



SLOVENSKI STANDARD
SIST ETS 300 821 E1:2003
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d`Ugh5 HA `f5 5 @`E`DcXdcfU`YXfb]`glcf]hj]_fa]`Yb`Udcj YnUj Yj]gc_cb]j c`g_]`
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Broadband Integrated Services Digital Network (B-ISDN); ATM Adaptation Layer (AAL);
Support of the High Level Data Link Control (HDLC) core service by AAL type 5 [ITU-T
Recommendation I.365.4 (1996)]

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ICS:

33.080	Digitalno omrežje z integriranimi storitvami (ISDN)	Integrated Services Digital Network (ISDN)
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ATM Adaptation Layer (AAL);
Support of the High Level Data Link Control (HDLC)
core service by AAL type 5 (AAL5)**

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[ITU-T Recommendation I.365.4 (1996)]

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Foreword

This European Telecommunication Standard (ETS) has been produced by the Network Aspects (NA) Technical Committee of the European Telecommunications Standards Institute (ETSI).

This ETS reproduces and endorses the ITU-T Recommendation I.365.4 [5].

Transposition dates	
Date of adoption of this ETS:	18 September 1998
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Date of latest publication of new National Standard or endorsement of this ETS (dop/e):	30 June 1999
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1 Scope

This European Telecommunication Standard (ETS) specifies a function that allows data communication applications utilizing protocol stacks which include High Level Data Link Control (HDLC) procedures (ITU-T Recommendation X.25, [2]) also to be deployed in a Broadband Integrated Services Digital Network (B-ISDN) environment.

The required mapping function specified in this ETS is called "Service Specific Convergence Sublayer for HDLC Applications".

This ETS makes use of the fact that the functionality of the HDLC framing, i.e., the flag and abort sequences, the zero-bit insertion, and the Frame Checking Sequence (FCS) can be interpreted as a subset of the services offered by the ATM Adaptation Layer type 5 (AAL 5) as specified in ITU-T Recommendation I.363.5 [1].

This ETS is applicable to equipment to be attached to a B-ISDN network when protocol stacks developed for an HDLC-based environment are to be deployed.

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] ITU-T Recommendation I.363.5: "B-ISDN ATM Adaptation Layer specification: Type 5 AAL".
- [2] ITU-T Recommendation X.25: "Interface between Data Terminal Equipment (DTE) and Data Circuit-terminating Equipment (DCE) for terminals operating in the packet mode and connected to public data networks by dedicated circuit".
- [3] ITU-T Recommendation X.200: "Information technology; Open Systems Interconnection; Basic reference model: The basic model".
- [4] ITU-T Recommendation X.210: "Information technology; Open systems interconnection; Basic Reference Model: Conventions for the definition of OSI services".
- [5] ITU-T Recommendation I.365.4: "B-ISDN ATM adaptation layer sublayers: Service specific convergence sublayer for HDLC applications".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of this ETS, the following definitions apply:

The term "HDLC framing" refers to the framing, transparency, and bit error detection functions of HDLC, i.e., the flag and abort sequences, the zero-bit insertion, and the FCS. Extensive use is also made of the layering concepts defined in ITU-T Recommendation X.200 [3] and the service primitive concepts defined in ITU-T Recommendation X.210 [4].

The HDLC framing usually is not considered as a separate sublayer but integrated into the HDLC Data Link layer; however, as the definition of HDLC procedures is beyond the scope of this Recommendation, a division into an HDLC control procedure sublayer and a HDLC framing sublayer is necessary. The primitives for accessing the services of the HDLC framing sublayer are called "DL-FRAME" primitives.