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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 15837-2008

Replacing GB/T 15837-1995

Interface requirements for digital synchronization network

数字同步网接口要求

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1 Scope

GB/T 15837-2008 is the Chinese national standard on interface requirements for digital synchronization network, in the field of telecommunications and audio-video engineering. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 29 October 2008 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 May 2009. Classification: ICS 33.040.20, CCS M19. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This standard specifies the various synchronization in digital synchronous network interface physical/electrical (light) performance requirements, information requirements and the network carrying SSM Network performance, wherein the network performance requirements including network synchronization interface output limit requirements and network synchronization interface input tolerance requirements. This standard applies to digital synchronous network.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 15941-2008 synchronous digital hierarchy (SDH) optical fiber cable line into the network system requirements ITU-TG. Physical/electrical characteristics of 2001 series digital interface. 703 ITU-TG. 803.2000 based on the structure of SDH transport network ITU-TG. 811.1997 reference clock timing characteristics ITU-TG. 812.1998 applies to the synchronization network node clock from the timing requirements ITU-TG. 2003 SDH timing requirements of the device from the bell. 813

3 Terms and Definitions

The following terms and definitions apply to this standard.

3.1 A common physical network interface is an interface of two related systems, subsystems, or means, or a common logical interface. At the interface must be kept There is a complete match and mutual adaptation between entities on both sides of the interface card, so that each system, subsystem or device runs on functional entity in terms It is a comprehensive and mutually compatible.

3.2 Synchronous interface is a synchronous interface, the output signal frequency can be traced back to a normal PRC. Interface network synchronization drift limits using the most Big Time Interval Error (MTIE) and Time Deviation (TDEV) parameters to specify.

3.3 Cumulative their ideal positions effective instantaneous digital signal within a specified period of time, measured deviation.

3.4 The maximum time interval error is the maximum phase change within a measurement cycle, a given window. As shown in Figure 1.