



INTERNATIONAL TELECOMMUNICATION UNION

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

X.22

PUBLIC DATA NETWORKS INTERFACES

MULTIPLEX DTE/DCE INTERFACE FOR USER CLASSES 3 - 6

ITU-T Recommendation X.22

(Extract from the *Blue Book*)

NOTES

1 ITU-T Recommendation X.22 was published in Fascicle VIII.2 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.

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Recommendation X.22

MULTIPLEX DTE/DCE INTERFACE FOR USER CLASSES 3-6

Geneva, 1980, amended at Melbourne, 1988)

The CCITT,

considering

(a) that Recommendations X.1 and X.2 define the services and facilities to be provided by a public data network;

(b) that Recommendation X.21 defines the interface between a Data Terminal Equipment (DTE) and Data Circuit-terminating Equipment (DCE) for synchronous operation on public data networks;

(c) that it is desirable for characteristics of the interface carrying a multiplexed bit stream between a DTE and a multiplex DCE of a public data network to be standardized;

unanimously declares

that the interface between the DTE and the DCE in a public data network using a multiplexed channel configuration employing synchronous transmission should be as defined in this Recommendation.

1 Scope

1.1 This Recommendation defines the interface between a DTE and a multiplex DCE, operating at 48 000 bit/s and multiplexing a number of Recommendation X.21 subscriber channels employing synchronous transmission.

1.2 The number of Recommendation X.21 subscriber channels is limited by the number of subscriber channels allowed in the network multiplex structure (see § 4).

1.3 The provision of all services supported by Recommendation X.21 is possible.

2 DTE/DCE physical interface elements (see Table 1/X.22)

2.1 Electrical characteristics

The electrical characteristics of the interchange circuits at both the DCE side and the DTE side of the interface will comply with Recommendation X.27 with implementation of the cable termination in the load.

2.2 Mechanical characteristics

Refer to ISO 4903 (15-pole DTE/DCE interface connector and contact number assignments) for mechanical arrangements.

2.3 Functional characteristics of the interchange circuits

Definitions of the interchange circuits G, T, R, C, I, S and F are given in Recommendation X.24 and in § 4 below.