in this sentence.*

## A.4 Dynamic conformance summary

The test campaign did or did not reveal errors in the IUT.

*Strike out the appropriate words in this sentence. If there are no "FAIL" verdicts to be recorded (in clause A.6 of EN 300 899-4) strike the words "did or", otherwise strike the words "or did not".*

Summary of the results of groups of tests:

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## A.5 Static conformance review report

*If clause A.3 indicates non-conformance, this clause itemizes the mismatches between the PICS and the static conformance requirements of the specified protocol specification.*

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## A.6 Test campaign report

| ATS Reference              | Selected?<br>(Y/N) | Run?<br>(Y/N) | Verdict | Observations |
|----------------------------|--------------------|---------------|---------|--------------|
| ATS Interworking_ISDN_ISUP |                    |               |         |              |
| TC101001                   |                    |               |         |              |
| TC101002                   |                    |               |         |              |
| TC101003                   |                    |               |         |              |
| TC101004                   |                    |               |         |              |
| TC101005_01                |                    |               |         |              |
| TC101005_02                |                    |               |         |              |
| TC101005_03                |                    |               |         |              |
| TC101005_04                |                    |               |         |              |
| TC101005_05                |                    |               |         |              |
| TC101005_06                |                    |               |         |              |
| TC101005_07                |                    |               |         |              |
| TC101005_08                |                    |               |         |              |
| TC101005_09                |                    |               |         |              |
| TC101005_10                |                    |               |         |              |
| TC101005_11                |                    |               |         |              |
| TC101005_12                |                    |               |         |              |
| TC101005_13                |                    |               |         |              |
| TC101005_14                |                    |               |         |              |
| TC101005_15                |                    |               |         |              |
| TC101005_16                |                    |               |         |              |



| ATS Reference | Selected?<br>(Y/N) | Run?<br>(Y/N) | Verdict | Observations |
|---------------|--------------------|---------------|---------|--------------|
| TC101005_17   |                    |               |         |              |
| TC101005_18   |                    |               |         |              |
| TC101006      |                    |               |         |              |
| TC101007      |                    |               |         |              |
| TC101008      |                    |               |         |              |
| TC101009      |                    |               |         |              |
| TC101010      |                    |               |         |              |
| TC101011      |                    |               |         |              |
| TC101012_01   |                    |               |         |              |
| TC101012_02   |                    |               |         |              |
| TC101014_01   |                    |               |         |              |
| TC101014_02   |                    |               |         |              |
| TC101014_03   |                    |               |         |              |
| TC101014_04   |                    |               |         |              |
| TC101014_05   |                    |               |         |              |
| TC101014_06   |                    |               |         |              |
| TC101014_07   |                    |               |         |              |
| TC101014_08   |                    |               |         |              |
| TC101014_09   |                    |               |         |              |
| TC101014_10   |                    |               |         |              |
| TC101014_11   |                    |               |         |              |
| TC101014_12   |                    |               |         |              |
| TC101015      |                    |               |         |              |
| TC101016      |                    |               |         |              |
| TC101017      |                    |               |         |              |
| TC101018      |                    |               |         |              |
| TC101019      |                    |               |         |              |
| TC101020      |                    |               |         |              |
| TC101021      |                    |               |         |              |
| TC101022      |                    |               |         |              |
| TC101023      |                    |               |         |              |
| TC101024      |                    |               |         |              |
| TC101025      |                    |               |         |              |
| TC101026      |                    |               |         |              |
| TC101027      |                    |               |         |              |
| TC102001      |                    |               |         |              |
| TC102002      |                    |               |         |              |
| TC103001      |                    |               |         |              |
| TC103002      |                    |               |         |              |
| TC103003      |                    |               |         |              |
| TC103004      |                    |               |         |              |
| TC103005      |                    |               |         |              |
| TC103006      |                    |               |         |              |
| TC103007      |                    |               |         |              |
| TC103008_01   |                    |               |         |              |
| TC103008_02   |                    |               |         |              |
| TC103008_03   |                    |               |         |              |
| TC103008_04   |                    |               |         |              |
| TC103008_05   |                    |               |         |              |
| TC103009      |                    |               |         |              |
| TC103010      |                    |               |         |              |
| TC103011      |                    |               |         |              |
| TC103012      |                    |               |         |              |
| TC103013      |                    |               |         |              |
| TC103014      |                    |               |         |              |
| TC103015      |                    |               |         |              |
| TC103016      |                    |               |         |              |

| ATS Reference | Selected?<br>(Y/N) | Run?<br>(Y/N) | Verdict | Observations |
|---------------|--------------------|---------------|---------|--------------|
| TC103017_01   |                    |               |         |              |
| TC103017_02   |                    |               |         |              |
| TC103017_03   |                    |               |         |              |
| TC103017_04   |                    |               |         |              |
| TC103017_05   |                    |               |         |              |
| TC103018      |                    |               |         |              |
| TC103019_01   |                    |               |         |              |
| TC103019_02   |                    |               |         |              |
| TC103019_03   |                    |               |         |              |
| TC103019_04   |                    |               |         |              |
| TC103019_05   |                    |               |         |              |
| TC103019_06   |                    |               |         |              |
| TC103020_01   |                    |               |         |              |
| TC103020_02   |                    |               |         |              |
| TC103020_03   |                    |               |         |              |
| TC103020_04   |                    |               |         |              |
| TC103020_05   |                    |               |         |              |
| TC103020_06   |                    |               |         |              |
| TC103021_01   |                    |               |         |              |
| TC103021_02   |                    |               |         |              |
| TC103021_03   |                    |               |         |              |
| TC103021_04   |                    |               |         |              |
| TC103021_05   |                    |               |         |              |
| TC103021_06   |                    |               |         |              |
| TC103022_01   |                    |               |         |              |
| TC103022_02   |                    |               |         |              |
| TC103022_03   |                    |               |         |              |
| TC103022_04   |                    |               |         |              |
| TC103022_05   |                    |               |         |              |
| TC103022_06   |                    |               |         |              |
| TC103023      |                    |               |         |              |
| TC103024      |                    |               |         |              |
| TC103025      |                    |               |         |              |
| TC103026      |                    |               |         |              |
| TC103028      |                    |               |         |              |
| TC103030      |                    |               |         |              |
| TC103032      |                    |               |         |              |
| TC103033      |                    |               |         |              |
| TC104001      |                    |               |         |              |
| TC104002      |                    |               |         |              |
| TC104003      |                    |               |         |              |
| TC104004      |                    |               |         |              |
| TC104007_01   |                    |               |         |              |
| TC104007_02   |                    |               |         |              |
| TC104007_03   |                    |               |         |              |
| TC104007_04   |                    |               |         |              |
| TC104007_05   |                    |               |         |              |
| TC104007_06   |                    |               |         |              |
| TC104008_01   |                    |               |         |              |
| TC104008_02   |                    |               |         |              |
| TC104008_03   |                    |               |         |              |
| TC104008_04   |                    |               |         |              |
| TC104008_05   |                    |               |         |              |
| TC104009_01   |                    |               |         |              |
| TC104009_02   |                    |               |         |              |
| TC104009_03   |                    |               |         |              |
| TC104010_01   |                    |               |         |              |

| ATS Reference | Selected?<br>(Y/N) | Run?<br>(Y/N) | Verdict | Observations |
|---------------|--------------------|---------------|---------|--------------|
| TC104010_02   |                    |               |         |              |
| TC104010_03   |                    |               |         |              |
| TC104011_01   |                    |               |         |              |
| TC104011_02   |                    |               |         |              |
| TC104011_03   |                    |               |         |              |
| TC104011_04   |                    |               |         |              |
| TC104012_01   |                    |               |         |              |
| TC104012_02   |                    |               |         |              |
| TC104012_03   |                    |               |         |              |
| TC104012_04   |                    |               |         |              |
| TC104013_01   |                    |               |         |              |
| TC104013_02   |                    |               |         |              |
| TC104013_03   |                    |               |         |              |
| TC104013_04   |                    |               |         |              |
| TC104013_05   |                    |               |         |              |
| TC104013_06   |                    |               |         |              |
| TC104014_01   |                    |               |         |              |
| TC104014_02   |                    |               |         |              |
| TC104014_03   |                    |               |         |              |
| TC104014_04   |                    |               |         |              |
| TC104014_05   |                    |               |         |              |
| TC104014_06   |                    |               |         |              |
| TC104015_01   |                    |               |         |              |
| TC104015_02   |                    |               |         |              |
| TC104015_03   |                    |               |         |              |
| TC104015_04   |                    |               |         |              |
| TC104015_05   |                    |               |         |              |
| TC104015_06   |                    |               |         |              |
| TC104016      |                    |               |         |              |
| TC104017      |                    |               |         |              |
| TC104018      |                    |               |         |              |
| TC104022      |                    |               |         |              |
| TC104023      |                    |               |         |              |
| TC104025      |                    |               |         |              |
| TC104026      |                    |               |         |              |
| TC104027_01   |                    |               |         |              |
| TC104027_02   |                    |               |         |              |
| TC105001      |                    |               |         |              |
| TC105002      |                    |               |         |              |
| TC105003      |                    |               |         |              |
| TC105004      |                    |               |         |              |
| TC105005_01   |                    |               |         |              |
| TC105005_02   |                    |               |         |              |
| TC105006_01   |                    |               |         |              |
| TC105006_02   |                    |               |         |              |
| TC105007      |                    |               |         |              |
| TC105008      |                    |               |         |              |
| TC105009_01   |                    |               |         |              |
| TC105009_02   |                    |               |         |              |
| TC105010_01   |                    |               |         |              |
| TC105010_02   |                    |               |         |              |
| TC105011_01   |                    |               |         |              |
| TC105011_02   |                    |               |         |              |
| TC105011_03   |                    |               |         |              |
| TC105011_04   |                    |               |         |              |
| TC105012_01   |                    |               |         |              |
| TC105012_02   |                    |               |         |              |

| ATS Reference | Selected?<br>(Y/N) | Run?<br>(Y/N) | Verdict | Observations |
|---------------|--------------------|---------------|---------|--------------|
| TC105012_03   |                    |               |         |              |
| TC105012_04   |                    |               |         |              |
| TC105013      |                    |               |         |              |
| TC105014      |                    |               |         |              |
| TC105015      |                    |               |         |              |
| TC105016      |                    |               |         |              |
| TC105017      |                    |               |         |              |
| TC105018      |                    |               |         |              |
| TC105019      |                    |               |         |              |
| TC105020      |                    |               |         |              |
| TC105021      |                    |               |         |              |
| TC105022      |                    |               |         |              |
| TC105023_01   |                    |               |         |              |
| TC105023_02   |                    |               |         |              |
| TC105023_03   |                    |               |         |              |
| TC105023_04   |                    |               |         |              |
| TC105024_01   |                    |               |         |              |
| TC105024_02   |                    |               |         |              |
| TC105024_03   |                    |               |         |              |
| TC105024_04   |                    |               |         |              |
| TC106001      |                    |               |         |              |
| TC106002      |                    |               |         |              |
| TC106003      |                    |               |         |              |
| TC106004      |                    |               |         |              |
| TC106005      |                    |               |         |              |
| TC106006      |                    |               |         |              |
| TC106007_01   |                    |               |         |              |
| TC106007_02   |                    |               |         |              |
| TC106008_01   |                    |               |         |              |
| TC106008_02   |                    |               |         |              |
| TC106009_01   |                    |               |         |              |
| TC106009_02   |                    |               |         |              |
| TC106009_03   |                    |               |         |              |
| TC106009_04   |                    |               |         |              |
| TC106010_01   |                    |               |         |              |
| TC106010_02   |                    |               |         |              |
| TC106010_03   |                    |               |         |              |
| TC106010_04   |                    |               |         |              |
| TC106011_01   |                    |               |         |              |
| TC106011_02   |                    |               |         |              |
| TC106011_03   |                    |               |         |              |
| TC106011_04   |                    |               |         |              |
| TC106012_01   |                    |               |         |              |
| TC106012_02   |                    |               |         |              |
| TC106012_03   |                    |               |         |              |
| TC106012_04   |                    |               |         |              |
| TC106013      |                    |               |         |              |
| TC106014      |                    |               |         |              |
| TC106015      |                    |               |         |              |
| TC106016      |                    |               |         |              |
| TC106017      |                    |               |         |              |
| TC106018      |                    |               |         |              |
| TC106019      |                    |               |         |              |
| TC106020      |                    |               |         |              |
| TC107001      |                    |               |         |              |
| TC107002      |                    |               |         |              |
| TC107003      |                    |               |         |              |

| ATS Reference | Selected?<br>(Y/N) | Run?<br>(Y/N) | Verdict | Observations |
|---------------|--------------------|---------------|---------|--------------|
| TC107004      |                    |               |         |              |
| TC107005      |                    |               |         |              |
| TC107006      |                    |               |         |              |
| TC107007      |                    |               |         |              |
| TC107008      |                    |               |         |              |
| TC107009      |                    |               |         |              |
| TC107010      |                    |               |         |              |
| TC107011      |                    |               |         |              |
| TC107012      |                    |               |         |              |
| TC107013      |                    |               |         |              |
| TC107014      |                    |               |         |              |
| TC107015      |                    |               |         |              |
| TC107016      |                    |               |         |              |
| TC107017      |                    |               |         |              |
| TC107018      |                    |               |         |              |
| TC107019      |                    |               |         |              |
| TC107020      |                    |               |         |              |
| TC107021      |                    |               |         |              |
| TC107022      |                    |               |         |              |
| TC108011      |                    |               |         |              |
| TC108012      |                    |               |         |              |
| TC108013      |                    |               |         |              |
| TC108014      |                    |               |         |              |
| TC108015      |                    |               |         |              |
| TC108016      |                    |               |         |              |
| TC108021      |                    |               |         |              |
| TC108022      |                    |               |         |              |
| TC108023      |                    |               |         |              |
| TC108024      |                    |               |         |              |
| TC108025      |                    |               |         |              |
| TC108026      |                    |               |         |              |
| TC108031      |                    |               |         |              |
| TC108032      |                    |               |         |              |
| TC108033      |                    |               |         |              |
| TC108034      |                    |               |         |              |
| TC108035      |                    |               |         |              |
| TC108036      |                    |               |         |              |
| TC108041      |                    |               |         |              |
| TC108042      |                    |               |         |              |
| TC108043      |                    |               |         |              |
| TC108044      |                    |               |         |              |
| TC108045      |                    |               |         |              |
| TC108046      |                    |               |         |              |
| TC108051      |                    |               |         |              |
| TC108052      |                    |               |         |              |
| TC108053      |                    |               |         |              |
| TC108054      |                    |               |         |              |
| TC108055      |                    |               |         |              |
| TC108056      |                    |               |         |              |
| TC108061      |                    |               |         |              |
| TC108062      |                    |               |         |              |
| TC108063      |                    |               |         |              |
| TC108064      |                    |               |         |              |
| TC108065      |                    |               |         |              |
| TC108066      |                    |               |         |              |
| TC108071      |                    |               |         |              |
| TC108072      |                    |               |         |              |

| ATS Reference | Selected?<br>(Y/N) | Run?<br>(Y/N) | Verdict | Observations |
|---------------|--------------------|---------------|---------|--------------|
| TC108073      |                    |               |         |              |
| TC108074      |                    |               |         |              |
| TC108075      |                    |               |         |              |
| TC108076      |                    |               |         |              |
| TC108081      |                    |               |         |              |
| TC108082      |                    |               |         |              |
| TC108083      |                    |               |         |              |
| TC108084      |                    |               |         |              |
| TC108085      |                    |               |         |              |
| TC108086      |                    |               |         |              |
| TC108091      |                    |               |         |              |
| TC108092      |                    |               |         |              |
| TC108093      |                    |               |         |              |
| TC108094      |                    |               |         |              |
| TC108095      |                    |               |         |              |
| TC108096      |                    |               |         |              |
| TC108101      |                    |               |         |              |
| TC108102      |                    |               |         |              |
| TC108103      |                    |               |         |              |
| TC108111      |                    |               |         |              |
| TC108112      |                    |               |         |              |
| TC108113      |                    |               |         |              |
| TC108114      |                    |               |         |              |
| TC108115      |                    |               |         |              |
| TC108116      |                    |               |         |              |
| TC108121      |                    |               |         |              |
| TC108122      |                    |               |         |              |
| TC108123      |                    |               |         |              |
| TC109001      |                    |               |         |              |
| TC109002      |                    |               |         |              |
| TC109003      |                    |               |         |              |
| TC109004      |                    |               |         |              |
| TC109005      |                    |               |         |              |
| TC109006      |                    |               |         |              |
| TC109007      |                    |               |         |              |
| TC109008      |                    |               |         |              |
| TC109009      |                    |               |         |              |
| TC109010      |                    |               |         |              |
| TC109011      |                    |               |         |              |
| TC109012      |                    |               |         |              |
| TC109013      |                    |               |         |              |
| TC109014      |                    |               |         |              |
| TC109015      |                    |               |         |              |
| TC112001      |                    |               |         |              |
| TC113001      |                    |               |         |              |
| TC114001      |                    |               |         |              |
| TC115001      |                    |               |         |              |
| TC115002      |                    |               |         |              |
| TC115003      |                    |               |         |              |
| TC115004      |                    |               |         |              |
| TC115005      |                    |               |         |              |
| TC115006      |                    |               |         |              |
| TC115007      |                    |               |         |              |
| TC115008      |                    |               |         |              |
| TC115009      |                    |               |         |              |
| TC115010      |                    |               |         |              |
| TC115011      |                    |               |         |              |

