INTERNATIONAL TELECOMMUNICATION UNION

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SERIES S: TELEGRAPH SERVICES TERMINAL EQUIPMENT

Start-stop terminals

INTEX and similar services – Terminal requirements to effect interworking between terminals operating at different speeds

ITU-T Recommendation S.36

(Previously "CCITT Recommendation")

FOREWORD

The ITU-T (Telecommunication Standardization Sector) is a permanent organ of the International Telecommunication Union (ITU). The ITU-T is responsible for studying technical, operating and tariff questions and issuing Recommendations on them with a view to standardizing telecommunications on a worldwide basis.

The World Telecommunication Standardization Conference (WTSC), which meets every four years, establishes the topics for study by the ITU-T Study Groups which, in their turn, produce Recommendations on these topics.

The approval of Recommendations by the Members of the ITU-T is covered by the procedure laid down in WTSC Resolution No. 1 (Helsinki, March 1-12, 1993).

ITU-T Recommendation S.36 was prepared by ITU-T Study Group 1 (1993-1996) and was approved under the WTSC Resolution No. 1 procedure on the 19th of July 1996.

NOTE

In this Recommendation, the expression "Administration" is used for conciseness to indicate both a telecommunication administration and a recognized operating agency.

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SUMMARY

This Recommendation describes the requirements to be met by terminals participating in the INTEX service in order to allow interworking between terminals which may be operating at different information transfer rates.

Recommendation S.36

INTEX[1)] AND SIMILAR SERVICES – TERMINAL REQUIREMENTS TO EFFECT INTERWORKING BETWEEN TERMINALS OPERATING AT DIFFERENT SPEEDS

(Geneva, 1996)

1 Introduction

This Recommendation describes the requirements to be met by terminals participating in the INTEX service in order to allow interworking between terminals which may be operating at different information transfer rates.

2 References

The following 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.

- CCITT Recommendation F.150 (1991), *Service and operational provision for the intex service*.
- CCITT Recommendation F.82 (1991), *Operational provisions to permit interworking between the international telex service and the intex service*.
- ITU-T Recommendation S.33 (1993), *Alphabets and presentation characteristics for the intex service*.
- ITU-T Recommendation S.34 (1993), *Intex terminals – Requirements to effect interworking with the international telex service*.
- ITU-T Recommendation S.35 (1993), *Answerback coding for the intex*.
- ITU-T Recommendation U.102 (1996), *Intex and similar services – Network requirements to effect interworking between terminals operating at different speeds*.
- ITU-T Recommendation U.210 (1993), *Intex service network requirements to effect interworking with international telex service*.

3 Principles of operation

3.1 When a call is established between two terminals of the INTEX service which operate at different transmission rates, the faster terminal shall align the rate at which it transmits characters to the network to that of the slower terminal.

3.2 The terminal operating at the higher transmission rate shall determine that it is connected to a terminal of a lower transmission rate by examination of the Speed Indicator sequence received from the network at call set-up in accordance with Recommendation U.102. These Speed Indicator sequences are detailed in Table 1 below.

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1) Provisional name (see Recommendation F.150).

TABLE 1/S.36

Speed indicator sequences

Speed indicator sequence number	Character structure				Significance
	1	2	3	4	
1	1/11	1/3	1/2	1/1	300 bits/sec call
2	1/11	1/3	1/7	1/1	600 bits/sec call
3	1/11	1/3	1/8	1/1	1200 bits/sec call
4	1/11	1/3	1/13	1/1	2400 bits/sec call