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SERIES I: INTEGRATED SERVICES DIGITAL
NETWORK

ISDN user-network interfaces – Layer 1
Recommendations

**B-ISDN user-network interface – Physical layer
specification: General characteristics**

ITU-T Recommendation I.432.1

(Previously CCITT Recommendation)

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B-ISDN USER-NETWORK INTERFACE – PHYSICAL LAYER SPECIFICATION: GENERAL CHARACTERISTICS

Summary

This Recommendation covers Physical Layer general characteristics for transporting ATM cells at various bit rates, at the T_B and S_B reference points of the B-ISDN User-Network Interface (UNI).

The I.432 series Recommendations are published as several Recommendations for different bit rates and applications, some of which may be used to take advantage of existing building wiring and equipment. This Recommendation should be used with each of the other Recommendations.

In each Recommendation, functionality is presented in terms of Physical Media Dependent and Transmission Convergence sublayers, and both SDH-based and cell-based formats are included.

Source

ITU-T Recommendation I.432.1 was prepared by ITU-T Study Group 13 (1997-2000) and was approved under the WTSC Resolution No. 1 procedure on the 15th of February 1999.

Keywords

ATM, B-ISDN, UNI, User Network Interface.

FOREWORD

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The approval of Recommendations by the Members of the ITU-T is covered by the procedure laid down in WTSC Resolution No. 1.

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Recommendation I.432.1

B-ISDN USER-NETWORK INTERFACE – PHYSICAL LAYER SPECIFICATION: GENERAL CHARACTERISTICS

(Geneva, 1999)

1 Scope

This Recommendation covers Physical Layer general characteristics for transporting ATM cells at various bit rates, at the T_B and S_B reference points of the B-ISDN User-Network Interface (UNI).

The I.432 series Recommendations are published as several Recommendations for different bit rates and applications, some of which may be used to take advantage of existing building wiring and equipment. This Recommendation should be used with each of the other Recommendations.

In each Recommendation, functionality is presented in terms of physical media dependent and transmission convergence sublayers, and both SDH-based and cell-based formats are included.

2 Background

This Recommendation was previously contained in Recommendation I.432 (as published in March 1993) along with characteristics specific to 155 520 kbit/s and 622 080 kbit/s.

This Recommendation contains those characteristics that are general to all B-ISDN systems at the UNI. Other Recommendations of the I.432 series give relevant characteristics for the specific bit rates.

3 References

The following ITU-T Recommendations and other references contain provisions which, through reference in this text, constitute provisions of this Recommendation. At the time of publication, the editions indicated were valid. All Recommendations and other references are subject to revision; all users of this Recommendation are therefore encouraged to investigate the possibility of applying the most recent edition of the Recommendations and other references listed below. A list of the currently valid ITU-T Recommendations is regularly published.

- [1] ITU-T Recommendation I.113 (1997), *Vocabulary of terms for broadband aspects of ISDN*.
- [2] ITU-T Recommendation I.361 (1995), *B-ISDN ATM layer specification*.
- [3] ITU-T Recommendation I.432.2 (1996), *B-ISDN User-network interface – Physical layer specification: 155 520 kbit/s and 622 080 kbit/s operation*.

4 Definitions and abbreviations

4.1 Definitions

None.