| ATS Reference | Selected?<br>(Y/N) | Run?<br>(Y/N) | Verdict | Observations |
|---------------|--------------------|---------------|---------|--------------|
| TC115012      |                    |               |         |              |
| TC115013      |                    |               |         |              |
| TC301001      |                    |               |         |              |
| TC301002      |                    |               |         |              |
| TC301003      |                    |               |         |              |
| TC301004      |                    |               |         |              |
| TC301005      |                    |               |         |              |
| TC301006      |                    |               |         |              |
| TC301007      |                    |               |         |              |
| TC301008      |                    |               |         |              |
| TC301009      |                    |               |         |              |
| TC301011      |                    |               |         |              |
| TC301012      |                    |               |         |              |
| TC301013      |                    |               |         |              |
| TC301014      |                    |               |         |              |
| TC301015      |                    |               |         |              |
| TC301016      |                    |               |         |              |
| TC302001      |                    |               |         |              |
| TC303001      |                    |               |         |              |
| TC303002      |                    |               |         |              |
| TC303003      |                    |               |         |              |
| TC303004      |                    |               |         |              |
| TC303005_01   |                    |               |         |              |
| TC303005_02   |                    |               |         |              |
| TC303006_01   |                    |               |         |              |
| TC303006_02   |                    |               |         |              |
| TC303007_01   |                    |               |         |              |
| TC303007_02   |                    |               |         |              |
| TC303008_01   |                    |               |         |              |
| TC303008_02   |                    |               |         |              |
| TC303009      |                    |               |         |              |
| TC303010      |                    |               |         |              |
| TC303011      |                    |               |         |              |
| TC303012      |                    |               |         |              |
| TC303013_01   |                    |               |         |              |
| TC303013_02   |                    |               |         |              |
| TC303014_01   |                    |               |         |              |
| TC303014_02   |                    |               |         |              |
| TC303015_01   |                    |               |         |              |
| TC303015_02   |                    |               |         |              |
| TC303016_01   |                    |               |         |              |
| TC303016_02   |                    |               |         |              |
| TC303017_01   |                    |               |         |              |
| TC303017_02   |                    |               |         |              |
| TC303018_01   |                    |               |         |              |
| TC303018_02   |                    |               |         |              |
| TC303019      |                    |               |         |              |
| TC303020      |                    |               |         |              |
| TC303021      |                    |               |         |              |
| TC303022      |                    |               |         |              |
| TC303023      |                    |               |         |              |
| TC303024      |                    |               |         |              |
| TC303025      |                    |               |         |              |
| TC303026      |                    |               |         |              |
| TC303027      |                    |               |         |              |
| TC303028      |                    |               |         |              |
| TC303029      |                    |               |         |              |

| ATS Reference | Selected?<br>(Y/N) | Run?<br>(Y/N) | Verdict | Observations |
|---------------|--------------------|---------------|---------|--------------|
| TC304001      |                    |               |         |              |
| TC304002      |                    |               |         |              |
| TC304003      |                    |               |         |              |
| TC304004      |                    |               |         |              |
| TC304005_01   |                    |               |         |              |
| TC304005_02   |                    |               |         |              |
| TC304006_01   |                    |               |         |              |
| TC304006_02   |                    |               |         |              |
| TC304007      |                    |               |         |              |
| TC304008      |                    |               |         |              |
| TC304009      |                    |               |         |              |
| TC304010      |                    |               |         |              |
| TC304011      |                    |               |         |              |
| TC304012      |                    |               |         |              |
| TC304013_01   |                    |               |         |              |
| TC304013_02   |                    |               |         |              |
| TC304014_01   |                    |               |         |              |
| TC304014_02   |                    |               |         |              |
| TC304015_01   |                    |               |         |              |
| TC304015_02   |                    |               |         |              |
| TC304016_01   |                    |               |         |              |
| TC304016_02   |                    |               |         |              |
| TC304017      |                    |               |         |              |
| TC304018      |                    |               |         |              |
| TC304019      |                    |               |         |              |
| TC304020      |                    |               |         |              |
| TC304021      |                    |               |         |              |
| TC304023_01   |                    |               |         |              |
| TC304023_02   |                    |               |         |              |
| TC304024_01   |                    |               |         |              |
| TC304024_02   |                    |               |         |              |
| TC304025_01   |                    |               |         |              |
| TC304025_02   |                    |               |         |              |
| TC304026_01   |                    |               |         |              |
| TC304026_02   |                    |               |         |              |
| TC304027_01   |                    |               |         |              |
| TC304027_02   |                    |               |         |              |
| TC304028      |                    |               |         |              |
| TC304029      |                    |               |         |              |
| TC305001      |                    |               |         |              |
| TC305002      |                    |               |         |              |
| TC305003      |                    |               |         |              |
| TC305004      |                    |               |         |              |
| TC305005      |                    |               |         |              |
| TC305006      |                    |               |         |              |
| TC305007      |                    |               |         |              |
| TC305008      |                    |               |         |              |
| TC305009      |                    |               |         |              |
| TC305010      |                    |               |         |              |
| TC305011_01   |                    |               |         |              |
| TC305011_02   |                    |               |         |              |
| TC305012_01   |                    |               |         |              |
| TC305012_02   |                    |               |         |              |
| TC305013      |                    |               |         |              |
| TC305014      |                    |               |         |              |
| TC305015_01   |                    |               |         |              |
| TC305015_02   |                    |               |         |              |



| ATS Reference | Selected?<br>(Y/N) | Run?<br>(Y/N) | Verdict | Observations |
|---------------|--------------------|---------------|---------|--------------|
| TC305016_01   |                    |               |         |              |
| TC305016_02   |                    |               |         |              |
| TC305017      |                    |               |         |              |
| TC305018      |                    |               |         |              |
| TC305019      |                    |               |         |              |
| TC305020      |                    |               |         |              |
| TC305021_01   |                    |               |         |              |
| TC305021_02   |                    |               |         |              |
| TC305022_01   |                    |               |         |              |
| TC305022_02   |                    |               |         |              |
| TC305023      |                    |               |         |              |
| TC305024      |                    |               |         |              |
| TC305025      |                    |               |         |              |
| TC305026      |                    |               |         |              |
| TC305027      |                    |               |         |              |
| TC305028_01   |                    |               |         |              |
| TC305028_02   |                    |               |         |              |
| TC305029      |                    |               |         |              |
| TC305030_01   |                    |               |         |              |
| TC305030_02   |                    |               |         |              |
| TC305031      |                    |               |         |              |
| TC305032      |                    |               |         |              |
| TC305033_01   |                    |               |         |              |
| TC305033_02   |                    |               |         |              |
| TC306001      |                    |               |         |              |
| TC306002      |                    |               |         |              |
| TC306003      |                    |               |         |              |
| TC306004      |                    |               |         |              |
| TC306005      |                    |               |         |              |
| TC306006      |                    |               |         |              |
| TC306007      |                    |               |         |              |
| TC306008      |                    |               |         |              |
| TC306009      |                    |               |         |              |
| TC306010      |                    |               |         |              |
| TC306011      |                    |               |         |              |
| TC306012      |                    |               |         |              |
| TC306013      |                    |               |         |              |
| TC306014      |                    |               |         |              |
| TC306015      |                    |               |         |              |
| TC306016_01   |                    |               |         |              |
| TC306016_02   |                    |               |         |              |
| TC306017_01   |                    |               |         |              |
| TC306017_02   |                    |               |         |              |
| TC306018_01   |                    |               |         |              |
| TC306018_02   |                    |               |         |              |
| TC306019      |                    |               |         |              |
| TC306020      |                    |               |         |              |
| TC306021      |                    |               |         |              |
| TC306022_01   |                    |               |         |              |
| TC306022_02   |                    |               |         |              |
| TC306023_01   |                    |               |         |              |
| TC306023_02   |                    |               |         |              |
| TC306024_01   |                    |               |         |              |
| TC306024_02   |                    |               |         |              |
| TC306025      |                    |               |         |              |
| TC306026      |                    |               |         |              |
| TC306027      |                    |               |         |              |

| ATS Reference | Selected?<br>(Y/N) | Run?<br>(Y/N) | Verdict | Observations |
|---------------|--------------------|---------------|---------|--------------|
| TC306028      |                    |               |         |              |
| TC306029      |                    |               |         |              |
| TC306030      |                    |               |         |              |
| TC306031_01   |                    |               |         |              |
| TC306031_02   |                    |               |         |              |
| TC306032_01   |                    |               |         |              |
| TC306032_02   |                    |               |         |              |
| TC306033_01   |                    |               |         |              |
| TC306033_02   |                    |               |         |              |
| TC307101      |                    |               |         |              |
| TC307102      |                    |               |         |              |
| TC307103      |                    |               |         |              |
| TC307104      |                    |               |         |              |
| TC307105      |                    |               |         |              |
| TC307106      |                    |               |         |              |
| TC307107      |                    |               |         |              |
| TC307108      |                    |               |         |              |
| TC307109      |                    |               |         |              |
| TC307110      |                    |               |         |              |
| TC307111      |                    |               |         |              |
| TC307202      |                    |               |         |              |
| TC307203      |                    |               |         |              |
| TC307204      |                    |               |         |              |
| TC307205      |                    |               |         |              |
| TC307206      |                    |               |         |              |
| TC307207      |                    |               |         |              |
| TC307208      |                    |               |         |              |
| TC307209      |                    |               |         |              |
| TC307301      |                    |               |         |              |
| TC308011      |                    |               |         |              |
| TC308012      |                    |               |         |              |
| TC308013      |                    |               |         |              |
| TC308021      |                    |               |         |              |
| TC308022      |                    |               |         |              |
| TC308023      |                    |               |         |              |
| TC308031      |                    |               |         |              |
| TC308032      |                    |               |         |              |
| TC308033      |                    |               |         |              |
| TC308041      |                    |               |         |              |
| TC308042      |                    |               |         |              |
| TC308043      |                    |               |         |              |
| TC308051      |                    |               |         |              |
| TC308052      |                    |               |         |              |
| TC308053      |                    |               |         |              |
| TC308061      |                    |               |         |              |
| TC308062      |                    |               |         |              |
| TC308063      |                    |               |         |              |
| TC308071      |                    |               |         |              |
| TC308072      |                    |               |         |              |
| TC308073      |                    |               |         |              |
| TC308081      |                    |               |         |              |
| TC308082      |                    |               |         |              |
| TC308083      |                    |               |         |              |
| TC308091      |                    |               |         |              |
| TC308092      |                    |               |         |              |
| TC308093      |                    |               |         |              |
| TC308101      |                    |               |         |              |

| ATS Reference        | Selected?<br>(Y/N) | Run?<br>(Y/N) | Verdict | Observations |
|----------------------|--------------------|---------------|---------|--------------|
| TC308102             |                    |               |         |              |
| TC308103             |                    |               |         |              |
| TC308111             |                    |               |         |              |
| TC308112             |                    |               |         |              |
| TC308113             |                    |               |         |              |
| TC308121             |                    |               |         |              |
| TC308131             |                    |               |         |              |
| TC308132             |                    |               |         |              |
| TC308133             |                    |               |         |              |
| TC309001             |                    |               |         |              |
| TC309002             |                    |               |         |              |
| TC309003             |                    |               |         |              |
| TC309004             |                    |               |         |              |
| TC309005             |                    |               |         |              |
| TC309006             |                    |               |         |              |
| TC309007             |                    |               |         |              |
| TC309008             |                    |               |         |              |
| TC309009             |                    |               |         |              |
| TC309010             |                    |               |         |              |
| TC309011             |                    |               |         |              |
| TC309012             |                    |               |         |              |
| TC309013             |                    |               |         |              |
| TC309014             |                    |               |         |              |
| TC309015             |                    |               |         |              |
| TC312001             |                    |               |         |              |
| TC312002             |                    |               |         |              |
| TC312003             |                    |               |         |              |
| TC312004             |                    |               |         |              |
| TC312005             |                    |               |         |              |
| TC312006             |                    |               |         |              |
| TC313101             |                    |               |         |              |
| TC313102             |                    |               |         |              |
| TC313103             |                    |               |         |              |
| TC313104             |                    |               |         |              |
| TC313105             |                    |               |         |              |
| TC313106             |                    |               |         |              |
| TC313107             |                    |               |         |              |
| TC313108             |                    |               |         |              |
| TC313109             |                    |               |         |              |
| TC313110             |                    |               |         |              |
| TC313111             |                    |               |         |              |
| TC313112             |                    |               |         |              |
| TC313201             |                    |               |         |              |
| TC313202             |                    |               |         |              |
| TC313203             |                    |               |         |              |
| TC313204             |                    |               |         |              |
| TC313205             |                    |               |         |              |
| TC313206             |                    |               |         |              |
| TC313207             |                    |               |         |              |
| TC313208             |                    |               |         |              |
| TC313209             |                    |               |         |              |
| ATS Interworking_PMP |                    |               |         |              |
| TC314001             |                    |               |         |              |
| TC314002_01          |                    |               |         |              |
| TC314002_02          |                    |               |         |              |
| TC314003_01          |                    |               |         |              |
| TC314003_02          |                    |               |         |              |

| ATS Reference     | Selected?<br>(Y/N) | Run?<br>(Y/N) | Verdict | Observations |
|-------------------|--------------------|---------------|---------|--------------|
| TC314003_03       |                    |               |         |              |
| TC314004_01       |                    |               |         |              |
| TC314004_02       |                    |               |         |              |
| TC314004_03       |                    |               |         |              |
| TC314005_01       |                    |               |         |              |
| TC314005_02       |                    |               |         |              |
| TC314006          |                    |               |         |              |
| TC314007          |                    |               |         |              |
| TC314008_01       |                    |               |         |              |
| TC314008_02       |                    |               |         |              |
| TC314008_03       |                    |               |         |              |
| TC314009          |                    |               |         |              |
| TC314010          |                    |               |         |              |
| TC314011_01       |                    |               |         |              |
| TC314011_02       |                    |               |         |              |
| TC314012_01       |                    |               |         |              |
| TC314012_02       |                    |               |         |              |
| TC314013          |                    |               |         |              |
| TC314014          |                    |               |         |              |
| TC314015_01       |                    |               |         |              |
| TC314015_02       |                    |               |         |              |
| TC314015_03       |                    |               |         |              |
| TC314015_04       |                    |               |         |              |
| TC314016_01       |                    |               |         |              |
| TC314016_02       |                    |               |         |              |
| TC314017_01       |                    |               |         |              |
| TC314017_02       |                    |               |         |              |
| TC314017_03       |                    |               |         |              |
| TC314018_01       |                    |               |         |              |
| TC314018_02       |                    |               |         |              |
| TC314019_01       |                    |               |         |              |
| TC314019_02       |                    |               |         |              |
| TC314019_03       |                    |               |         |              |
| TC314020_01       |                    |               |         |              |
| TC314020_02       |                    |               |         |              |
| TC314021_01       |                    |               |         |              |
| TC314021_02       |                    |               |         |              |
| TC314021_03       |                    |               |         |              |
| TC314022          |                    |               |         |              |
| TC314023_01       |                    |               |         |              |
| TC314023_02       |                    |               |         |              |
| TC314024_01       |                    |               |         |              |
| TC314024_02       |                    |               |         |              |
| TC315001          |                    |               |         |              |
| TC315002          |                    |               |         |              |
| TC315003          |                    |               |         |              |
| TC315004          |                    |               |         |              |
| TC315005          |                    |               |         |              |
| TC315006          |                    |               |         |              |
| TC316001          |                    |               |         |              |
| TC316002          |                    |               |         |              |
| TC316003          |                    |               |         |              |
| TC316004          |                    |               |         |              |
| TC316005          |                    |               |         |              |
| TC316006          |                    |               |         |              |
| ATS ISDN_ISUP_SS3 |                    |               |         |              |
| TC505101_01       |                    |               |         |              |

| ATS Reference | Selected?<br>(Y/N) | Run?<br>(Y/N) | Verdict | Observations |
|---------------|--------------------|---------------|---------|--------------|
| TC505101_02   |                    |               |         |              |
| TC505102_01   |                    |               |         |              |
| TC505102_02   |                    |               |         |              |
| TC505103_01   |                    |               |         |              |
| TC505103_02   |                    |               |         |              |
| TC505104_01   |                    |               |         |              |
| TC505104_02   |                    |               |         |              |
| TC505105_01   |                    |               |         |              |
| TC505105_02   |                    |               |         |              |
| TC505106_01   |                    |               |         |              |
| TC505106_02   |                    |               |         |              |
| TC505107_01   |                    |               |         |              |
| TC505107_02   |                    |               |         |              |
| TC505108_01   |                    |               |         |              |
| TC505108_02   |                    |               |         |              |
| TC505109_01   |                    |               |         |              |
| TC505109_02   |                    |               |         |              |
| TC505110_01   |                    |               |         |              |
| TC505110_02   |                    |               |         |              |
| TP505111_01   |                    |               |         |              |
| TP505111_02   |                    |               |         |              |
| TC505112_01   |                    |               |         |              |
| TC505112_02   |                    |               |         |              |
| TC505113_01   |                    |               |         |              |
| TC505113_02   |                    |               |         |              |
| TC505114_01   |                    |               |         |              |
| TC505114_02   |                    |               |         |              |
| TC505115_01   |                    |               |         |              |
| TC505115_02   |                    |               |         |              |
| TC505116_01   |                    |               |         |              |
| TC505116_02   |                    |               |         |              |
| TC505117_01   |                    |               |         |              |
| TC505117_02   |                    |               |         |              |
| TC505118_01   |                    |               |         |              |
| TC505118_02   |                    |               |         |              |
| TC505119_01   |                    |               |         |              |
| TC505119_02   |                    |               |         |              |
| TC505120_01   |                    |               |         |              |
| TC505120_02   |                    |               |         |              |
| TC505121_01   |                    |               |         |              |
| TC505121_02   |                    |               |         |              |
| TC505121_03   |                    |               |         |              |
| TC505121_04   |                    |               |         |              |
| TC505122_01   |                    |               |         |              |
| TC505122_02   |                    |               |         |              |
| TC505122_03   |                    |               |         |              |
| TC505122_04   |                    |               |         |              |
| TC505123_01   |                    |               |         |              |
| TC505123_02   |                    |               |         |              |
| TC505123_03   |                    |               |         |              |
| TC505123_04   |                    |               |         |              |
| TC505123_05   |                    |               |         |              |
| TC505123_06   |                    |               |         |              |
| TC505123_07   |                    |               |         |              |
| TC505123_08   |                    |               |         |              |
| TC505123_09   |                    |               |         |              |
| TC505123_10   |                    |               |         |              |

