



SLOVENSKI STANDARD

SIST ETS 300 347-7:1997

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Signalizacijski protokoli in komutacija (SPS) - Vmesniki "V" pri digitalnih krajevnih centralah (LE) - Vmesnik V5.2 za podporo dostopovnega omrežja (AN) - 7. del: Zgradba preskušalnega niza in namen preskušanja (TSS&TP) za podatkovno povezovalno plast

Signalling Protocols and Switching (SPS) - V interfaces at the digital Local Exchange (LE); V5.2 interface for the support of Access Network (AN); Part 7: Test Suite Structure and Test Purposes (TSS&TP) specification for the data link layer

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35.100.20	Podatkovni povezovalni sloj	Data link layer

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**Signalling Protocols and Switching (SPS);
V interfaces at the digital Local Exchange (LE);
V5.2 interface for the support of Access Network (AN);
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Foreword

This European Telecommunication Standard (ETS) has been produced by the Signalling Protocols and Switching (SPS) Technical Committee of the European Telecommunications Standards Institute (ETSI).

This ETS is part 7 of a multi-part standard covering the V5.2 interface as described below:

- Part 1: "V5.2 interface specification";
- Part 2: "Protocol Implementation Conformance Statement (PICS) proforma";
- Part 3: "Test Suite Structure and Test Purposes (TSS&TP) specification for the network layer (AN side)";
- Part 4: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification for the network layer (AN side)";
- Part 5: "TSS&TP specification for the network layer (LE side)";
- Part 6: "ATS and partial PIXIT proforma specification for the network layer (LE side)";
- Part 7: "TSS&TP specification for the data link layer";**
- Part 8: "ATS and partial PIXIT proforma specification for the data link layer";
- Part 9: "Test specification for the physical layer".

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1 Scope

This seventh part of ETS 300 347 contains the Test Suite Structure and Test Purposes (TSS&TP) for the Data Link Layer (DLL) of the V5.2 Interface.

The objective of this ETS is to provide conformance tests giving a high probability of inter-operability of the DLL of an Access Network (AN) and a Local Exchange (LE) infrastructure. This ETS covers only the procedures described in ETS 300 347-1 [3] which are based upon ETS 300 125 [1].

ISO/IEC 9646-1 [5] and ISO/IEC 9646-2 [6] are used as the basis for the test methodology.

For test definitions of protocol functions which are tested in V5.2 the same way as in V5.1, only reference is made to ETS 300 324-7 [2].

ETS 300 347-1 [3] defines the sublayers of the DLL, i.e. Link Access Protocol for V5 interface (LAPV5) Data Link sublayer (LAPV5-DL), LAPV5 Envelope Function sublayer (LAPV5-EF) and the mapping function (see ETS 300 347-1 [3], figure 6, which illustrates this approach). Regarding the conformance testing, these sublayer functions are not tested separately. The test purposes defined in clause 5 cover testing of the LAPV5-DL (control protocol only), LAPV5-EF and the mapping function. The AN frame relay function is tested in co-operation with a generic test of an Integrated Services Digital Network (ISDN) D-channel.

The limitation of the DLL test to the Control DL is based on the assumption that the Public Switched Telephone Network (PSTN) DL, the Protection DL, the Link control DL and the Bearer Channel Connection (BCC) DL implementations are identical with the Control DL implementation. This needs to be declared by the Implementation Under Test (IUT) supplier. Otherwise, the test purposes defined for the Control DL may be used for the other DLs as well.

2 Normative References

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

- [1] ETS 300 125 (1991): "Integrated Services Digital Network (ISDN); User-network interface data link layer specification; Application of CCITT Recommendations Q.920/I.440 and Q.921/I.441".
- [2] ETS 300 324-7 (1995): "Signalling Protocols and Switching (SPS); V interfaces at the digital Local Exchange (LE); V5.1 interface for the support of Access Network (AN); Part 7: Test Suite Structure and Test Purposes (TSS&TP) specification for the data link layer".
- [3] ETS 300 347-1 (1994): "Signalling Protocols and Switching (SPS); V interfaces at the digital Local Exchange (LE); V5.2 interface for the support of Access Network (AN); Part 1: V5.2 interface specification".
- [4] ETS 300 347-2 (1994): "Signalling Protocols and Switching (SPS); V interfaces at the digital Local Exchange (LE); V5.2 interface for the support of Access Network (AN); Part 2: Protocol Implementation Conformance Statement (PICS) proforma".
- [5] ISO/IEC 9646-1 (1995): "Information technology - Open systems interconnection - Conformance testing methodology and framework - Part 1: General concepts".
- [6] ISO/IEC 9646-2 (1995): "Information technology - Open systems interconnection - Conformance testing methodology and framework - Part 2: Abstract test suite specification".