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8 [[]HJbc`ca fYy`Y`n`]bhY[f]fUb]a]`g]hcf]h] Ua]`f]G8 BŁĚ`G][bU]nUWY`UýH`+`Ě`DcXdcfU
Ud`_ UWY`bUj]XYnbY[UnUgYVbY[Uca fYy`UfU DBŁ`n`]bZ`fa UWY`g_]a]`hc_cj]
g][bU]nUWY`g_Y[Ug]ghYa U%fDDG%Łj`fYZfYb b]`hc_]`E`nUgYVbY[Uca fYy`UĚ`&"
XY`:`n`Uj Uc`g_`UXbcgh`]nj YXVY`dfc`hc_c`U`fD`7 GLĚ`DfcZ`fa UgdyWY`Z_ UWY`U

Integrated Services Digital Network (ISDN); Signalling System No.7; Support of Virtual Private Network (VPN) applications with Private network Q reference point Signalling System number 1 (PSS1) information flows; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification

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**Integrated Services Digital Network (ISDN);
Signalling System No.7;
Support of Virtual Private Network (VPN)
applications with Private network Q reference point
Signalling System number 1 (PSS1) information flows;
Part 2: Protocol Implementation Conformance
Statement (PICS) proforma specification**

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Foreword

This European Standard (Telecommunications series) has been produced by ETSI Technical Committee Services and Protocols for Advanced Networks (SPAN).

The present document is part 2 of a multi-part EN covering the Integrated Services Digital Network (ISDN); Signalling System No.7; Support of Virtual Private Network (VPN) applications with Private network Q reference point Signalling System number 1 (PSS1) information flows, as identified below:

- Part 1: "Protocol specification [ITU-T Recommendations Q.765.1 and Q.699.1, 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) specification".

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Date of latest publication of new National Standard or endorsement of this EN (dop/e):	31 March 2001
Date of withdrawal of any conflicting National Standard (dow):	31 March 2001

1 Scope

The present document contains the validation (conformance) test specification for the application transport mechanism, support of VPN applications with PSS1 information flows' defined in ITU-T Recommendation Q.765.1 [9]. The present document applies only to exchanges having implemented the ISUP v3 protocol specification for the Application Transport Mechanism and APM support of VPN applications for the exchange. It is applicable for validation testing of all types of exchanges as defined in the ISUP v3 protocol specification. The present document does not deal with compatibility testing.

The main body of the present document presents the protocol implementation conformance statements (PICS). The document EN 301 062-3 [1] presents the test suite structure and test purposes (TSS&TP) and the document EN 301 062-4 [2] presents the protocol implementation extra information for testing (PIXIT), protocol conformance test report (PCTR) and the ATS for the Application Transport Mechanism, support of VPN applications with PSS1 information flows' the last one being available on electronic media.

The supplier of an implementation that is claimed to conform to the reference specification for the Signalling System Number 7, Application Transport Mechanism, support of VPN applications with PSS1 information flows' ITU-T Recommendation Q.765.1 [9] is required to complete a copy of the PICS proforma provided in annex A in the present document.

2 References

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

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies.
- A non-specific reference to an ETS shall also be taken to refer to later versions published as an EN with the same number.

- [1] ETSI EN 301 062-3: "Integrated Services Digital Network (ISDN); Signalling System No.7; Support of Virtual Private Network (VPN) applications with Private network Q reference point Signalling System number 1 (PSS1) information flows; Part 3: Test Suite Structure and Test Purposes (TSS&TP) proforma specification".
- [2] ETSI EN 301 062-4: "Integrated Services Digital Network (ISDN); Signalling System No.7; Support of Virtual Private Network (VPN) applications with Private network Q reference point Signalling System number 1 (PSS1) information flows; Part 4: Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) specification".
- [3] ITU-T Recommendation E.164: "The international public telecommunication numbering plan".
- [4] ITU-T Recommendation Q.761: "Signalling System No. 7 - ISDN User Part functional description".
- [5] ITU-T Recommendation Q.762: "Signalling System No. 7 - ISDN user part general functions of messages and signals".
- [6] ITU-T Recommendation Q.763: "Signalling System No. 7 - ISDN user part formats and codes".
- [7] ITU-T Recommendation Q.764: "Signalling System No. 7 - ISDN user part signalling procedures".
- [8] ITU-T Recommendation Q.765: "Signalling System No. 7 - Application transport mechanism".

- [9] ITU-T Recommendation Q.765.1: "Signalling System No. 7 - Application transport mechanism: Support of VPN applications with PSS1 information flows".
- [10] ISO/IEC 9646-1: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 1: General concepts".
- [11] ISO/IEC 9646-3: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 3: The Tree and Tabular Combined Notation (TTCN)".
- [12] ISO/IEC 9646-7: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance Statements".

3 Definitions and abbreviations

3.1 Definitions

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

- terms defined in ISDN User Part (ISUP) reference specification in ITU-T Recommendations Q.765.1 [9], Q.765 [8], Q.763 [6] and Q.764 [7];
- terms defined in ISO/IEC 9646-1 [10], ISO/IEC 9646-3 [11] and in ISO/IEC 9646-7 [12].

In particular, the following terms 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 [10], subclause 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 [10], subclause 3.3.5)

Abstract Test Suite (ATS): test suite composed of abstract test cases (see ISO/IEC 9646-1 [10], subclause 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 [10], subclause 3.3.43)

ISDN number: number conforming to the numbering and structure specified in ITU-T Recommendation E.164 [3]

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 [10], subclause 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 [10], subclause 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 [10], subclause 3.3.39 and subclause 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 [10], subclause 3.3.41 and subclause 3.3.81)

System Under Test (SUT): real open system in which the IUT resides (see ISO/IEC 9646-1 [10], subclause 3.3.103)

3.2 Abbreviations

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

ATM	Abstract Test Method
ATS	Abstract Test Suite
DLE	Destination Local Exchange
ICS	Implementation Conformance Statement
ISDN	Integrated Services Digital Network
ISUP	ISDN User Part
IUT	Implementation Under Test
OLE	Originating Local Exchange
MOT	Means Of Testing
PAN	Public Addressed Node
PICS	Protocol Implementation Conformance Statement
PIN	Public Initiated Node
PINX	Private Integrated Services Network Exchange
PIXIT	Protocol Implementation eXtra Information for Testing
PSS1	Private network Q reference point Signalling System number 1
SUT	System Under Test
TP	Test Purpose (context dependent)
TSS	Test Suite Structure
TSS&TP	Test Suite Structure and Test Purposes
TTCN	Tree and Tabular Combined Notation
VPN	Virtual Private Network

The ISUP message acronyms can be found in table 2/ITU-T Recommendation Q.762 [5].

The APM primitives acronyms can be found in the different tables of ITU-T Recommendation Q.765 [8].

The VPN primitives acronyms can be found in the different tables of ITU-T Recommendation Q.765.1 [9].

The following abbreviations apply for ISUP parameters and parameter values:

AdSg	Address Signals
CgPN	Calling Party Number
GenNot	Generic Notification
TMR	Transmission Medium Requirement
USI	User Service Indicator