| ATS Reference | Selected?<br>(Y/N) | Run?<br>(Y/N) | Verdict | Observations |
|---------------|--------------------|---------------|---------|--------------|
| TC505124_01   |                    |               |         |              |
| TC505124_02   |                    |               |         |              |
| TC505124_03   |                    |               |         |              |
| TC505124_04   |                    |               |         |              |
| TC505124_05   |                    |               |         |              |
| TC505124_06   |                    |               |         |              |
| TC505124_07   |                    |               |         |              |
| TC505124_08   |                    |               |         |              |
| TC505124_09   |                    |               |         |              |
| TC505124_10   |                    |               |         |              |
| TC505201_01   |                    |               |         |              |
| TC505201_02   |                    |               |         |              |
| TC505202_01   |                    |               |         |              |
| TC505202_02   |                    |               |         |              |
| TC505203_01   |                    |               |         |              |
| TC505203_02   |                    |               |         |              |
| TC505204_01   |                    |               |         |              |
| TC505204_02   |                    |               |         |              |
| TC505205_01   |                    |               |         |              |
| TC505205_02   |                    |               |         |              |
| TC505206_01   |                    |               |         |              |
| TC505206_02   |                    |               |         |              |
| TC505207_01   |                    |               |         |              |
| TC505207_02   |                    |               |         |              |
| TC505208_01   |                    |               |         |              |
| TC505208_02   |                    |               |         |              |
| TC505209_01   |                    |               |         |              |
| TC505209_02   |                    |               |         |              |
| TC505210_01   |                    |               |         |              |
| TC505210_02   |                    |               |         |              |
| TC505211_01   |                    |               |         |              |
| TC505211_02   |                    |               |         |              |
| TC505212_01   |                    |               |         |              |
| TC505212_02   |                    |               |         |              |
| TC505213      |                    |               |         |              |
| TC505214      |                    |               |         |              |
| TC505215      |                    |               |         |              |
| TC505216      |                    |               |         |              |
| TC505217      |                    |               |         |              |
| TC505218      |                    |               |         |              |
| TC513101_01   |                    |               |         |              |
| TC513101_02   |                    |               |         |              |
| TC513102      |                    |               |         |              |
| TP513103_01   |                    |               |         |              |
| TP513103_02   |                    |               |         |              |
| TP513104_01   |                    |               |         |              |
| TP513104_02   |                    |               |         |              |
| TP513105_01   |                    |               |         |              |
| TP513105_02   |                    |               |         |              |
| TP513106      |                    |               |         |              |
| TP513201_01   |                    |               |         |              |
| TP513201_02   |                    |               |         |              |
| TP513202      |                    |               |         |              |
| TP515101      |                    |               |         |              |
| TP515102      |                    |               |         |              |
| TP515103      |                    |               |         |              |
| TP515104_01   |                    |               |         |              |

| ATS Reference | Selected?<br>(Y/N) | Run?<br>(Y/N) | Verdict | Observations |
|---------------|--------------------|---------------|---------|--------------|
| TP515104_02   |                    |               |         |              |
| TP515105_01   |                    |               |         |              |
| TP515105_02   |                    |               |         |              |
| TP515106_01   |                    |               |         |              |
| TP515106_02   |                    |               |         |              |
| TP515107      |                    |               |         |              |
| TP515201      |                    |               |         |              |
| TP515202      |                    |               |         |              |
| TP515203      |                    |               |         |              |
| TC605001_01   |                    |               |         |              |
| TC605001_02   |                    |               |         |              |
| TC605001_03   |                    |               |         |              |
| TC605001_04   |                    |               |         |              |
| TC605001_05   |                    |               |         |              |
| TC605001_06   |                    |               |         |              |
| TC605002_01   |                    |               |         |              |
| TC605002_02   |                    |               |         |              |
| TC605002_03   |                    |               |         |              |
| TC605002_04   |                    |               |         |              |
| TC605002_05   |                    |               |         |              |
| TC605002_06   |                    |               |         |              |
| TC605003_01   |                    |               |         |              |
| TC605003_02   |                    |               |         |              |
| TC605003_03   |                    |               |         |              |
| TC605003_04   |                    |               |         |              |
| TC605003_05   |                    |               |         |              |
| TC605003_06   |                    |               |         |              |
| TC605004_01   |                    |               |         |              |
| TC605004_02   |                    |               |         |              |
| TC605004_03   |                    |               |         |              |
| TC605004_04   |                    |               |         |              |
| TC605004_05   |                    |               |         |              |
| TC605004_06   |                    |               |         |              |
| TC605005_01   |                    |               |         |              |
| TC605005_02   |                    |               |         |              |
| TC605005_03   |                    |               |         |              |
| TC605005_04   |                    |               |         |              |
| TC605005_05   |                    |               |         |              |
| TC605005_06   |                    |               |         |              |
| TC605006_01   |                    |               |         |              |
| TC605006_02   |                    |               |         |              |
| TC605006_03   |                    |               |         |              |
| TC605006_04   |                    |               |         |              |
| TC605006_05   |                    |               |         |              |
| TC605006_06   |                    |               |         |              |
| TC605006_07   |                    |               |         |              |
| TC605006_08   |                    |               |         |              |
| TC605006_09   |                    |               |         |              |
| TC605006_10   |                    |               |         |              |
| TC605006_11   |                    |               |         |              |
| TC605006_12   |                    |               |         |              |
| TC605007_01   |                    |               |         |              |
| TC605007_02   |                    |               |         |              |
| TC605007_03   |                    |               |         |              |
| TC605007_04   |                    |               |         |              |
| TC605007_05   |                    |               |         |              |
| TC605007_06   |                    |               |         |              |

| ATS Reference | Selected?<br>(Y/N) | Run?<br>(Y/N) | Verdict | Observations |
|---------------|--------------------|---------------|---------|--------------|
| TC605007_07   |                    |               |         |              |
| TC605007_08   |                    |               |         |              |
| TC605007_09   |                    |               |         |              |
| TC605007_10   |                    |               |         |              |
| TC605007_11   |                    |               |         |              |
| TC605007_12   |                    |               |         |              |
| TC605008_01   |                    |               |         |              |
| TC605008_02   |                    |               |         |              |
| TC605008_03   |                    |               |         |              |
| TC605008_04   |                    |               |         |              |
| TC605008_05   |                    |               |         |              |
| TC605008_06   |                    |               |         |              |
| TC605008_07   |                    |               |         |              |
| TC605008_08   |                    |               |         |              |
| TC605008_09   |                    |               |         |              |
| TC605008_10   |                    |               |         |              |
| TC605008_11   |                    |               |         |              |
| TC605008_12   |                    |               |         |              |
| TC605009_01   |                    |               |         |              |
| TC605009_02   |                    |               |         |              |
| TC605009_03   |                    |               |         |              |
| TC605009_04   |                    |               |         |              |
| TC605009_05   |                    |               |         |              |
| TC605009_06   |                    |               |         |              |
| TC605009_07   |                    |               |         |              |
| TC605009_08   |                    |               |         |              |
| TC605009_09   |                    |               |         |              |
| TC605009_10   |                    |               |         |              |
| TC605009_11   |                    |               |         |              |
| TC605009_12   |                    |               |         |              |
| TC605010_01   |                    |               |         |              |
| TC605010_02   |                    |               |         |              |
| TC605010_03   |                    |               |         |              |
| TC605010_04   |                    |               |         |              |
| TC605010_05   |                    |               |         |              |
| TC605010_06   |                    |               |         |              |
| TC605010_07   |                    |               |         |              |
| TC605010_08   |                    |               |         |              |
| TC605010_09   |                    |               |         |              |
| TC605010_10   |                    |               |         |              |
| TC605010_11   |                    |               |         |              |
| TC605010_12   |                    |               |         |              |
| TC605011_01   |                    |               |         |              |
| TC605011_02   |                    |               |         |              |
| TC605011_03   |                    |               |         |              |
| TC605011_04   |                    |               |         |              |
| TC605011_05   |                    |               |         |              |
| TC605011_06   |                    |               |         |              |
| TC605012_01   |                    |               |         |              |
| TC605012_02   |                    |               |         |              |
| TC605012_03   |                    |               |         |              |
| TC605012_04   |                    |               |         |              |
| TC605012_05   |                    |               |         |              |
| TC605012_06   |                    |               |         |              |
| TC605013_01   |                    |               |         |              |
| TC605013_02   |                    |               |         |              |
| TC605013_03   |                    |               |         |              |



| ATS Reference | Selected?<br>(Y/N) | Run?<br>(Y/N) | Verdict | Observations |
|---------------|--------------------|---------------|---------|--------------|
| TC605013_04   |                    |               |         |              |
| TC605013_05   |                    |               |         |              |
| TC605013_06   |                    |               |         |              |
| TC605014_01   |                    |               |         |              |
| TC605014_02   |                    |               |         |              |
| TC605014_03   |                    |               |         |              |
| TC605014_04   |                    |               |         |              |
| TC605014_05   |                    |               |         |              |
| TC605014_06   |                    |               |         |              |
| TC605015_01   |                    |               |         |              |
| TC605015_02   |                    |               |         |              |
| TC605015_03   |                    |               |         |              |
| TC605015_04   |                    |               |         |              |
| TC605015_05   |                    |               |         |              |
| TC605015_06   |                    |               |         |              |
| TC605016_01   |                    |               |         |              |
| TC605016_02   |                    |               |         |              |
| TC605016_03   |                    |               |         |              |
| TC605016_04   |                    |               |         |              |
| TC605016_05   |                    |               |         |              |
| TC605016_06   |                    |               |         |              |
| TC605017_01   |                    |               |         |              |
| TC605017_02   |                    |               |         |              |
| TC605017_03   |                    |               |         |              |
| TC605017_04   |                    |               |         |              |
| TC605017_05   |                    |               |         |              |
| TC605017_06   |                    |               |         |              |
| TC605018_01   |                    |               |         |              |
| TC605018_02   |                    |               |         |              |
| TC605018_03   |                    |               |         |              |
| TC605018_04   |                    |               |         |              |
| TC605018_05   |                    |               |         |              |
| TC605018_06   |                    |               |         |              |
| TC605019_01   |                    |               |         |              |
| TC605019_02   |                    |               |         |              |
| TC605019_03   |                    |               |         |              |
| TC605019_04   |                    |               |         |              |
| TC605019_05   |                    |               |         |              |
| TC605019_06   |                    |               |         |              |
| TC605020_01   |                    |               |         |              |
| TC605020_02   |                    |               |         |              |
| TC605020_03   |                    |               |         |              |
| TC605020_04   |                    |               |         |              |
| TC605020_05   |                    |               |         |              |
| TC605020_06   |                    |               |         |              |
| TC605021_01   |                    |               |         |              |
| TC605021_02   |                    |               |         |              |
| TC605021_03   |                    |               |         |              |
| TC605021_04   |                    |               |         |              |
| TC605021_05   |                    |               |         |              |
| TC605021_06   |                    |               |         |              |
| TC605022_01   |                    |               |         |              |
| TC605022_02   |                    |               |         |              |
| TC605022_03   |                    |               |         |              |
| TC605022_04   |                    |               |         |              |
| TC605022_05   |                    |               |         |              |
| TC605022_06   |                    |               |         |              |

| ATS Reference     | Selected?<br>(Y/N) | Run?<br>(Y/N) | Verdict | Observations |
|-------------------|--------------------|---------------|---------|--------------|
| TC605023_01       |                    |               |         |              |
| TC605023_02       |                    |               |         |              |
| TC605023_03       |                    |               |         |              |
| TC605023_04       |                    |               |         |              |
| TC605023_05       |                    |               |         |              |
| TC605023_06       |                    |               |         |              |
| TC605024_01       |                    |               |         |              |
| TC605024_02       |                    |               |         |              |
| TC605024_03       |                    |               |         |              |
| TC605024_04       |                    |               |         |              |
| TC605024_05       |                    |               |         |              |
| TC605024_06       |                    |               |         |              |
| TC605025_01       |                    |               |         |              |
| TC605025_02       |                    |               |         |              |
| TC605025_03       |                    |               |         |              |
| TC605025_04       |                    |               |         |              |
| TC605025_05       |                    |               |         |              |
| TC605025_06       |                    |               |         |              |
| TP613101_01       |                    |               |         |              |
| TP613101_02       |                    |               |         |              |
| TP613102_01       |                    |               |         |              |
| TP613102_02       |                    |               |         |              |
| TP613103_01       |                    |               |         |              |
| TP613103_02       |                    |               |         |              |
| TP613104          |                    |               |         |              |
| TP623201_01       |                    |               |         |              |
| TP613201_02       |                    |               |         |              |
| TP613202_01       |                    |               |         |              |
| TP613202_02       |                    |               |         |              |
| TP613203_01       |                    |               |         |              |
| TP613203_02       |                    |               |         |              |
| TP613204          |                    |               |         |              |
| TP615101          |                    |               |         |              |
| TP615102          |                    |               |         |              |
| TP615103          |                    |               |         |              |
| TP615201          |                    |               |         |              |
| TP615202          |                    |               |         |              |
| TP615203          |                    |               |         |              |
| ATS ISDN_ISUP_SS4 |                    |               |         |              |
| TP510101          |                    |               |         |              |
| TP510102          |                    |               |         |              |
| TP510103          |                    |               |         |              |
| TP510104          |                    |               |         |              |
| TP510201          |                    |               |         |              |
| TP510202          |                    |               |         |              |
| TP510203          |                    |               |         |              |
| TP510204          |                    |               |         |              |
| TP510205          |                    |               |         |              |
| TP510206          |                    |               |         |              |
| TP510207          |                    |               |         |              |
| TP510208          |                    |               |         |              |
| TP510209          |                    |               |         |              |
| TP510210          |                    |               |         |              |
| TP510211          |                    |               |         |              |
| TP510301          |                    |               |         |              |
| TP510302          |                    |               |         |              |
| TP510303          |                    |               |         |              |

| ATS Reference | Selected?<br>(Y/N) | Run?<br>(Y/N) | Verdict | Observations |
|---------------|--------------------|---------------|---------|--------------|
| TC511101      |                    |               |         |              |
| TC511102      |                    |               |         |              |
| TC511103      |                    |               |         |              |
| TC511104      |                    |               |         |              |
| TC511105      |                    |               |         |              |
| TC511106      |                    |               |         |              |
| TC511107      |                    |               |         |              |
| TC511108      |                    |               |         |              |
| TC511109_01   |                    |               |         |              |
| TC511109_02   |                    |               |         |              |
| TC511110      |                    |               |         |              |
| TC511111      |                    |               |         |              |
| TC511112      |                    |               |         |              |
| TC511113      |                    |               |         |              |
| TC511114      |                    |               |         |              |
| TC511201      |                    |               |         |              |
| TP512101      |                    |               |         |              |
| TP512102      |                    |               |         |              |
| TP512103      |                    |               |         |              |
| TP512104      |                    |               |         |              |
| TP512105      |                    |               |         |              |
| TP512106      |                    |               |         |              |
| TP512107      |                    |               |         |              |
| TP512108      |                    |               |         |              |
| TP512109      |                    |               |         |              |
| TP512110      |                    |               |         |              |
| TP512111      |                    |               |         |              |
| TP512112      |                    |               |         |              |
| TP512113      |                    |               |         |              |
| TP512114      |                    |               |         |              |
| TP512201      |                    |               |         |              |
| TP512202      |                    |               |         |              |
| TP512203      |                    |               |         |              |
| TP512204      |                    |               |         |              |
| TP512205      |                    |               |         |              |
| TP512206      |                    |               |         |              |
| TP512207      |                    |               |         |              |
| TP512208      |                    |               |         |              |
| TP512209      |                    |               |         |              |
| TP512210      |                    |               |         |              |
| TP512211      |                    |               |         |              |
| TP512212      |                    |               |         |              |
| TP512213      |                    |               |         |              |
| TP512214      |                    |               |         |              |
| TP512215      |                    |               |         |              |
| TP512216      |                    |               |         |              |
| TP512217      |                    |               |         |              |
| TP512218      |                    |               |         |              |
| TP512219      |                    |               |         |              |
| TP512220      |                    |               |         |              |
| TP512221      |                    |               |         |              |
| TP512222      |                    |               |         |              |
| TP512223      |                    |               |         |              |
| TP512224_01   |                    |               |         |              |
| TP512224_02   |                    |               |         |              |
| TP512225      |                    |               |         |              |
| TP512226      |                    |               |         |              |

