



INTERNATIONAL TELECOMMUNICATION UNION

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

D.12

GENERAL TARIFF PRINCIPLES

**MEASUREMENT UNIT FOR CHARGING
BY VOLUME IN THE INTERNATIONAL
PACKET-SWITCHED DATA COMMUNICATION
SERVICE**

ITU-T Recommendation D.12

(Extract from the *Blue Book*)

NOTES

1 ITU-T Recommendation D.12 was published in Fascicle II.1 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 D.12

MEASUREMENT UNIT FOR CHARGING BY VOLUME IN THE INTERNATIONAL PACKET-SWITCHED DATA COMMUNICATION SERVICE

(Geneva, 1980)

The CCITT ,

considering

the need to define a unit measuring the volume of information transmitted in an international packet-switched data communication service;

taking into account

the characteristics of packet-switched data communication services, including particularly those defined in Recommendations X.1 [1], X.2 [2], X.3 [3] and X.25 [4]; and

the definition of data transmission messages, also called “complete packet sequences” [5];

unanimously declares the following:

(1) *definition of **segment***: the measurement unit used for charging for the volume of information transmitted in a packet-switched service is independent of the maximum packet length. It is called a segment and its length is 64 octets¹;

(2) *operating rule*: the quantity of chargeable data contained in each message is expressed as a number of segments and is rounded off to the next higher unit.

References

- [1] CCITT Recommendation *International user classes of service in public data networks and ISDNs*, Rec. X.1.
- [2] CCITT Recommendation *International data transmission services and optional user facilities in public data networks*, Rec. X.2.
- [3] CCITT Recommendation *Packet assembly/disassembly facility (PAD) in a public data network*, Rec. X.3.
- [4] CCITT Recommendation *Interface between data terminal equipment (DTE) and data circuit terminating equipment (DCE) for terminals operating in the packet mode on public data networks*, Rec. X.25.
- [5] *Ibid.*, § 4.3.5.

¹ This number is subject to further study.