INTERNATIONAL TELECOMMUNICATION UNION

ITU-T G.741

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

GENERAL ASPECTS OF DIGITAL TRANSMISSION SYSTEMS

TERMINAL EQUIPMENTS

GENERAL CONSIDERATIONS ON SECOND ORDER MULTIPLEX EQUIPMENTS

ITU-T Recommendation G.741

(Extract from the *Blue Book*)

NOTES

1 ITU-T Recommendation G.741 was published in Fascicle III.4 of the *Blue Book*. This file is an extract from the *Blue Book*. While the presentation and layout of the text might be slightly different from the *Blue Book* version, the contents of the file are identical to the *Blue Book* version and copyright conditions remain unchanged (see below).

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

Recommendation G.741

GENERAL CONSIDERATIONS ON SECOND ORDER MULTIPLEX EQUIPMENTS

(Geneva, 1972; further amended)

The CCITT,

considering

(a) that different primary and second order multiplex equipments exist, depending upon the characteristics of different networks and the various types of signals to be transmitted in those networks;

(b) that, although studies will continue with the aim of reducing the differences between various systems, the existing situation cannot be changed in the near future;

recommends the following

(1) when two countries, both using 2048 kbit/s primary multiplex equipments such as the PCM multiplex equipment according to Recommendation G.732, have to be connected by a digital path at the second order bit rate, that bit rate should be 8448 kbit/s;

(2) when two countries, both using 1544 kbit/s primary multiplex equipments such as the PCM multiplex equipment according to Recommendation G.733, have to be connected by a digital path at the second order bit rate, that bit rate should be 6312 kbit/s.

In the meantime, it is extremely desirable to define a preferred method of interconnecting different systems.

Recommendations G.742 and G.743 give the characteristics of second order digital multiplex equipments using positive justification, and Recommendation G.745 gives the characteristics of second order multiplex equipment using positive/zero/negative justification. Recommendations G.744, G.746 and G.747 give the characteristics of second order PCM multiplex equipments. Paragraphs 2 and 4 of Recommendation G.705 give the characteristics required to terminate 6312 kbit/s and 8448 kbit/s digital paths on a digital exchange.