| ATS Reference | Selected?<br>(Y/N) | Run?<br>(Y/N) | Verdict | Observations |
|---------------|--------------------|---------------|---------|--------------|
| TP512227      |                    |               |         |              |
| TP512228      |                    |               |         |              |
| TP512229      |                    |               |         |              |
| TP512230      |                    |               |         |              |
| TP512231      |                    |               |         |              |
| TP512232      |                    |               |         |              |
| TP512233      |                    |               |         |              |
| TP512234      |                    |               |         |              |
| TP512235      |                    |               |         |              |
| TP610101      |                    |               |         |              |
| TP610102      |                    |               |         |              |
| TP610103      |                    |               |         |              |
| TP610104      |                    |               |         |              |
| TP610201      |                    |               |         |              |
| TP610202      |                    |               |         |              |
| TP610203      |                    |               |         |              |
| TP610204      |                    |               |         |              |
| TP610205      |                    |               |         |              |
| TP610206      |                    |               |         |              |
| TP610207      |                    |               |         |              |
| TP610208      |                    |               |         |              |
| TP610209      |                    |               |         |              |
| TP610210      |                    |               |         |              |
| TP610211      |                    |               |         |              |
| TP610301      |                    |               |         |              |
| TP610302      |                    |               |         |              |
| TP610303      |                    |               |         |              |
| TC611101_01   |                    |               |         |              |
| TC611101_02   |                    |               |         |              |
| TC611101_03   |                    |               |         |              |
| TC611101_04   |                    |               |         |              |
| TC611102_01   |                    |               |         |              |
| TC611102_02   |                    |               |         |              |
| TC611102_03   |                    |               |         |              |
| TC611102_04   |                    |               |         |              |
| TC611103_01   |                    |               |         |              |
| TC611103_02   |                    |               |         |              |
| TC611103_03   |                    |               |         |              |
| TC611103_04   |                    |               |         |              |
| TC611104_01   |                    |               |         |              |
| TC611104_02   |                    |               |         |              |
| TC611105_01   |                    |               |         |              |
| TC611105_02   |                    |               |         |              |
| TC611106_01   |                    |               |         |              |
| TC611106_02   |                    |               |         |              |
| TC611107      |                    |               |         |              |
| TC611108      |                    |               |         |              |
| TC611109      |                    |               |         |              |
| TC611110_01   |                    |               |         |              |
| TC611110_02   |                    |               |         |              |
| TC611111      |                    |               |         |              |
| TC611112      |                    |               |         |              |
| TC611113      |                    |               |         |              |
| TC611201      |                    |               |         |              |
| TP612101      |                    |               |         |              |
| TP612102      |                    |               |         |              |
| TP612103      |                    |               |         |              |

| ATS Reference | Selected?<br>(Y/N) | Run?<br>(Y/N) | Verdict | Observations |
|---------------|--------------------|---------------|---------|--------------|
| TP612104      |                    |               |         |              |
| TP612105      |                    |               |         |              |
| TP612106      |                    |               |         |              |
| TP612107      |                    |               |         |              |
| TP612108      |                    |               |         |              |
| TP612109      |                    |               |         |              |
| TP612110      |                    |               |         |              |
| TP612111      |                    |               |         |              |
| TP612112      |                    |               |         |              |
| TP612113      |                    |               |         |              |
| TP612114      |                    |               |         |              |
| TP612115      |                    |               |         |              |
| TP612201      |                    |               |         |              |
| TP612202      |                    |               |         |              |
| TP612203      |                    |               |         |              |
| TP612204      |                    |               |         |              |
| TP612205      |                    |               |         |              |
| TP612206      |                    |               |         |              |
| TP612207      |                    |               |         |              |
| TP612208      |                    |               |         |              |
| TP612209      |                    |               |         |              |
| TP612210      |                    |               |         |              |
| TP612211      |                    |               |         |              |
| TP612212      |                    |               |         |              |
| TP612213      |                    |               |         |              |
| TP612214      |                    |               |         |              |
| TP612215      |                    |               |         |              |
| TP612216      |                    |               |         |              |
| TP612217      |                    |               |         |              |
| TP612218      |                    |               |         |              |
| TP612219      |                    |               |         |              |
| TP612220      |                    |               |         |              |
| TP612221      |                    |               |         |              |
| TP612222      |                    |               |         |              |
| TP612223      |                    |               |         |              |
| TP612224      |                    |               |         |              |
| TP612225      |                    |               |         |              |
| TP612226      |                    |               |         |              |
| TP612227      |                    |               |         |              |
| TP612228      |                    |               |         |              |
| TP612229      |                    |               |         |              |
| TP612230      |                    |               |         |              |
| TP612231      |                    |               |         |              |
| TP612232      |                    |               |         |              |
| TP612233      |                    |               |         |              |
| TP612234      |                    |               |         |              |
| TP612235      |                    |               |         |              |
| TP612236      |                    |               |         |              |
| TP612237      |                    |               |         |              |
| TP612238      |                    |               |         |              |
| TP612239      |                    |               |         |              |
| TP612240      |                    |               |         |              |
| TP612241      |                    |               |         |              |
| TP612242      |                    |               |         |              |
| TP612243      |                    |               |         |              |
| TP612244      |                    |               |         |              |
| TP612245      |                    |               |         |              |

| ATS Reference     | Selected?<br>(Y/N) | Run?<br>(Y/N) | Verdict | Observations |
|-------------------|--------------------|---------------|---------|--------------|
| TP612246          |                    |               |         |              |
| TP612247          |                    |               |         |              |
| TP612248          |                    |               |         |              |
| TP612249          |                    |               |         |              |
| TP612250          |                    |               |         |              |
| ATS ISDN_ISUP_SS5 |                    |               |         |              |
| TC501101          |                    |               |         |              |
| TC501102          |                    |               |         |              |
| TC501103          |                    |               |         |              |
| TC501104          |                    |               |         |              |
| TC501105_01       |                    |               |         |              |
| TC501105_02       |                    |               |         |              |
| TC501106_01       |                    |               |         |              |
| TC501106_02       |                    |               |         |              |
| TC501107_01       |                    |               |         |              |
| TC501107_02       |                    |               |         |              |
| TC501108_01       |                    |               |         |              |
| TC501108_02       |                    |               |         |              |
| TC501201          |                    |               |         |              |
| TC501202          |                    |               |         |              |
| TC501203          |                    |               |         |              |
| TC501204          |                    |               |         |              |
| TC501205          |                    |               |         |              |
| TC501206          |                    |               |         |              |
| TC501207_01       |                    |               |         |              |
| TC501207_02       |                    |               |         |              |
| TC501208_01       |                    |               |         |              |
| TC501208_02       |                    |               |         |              |
| TC501209_01       |                    |               |         |              |
| TC501209_02       |                    |               |         |              |
| TC501210_01       |                    |               |         |              |
| TC501210_02       |                    |               |         |              |
| TC501211_01       |                    |               |         |              |
| TC501211_02       |                    |               |         |              |
| TC501212_01       |                    |               |         |              |
| TC501212_02       |                    |               |         |              |
| TC501213_01       |                    |               |         |              |
| TC501213_02       |                    |               |         |              |
| TC501214_01       |                    |               |         |              |
| TC501214_02       |                    |               |         |              |
| TC502101          |                    |               |         |              |
| TC502102_01       |                    |               |         |              |
| TC502102_02       |                    |               |         |              |
| TC502103          |                    |               |         |              |
| TC502104_01       |                    |               |         |              |
| TC502104_02       |                    |               |         |              |
| TC502105          |                    |               |         |              |
| TC502201          |                    |               |         |              |
| TC502202_01       |                    |               |         |              |
| TC502202_02       |                    |               |         |              |
| TC502203          |                    |               |         |              |
| TC502204_01       |                    |               |         |              |
| TC502204_02       |                    |               |         |              |
| TC502205          |                    |               |         |              |
| TC503101_01       |                    |               |         |              |
| TC503101_02       |                    |               |         |              |
| TC503101_03       |                    |               |         |              |

| ATS Reference | Selected?<br>(Y/N) | Run?<br>(Y/N) | Verdict | Observations |
|---------------|--------------------|---------------|---------|--------------|
| TC503101_04   |                    |               |         |              |
| TC503102_01   |                    |               |         |              |
| TC503102_02   |                    |               |         |              |
| TC503102_03   |                    |               |         |              |
| TC503102_04   |                    |               |         |              |
| TC503103_01   |                    |               |         |              |
| TC503103_02   |                    |               |         |              |
| TC503103_03   |                    |               |         |              |
| TC503103_04   |                    |               |         |              |
| TC503104_01   |                    |               |         |              |
| TC503104_02   |                    |               |         |              |
| TC503104_03   |                    |               |         |              |
| TC503104_04   |                    |               |         |              |
| TC503105_01   |                    |               |         |              |
| TC503105_02   |                    |               |         |              |
| TC503106_01   |                    |               |         |              |
| TC503106_02   |                    |               |         |              |
| TC503107_01   |                    |               |         |              |
| TC503107_02   |                    |               |         |              |
| TC503108_01   |                    |               |         |              |
| TC503108_02   |                    |               |         |              |
| TC503109      |                    |               |         |              |
| TC503110      |                    |               |         |              |
| TC503111      |                    |               |         |              |
| TC503112      |                    |               |         |              |
| TC503113      |                    |               |         |              |
| TC503114      |                    |               |         |              |
| TC503115      |                    |               |         |              |
| TC503116      |                    |               |         |              |
| TC503117      |                    |               |         |              |
| TC503118      |                    |               |         |              |
| TC503119      |                    |               |         |              |
| TC503120      |                    |               |         |              |
| TC503201      |                    |               |         |              |
| TC503202      |                    |               |         |              |
| TC503203      |                    |               |         |              |
| TC503204      |                    |               |         |              |
| TC504001      |                    |               |         |              |
| TC506001      |                    |               |         |              |
| TC506002      |                    |               |         |              |
| TC506003      |                    |               |         |              |
| TC506004      |                    |               |         |              |
| TC507101      |                    |               |         |              |
| TC507102      |                    |               |         |              |
| TC507201      |                    |               |         |              |
| TC507202      |                    |               |         |              |
| TC507203      |                    |               |         |              |
| TC507204      |                    |               |         |              |
| TC507301      |                    |               |         |              |
| TC507302      |                    |               |         |              |
| TC508101      |                    |               |         |              |
| TC508102      |                    |               |         |              |
| TC508103      |                    |               |         |              |
| TC508104      |                    |               |         |              |
| TC508201      |                    |               |         |              |
| TC508202      |                    |               |         |              |
| TC508301      |                    |               |         |              |

| ATS Reference | Selected?<br>(Y/N) | Run?<br>(Y/N) | Verdict | Observations |
|---------------|--------------------|---------------|---------|--------------|
| TC508302      |                    |               |         |              |
| TC601101_01   |                    |               |         |              |
| TC601101_02   |                    |               |         |              |
| TC601101_03   |                    |               |         |              |
| TC601101_04   |                    |               |         |              |
| TC601102_01   |                    |               |         |              |
| TC601102_02   |                    |               |         |              |
| TC601102_03   |                    |               |         |              |
| TC601102_04   |                    |               |         |              |
| TC601103_01   |                    |               |         |              |
| TC601103_02   |                    |               |         |              |
| TC601104_01   |                    |               |         |              |
| TC601104_02   |                    |               |         |              |
| TC601105_01   |                    |               |         |              |
| TC601105_02   |                    |               |         |              |
| TC601106_01   |                    |               |         |              |
| TC601106_02   |                    |               |         |              |
| TC601107      |                    |               |         |              |
| TC601108      |                    |               |         |              |
| TC601109      |                    |               |         |              |
| TC601110      |                    |               |         |              |
| TC601111      |                    |               |         |              |
| TC601112      |                    |               |         |              |
| TC601113      |                    |               |         |              |
| TC601114      |                    |               |         |              |
| TC601201      |                    |               |         |              |
| TC601202      |                    |               |         |              |
| TC602101      |                    |               |         |              |
| TC602102      |                    |               |         |              |
| TC602103      |                    |               |         |              |
| TC602104      |                    |               |         |              |
| TC602105      |                    |               |         |              |
| TC602106      |                    |               |         |              |
| TC602107      |                    |               |         |              |
| TC602108      |                    |               |         |              |
| TC602109_01   |                    |               |         |              |
| TC602109_02   |                    |               |         |              |
| TC602110_01   |                    |               |         |              |
| TC602110_02   |                    |               |         |              |
| TC602111_01   |                    |               |         |              |
| TC602111_02   |                    |               |         |              |
| TC602112_01   |                    |               |         |              |
| TC602112_02   |                    |               |         |              |
| TC602113_01   |                    |               |         |              |
| TC602113_02   |                    |               |         |              |
| TC602114_01   |                    |               |         |              |
| TC602114_02   |                    |               |         |              |
| TC602115_01   |                    |               |         |              |
| TC602115_02   |                    |               |         |              |
| TC602116_01   |                    |               |         |              |
| TC602116_02   |                    |               |         |              |
| TC602201      |                    |               |         |              |
| TC602202      |                    |               |         |              |
| TC602203      |                    |               |         |              |
| TC602204      |                    |               |         |              |
| TC602205      |                    |               |         |              |
| TC602206      |                    |               |         |              |



| ATS Reference | Selected?<br>(Y/N) | Run?<br>(Y/N) | Verdict | Observations |
|---------------|--------------------|---------------|---------|--------------|
| TC602207      |                    |               |         |              |
| TC602208      |                    |               |         |              |
| TC602209      |                    |               |         |              |
| TC602210      |                    |               |         |              |
| TC602211      |                    |               |         |              |
| TC602212      |                    |               |         |              |
| TC602213_01   |                    |               |         |              |
| TC602213_02   |                    |               |         |              |
| TC602214_01   |                    |               |         |              |
| TC602214_02   |                    |               |         |              |
| TC602215_01   |                    |               |         |              |
| TC602215_02   |                    |               |         |              |
| TC602216_01   |                    |               |         |              |
| TC602216_02   |                    |               |         |              |
| TC602217_01   |                    |               |         |              |
| TC602217_02   |                    |               |         |              |
| TC602218_01   |                    |               |         |              |
| TC602218_02   |                    |               |         |              |
| TC602219_01   |                    |               |         |              |
| TC602219_02   |                    |               |         |              |
| TC602220_01   |                    |               |         |              |
| TC602220_02   |                    |               |         |              |
| TC602221_01   |                    |               |         |              |
| TC602221_02   |                    |               |         |              |
| TC602222_01   |                    |               |         |              |
| TC602222_02   |                    |               |         |              |
| TC602223_01   |                    |               |         |              |
| TC602223_02   |                    |               |         |              |
| TC602224_01   |                    |               |         |              |
| TC602224_02   |                    |               |         |              |
| TC602225_01   |                    |               |         |              |
| TC602225_02   |                    |               |         |              |
| TC602226_01   |                    |               |         |              |
| TC602226_02   |                    |               |         |              |
| TC602227_01   |                    |               |         |              |
| TC602227_02   |                    |               |         |              |
| TC602228_01   |                    |               |         |              |
| TC602228_02   |                    |               |         |              |
| TC603101      |                    |               |         |              |
| TC603102      |                    |               |         |              |
| TC603103_01   |                    |               |         |              |
| TC603103_02   |                    |               |         |              |
| TC603104_01   |                    |               |         |              |
| TC603104_02   |                    |               |         |              |
| TC603105      |                    |               |         |              |
| TC603106      |                    |               |         |              |
| TC603107_01   |                    |               |         |              |
| TC603107_02   |                    |               |         |              |
| TC603108_01   |                    |               |         |              |
| TC603108_02   |                    |               |         |              |
| TC603109      |                    |               |         |              |
| TC603110      |                    |               |         |              |
| TC603201      |                    |               |         |              |
| TC603202      |                    |               |         |              |
| TC603203_01   |                    |               |         |              |
| TC603203_02   |                    |               |         |              |
| TC603204_01   |                    |               |         |              |

| ATS Reference | Selected?<br>(Y/N) | Run?<br>(Y/N) | Verdict | Observations |
|---------------|--------------------|---------------|---------|--------------|
| TC603204_02   |                    |               |         |              |
| TC603205      |                    |               |         |              |
| TC603206      |                    |               |         |              |
| TC603207_01   |                    |               |         |              |
| TC603207_02   |                    |               |         |              |
| TC603208_01   |                    |               |         |              |
| TC603208_02   |                    |               |         |              |
| TC603209      |                    |               |         |              |
| TC603210      |                    |               |         |              |
| TC604001      |                    |               |         |              |
| TC606101      |                    |               |         |              |
| TC606102      |                    |               |         |              |
| TC606103      |                    |               |         |              |
| TC606201      |                    |               |         |              |
| TC606202      |                    |               |         |              |
| TC606203      |                    |               |         |              |
| TC606204      |                    |               |         |              |
| TC606205      |                    |               |         |              |
| TC607101      |                    |               |         |              |
| TC607102      |                    |               |         |              |
| TC607103      |                    |               |         |              |
| TC607104      |                    |               |         |              |
| TC607201      |                    |               |         |              |
| TC607202      |                    |               |         |              |
| TC607301      |                    |               |         |              |
| TC607302      |                    |               |         |              |
| TC608101      |                    |               |         |              |
| TC608102      |                    |               |         |              |
| TC608103      |                    |               |         |              |
| TC608104      |                    |               |         |              |
| TC608201      |                    |               |         |              |
| TC608202      |                    |               |         |              |
| TC608301      |                    |               |         |              |
| TC608302      |                    |               |         |              |

## A.7 Observations

*Additional information relevant to the technical content of the PCTR is given here.*

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## Annex B (normative): Partial PIXIT proforma

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

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### B.1 Identification summary

PIXIT Number:

---

Test laboratory name:

---

Date of issue:

---

Issued to:

---

---

### B.2 Abstract test suite summary

Protocol Specification: EN 300 899-1

ATS Specification: EN 300 899-4

Abstract Test Method: Multi-party test method (see ISO/IEC 9646-2)

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### B.3 Test laboratory

Test Laboratory identification:

---

Accreditation status of the test service:

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Accreditation reference:

---

Test laboratory manager:

---

Test laboratory contact:

---

Means of testing:

---

Test laboratory instructions for completion:

---

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## B.4 Client (of the test laboratory)

Client identification:

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Client test manager:

---

Client contact:

---

Test facilities required:

---

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## B.5 SUT

Name:

---

Version:

---

SCS reference:

---

Machine configuration:

---

Operating system identification:

---

IUT identification:

---

PICS (all layers):

---

Limitations of the SUT:

---

Environmental Conditions:

---

## B.6 Protocol information

### B.6.1 Protocol identification

Specification reference: EN 300 899-1

Protocol Version:

PICS Reference:

NOTE: The PICS Reference should reference a completed PICS which is conformant with the PICS proforma contained in EN 300 899-2.

