SLOVENSKI STANDARD
SIST ETS 300 347-1:1997

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Signalizacijski protokoli in komutacija (SPS) - Vmesniki "V" pri digitalnih krajevnih centralah (LE) - Vmesnik V5.2 za podporo dostopovnega omrežja (AN) - 1. del: Specifikacija vmesnika V5.2

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

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ICS:

33.040.30	Komutacijski in signalizacijski sistem	Switching and signalling systems

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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) Part 1: V5.2 interface specification

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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 1 of a multi-part standard covering the V5.2 interface specification 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) for the network layer, Access Network (AN) side";

Part 4: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma for the network layer, AN side";

Part 5: "TSS&TP for the network layer, Local Exchange (LE) side";

Part 6: "ATS and partial PIXIT proforma for the network layer, LE side";

Part 7: "TSS&TP for the data link layer";

Part 8: "ATS and partial PIXIT proforma for the data link layer";

Part 9: "Test specification for the physical layer".

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Transposition dates	
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Date of withdrawal of any conflicting National Standard (dow):	30 June 1995

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Introduction

General

The work on a new V interface concept was initiated by a request from the ETSI Technical Assembly (TA) to Technical Committee (TC) Network Aspects (NA), in particular Sub-Technical Committee (STC) NA4 to consider, in co-operation with other STCs involved, possible new structures and interfaces for the connection of new access arrangements to local exchanges. After two meetings (in January and May 1991) the work was terminated with some guidelines for further consideration.

The work was taken over by a Special Experts Group, set up by TC SPS, working under STC SPS3, with experts from several STCs, e.g. SPS5, Transmission and Multiplexing (TM) 3 and NA4. This was to avoid a split of the difficult task to several STCs requiring intensive co-operation and possibly may have caused significant delay of the standardization work.

TC SPS identified in the terms of reference two interface concepts, one based on a static multiplexer principle, now called the V5.1 interface, and the other based on a dynamic, concentrator type, principle, now called the V5.2 interface.

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This V5.2 interface standard, forming part of a number of standards of the V5 interface concept, has been developed by the Special Experts Group mentioned above. Due to the importance of this new V5 concept and the urgency identified by SPS, the Special Experts Group met almost every month over a time period of 17 months to fulfil this task.

Other STCs involved have been informed about the decisions made and the progress of work by regular distribution of the meeting reports and any other material to the STC chairman and other involved people. SPS3 and SPS5 were involved especially by distribution of advanced drafts of significant documents in order that these may be discussed in these STCs and approved by SPS3.

Major differences between the V5.1 interface and the V5.2 interface

The V5.1 ETS (ETS 300 324-1) is a complete ETS in itself whereas this V5.2 ETS (ETS 300 347-1) references parts of ETS 300 324-1.

V5.1 uses only one 2 048 kbit/s link whereas V5.2 may use up to sixteen (16) 2 048 kbit/s links on one interface.

V5.1 does not support concentration whereas V5.2 is inherently designed to support it using a dedicated protocol known as the Bearer Channel Connection (BCC) protocol.

V5.1 does not support ISDN primary rate access user ports whereas V5.2 does.

V5.1 has no concept of communication channel protection whereas this function is available for V5.2 when that particular V5.2 interface uses more than one 2 048 kbit/s link. A specific protocol, known as the protection protocol, is provided for this function.

The control protocol for V5.2 is slightly modified to that used for V5.1. A link control protocol is specified for V5.2 as multiple links have to be managed.

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Associated standards

The following set of standards and reports is expected to relate to the V5 interface concept:

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ETS 300 324-1:	V5.1 interface specification;
ETS 300 324-2:	V5.1 PICS proforma;
ETS 300 324-3:	V5.1 TSS&TP for network layer, AN side;
ETS 300 324-4:	V5.1 ATS and partial PIXIT proforma for network layer, AN side;
ETS 300 324-5:	V5.1 TSS&TP for network layer, LE side;
ETS 300 324-6:	V5.1 ATS and partial PIXIT proforma for network layer, LE side;
ETS 300 324-7:	V5.1 TSS&TP for data link layer;
ETS 300 324-8:	V5.1 ATS and partial PIXIT proforma for data link layer;
ETS 300 324-9:	V5.1 test specification for physical layer;
ETS 300 347-1:	V5.2 interface specification;
ETS 300 347-2:	V5.2 PICS proforma;

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ETS 300 347-3:	V5.2 TSS&TP for network layer, AN side;
ETS 300 347-4:	V5.2 ATS and partial PIXIT proforma for network layer, AN side;
ETS 300 347-5:	V5.2 TSS&TP for network layer, LE side;
ETS 300 347-6:	V5.2 ATS and partial PIXIT proforma for network layer, LE side;
ETS 300 347-7:	V5.2 TSS&TP for data link layer;
ETS 300 347-8:	V5.2 ATS and partial PIXIT proforma for data link layer;
ETS 300 347-9:	V5.2 test specification for physical layer;
ETS 300 376-1:	Q3 interface at AN for configuration management of V5 interfaces and associated user ports;
ETS 300 376-2:	Q3 interface at AN for configuration management; Managed Object Conformance Statement (MOCS) proforma;
ETS 300 377-1:	Q3 interface at LE for configuration management of V5 interfaces and associated customer profiles;
ETS 300 377-2:	Q3 interface at LE for configuration management; MOCS proforma;
ETS 300 378-1:	Q3 interface at AN for fault and performance management of V5 interfaces and associated user ports;
ETS 300 378-2:	Q3 interface at AN for fault and performance management; MOCS proforma;
ETS 300 379-1:	Q3 interface at LE for fault and performance management of V5 interfaces and associated customer profiles;
ETS 300 379-2:	Q3 interface at LE for fault and performance management; MOCS proforma;
ETR 150:	V5 interface; PSTN protocol mapping examples.

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