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

GB/T 28502-2012

**Technical requirement of interworking between No.7 signalling
and IP**

No.7信令与IP互通的技术要求
(English Translation)

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Foreword

This standard rule according to GB/T 1.1-2009 given draft.

The standard reference method using redrafted IETF RFC2719.1999 "signaling transport framework" establishment.

The degree of uniformity of standards and IETF RFC2719 not equivalent.

The standard proposed by the Ministry of Industry and Information Technology of the People's Republic of China.

The standard by the China Communications Standards Association.

This standard was drafted. the Ministry of Industry and Information Technology and Telecommunications Research Institute, Huawei Technologies Co., Ltd., Shanghai Bell Co., Ltd.

1 Scope

This standard specifies the framework and signaling transport protocol carrying signaling messages based on the IP network, the functional and physical entities Mathematical relationships between the entities, the provisions of the No.7 and IP interworking model in our country at this stage appropriate to adopt and communicate to the model, for Signaling gateway functionality and performance of devices made corresponding requirements.

This standard applies to No.7 signaling network interworking with IP networks.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated edition applies to this article Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 28510 stream control transmission protocol (SCTP) GB/T 28503 No.7 signaling interworking with IP adaptation layer specification message transfer part (MTP) second level user adaptation layer (M2UA) IEEE802.2 IEEE standard communication and information system information technology for the exchange between LANs and MANs specific needs Seeking Part 2. Logical Link Control (IEEEStandardforInformationtechnology-Telecommunicationsand informationexchangebetweensystems-Localand metropolitanareanetworks-Specificrequire-ments-Part 2. Logicallylinkcontrol) IEEE802.3 IEEE standard communication and information system information technology for the exchange between LANs and MANs specific needs Partial Evaluation 3. Carrier Sense Multiple Access/Collision Detection (CSMA/CD) Access Method and Physical Layer Specifications (IEEEStandardfor Informationtechnology-Specificrequirements-Part 3. CarrierSenseMultipleAccesswithCollision Detection (CSMA/CD) accessmethodandphysicallylayerspecifications) IETF RFC791 Internetworking Protocol (InternetProtocol) IETF RFC1661 Point to Point Protocol (ThePoint-to-PointProtocol (PPP)) IETF RFC3868 Signaling Connection Control Part User Adaptation Layer (SUA) (SignalingconnectioncontrolpartUser Adaptationlayer (SUA)) IETF RFC4165 No.7 signaling interworking with IP adaptation layer specification message transfer part (MTP) second stage peer adaptation Layer (M2PA) IETF RFC4666 No.7 signaling interworking with IP adaptation layer specification message transfer part (MTP) third level user adaptation Layer (M3UA)

3.1 Terms and Definitions

The following terms and definitions apply to this document.

3.1.1

SIGTRAN signaling transport IP networks deliver circuit-switched network (SCN) signaling protocol stack. It supports standard primitive interface does not require the existing