### B.6.2 Introduction

The abstract test suite has been split into five different Sub-ATSs due to the number of tests and due to technical reasons related to the different test configurations involved. The content of the different ATSs is as following:

Interworking\_ISDN\_ISUP: Tests for basic call at ISDN T and coincident S/T reference point.

Interworking\_PMP: Test for basic call at coincident S/T reference point in multi-point configuration with more than one terminal attached.

ISDN\_ISUP\_SS3: Tests for supplementary services at ISDN T and coincident S/T reference point. Call Diversion, CCBS, CCNR.

ISDN\_ISUP\_SS4: Tests for supplementary services at ISDN T and coincident S/T reference point. 3PTY, CUG, UUS1.

ISDN\_ISUP\_SS5: Tests for supplementary services at ISDN T and coincident S/T reference point. CLIP, CLIR, COLP, COLR, CW, HOLD, SUB, TP.

### B.6.3 Parameters for ATS Interworking\_ISDN\_ISUP

#### B.6.3.1 PICS questions

NOTE: The PICS questions relevant to this ATS have been repeated here to help the test operator.

##### B.6.3.1.1 ISUP side

PXP\_AUTO\_ACM

Possible values: YES/NO

YES: The system under test automatically transmits an ACM message in response to an IAM message carrying the end-of-pulsing (ST) indication.

NO: The system under test does not automatically transmit an ACM message in response to an IAM message carrying the end-of-pulsing (ST) indication. The ACM message has to be triggered explicitly by a CALL PROCEEDING message on the ISDN side.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

## PCP\_ENBLOC

Possible values: YES/NO

YES: The system under test uses the en-bloc sending operation in the forward address signalling.

NO: The system under test does not use the en-bloc sending operation in the forward address signalling.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

## PCP\_OVERLAP

Possible values: YES/NO

YES: The system under test uses the overlap sending operation in the forward address signalling.

NO: The system under test does not use the overlap sending operation in the forward address signalling.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

## PCP\_SPFBACK

Possible values: YES/NO

YES: The system under test supports signalling procedures for connections allowing fallback.

NO: The system under test does not support signalling procedures for connections allowing fallback.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

## PCP\_ST

Possible values: YES/NO

YES: The system under test supports sending of the end-of-pulsing (ST).

NO: The system under test does not support sending of the end-of-pulsing (ST).

|        |  |
|--------|--|
| Value: |  |
|--------|--|

## PCP\_SPEECH

Possible values: YES/NO

YES: The system under test supports the connection type speech.

NO: The system under test does not support connection type speech.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PCP\_3\_1KHZ

Possible values: YES/NO

YES: The system under test supports the connection type 3,1 kHz audio.

NO: The system under test does not support connection type 3,1 kHz audio.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PCP\_64KB

Possible values: YES/NO

YES: The system under test supports the connections with a transfer rate of 64 kbit/s.

NO: The system under test does not support connections with a transfer rate of 64 kbit/s.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PCP\_2×64KB

Possible values: YES/NO

YES: The system under test supports the connections with a transfer rate of  $2 \times 64$  kbit/s.

NO: The system under test does not support connections with a transfer rate of  $2 \times 64$  kbit/s.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PCP\_384KB

Possible values: YES/NO

YES: The system under test supports the connections with a transfer rate of 384 kbit/s.

NO: The system under test does not support connections with a transfer rate of 384 kbit/s.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PCP\_1 536KB

Possible values: YES/NO

YES: The system under test supports the connections with a transfer rate of 1 536 kbit/s.

NO: The system under test does not support connections with a transfer rate of 1 536 kbit/s.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PCP\_1 920KB

Possible values: YES/NO

YES: The system under test supports the connections with a transfer rate of 1 920 kbit/s.

NO: The system under test does not support connections with a transfer rate of 1 920 kbit/s.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

### B.6.3.1.2 ISDN side

PC\_BASIC

Possible values: YES/NO

YES: The ISDN access under test is of the basic access type.

NO: The ISDN access under test is of the primary rate access type.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PC\_STREFPT

Possible values: YES/NO

YES: The ISDN access under test is of the coincident S/T reference point type.

NO: The ISDN access under test is not of the coincident S/T reference point type.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PC\_TREFPT

Possible values: YES/NO

YES: The ISDN access under test is of the T reference point type.

NO: The ISDN access under test is not of the T reference point type.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PC\_PT\_PT

Possible values: YES/NO

YES: The ISDN access under test is configured point-to-point.

NO: The ISDN access under test is not configured point-to-point.

|        |  |
|--------|--|
| Value: |  |
|--------|--|



## PC\_MPT

Possible values: YES/NO

YES: The ISDN access under test is configured point-to-multipoint.

NO: The ISDN access under test is not configured point-to-multipoint.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

## PC\_ENBLOC

Possible values: YES/NO

YES: The system under test supports the en-bloc sending procedures (i.e. sends all address information in the SETUP message).

NO: The system under test does not support the en-bloc sending procedures.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

## PC\_OVERLAP

Possible values: YES/NO

YES: The system under test supports the overlap sending procedures (i.e. sends the address information split across in the SETUP and in one or several INFORMATION messages).

NO: The system under test does not support the overlap sending procedures.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

## PC\_SPEECH

Possible values: YES/NO

YES: The system under test supports the information transfer capability speech.

NO: The system under test does not support the information transfer capability speech.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

## PC\_3\_1KHZ

Possible values: YES/NO

YES: The system under test supports the information transfer capability 3,1 kHz audio.

NO: The system under test does not support the information transfer capability 3,1 kHz audio.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PC\_UDI

Possible values: YES/NO

YES: The system under test supports the information transfer capability unrestricted digital information.

NO: The system under test does not support the information transfer capability unrestricted digital information.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PC\_UDITA

Possible values: YES/NO

YES: The system under test supports the information transfer capability unrestricted digital information with tones/announcements.

NO: The system under test does not support the information transfer capability unrestricted digital information with tones/announcements.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PC\_64KB

Possible values: YES/NO

YES: The system under test supports the information transfer rate 64 kbit/s.

NO: The system under test does not support the information transfer rate 64 kbit/s.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PC\_2×64KB

Possible values: YES/NO

YES: The system under test supports the information transfer rate  $2 \times 64$  kbit/s.

NO: The system under test does not support the information transfer rate  $2 \times 64$  kbit/s.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PC\_384KB

Possible values: YES/NO

YES: The system under test supports the information transfer rate 384 kbit/s.

NO: The system under test does not support the information transfer rate 384 kbit/s.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PC\_1 536KB

Possible values: YES/NO

YES: The system under test supports the information transfer rate 1 536 kbit/s.

NO: The system under test does not support the information transfer rate 1 536 kbit/s.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PC\_1 920KB

Possible values: YES/NO

YES: The system under test supports the information transfer rate 1 920 kbit/s.

NO: The system under test does not support the information transfer rate 1 920 kbit/s.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PC\_MULT

Possible values: YES/NO

YES: The system under test supports the information transfer rate multirate.

NO: The system under test does not support the information transfer rate multirate.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PC\_RATE MULT\_6

Possible values: YES/NO

YES: The system under test supports the information transfer rate multiplier 6.

NO: The system under test does not support the information transfer rate multiplier 6.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PC\_RATE MULT\_24

Possible values: YES/NO

YES: The system under test supports the information transfer rate multiplier 24.

NO: The system under test does not support the information transfer rate multiplier 24.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PC\_RATE\_MULT\_30

Possible values: YES/NO

YES: The system under test supports the information transfer rate multiplier 30.

NO: The system under test does not support the information transfer rate multiplier 30.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

### B.6.3.2 PIXIT questions

#### B.6.3.2.1 ISUP side

##### B.6.3.2.1.1 Address signals, to be received on the ISUP side

PXP\_ADGSG\_OVERL

Value type: HEXSTRING

Address signal of a Calling Party Number parameter to be received in an IAM message including the end of pulsing signal ST, if necessary. The receiving of this information on the ISUP side is triggered by sending the number information as given in PX\_CGPN\_L\_P and PX\_CGPN\_V\_P (see below) on the ISDN side.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_ADGSG\_OVERL

Value type: HEXSTRING

Complete address signal of a Called Party Number parameter to be received in an IAM message including the end of pulsing signal ST, if necessary. The receiving of this information on the ISUP side is triggered by sending the complete number information on the ISDN side.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_CGPN\_V

Value type: HEXSTRING

Address signal of a Subsequent Number parameter to be received in a SAM message including the end of pulsing signal ST, if necessary. The receiving of this information on the ISUP side is triggered by sending the number information as given in PX\_ADGSG\_OVERL\_N22\_P (see below) on the ISDN side.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

##### B.6.3.2.1.2 Address signals, to be sent on the ISUP side

PXP\_CDPNL\_ST

Value type: OCTETSTRING [1]

Length (number of octets) in PXP\_CDPNV\_ST\_P.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

**PXP\_CDPNV\_ST**

Value type: OCTETSTRING

Coding for a Called Party Number parameter (all octets following the length field) containing the complete address information and the end of pulsing signal ST, if necessary. This value is used in an IAM message.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

**PXP\_CDPNL\_OVERL1**

Value type: OCTETSTRING [1]

Length (number of octets) in PXP\_CDPNV\_OVERL1\_P.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

**PXP\_CDPNV\_OVERL1**

Value type: OCTETSTRING

Coding for a Called Party Number parameter (all octets following the length field) containing not enough address information to cause the sending of a SETUP message on the ISDN side and not containing the end of pulsing signal ST. This value is used in an IAM message.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

**PXP\_CDPNL\_OVERL2**

Value type: OCTETSTRING [1]

Length (number of octets) in PXP\_CDPNV\_OVERL2\_P.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

**PXP\_CDPNV\_OVERL2**

Value type: OCTETSTRING

Coding for a Called Party Number parameter (all octets following the length field) containing enough address information to cause the sending of a SETUP message on the ISDN side and not containing the end of pulsing signal ST. This value is used in a SAM message.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

**PXP\_CDPNL\_OVERL3**

Value type: OCTETSTRING [1]

Length (number of octets) in PXP\_CDPNV\_OVERL3\_P.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_CDPNV\_OVERL3

Value type: OCTETSTRING

Coding for a Called Party Number parameter (all octets following the length field) containing enough address information to cause the sending of a SETUP message on the ISDN side and containing the end of pulsing signal ST. This value is used in a SAM message.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

#### B.6.3.2.1.3 Message header

PXP\_NI\_R

Value type: BITSTRING [2]

Network indicator value.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_SP\_IUT

Value type: INTEGER

Signalling point code value for the ISUP access under test. (DPC seen from the tester)

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_SP\_TISUP

Value type: INTEGER

Signalling point code value for the tester. (OPC seen from the tester)

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_SLS

Value type: BITSTRING [4]

Signalling link selection value.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_CIC\_R

Value type: BITSTRING [12]

Circuit identification code value to be sent by the IUT.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_CIC\_S

Value type: BITSTRING [12]

Circuit identification code value to be sent to the IUT.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

#### B.6.3.2.1.4 Backward call indicators

PXP\_ISUPI

Value type: BITSTRING [1]

ISDN user part indicator value of the backward call indicator.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_ISDNAI

Value type: BITSTRING [1]

ISDN access indicator value of the backward call indicator.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_OBCI

Value type: BITSTRING [1]

In-band information value of the optional backward call indicator.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

#### B.6.3.2.1.5 Forward call indicator

PXP\_NI\_CALL\_IND

Value type: BITSTRING [1]

National/international call indicator value of the forward call indicator.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_EE\_METHOD

Value type: BITSTRING [2]

End-to-end method indicator value of the forward call indicator.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_EE\_INFO\_IND

Value type: BITSTRING [1]

End-to-end information indicator value of the forward call indicator.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_SCCP\_IND

Value type: BITSTRING [2]

SSCP method indicator value of the forward call indicator.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

#### B.6.3.2.1.6 Nature of connection indicator

PXP\_NCI\_SATE

Value type: BITSTRING [2]

Satellite indicator value of the nature of connection indicator.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_NCI\_CONT\_CHECK

Value type: BITSTRING [2]

Continuity check indicator value of the nature of connection indicator.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_NCI\_ECHO\_CTRL

Value type: BITSTRING [1]

Echo control device indicator value of the nature of connection indicator.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

#### B.6.3.2.1.7 Calling party's category

PXP\_CGPG

Value type: BITSTRING [8]

Calling party's category field value.

|        |  |
|--------|--|
| Value: |  |
|--------|--|



**B.6.3.2.1.8      Transmission Medium Requirement**

PXP\_TMR

Value type: OCTETSTRING [1]

Transmission medium requirement field value.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_TMRP

Value type: OCTETSTRING [1]

Transmission medium requirement prime field value.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

**B.6.3.2.1.9      User Service Information**

PXP\_USI\_LENGTH

Value type: OCTETSTRING [1]

Length (number of octets) in PXP\_USI\_VALUE\_P.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_USI\_VALUE

Value type: OCTETSTRING

User service information value.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

**B.6.3.2.1.10      Cause Indicators**

PXP\_CAU\_LOC\_ISUP

Value type: BITSTRING [4]

Location value on the ISUP side.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_CAU\_VAL\_ISUP

Value type: BITSTRING [7]

Cause value on the ISUP side.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

**B.6.3.2.1.11 Timer****PXP\_T\_GUARD**

Value type: INTEGER

Value for the timer that controls the execution of the tests; value in seconds.

This timer should be set to a value of a minimum of 30 seconds. Higher values may be required for tests checking the correct implementation of protocol timers.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

**PXP\_T6MIN**

Value type: INTEGER

Minimum value for timer T6; value in seconds.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

**PXP\_T6MAX**

Value type: INTEGER

Maximum value for timer T6; value in seconds.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

**B.6.3.2.2 ISDN side****B.6.3.2.2.1 Address signals****PX\_CDPN\_ND**

Possible values: All octet string codings valid for number digits

Complete number digits associated with the ISUP access of the first parallel test component to be included in the Called party number information element which the system under test accepts in incoming SETUP messages.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

**PX\_CDPN\_OCTET3**

Value type: OCTETSTRING [1]

Octet 3 of the Called party number information element (Type of Number and Numbering Plan Identification parameter) which the system under test accepts in incoming SETUP messages.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

## PX\_CDPN\_OVERL\_N21\_ND

Possible values: All octet string codings valid for number digits

Partial number digits (enough to cause the sending of the IAM message) associated with the ISUP access of the first parallel test component to be included in the Called party number information element which the system under test accepts in incoming SETUP messages.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

## PX\_LCDPN\_OVERL\_N21

Value type: OCTETSTRING [1]

Length of the Called party number information element given in PX\_CDPN\_OVERL\_N21\_ND\_P and PX\_CDPN\_OCTET3\_P.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

## PX\_CDPN\_OVERL\_N22\_ND

Possible values: All octet string codings valid for number digits

Additional number digits associated with the ISUP access of the first parallel test component to be included in the Called party number information element of an INFORMATION message.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

## PX\_LCDPN\_OVERL\_N22

Value type: OCTETSTRING [1]

Length of the Called party number information element given in PX\_CDPN\_OVERL\_N22\_ND\_P and PX\_CDPN\_OCTET3\_P.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

## PX\_CDPN\_OVERL\_N1\_ND

Possible values: All octet string codings valid for number digits

Partial number digits (not enough to cause the sending of the IAM message) associated with the ISUP access of the first parallel test component to be included in the Called party number information element which the system under test accepts in incoming SETUP messages.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

## PX\_LCDPN\_OVERL\_N1

Value type: OCTETSTRING [1]

Length of the Called party number information element given in PX\_CDPN\_OVERL\_N1\_ND\_P and PX\_CDPN\_OCTET3\_P.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PX\_CDPN\_OVERL\_N2\_ND

Possible values: All octet string codings valid for number digits

Additional number digits (enough to cause the sending of the IAM message) associated with the ISUP access of the first parallel test component to be included in the Called party number information element of an INFORMATION message.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PX\_LCDPN\_OVERL\_N2

Value type: OCTETSTRING [1]

Length of the Called party number information element given in PX\_CDPN\_OVERL\_N2\_ND\_P and PX\_CDPN\_OCTET3\_P.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PX\_CGPN\_L

Value type: OCTETSTRING [1]

Length of the Called party number information element given in PX\_CGPN\_V.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PX\_CGPN\_V

Possible values: All octet string codings valid for number digits

Coding for a Calling Party Number information element (all octets following the length field).

|        |  |
|--------|--|
| Value: |  |
|--------|--|

#### B.6.3.2.2.2 Access related information

PX\_CH\_NUM

Possible values: 1, 2, if PC\_BASIC\_P = YES; 1 .. 30, if PC\_BASIC\_P = NO

Value for a B-channel number which the system can accept at the access associated with the main test component.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PX\_CR\_LENGTH

Value type: BITSTRING [4]

'0001'B: The system under test is of the basic access type.

