SLOVENSKI STANDARD
SIST EN 302 093-3 V1.1.2:2005

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ü]fc_cdUgcj bc˙X][ ]HU˙bc˙ca fYÿˆY˙n˙]bhˊY[f]fUb]a]˙ghˊcf]hj Ua]˙f6 !=G8 BŁˈ˙Dfchˊc_c`
X][ ]HU˙bY˙bUfc b]ý_Y˙g][bU˙]nUWˊˊY˙ýH˝&˙fB GG&ŁˈˊGdYWˊZ_UWˊˊU_fa]ˊˆYbˊU
j Y nj YnbY[U˙bcgˊWU˙cX˙hˊc _YˊXcˊhˊc _Y˙j˙c_c`˄ ž_ˆYfˊghU˙_˙]W]bˊbcgˊYW˙c YbUˈ˙" "
XYˈˊˊN[f UXVU˙dfYg_i ýU˙bY[U˙b]nU˙]bˊbUa Yb˙dfYg_i ýUˊU˙fHGG˝ HDŁˈˊGdYWˊZ_UWˊˊU

Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling
System No. two (DSS2) protocol; Point-to-point multiconnection bearer control
specification in a separated call and bearer environment; Part 3 : Test Suite Structure
and Test Purposes (TSS&TP) specification

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European Standard (Telecommunications series)

Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; Point-to-point multiconnection bearer control specification in a separated call and bearer environment; Part 3: Test Suite Structure and Test Purposes (TSS&TP) specification

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Foreword

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

The present document is part 3 of a multi-part EN covering the Digital Subscriber Signalling System No. two (DSS2) protocol; Point-to-point multiconnection bearer control specification in a separated call and bearer environment, as identified below:

    Part 1:   "Protocol specification";

    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 ".

National transposition dates	
Date of adoption of this EN:	5 May 2000
Date of latest announcement of this EN (doa):	31 August 2000
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	28 February 2001
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1   Scope

The present document specifies the Test Suite Structure and Test Purposes (TSS&TP) for the T_B reference point or coincident S_B and T_B reference point (as defined in ITU-T Recommendation I.413 [5]) of implementations conforming to the standards for the signalling user-network layer 3 specification for the bearer control protocol for point-to-point multiconnection calls of the Digital Subscriber Signalling System No. two (DSS2) protocol for the pan-European Broadband Integrated Services Digital Network (B-ISDN), EN 302 093-1 [1].

A further part of the present document specifies the Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma based on 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 302 093-1: "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; Point-to-point multiconnection bearer control specification in a separated call and bearer environment; Part 1: Protocol specification".

[2]   ETSI EN 302 093-2: "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; Point-to-point multiconnection bearer control specification in a separated call and bearer environment; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification".

[3]   ISO/IEC 9646-1 (1994): "Information technology; Open Systems Interconnection; Conformance testing methodology and framework; Part 1: General concepts".

[4]   ISO/IEC 9646-2 (1994): "Information technology; Open Systems Interconnection; Conformance testing methodology and framework; Part 2: Abstract Test Suite specification".

[5]   ITU-T Recommendation I.413 (1993): "B-ISDN user-network interface".

[6]   ETSI ETS 300 406: "Methods for Testing and Specification (MTS); Protocol and profile conformance testing specifications; Standardization methodology".

[7]   ETSI EN 300 443-1: "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; B-ISDN user-network interface layer 3 specification for basic call/bearer control; Part 1: Protocol specification [ITU-T Recommendation Q.2931 (1995), modified]".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the following terms and definitions apply, in addition to those given in EN 302 093-1 [1].

Abstract test case: refer to ISO/IEC 9646-1 [3].

Abstract Test Method (ATM): refer to ISO/IEC 9646-1 [3].

Abstract Test Suite (ATS): refer to ISO/IEC 9646-1 [3].

Implementation Under Test (IUT): refer to ISO/IEC 9646-1 [3].

Lower tester: refer to ISO/IEC 9646-1 [3].

Protocol Implementation Conformance Statement (PICS): refer to ISO/IEC 9646-1 [3].

PICS proforma: refer to ISO/IEC 9646-1 [3].

Protocol Implementation eXtra Information for Testing (PIXIT): refer to ISO/IEC 9646-1 [3].

PIXIT proforma: refer to ISO/IEC 9646-1 [3].

Test Purpose (TP): refer to ISO/IEC 9646-1 [3].

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3.2 Abbreviations (standards.iteh.ai)

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

ATM	Abstract Test Method
ATS	Abstract Test Suite
DSS2	Digital Subscriber Signalling System No. two
B-ISDN	Broadband Integrated Services Digital Network
IUT	Implementation Under Test
PICS	Protocol Implementation Conformance Statement
PIXIT	Protocol Implementation eXtra Information for Testing
TP	Test Purpose
TSS	Test Suite Structure

4 Test Suite Structure (TSS)

- Signalling procedures at the coincident S_B/T_B and at the T_B reference points
- Preceding side...(01)
- Succeeding side ....(02)
- Error handling...(03)

Figure 1: Test suite structure

5   Test Purposes (TP)

5.1   Introduction

For each test requirement a TP is defined.

5.1.1   TP naming convention

TPs are numbered, starting at 01, within each group. Groups are organized according to the TSS. Additional references are added to identify the actual test suite (see table 1).

Table 1: TP identifier naming convention scheme

Identifier:		<suite_id>_<group>_<nnn>	
<suite_id>	=	layer + type of IUT:	"L3BC" for **L**ayer **3 B**earer **C**ontrol
<group>	=	group number:	two character field representing the group reference according to TSS
<nn>	=	sequential number:	(01-99)

5.1.2   Source of TP definition

The TPs are based on EN 302 093-1 [1].

5.1.3   Test strategy

As the base standard EN 302 093-1 [1] contains no explicit requirements for testing, the TPs were generated as a result of an analysis of the base standard and the PICS specification EN 302 093-2 [2].

The TPs are only based on conformance requirements related to the externally observable behaviour of the IUT, and are limited to conceivable situations to which a real implementation is likely to be faced (ETS 300 406 [6]).

5.2   TPs for the bearer control, layer 3

The separated bearer control is based on the procedures for basic call connection control as defined in EN 300 443-1 [7]. Test purposes have been written only for the additional procedures required to handle the separated bearer control functions of a multiconnection call.

Unless specified:

- the messages indicated are valid and contain at least the mandatory information elements and possibly optional information elements;

- the information elements indicated are valid and contain at least the mandatory parameters and possibly optional parameters.

5.2.1   Signalling procedures at the coincident S_B/T_B and at the T_B reference points

Test purposes for EN 302 093-1 [1], subclause 9.2.

5.2.1.1   Preceding side

L3BC_01_01

Ensure that the IUT, to request the addition of a bearer to a Multiconnection call, sends a SETUP message (Called party number, Call association, Bearer identifier present).