

International Telecommunication Union

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

G.707/Y.1322

(01/2007)

SERIES G: TRANSMISSION SYSTEMS AND MEDIA,
DIGITAL SYSTEMS AND NETWORKS

Digital terminal equipments – General

SERIES Y: GLOBAL INFORMATION
INFRASTRUCTURE, INTERNET PROTOCOL ASPECTS
AND NEXT-GENERATION NETWORKS

Internet protocol aspects – Transport

**Network node interface for the synchronous
digital hierarchy (SDH)**

ITU-T Recommendation G.707/Y.1322



ITU-T G-SERIES RECOMMENDATIONS
TRANSMISSION SYSTEMS AND MEDIA, DIGITAL SYSTEMS AND NETWORKS

INTERNATIONAL TELEPHONE CONNECTIONS AND CIRCUITS	G.100–G.199
GENERAL CHARACTERISTICS COMMON TO ALL ANALOGUE CARRIER-TRANSMISSION SYSTEMS	G.200–G.299
INDIVIDUAL CHARACTERISTICS OF INTERNATIONAL CARRIER TELEPHONE SYSTEMS ON METALLIC LINES	G.300–G.399
GENERAL CHARACTERISTICS OF INTERNATIONAL CARRIER TELEPHONE SYSTEMS ON RADIO-RELAY OR SATELLITE LINKS AND INTERCONNECTION WITH METALLIC LINES	G.400–G.449
COORDINATION OF RADIOTELEPHONY AND LINE TELEPHONY	G.450–G.499
TRANSMISSION MEDIA AND OPTICAL SYSTEMS CHARACTERISTICS	G.600–G.699
DIGITAL TERMINAL EQUIPMENTS	G.700–G.799
General	G.700–G.709
Coding of analogue signals by pulse code modulation	G.710–G.719
Coding of analogue signals by methods other than PCM	G.720–G.729
Principal characteristics of primary multiplex equipment	G.730–G.739
Principal characteristics of second order multiplex equipment	G.740–G.749
Principal characteristics of higher order multiplex equipment	G.750–G.759
Principal characteristics of transcoder and digital multiplication equipment	G.760–G.769
Operations, administration and maintenance features of transmission equipment	G.770–G.779
Principal characteristics of multiplexing equipment for the synchronous digital hierarchy	G.780–G.789
Other terminal equipment	G.790–G.799
DIGITAL NETWORKS	G.800–G.899
DIGITAL SECTIONS AND DIGITAL LINE SYSTEM	G.900–G.999
QUALITY OF SERVICE AND PERFORMANCE – GENERIC AND USER-RELATED ASPECTS	G.1000–G.1999
TRANSMISSION MEDIA CHARACTERISTICS	G.6000–G.6999
DATA OVER TRANSPORT – GENERIC ASPECTS	G.7000–G.7999
PACKET OVER TRANSPORT ASPECTS	G.8000–G.8999
ACCESS NETWORKS	G.9000–G.9999

For further details, please refer to the list of ITU-T Recommendations.

ITU-T Recommendation G.707/Y.1322

Network node interface for the synchronous digital hierarchy (SDH)

Summary

This Recommendation provides the requirements for the STM-N signals at the network node interface of a synchronous digital network, including B-ISDN in terms of:

- bit rates;
- frames structures;
- formats for mapping and multiplexing of client signals (e.g., PDH, ATM and Ethernet) elements;
- functionalities of the overheads.

Revision 7.0 of ITU-T Recommendation G.707/Y.1322 is based on:

- revision 6.0 approved 2003-12-14;
- Corrigendum 1 approved 2004-06-13;
- Amendment 1 approved 2004-08-22;
- Corrigendum 2 approved 2005-08-22; and
- editorial (non-technical) corrections.

Amendment 1 provides a reciprocal linkage from the SDH Recommendation to the G-PON Recommendation G.984.3, and explains how the G-PON encapsulation method (GEM) transport of SDH signals fits into the multiplexing hierarchy.

Source

ITU-T Recommendation G.707/Y.1322 was approved on 9 January 2007 by ITU-T Study Group 15 (2005-2008) under the ITU-T Recommendation A.8 procedure, including Amendment 1 to ITU-T Recommendation G.707/Y.1322 (2007), which was approved on 29 July 2007 by ITU-T Study Group 15 (2005-2008) under the ITU-T Recommendation A.8 procedure.

History

1.0	G.707	1988-11-25
2.0	G.707	1991-04-05
3.0	G.707	1993-03-12
4.0	G.707	1996-03-20
5.0	G.707/Y.1322	2000-10-06
5.1	G.707/Y.1322 (2000) Cor.1	2001-03-15
5.2	G.707/Y.1322 (2000) Cor.2	2001-11-29
5.3	G.707/Y.1322 (2000) Amend.1	2001-11-29
5.4	G.707/Y.1322 (2000) Amend.2	2002-08-06
5.4	G.707/Y.1322 (2000) Cor.3	2003-03-16
5.5	G.707/Y.1322 (2000) Amend.3	2003-04-13
6.0	G.707/Y.1322	2003-12-14
6.1	G.707/Y.1322 (2004) Cor.1	2004-06-13
6.2	G.707/Y.1322 (2004) Amend.1	2004-08-22
6.3	G.707/Y.1322 (2005) Cor.2	2005-08-22
7.0	G.707/Y.1322	2007-01-09
7.1	G.707/Y.1322 (2007) Amend.1	2007-07-29