'0010'B: The system under test is of the primary rate access type.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

**PX\_L2\_INIT**

Possible values: YES/NO

YES: The layer 2 multiple frame established operation should be re-established before the start of each test.

NO: The layer 2 multiple frame established operation should not be re-established before the start of each test.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

**PX\_WAIT\_RESTART**

Possible values: YES/NO

YES: The system sends a RESTART message after the establishment of the layer 2 multiple frame established operation.

NO: The system does not send a RESTART message after the establishment of the layer 2 multiple frame established operation.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

**B.6.3.2.2.3 Service information (BCAP, HLC, LLC)****PX\_BCAPL**

Value type: OCTETSTRING [1]

Length of the Bearer capability information element given in PX\_BCAPV\_P.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

**PX\_BCAPV**

Possible values: All octet string codings valid for Bearer capability

Value for the Bearer capability information element (octet 3 onwards) which the system under test accepts in incoming SETUP messages.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

**PX\_HLCL1**

Value type: OCTETSTRING [1]

Length of the High layer compatibility information element given in PX\_HLCV1\_P.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

**PX\_HLCV1**

Possible values: All octet string codings valid for High layer compatibility

Value for the High layer compatibility information element (octet 3 onwards) which the system under test accepts in incoming SETUP messages.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

**PX\_HLCL2**

Value type: OCTETSTRING [1]

Length of the High layer compatibility information element given in PX\_HLCV2\_P.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

**PX\_HLCV2**

Possible values: All octet string codings valid for High layer compatibility

Value for a second High layer compatibility information element (octet 3 onwards) which the system under test accepts in incoming SETUP messages.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

**PX\_HLCL\_INVALID**

Value type: OCTETSTRING [1]

Length of the High layer compatibility information element given in PX\_HLCV\_INVALID\_P.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

**PX\_HLCV\_INVALID**

Possible values: All octet string codings valid for High layer compatibility

Value for a High layer compatibility information element containing an invalid value.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

**PX\_LLCL**

Value type: OCTETSTRING [1]

Length of the Low layer compatibility information element given in PX\_LLCV\_P.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

**PX\_LLCV**

Possible values: All octet string codings valid for Low layer compatibility

Value for the Low layer compatibility information element (octet 3 onwards) which the system under test accepts in incoming SETUP messages.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

**PX\_LLCL\_INVALID**

Value type: OCTETSTRING [1]

Length of the High layer compatibility information element given in PX\_LLCV\_INVALID\_P.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

**PX\_LLCV\_INVALID**

Possible values: All octet string codings valid for Low layer compatibility

Value for a Low layer compatibility information element containing an invalid value.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

**B.6.3.2.2.4 Cause****PXP\_CAU\_LOC\_ISDN**

Value type: BITSTRING [4]

Location value on the ISDN side.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

**PXP\_CAU\_VAL\_ISDN**

Value type: BITSTRING [7]

Cause value on the ISDN side.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

**B.6.3.2.2.5 Progress Indicator****PXP\_PI\_LOC**

Value type: BITSTRING [4]

Location value on the ISDN side.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_PI\_PD

Value type: INTEGER

Progress description on the ISDN side.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_PI\_PD\_NOT8

Value type: INTEGER

Progress description (value other than 8) on the ISDN side.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_PI\_INVALID\_LOC

Value type: BITSTRING [4]

Location value for use in an invalid Progress descriptor information element.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_PI\_INVALID\_PD

Value type: INTEGER

Progress description for use in an invalid Progress descriptor information element.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

#### B.6.3.2.2.6 Timer

PX\_TAC

Value type: INTEGER

Value for the timer that controls test events initiated at the system under test by stimulus messages sent by the test tool; value in seconds.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PX\_TNOAC

Value type: INTEGER

Value for the timer that controls the inactivity of the system under test to stimulus messages sent by the test tool; value in seconds.

|        |  |
|--------|--|
| Value: |  |
|--------|--|



**PX\_T\_RESTART**

Value type: INTEGER

Value for the timer that controls the receipt of RESTART message sent by the system under test after the establishment of the layer 2 multiple frame established operation (only relevant, if PX\_WAIT\_RESTART\_P is supported); value in seconds.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

**PX\_TWAIT**

Value type: INTEGER

Value for the timer that controls test events initiated at the system under test by the parallel test component or the test operator; value in seconds.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

**PXP\_T301MIN**

Value type: INTEGER

Minimum value for timer T301; value in seconds.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

**PXP\_T301MAX**

Value type: INTEGER

Maximum value for timer T301; value in seconds.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

**PXP\_T303MIN**

Value type: INTEGER

Minimum value for timer T303; value in seconds.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

**PXP\_T303MAX**

Value type: INTEGER

Maximum value for timer T303; value in seconds.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_T310MIN

Value type: INTEGER

Minimum value for timer T310; value in seconds.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_T310MAX

Value type: INTEGER

Maximum value for timer T310; value in seconds.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

#### B.6.3.2.2.7 Bearer capabilities

PX\_BCAPL\_SPEECH

Value type: OCTETSTRING [1]

Length of the Bearer capability information element given in PX\_BCAPV\_SPEECH\_P.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PX\_BCAPV\_SPEECH

Possible values: All octet string codings valid for Bearer capability

Value for a Bearer capability information element (information transfer capability = speech, octet 3 onwards).

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PX\_BCAPL\_3\_1KHZ\_AUDIO

Value type: OCTETSTRING [1]

Length of the Bearer capability information element given in PX\_BCAPV\_3\_1KHZ\_AUDIO\_P.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PX\_BCAPV\_3\_1KHZ\_AUDIO

Possible values: All octet string codings valid for Bearer capability

Value for a Bearer capability information element (information transfer capability = 3,1 kHz audio, octet 3 onwards).

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PX\_BCAPL\_UDI\_64KB

Value type: OCTETSTRING [1]

Length of the Bearer capability information element given in PX\_BCAPV\_UDI\_64KB\_P.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PX\_BCAPV\_UDI\_64KB

Possible values: All octet string codings valid for Bearer capability

Value for a Bearer capability information element (information transfer capability = unrestricted digital information, transfer rate = 64 kbit/s, octet 3 onwards).

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PX\_BCAPL\_UDI\_2×64KB

Value type: OCTETSTRING [1]

Length of the Bearer capability information element given in PX\_BCAPV\_UDI\_2×64KB\_P.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PX\_BCAPV\_UDI\_2×64KB

Possible values: All octet string codings valid for Bearer capability

Value for a Bearer capability information element (information transfer capability = unrestricted digital information, transfer rate = 2 × 64 kbit/s, octet 3 onwards).

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PX\_BCAPL\_UDI\_384KB

Value type: OCTETSTRING [1]

Length of the Bearer capability information element given in PX\_BCAPV\_UDI\_384KB\_P.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PX\_BCAPV\_UDI\_384KB

Possible values: All octet string codings valid for Bearer capability

Value for a Bearer capability information element (information transfer capability = unrestricted digital information, transfer rate = 384 kbit/s, octet 3 onwards).

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PX\_BCAPL\_UDI\_1 536KB

Value type: OCTETSTRING [1]

Length of the Bearer capability information element given in PX\_BCAPV\_UDI\_1 536KB\_P.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PX\_BCAPV\_UDI\_1 536KB

Possible values: All octet string codings valid for Bearer capability

Value for a Bearer capability information element (information transfer capability = unrestricted digital information, transfer rate = 1 536 kbit/s, octet 3 onwards).

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PX\_BCAPL\_UDI\_1 920KB

Value type: OCTETSTRING [1]

Length of the Bearer capability information element given in PX\_BCAPV\_UDI\_1 920KB\_P.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PX\_BCAPV\_UDI\_1 920KB

Possible values: All octet string codings valid for Bearer capability

Value for a Bearer capability information element (information transfer capability = unrestricted digital information, transfer rate = 1 920 kbit/s, octet 3 onwards).

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PX\_BCAPL\_UDI\_MULTI\_6×64KB

Value type: OCTETSTRING [1]

Length of the Bearer capability information element given in PX\_BCAPV\_UDI\_MULTI\_6×64KB\_P.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PX\_BCAPV\_UDI\_MULTI\_6×64KB

Possible values: All octet string codings valid for Bearer capability

Value for a Bearer capability information element (information transfer capability = unrestricted digital information, transfer rate = multirate, rate multiplier = 6, octet 3 onwards).

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PX\_BCAPL\_UDI\_MULTI\_24×64KB

Value type: OCTETSTRING [1]

Length of the Bearer capability information element given in PX\_BCAPV\_UDI\_MULTI\_24×64KB\_P.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PX\_BCAPV\_UDI\_MULTI\_24×64KB

Possible values: All octet string codings valid for Bearer capability

Value for a Bearer capability information element (information transfer capability = unrestricted digital information, transfer rate = multirate, rate multiplier = 24, octet 3 onwards).

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PX\_BCAPL\_UDI\_MULTI\_30×64KB

Value type: OCTETSTRING [1]

Length of the Bearer capability information element given in PX\_BCAPV\_UDI\_MULTI\_30×64KB\_P.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PX\_BCAPV\_UDI\_MULTI\_30×64KB

Possible values: All octet string codings valid for Bearer capability

Value for a Bearer capability information element (information transfer capability = unrestricted digital information, transfer rate = multirate, rate multiplier = 30, octet 3 onwards).

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PX\_BCAPL\_UDITA\_64KB

Value type: OCTETSTRING [1]

Length of the Bearer capability information element given in PX\_BCAPV\_UDITA\_64KB\_P.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PX\_BCAPV\_UDITA\_64KB

Possible values: All octet string codings valid for Bearer capability

Value for a Bearer capability information element (information transfer capability = unrestricted digital information with tones/announcements, transfer rate = 64 kbit/s, octet 3 onwards).

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PX\_BCAPL\_UDITA\_2×64KB

Value type: OCTETSTRING [1]

Length of the Bearer capability information element given in PX\_BCAPV\_UDITA\_2×64KB\_P.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PX\_BCAPV\_UDITA\_2×64KB

Possible values: All octet string codings valid for Bearer capability

Value for a Bearer capability information element (information transfer capability = unrestricted digital information with tones/announcements, transfer rate =  $2 \times 64$  kbit/s, octet 3 onwards).

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PX\_BCAPL\_UDITA\_384KB

Value type: OCTETSTRING [1]

Length of the Bearer capability information element given in PX\_BCAPV\_UDITA\_384KB\_P.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PX\_BCAPV\_UDITA\_384KB

Possible values: All octet string codings valid for Bearer capability

Value for a Bearer capability information element (information transfer capability = unrestricted digital information with tones/announcements, transfer rate = 384 kbit/s, octet 3 onwards).

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PX\_BCAPL\_UDITA\_1 536KB

Value type: OCTETSTRING [1]

Length of the Bearer capability information element given in PX\_BCAPV\_UDITA\_1 536KB\_P.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PX\_BCAPV\_UDITA\_1 536KB

Possible values: All octet string codings valid for Bearer capability

Value for a Bearer capability information element (information transfer capability = unrestricted digital information with tones/announcements, transfer rate = 1 536 kbit/s, octet 3 onwards).

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PX\_BCAPL\_UDITA\_1 920KB

Value type: OCTETSTRING [1]

Length of the Bearer capability information element given in PX\_BCAPV\_UDITA\_1 920KB\_P.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PX\_BCAPV\_UDITA\_1 920KB

Possible values: All octet string codings valid for Bearer capability

Value for a Bearer capability information element (information transfer capability = unrestricted digital information with tones/announcements, transfer rate = 1 920 kbit/s, octet 3 onwards).

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PX\_BCAPL\_UDITA\_MULTI\_6×64KB

Value type: OCTETSTRING [1]

Length of the Bearer capability information element given in PX\_BCAPV\_UDITA\_MULTI\_6×64KB\_P.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PX\_BCAPV\_UDITA\_MULTI\_6×64KB

Possible values: All octet string codings valid for Bearer capability

Value for a Bearer capability information element (information transfer capability = unrestricted digital information with tones/announcements, transfer rate = multirate, rate multiplier = 6, octet 3 onwards).

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PX\_BCAPL\_UDITA\_MULTI\_24×64KB

Value type: OCTETSTRING [1]

Length of the Bearer capability information element given in PX\_BCAPV\_UDITA\_MULTI\_24×64KB\_P.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PX\_BCAPV\_UDITA\_MULTI\_24×64KB

Possible values: All octet string codings valid for Bearer capability

Value for a Bearer capability information element (information transfer capability = unrestricted digital information with tones/announcements, transfer rate = multirate, rate multiplier = 24, octet 3 onwards).

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PX\_BCAPL\_UDITA\_MULTI\_30×64KB

Value type: OCTETSTRING [1]

Length of the Bearer capability information element given in PX\_BCAPV\_UDITA\_MULTI\_30×64KB\_P.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PX\_BCAPV\_UDITA\_MULTI\_30×64KB

Possible values: All octet string codings valid for Bearer capability

Value for a Bearer capability information element (information transfer capability = unrestricted digital information with tones/announcements, transfer rate = multirate, rate multiplier = 30, octet 3 onwards).

|        |  |
|--------|--|
| Value: |  |
|--------|--|

## B.6.4 Parameters for ATS Interworking\_PMP

PXP\_AUTO\_ACM

Possible values: YES/NO

YES: The system under test automatically transmits an ACM message in response to an IAM message carrying the end-of-pulsing (ST) indication.

NO: The system under test does not automatically transmit an ACM message in response to an IAM message carrying the end-of-pulsing (ST) indication. The ACM message has to be triggered explicitly by a CALL PROCEEDING message on the ISDN side.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PC\_BASIC

Possible values: YES/NO

YES: The ISDN access under test is of the basic access type.

NO: The ISDN access under test is of the primary rate access type.

NOTE 1: This item shall always be set to "YES"!

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PC\_ENBLOC

Possible values: YES/NO

YES: The system under test supports the en-bloc sending procedures (i.e. sends all address information in the SETUP message).

NO: The system under test does not support the en-bloc sending procedures.

|        |  |
|--------|--|
| Value: |  |
|--------|--|



**PX\_CH\_NUM**

Possible values: 1, 2

Value for a B-channel number which the system can accept at the access associated with the main test component.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

**PX\_CR\_LENGTH**

Value type: BITSTRING [4]

NOTE 2: This item shall always be set to '0001'B!.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

**PX\_LLCL**

Value type: OCTETSTRING [1]

Length of the Low layer compatibility information element given in PX\_LLCV\_P.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

**PX\_LLCV**

Possible values: All octet string codings valid for Low layer compatibility

Value for the Low layer compatibility information element (octet 3 onwards) which the system under test accepts in incoming SETUP messages.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

**PX\_L2\_INIT**

Possible values: YES/NO

YES: The layer 2 multiple frame established operation should be re-established before the start of each test.

NO: The layer 2 multiple frame established operation should not be re-established before the start of each test.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

**PXP\_PI\_PD**

Value type: INTEGER

Progress description on the ISDN side.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

**PX\_TAC**

Value type: INTEGER

Value for the timer that controls test events initiated at the system under test by stimulus messages sent by the test tool; value in seconds.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

**PX\_TNOAC**

Value type: INTEGER

Value for the timer that controls the inactivity of the system under test to stimulus messages sent by the test tool; value in seconds.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

**PX\_T\_RESTART**

Value type: INTEGER

Value for the timer that controls the receipt of RESTART message sent by the system under test after the establishment of the layer 2 multiple frame established operation (only relevant, if PX\_WAIT\_RESTART\_P is supported); value in seconds.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

**PX\_TWAIT**

Value type: INTEGER

Value for the timer that controls test events initiated at the system under test by the parallel test component or the test operator; value in seconds.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

**PX\_WAIT\_RESTART**

Possible values: YES/NO

YES: The system sends a RESTART message after the establishment of the layer 2 multiple frame established operation.

NO: The system does not send a RESTART message after the establishment of the layer 2 multiple frame established operation.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

**PXP\_CDPNL\_ST\_S**

Value type: OCTETSTRING [1]

Length (number of octets) in PXP\_CDPNV\_ST\_P.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_CDPNV\_ST\_S

Value type: OCTETSTRING

Coding for a Called Party Number parameter (all octets following the length field) containing the complete address information and the end of pulsing signal ST, if necessary. This value is used in an IAM message.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_CGPG

Value type: BITSTRING [8]

Calling party's category field value.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_CIC\_R

Value type: BITSTRING [12]

Circuit identification code value to be sent by the IUT.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_CIC\_S

Value type: BITSTRING [12]

Circuit identification code value to be sent to the IUT.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_EE\_METHOD

Value type: BITSTRING [2]

End-to-end method indicator value of the forward call indicator.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_EE\_INFO\_IND

Value type: BITSTRING [1]

End-to-end information indicator value of the forward call indicator.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_NI\_CALL\_IND

Value type: BITSTRING [1]

National/international call indicator value of the forward call indicator.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_SCCP\_IND

Value type: BITSTRING [2]

SSCP method indicator value of the forward call indicator.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_NI\_R

Value type: BITSTRING [2]

Network indicator value.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_SLS

Value type: BITSTRING [4]

Signalling link selection value.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_SP\_IUT

Value type: INTEGER

Signalling point code value for the ISUP access under test. (DPC seen from the tester)

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_SP\_TISUP

Value type: INTEGER

Signalling point code value for the tester. (OPC seen from the tester)

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_TMR

Value type: OCTETSTRING [1]

Transmission medium requirement field value.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_T\_GUARD

Value type: INTEGER

Value for the timer that controls the execution of the tests; value in seconds.

