



INTERNATIONAL TELECOMMUNICATION UNION

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TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

G.802

DIGITAL NETWORKS

INTERWORKING BETWEEN NETWORKS BASED ON DIFFERENT DIGITAL HIERARCHIES AND SPEECH ENCODING LAWS

ITU-T Recommendation G.802

(Extract from the *Blue Book*)

NOTES

1 ITU-T Recommendation G.802 was published in Fascicle III.5 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 G.802

INTERWORKING BETWEEN NETWORKS BASED ON DIFFERENT DIGITAL HIERARCHIES AND SPEECH ENCODING LAWS

*(former Recommendations G.722 of Volume III of
the Yellow Book, further amended)*

1 Introduction

This Recommendation deals with the following aspects of interworking between networks for transport of 64 kbit/s digital information:

- encoding law and conversion rule for interworking between networks using the different encoding laws based on Recommendations G.711, G.721 and G.722.;
- interworking hierarchy between networks which incorporate the different digital hierarchies based on Recommendation G.702;
- interworking arrangements between networks incorporating the different hierarchies and encoding laws; and,
- interconnection by plesiochronous operation between networks which each has an independent synchronization.

This Recommendation is applicable also to ISDNs for transport of B channels specified in Recommendation I.412.

Note - The future specifications on channels and their bit rates to support ISDN broadband services for customer-to-customer applications may require additional interworking arrangement specifications other than those specified below.

2 Terms and definitions

The terms used in this Recommendation and not defined below are described in Recommendations G.701 or I.112.

2.1 z-operation

Conversion of the μ -law character signal "00000000" (all-zero octet) into the μ -law character signal "00000010", where "1" is the bit numbered seven in the octet (see Recommendation G.711).

Note - Bit number indicates the chronological order of transmission of bits in serial processing.

2.2 1.5/2 Mbit/s multiplex system conversion (1.5/2 Mbit/s MSC)

A function which embodies the following properties:

- 1) termination of a digital link operating at a digital hierarchical level of 1544 kbit/s;
- 2) termination of a digital link operating at a digital hierarchical level of 2048 kbit/s; and,
- 3) rearrangement of 64 kbit/s channels between 1544 kbit/s and 2048 kbit/s digital terminations.

Note - The hierarchical levels and the frame structures are specified in Recommendations G.702 and G.704, respectively.

2.3 pulse density requirement (PDR) at 1544 kbit/s

The minimum requirement for an entire 1544 kbit/s digital signal is that there should be no more than 15 binary