This timer should be set to a value of a minimum of 30 s. Higher values may be required for tests checking the correct implementation of protocol timers.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

## B.6.5 Parameters for ATS ISDN\_ISUP\_SS3

### B.6.5.1 ISDN-Configuration

PC\_STREFPT

Possible values: YES/NO

YES: The ISDN access under test is of the coincident S/T reference point type.

NO: The ISDN access under test is not of the coincident S/T reference point type.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PC\_TREFPT

Possible values: YES/NO

YES: The ISDN access under test is of the T reference point type.

NO: The ISDN access under test is not of the T reference point type.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PC\_PT\_PT

Possible values: YES/NO

YES: The ISDN access under test is configured point-to-point.

NO: The ISDN access under test is not configured point-to-point.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PC\_MPT

Possible values: YES/NO

YES: The ISDN access under test is configured point-to-multipoint.

NO: The ISDN access under test is not configured point-to-multipoint.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PC\_CCNR\_subscribed

Possible values: YES/NO

YES: The ISDN access under test is subscribed to the CCNR supplementary service.

NO: The ISDN access under test is not subscribed to the CCNR supplementary service.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PC\_CCBS\_subscribed

Possible values: YES/NO

YES: The ISDN access under test is subscribed to the CCBS supplementary service.

NO: The ISDN access under test is not subscribed to the CCBS supplementary service.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PC\_CCBS\_request\_retention

Possible values: YES/NO

YES: The network option "CCBS request retention" of the system under test has the value "yes".

NO: The network option "CCBS request retention" of the system under test has the value "no".

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PX\_L2\_INIT

Possible values: YES/NO

YES: The layer 2 multiple frame established operation should be re-established before the start of each test.

NO: The layer 2 multiple frame established operation should not be re-established before the start of each test.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PX\_WAIT\_RESTART

Possible values: YES/NO

YES: The system sends a RESTART message after the establishment of the layer 2 multiple frame established operation.

NO: The system does not send a RESTART message after the establishment of the layer 2 multiple frame established operation.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

## B.6.5.2 ISDN-Parameter

### B.6.5.2.1 Address signals

PX\_CDPN\_OCTET3

Value type: OCTETSTRING [1]

Octet 3 of the Called party number information element (Type of Number and Numbering Plan Identification parameter) which the system under test accepts in outgoing SETUP messages.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PX\_CDPN\_ND

Possible values: All octet string codings valid for number digits

Complete number digits associated with the ISUP access of the parallel test component to be included in the Called party number information element which the system under test accepts in incoming SETUP messages.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PX\_RNGN\_First\_CDIV\_V

Possible values: All octet string codings valid for number digits

Number digits of the first Redirecting information element expected to be sent by the system under test. The sending of those number digits is triggered on the ISUP side with the address signals as given in PXP\_CDIV\_OCDNB\_V\_P.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PX\_RNGN\_Last\_CDIV\_V

Possible values: All octet string codings valid for number digits

Number digits of the second Redirecting information element expected to be sent by the system under test. The sending of those number digits is triggered on the ISUP side with the address signals as given in PXP\_CDIV\_RGNB\_V\_P.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PX\_RONN\_CDIV\_V

Possible values: All octet string codings valid for number digits

Number digits of the Redirection information element expected to be sent by the system under test. The sending of those number digits is triggered on the ISUP side with the address signals as given in PXP\_CDIV\_RNNB\_V\_P.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PX\_Number\_of\_B

Possible values: All hex string codings valid for number digits

Value for the addressOfB field which the system under test accepts in CCBS-T-Request invoke components of incoming REGISTER messages.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

### B.6.5.2.2 Service information (BCAP, HLC)

PX\_BCAPV

Possible values: All octet string codings valid for Bearer capability

Value for the Bearer capability information element (octet 3 onwards) which the system under test accepts in incoming SETUP messages.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PX\_HLCV1

Possible values: All octet string codings valid for High layer compatibility

Value for the High layer compatibility information element (octet 3 onwards) which the system under test accepts in incoming SETUP messages.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PX\_Q931Information

Possible values: All octet string codings valid for Q.931 information elements

Value for the q931InfoElement field (typically containing BCAP, HLC, LLC) which the system under test accepts in CCBS-T-Request invoke components of incoming REGISTER messages.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

## B.6.5.3 ISUP-Parameter

### B.6.5.3.1 Message header

PXP\_NI\_R

Value type: BITSTRING [2]

Network indicator value.

|        |  |
|--------|--|
| Value: |  |
|--------|--|



PXP\_SP\_IUT

Value type: INTEGER

Signalling point code value for the ISUP access under test. (DPC seen from the tester)

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_SP\_TISUP

Value type: INTEGER

Signalling point code value for the tester. (OPC seen from the tester)

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_SLS

Value type: BITSTRING [4]

Signalling link selection value.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_CIC\_S

Value type: BITSTRING [12]

Circuit identification code value to be sent to the IUT.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

### B.6.5.3.2 Forward call indicator

PXP\_NI\_CALL\_IND

Value type: BITSTRING [1]

National/international call indicator value of the forward call indicator.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_EE\_METHOD

Value type: BITSTRING [2]

End-to-end method indicator value of the forward call indicator.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_EE\_INFO\_IND

Value type: BITSTRING [1]

End-to-end information indicator value of the forward call indicator.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_SCCP\_IND

Value type: BITSTRING [2]

SSCP method indicator value of the forward call indicator.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

### B.6.5.3.3 Calling party's category

PXP\_CGPG

Value type: BITSTRING [8]

Calling party's category field value.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

### B.6.5.3.4 Transmission Medium Requirement

PXP\_TMR

Value type: OCTETSTRING [1]

Transmission medium requirement field value.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

### B.6.5.3.5 Address signals, to be sent on the ISUP side

PXP\_CDPNL\_NO\_ST

Value type: OCTETSTRING [1]

Length (number of octets) in PXP\_CDPNV\_NO\_ST\_P.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_CDPNV\_NO\_ST

Value type: OCTETSTRING

Coding for a Called Party Number parameter (all octets following the length field) containing the complete address information and no end of pulsing signal ST. This value is used in an IAM message.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_CDIV\_OCDNB\_OE

Value type: BITSTRING [1]

Coding for the odd/even indicator for address information as given in PXP\_CDIV\_OCDNB\_V\_P.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_CDIV\_OCNB\_V

Value type: OCTETSTRING

Coding for the address signal of an Original Called Party Number parameter (all octets following octet 3 including the filler, if needed). This value is used in an IAM message.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_CDIV\_RGNB\_OE

Value type: BITSTRING [1]

Coding for the odd/even indicator for address information as given in PXP\_CDIV\_RGNB\_V\_P.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_CDIV\_RGNB\_V

Value type: OCTETSTRING

Coding for the address signal of a Redirecting Party Number parameter (all octets following octet 3 including the filler, if needed). This value is used in an IAM message.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_CDIV\_RNNB\_OE

Value type: BITSTRING [1]

Coding for the odd/even indicator for address information as given in PXP\_CDIV\_RNNB\_V\_P.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_CDIV\_RNNB\_V

Value type: OCTETSTRING

Coding for the address signal of a Redirection Party Number parameter (all octets following octet 3 including the filler, if needed). This value is used in an IAM message.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

### B.6.5.4 Timer

#### PXP\_T\_GUARD

Value type: INTEGER

Value for the timer that controls the execution of the tests; value in seconds.

This timer should be set to a value of a minimum of 30 s. Higher values may be required for tests checking the correct implementation of protocol timers.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

#### PX\_TAC

Value type: INTEGER

Value for the timer that controls test events initiated at the system under test by stimulus messages sent by the test tool; value in seconds.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

#### PX\_TNOAC

Value type: INTEGER

Value for the timer that controls the inactivity of the system under test to stimulus messages sent by the test tool; value in seconds.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

#### PX\_T\_RESTART

Value type: INTEGER

Value for the timer that controls the receipt of RESTART message sent by the system under test after the establishment of the layer 2 multiple frame established operation (only relevant, if PX\_WAIT\_RESTART\_P is supported); value in seconds.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

#### PX\_TWAIT

Value type: INTEGER

Value for the timer that controls test events initiated at the system under test by the parallel test component or the test operator; value in seconds.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

## B.6.6 Parameters for ATS ISDN\_ISUP\_SS4

### B.6.6.1 ISDN-Configuration and Parameter

#### B.6.6.1.1 Configuration

PC\_STREFPT

Possible values: YES/NO

YES: The ISDN access under test is of the coincident S/T reference point type.

NO: The ISDN access under test is not of the coincident S/T reference point type.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PC\_TREFPT

Possible values: YES/NO

YES: The ISDN access under test is of the T reference point type.

NO: The ISDN access under test is not of the T reference point type.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PC\_PT\_PT

Possible values: YES/NO

YES: The ISDN access under test is configured point-to-point.

NO: The ISDN access under test is not configured point-to-point.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PC\_MPT

Possible values: YES/NO

YES: The ISDN access under test is configured point-to-multipoint.

NO: The ISDN access under test is not configured point-to-multipoint.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PX\_L2\_INIT

Possible values: YES/NO

YES: The layer 2 multiple frame established operation should be re-established before the start of each test.

NO: The layer 2 multiple frame established operation should not be re-established before the start of each test.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

## PX\_WAIT\_RESTART

Possible values: YES/NO

YES: The system sends a RESTART message after the establishment of the layer 2 multiple frame established operation.

NO: The system does not send a RESTART message after the establishment of the layer 2 multiple frame established operation.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

## PC\_3PTY\_subscribed

Possible values: YES/NO

YES: The ISDN access under test is subscribed to the 3PTY supplementary service.

NO: The ISDN access under test is not subscribed to the 3PTY supplementary service.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

## PC\_CUG\_subscribed

Possible values: YES/NO

YES: The ISDN access under test is subscribed to the CUG supplementary service.

NO: The ISDN access under test is not subscribed to the CUG supplementary service.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

## PC\_CUG\_Barring\_Dif\_OC

Possible values: YES/NO

YES: The CUG subscription option "Barring within the CUG" of the system under test has a value other than "outgoing call".

NO: The CUG subscription option "Barring within the CUG" of the system under test has the value "outgoing call".

|        |  |
|--------|--|
| Value: |  |
|--------|--|

## PC\_CUG\_Barring\_Dif\_IC

Possible values: YES/NO

YES: The CUG subscription option "Barring within the CUG" of the system under test has a value other than "outgoing call".

NO: The CUG subscription option "Barring within the CUG" of the system under test has the value "outgoing call".

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PC\_CUG\_Pref\_Nom

Possible values: YES/NO

YES: The ISDN number subscription option "preferential CUG" of the system under test has the value "nominated CUGIndex".

NO: The ISDN number subscription option "preferential CUG" of the system under test has the value "none designated".

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PC\_CUG\_Outgoing\_Allowed

Possible values: YES/NO

YES: The ISDN number subscription option "outgoing access" of the system under test has the value "allowed".

NO: The ISDN number subscription option "outgoing access" of the system under test has the value "not allowed".

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PC\_CUG\_Incoming\_Allowed

Possible values: YES/NO

YES: The ISDN number subscription option "incoming access" of the system under test has the value "allowed".

NO: The ISDN number subscription option "incoming access" of the system under test has the value "not allowed".

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PC\_UUS1\_imp\_subscribed

Possible values: YES/NO

YES: The ISDN access under test is subscribed to the USS1 supplementary service, implicit request.

NO: The ISDN access under test is not subscribed to the UUS1 supplementary service, implicit request.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PC\_UUS1\_exp\_subscribed

Possible values: YES/NO

YES: The ISDN access under test is subscribed to the USS1 supplementary service, explicit request.

NO: The ISDN access under test is not subscribed to the UUS1 supplementary service, explicit request.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

### B.6.6.1.2 Address signals

PX\_CDPN\_ND

Possible values: All octet string codings valid for number digits

Complete number digits associated with the ISUP access of the parallel test component to be included in the Called party number information element which the system under test accepts in incoming SETUP messages.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PX\_CDPN\_OCTET3

Value type: OCTETSTRING [1]

Octet 3 of the Called party number information element (Type of Number and Numbering Plan Identification parameter) which the system under test accepts in outgoing SETUP messages.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

### B.6.6.1.3 Service information (BCAP, HLC)

PX\_BCAPV

Possible values: All octet string codings valid for Bearer capability

Value for the Bearer capability information element (octet 3 onwards) which the system under test accepts in incoming SETUP messages.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PX\_HLCV1

Possible values: All octet string codings valid for High layer compatibility

Value for the High layer compatibility information element (octet 3 onwards) which the system under test accepts in incoming SETUP messages.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PX\_CUG\_Index

Valid type: INTEGER

Value for the CUG index.

|        |  |
|--------|--|
| Value: |  |
|--------|--|



## B.6.6.2 ISUP-Parameter

### B.6.6.2.1 Address signals, to be sent on the ISUP side

PXP\_CDPNL\_NO\_ST

Value type: OCTETSTRING [1]

Length (number of octets) in PXP\_CDPNV\_NO\_ST\_P.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_CDPNV\_NO\_ST

Value type: OCTETSTRING

Coding for a Called Party Number parameter (all octets following the length field) containing the complete address information and no end of pulsing signal ST. This value is used in an IAM message.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

### B.6.6.2.2 Message header

PXP\_NI\_R

Value type: BITSTRING [2]

Network indicator value.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_SP\_IUT

Value type: INTEGER

Signalling point code value for the ISUP access under test. (DPC seen from the tester)

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_SP\_TISUP

Value type: INTEGER

Signalling point code value for the tester. (OPC seen from the tester)

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_SLS

Value type: BITSTRING [4]

Signalling link selection value.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_CIC\_S

Value type: BITSTRING [12]

Circuit identification code value to be sent to the IUT.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_CIC\_S2

Value type: BITSTRING [12]

Circuit identification code value for a second call to be sent to the IUT.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

### B.6.6.2.3 Forward call indicator

PXP\_NI\_CALL\_IND

Value type: BITSTRING [1]

National/international call indicator value of the forward call indicator.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_EE\_METHOD

Value type: BITSTRING [2]

End-to-end method indicator value of the forward call indicator.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_EE\_INFO\_IND

Value type: BITSTRING [1]

End-to-end information indicator value of the forward call indicator.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_SCCP\_IND

Value type: BITSTRING [2]

SSCP method indicator value of the forward call indicator.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

#### B.6.6.2.4 Calling party's category

PXP\_CGPG

Value type: BITSTRING [8]

Calling party's category field value.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

#### B.6.6.2.5 Transmission Medium Requirement

PXP\_TMR\_PPXP\_CUG\_IC

Value type: OCTETSTRING [1]

Transmission medium requirement field value.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

#### B.6.6.2.6 CUG Interlock codes

PXP\_CUG\_IC

Value type: OCTETSTRING [4]

CUG interlock code of the CUG the ISDN access under test belongs to.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_WCUG\_IC

Value type: OCTETSTRING [4]

CUG interlock code of a CUG the ISDN access under test does not belong to.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

#### B.6.6.3 Timer

PXP\_T\_GUARD

Value type: INTEGER

Value for the timer that controls the execution of the tests; value in seconds.

This timer should be set to a value of a minimum of 30 seconds. Higher values may be required for tests checking the correct implementation of protocol timers.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

**PX\_TAC**

Value type: INTEGER

Value for the timer that controls test events initiated at the system under test by stimulus messages sent by the test tool; value in seconds.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

**PX\_TNOAC**

Value type: INTEGER

Value for the timer that controls the inactivity of the system under test to stimulus messages sent by the test tool; value in seconds.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

**PX\_T\_RESTART**

Value type: INTEGER

Value for the timer that controls the receipt of RESTART message sent by the system under test after the establishment of the layer 2 multiple frame established operation (only relevant, if PX\_WAIT\_RESTART\_P is supported); value in seconds.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

**PX\_TWAIT**

Value type: INTEGER

Value for the timer that controls test events initiated at the system under test by the parallel test component or the test operator; value in seconds.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

**B.6.7 Parameters for ATS ISDN\_ISUP\_SS3****B.6.7.1 ISDN-Configuration****B.6.7.1.1 Configuration details****PC\_STREFPT**

Possible values: YES/NO

YES: The ISDN access under test is of the coincident S/T reference point type.

NO: The ISDN access under test is not of the coincident S/T reference point type.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

**PC\_TREFPT**

Possible values: YES/NO

YES: The ISDN access under test is of the T reference point type.

NO: The ISDN access under test is not of the T reference point type.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

**PC\_PT\_PT**

Possible values: YES/NO

YES: The ISDN access under test is configured point-to-point.

NO: The ISDN access under test is not configured point-to-point.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

**PC\_MPT**

Possible values: YES/NO

YES: The ISDN access under test is configured point-to-multipoint.

NO: The ISDN access under test is not configured point-to-multipoint.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

**PX\_L2\_INIT**

Possible values: YES/NO

YES: The layer 2 multiple frame established operation should be re-established before the start of each test.

NO: The layer 2 multiple frame established operation should not be re-established before the start of each test.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

**PX\_WAIT\_RESTART**

Possible values: YES/NO

YES: The system sends a RESTART message after the establishment of the layer 2 multiple frame established operation.

NO: The system does not send a RESTART message after the establishment of the layer 2 multiple frame established operation.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

### B.6.7.1.2 Address signals

PX\_CDPN\_OCTET3

Value type: OCTETSTRING [1]

Octet 3 of the Called party number information element (Type of Number and Numbering Plan Identification parameter) which the system under test accepts in outgoing SETUP messages.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PX\_CDPN\_ND

Possible values: All octet string codings valid for number digits

Complete number digits associated with the ISUP access of the parallel test component to be included in the Called party number information element which the system under test accepts in incoming SETUP messages.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

### B.6.7.1.3 Service information (BCAP, HLC)

PX\_BCAPV

Possible values: All octet string codings valid for Bearer capability

Value for the Bearer capability information element (octet 3 onwards) which the system under test accepts in incoming SETUP messages.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PX\_HLCV1

Possible values: All octet string codings valid for High layer compatibility

Value for the High layer compatibility information element (octet 3 onwards) which the system under test accepts in incoming SETUP messages.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PC\_CCNr\_subscribed

Possible values: YES/NO

YES: The ISDN access under test is subscribed to the CCNR supplementary service.

NO: The ISDN access under test is not subscribed to the CCNR supplementary service.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

### B.6.7.2 ISDN-Subscription Options

PC\_CLIP\_subscribed

Possible values: YES/NO

YES: The ISDN access under test is subscribed to the CLIP supplementary service.

NO: The ISDN access under test is not subscribed to the CLIP supplementary service.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PC\_CLIP\_special\_arrangement

Possible values: YES/NO

YES: The special arrangement (no screening) applies for the CLIP supplementary service.

NO: The special arrangement (no screening) does not apply for the CLIP supplementary service.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PC\_CLIP\_two\_calling\_party

Possible values: YES/NO

YES: The delivery of two calling party information elements in a SETUP message is supported.

NO: The delivery of two calling party information elements in a SETUP message is not supported.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PC\_CLIP\_Failure\_screening

Possible values: YES/NO

YES: The failure of the CLIP screening function can be provoked.

NO: The failure of the CLIP screening function cannot be provoked.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PC\_CLIR\_subscribed

Possible values: YES/NO

YES: The ISDN access under test is subscribed to the CLIR supplementary service.

NO: The ISDN access under test is not subscribed to the CLIR supplementary service.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PC\_CLIR\_special\_arrangement

Possible values: YES/NO

YES: The special arrangement (no screening) applies for the CLIR supplementary service.

NO: The special arrangement (no screening) does not apply for the CLIR supplementary service.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PC\_CLIR\_permanent\_mode

Possible values: YES/NO

YES: The permanent mode applies for the CLIR supplementary service.

NO: The permanent mode does not apply for the CLIR supplementary service.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PC\_CLIR\_Temporary\_restricted

Possible values: YES/NO

YES: The temporary mode with default value "restricted" applies for the CLIR supplementary service.

NO: The temporary mode with default value "restricted" does not apply for the CLIR supplementary service.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PC\_CLIR\_Temporary\_allowed

Possible values: YES/NO

YES: The temporary mode with default value "not restricted" applies for the CLIR supplementary service.

NO: The temporary mode with default value "not restricted" does not apply for the CLIR supplementary service.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PC\_COLP\_subscribed

Possible values: YES/NO

YES: The ISDN access under test is subscribed to the COLP supplementary service.

NO: The ISDN access under test is not subscribed to the COLP supplementary service.

|        |  |
|--------|--|
| Value: |  |
|--------|--|



PC\_COLP\_special\_arrangement

Possible values: YES/NO

YES: The special arrangement (no screening) applies for the COLP supplementary service.

NO: The special arrangement (no screening) does not apply for the COLP supplementary service.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PC\_COLP\_Failure\_screening

Possible values: YES/NO

YES: The failure of the COLP screening function can be provoked.

NO: The failure of the COLP screening function cannot be provoked.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PC\_COLR\_subscribed

Possible values: YES/NO

YES: The ISDN access under test is subscribed to the COLR supplementary service.

NO: The ISDN access under test is not subscribed to the COLR supplementary service.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PC\_COLR\_special\_arrangement

Possible values: YES/NO

YES: The special arrangement (no screening) applies for the COLR supplementary service.

NO: The special arrangement (no screening) does not apply for the COLR supplementary service.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PC\_COLR\_permanent\_mode

Possible values: YES/NO

YES: The permanent mode applies for the COLR supplementary service.

NO: The permanent mode does not apply for the COLR supplementary service.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PC\_COLR\_Temporary\_restricted

Possible values: YES/NO

YES: The temporary mode with default value "restricted" applies for the COLR supplementary service.

NO: The temporary mode with default value "restricted" does not apply for the COLR supplementary service.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PC\_COLR\_Temporary\_allowed

Possible values: YES/NO

YES: The temporary mode with default value "not restricted" applies for the COLR supplementary service.

NO: The temporary mode with default value "not restricted" does not apply for the COLR supplementary service.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PC\_SUB\_subscribed

Possible values: YES/NO

YES: The ISDN access under test is subscribed to the SUB supplementary service.

NO: The ISDN access under test is not subscribed to the SUB supplementary service.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PC\_CW\_Notification\_delivered

Possible values: YES/NO

YES: The Notification of CW (received in the ALERTING) is passed to an ISUP message (ACM or CPG).

NO: The Notification of CW (received in the ALERTING) is not passed to an ISUP message (ACM or CPG).

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PC\_HOLD\_subscribed

Possible values: YES/NO

YES: The ISDN access under test is subscribed to the HOLD supplementary service.

NO: The ISDN access under test is not subscribed to the HOLD supplementary service.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PC\_HOLD\_N4\_supported

Possible values: YES/NO

YES: The activation of the HOLD supplementary service in call state N4 is supported.

NO: The activation of the HOLD supplementary service in call state N4 is not supported.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PC\_TP\_subscribed

Possible values: YES/NO

YES: The ISDN access under test is subscribed to the TP supplementary service.

NO: The ISDN access under test is not subscribed to the TP supplementary service.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

### B.6.7.3 ISUP-Parameter

#### B.6.7.3.1 Address signals, to be sent on the ISUP side

PXP\_CDPNL\_NO\_ST

Value type: OCTETSTRING [1]

Length (number of octets) in PXP\_CDPNV\_NO\_ST\_P.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_CDPNV\_NO\_ST

Value type: OCTETSTRING

Coding for a Called Party Number parameter (all octets following the length field) containing the complete address information and no end of pulsing signal ST. This value is used in an IAM message.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

#### B.6.7.3.2 Message header

PXP\_NI\_R

Value type: BITSTRING [2]

Network indicator value.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_SP\_IUT

Value type: INTEGER

Signalling point code value for the ISUP access under test. (DPC seen from the tester)

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_SP\_TISUP

Value type: INTEGER

Signalling point code value for the tester. (OPC seen from the tester)

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_SLS

Value type: BITSTRING [4]

Signalling link selection value.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_CIC\_S

Value type: BITSTRING [12]

Circuit identification code value to be sent to the IUT.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

### B.6.7.3.3 Forward call indicator

PXP\_NI\_CALL\_IND

Value type: BITSTRING [1]

National/international call indicator value of the forward call indicator.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_EE\_METHOD

Value type: BITSTRING [2]

End-to-end method indicator value of the forward call indicator.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_EE\_INFO\_IND

Value type: BITSTRING [1]

End-to-end information indicator value of the forward call indicator.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_SCCP\_IND

Value type: BITSTRING [2]

SSCP method indicator value of the forward call indicator.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

#### B.6.7.3.4 Calling party's category

PXP\_CGPG

Value type: BITSTRING [8]

Calling party's category field value.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

#### B.6.7.3.5 Transmission Medium Requirement

PXP\_TMR

Value type: OCTETSTRING [1]

Transmission medium requirement field value.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

### B.6.7.4 ISDN-ISUP-Numbers

#### B.6.7.4.1 ISDN number digits, sent to the SUT

PX\_NAT\_NUMBER

Value type: OCTETSTRING

Coding for the number digits of a complete and valid national number.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PX\_INTERNAT\_NUMBER

Value type: OCTETSTRING

Coding for the number digits of a complete and valid international number.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PX\_INCOMP\_NUMBER

Value type: OCTETSTRING

Coding for the number digits of an incomplete but valid number.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PX\_SUBSCR\_NUMBER

Value type: OCTETSTRING

Coding for the number digits of a complete and valid subscriber number.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PX\_INV\_NUMBER

Value type: OCTETSTRING

Coding for the number digits of an invalid number.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

#### B.6.7.4.2 ISDN number digits, sent to the tester

PX\_NAT\_NUMBER\_R

Value type: OCTETSTRING

Coding for the number digits of a national number. The sending of those number digits is triggered on the ISUP side with the address signals as given in PXP\_NAT\_NUMBER\_P.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PX\_INTERNAT\_NUMBER\_R

Value type: OCTETSTRING

Coding for the number digits of an international number. The sending of those number digits is triggered on the ISUP side with the address signals as given in PXP\_INTERNAT\_NUMBER\_P.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

#### B.6.7.4.3 ISUP address signals, sent to the tester

PXP\_DEFAULT\_NUMBER

Value type: OCTETSTRING

Coding for the address digits of the network provided default number.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_NAT\_NUMBER\_R

Value type: OCTETSTRING

Coding for the address digits of a national number. The sending of those address signals is triggered on the ISDN side with the number digits as given in PX\_NAT\_NUMBER\_P.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_INTERNAT\_NUMBER\_R

Value type: OCTETSTRING

Coding for the address digits of an international number. The sending of those address signals is triggered on the ISDN side with the number digits as given in PX\_INTERNAT\_NUMBER\_P.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_INCOMP\_NUMBER\_R

Value type: OCTETSTRING

Coding for the address digits of an incomplete number that has been completed by the network. The sending of those address signals is triggered on the ISDN side with the number digits as given in PX\_INCOMP\_NUMBER\_P.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_SUBSCR\_NUMBER\_R

Value type: OCTETSTRING

Coding for the address digits of a subscriber number. The sending of those address signals is triggered on the ISDN side with the number digits as given in PX\_NAT\_SUBSCR\_NUMBER\_P.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

#### B.6.7.4.4 ISUP address signals, sent to the SUT

PXP\_NAT\_NUMBER\_OE

Value type: BITSTRING [1]

Coding for the odd/even indicator for address information as given in PXP\_NAT\_NUMBER\_P.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_NAT\_NUMBER

Value type: OCTETSTRING

Coding for the address signals of a complete and valid national number

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_INTERNAT\_NUMBER\_OE

Value type: BITSTRING [1]

Coding for the odd/even indicator for address information as given in PXP\_INTERNAT\_NUMBER\_P.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PXP\_INTERNAT\_NUMBER

Value type: OCTETSTRING

Coding for the address signals of a complete and valid international number

|        |  |
|--------|--|
| Value: |  |
|--------|--|

## B.6.7.5 Timer

PXP\_T\_GUARD

Value type: INTEGER

Value for the timer that controls the execution of the tests; value in seconds.

This timer should be set to a value of a minimum of 30 seconds. Higher values may be required for tests checking the correct implementation of protocol timers.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PX\_TAC

Value type: INTEGER

Value for the timer that controls test events initiated at the system under test by stimulus messages sent by the test tool; value in seconds.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

PX\_TNOAC

Value type: INTEGER

Value for the timer that controls the inactivity of the system under test to stimulus messages sent by the test tool; value in seconds.

|        |  |
|--------|--|
| Value: |  |
|--------|--|



**PX\_T\_RESTART**

Value type: INTEGER

Value for the timer that controls the receipt of RESTART message sent by the system under test after the establishment of the layer 2 multiple frame established operation (only relevant, if PX\_WAIT\_RESTART\_P is supported); value in seconds.

|        |  |
|--------|--|
| Value: |  |
|--------|--|

**PX\_TWAIT**

Value type: INTEGER

Value for the timer that controls test events initiated at the system under test by the parallel test component or the test operator; value in seconds.

---

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

This ATS has been produced using the Tree and Tabular Combined Notation (TTCN) according to ISO/IEC 9646-3 [8].

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

---

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

The TTCN.GR representations of these five ATSs are contained in Adobe Portable Document Format™ files contained in archive en\_30089904v010101v0.ZIP which accompanies the present document.

The names of the Adobe Portable Document Format™ files for the ATSs are:

|                         |              |
|-------------------------|--------------|
| Interworking_ISDN_ISUP: | isupp25.pdf  |
| Interworking_PMP:       | isupm7.pdf   |
| ISDN_ISUP_SS3:          | isupsw15.pdf |
| ISDN_ISUP_SS4:          | isups_x7.pdf |
| ISDN_ISUP_SS5:          | isups_y6.pdf |

---

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

The TTCN.MP representations corresponding to these five ATSs are contained in ASCII files contained in archive en\_30089904v010101v0.ZIP which accompanies the present document.

The names of the ASCII files for the ATSs are:

|                         |             |
|-------------------------|-------------|
| Interworking_ISDN_ISUP: | isupp25.mp  |
| Interworking_PMP:       | isupm7.mp   |
| ISDN_ISUP_SS3:          | isupsw15.mp |
| ISDN_ISUP_SS4:          | isups_x7.mp |
| ISDN_ISUP_SS5:          | isups_y6.mp |

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

---

## Annex D (informative): Bibliography

- ETSI EN 300 899-2: "Integrated Services Digital Network (ISDN); Signalling System No.7; Interworking between ISDN User Part (ISUP) version 2 and Digital Subscriber Signalling System No. one (DSS1); Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification".
- ETSI ETS 300 356-1 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 1: Basic services [ITU-T Recommendations Q.761 to Q.764 (1993), modified]".
- ETSI EN 300 403-1: "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; Signalling network layer for circuit-mode basic call control; Part 1: Protocol specification [ITU-T Recommendation Q.931 (1993), modified]".
- ETSI EN 300 485: "Integrated Services Digital Network (ISDN); Definition and usage of cause and location in Digital Subscriber Signalling System No. one (DSS1) and Signalling System No. 7 (SS7) ISDN User Part (ISUP) [ITU-T Recommendation Q.850 (1998) with addendum modified]".
- ETSI ETS 300 356-9 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 9: Closed User Group (CUG) supplementary service [ITU-T Recommendation Q.735, clause 1 (1993), modified]".
- ETSI EN 300 092-1: "Integrated Services Digital Network (ISDN); Calling Line Identification Presentation (CLIP) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- ETSI EN 300 093-1: "Integrated Services Digital Network (ISDN); Calling Line Identification Restriction (CLIR) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- ETSI EN 300 097-1: "Integrated Services Digital Network (ISDN); Connected Line Identification Presentation (COLP) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- ETSI EN 300 098-1: "Integrated Services Digital Network (ISDN); Connected Line Identification Restriction (COLR) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- ETSI EN 300 207-1: "Integrated Services Digital Network (ISDN); Diversion supplementary services; Digital Subscriber Signalling System No. One (DSS1); Part 1: Protocol specification".
- ETSI EN 300 061-1: "Integrated Services Digital Network (ISDN); Subaddressing (SUB) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- ETSI EN 300 058-1: "Integrated Services Digital Network (ISDN); Call Waiting (CW) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- ETSI EN 300 141-1: "Integrated Services Digital Network (ISDN); Call Hold (HOLD) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- ETSI EN 300 055-1: "Integrated Services Digital Network (ISDN); Terminal Portability (TP) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- ETSI EN 300 185-1: "Integrated Services Digital Network (ISDN); Conference call, add-on (CONF) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- ETSI EN 300 188-1: "Integrated Services Digital Network (ISDN); Three-Party (3PTY) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".

- ETSI EN 300 138-1: "Integrated Services Digital Network (ISDN); Closed User Group (CUG) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- ETSI EN 300 286-1: "Integrated Services Digital Network (ISDN); User-to-User Signalling (UUS) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- ETSI EN 300 359-1: "Integrated Services Digital Network (ISDN); Completion of Calls to Busy Subscriber (CCBS) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- ETSI EN 300 369-1: "Integrated Services Digital Network (ISDN); Explicit Call Transfer (ECT) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- ETSI EN 301 065-1: "Integrated Services Digital Network (ISDN); Completion of Calls on No Reply (CCNR) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- ETSI EN 300 356-20: "Integrated Services Digital Network (ISDN); Signalling System No.7 (SS7); ISDN User Part (ISUP) version 4 for the international interface; Part 20: Completion of Calls on No Reply (CCNR) supplementary service [ITU-T Recommendation Q.733, clause 5 (1999) modified]".
- ETSI EN 300 356-9: "Integrated Services Digital Network (ISDN); Signalling System No.7 (SS7); ISDN User Part (ISUP) version 4 for the international interface; Part 9: Closed User Group (CUG) supplementary service [ITU-T Recommendation Q.735, clause 1 (1993) modified]".

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## History

| Document history |                |                                                      |
|------------------|----------------|------------------------------------------------------|
| V1.1.1           | September 2001 | Public Enquiry PE 20020111: 2001-09-12 to 2002-01-11 |
| V1.1.1           | January 2002   | Vote V 20020329: 2002-01-28 to 2002-03-29            |
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