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

GB/T 29198-2012

**Technical requirements of adaptation layer of No.7 signalling
interworking with IP MTP2 peer-to-peer adaptation layer**

No.7信令与IP互通适配层技术要求 消息传递部分（MTP）第二级对等适配层（M2PA）

(English Translation)

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Foreword

This standard is "No.7 signaling adaptation layer and IP interworking technical requirements" of the national standard series, the series of national standards is expected structure as follows.

--- No.7 signaling interworking with IP adaptation layer specification message transfer part (MTP) second level user adaptation layer (M2UA);

--- No.7 signaling interworking with IP adaptation layer specification message transfer part (MTP) third level User Adaptation Layer (M3UA);

--- No.7 signaling interworking with IP adaptation layer specification message transfer part (MTP) second stage peer adaptation layer (M2PA).

This standard was drafted in accordance with GB/T 1.1-2009 given rules.

The standard reference method using redrafted IETF RFC4165.2005 "SS7 Message Transfer Part 2 (MTP2) Users Peer adaptation layer (M2PA) protocol", "prepared with IETF RFC4165.2005 degree of consistency equivalent non. The main differences are as follows.

--- Explicitly requested not to send a message to the user data on the distal end processor in the case of failure;

--- According to the actual situation of China's network gives recommendations timer ranges.

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, Shanghai Bell Co., Ltd., ZTE Corporation.

1 Scope

This standard specifies the functional No.7 signaling message transfer part of the second stage peer adaptation layer (M2PA) protocol, message parameters, formats, and program.

This standard applies to adoption M2PA protocol as the signaling transport protocol adapter IP signaling points, signaling gateways and other equipment.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references,

the latest edition (including any amendments) applies to this document.

GB/T 28510-2012 stream control transmission protocol (SCTP) GF001-9001 Chinese domestic telephone network No.7 signaling specifications Service specific coordination function ITU-TQ.2140 B-ISDN signaling ATM adaptation layer network node interface signaling (SSCF-NNI)
(B-ISDNATMadaptationlayer-Servicespecificcoordinationfunctionforsignalingatthenet-worknodeinterface (SSCFATNNI)) Message Transfer Part level 3 functions and messages using the ITU-TQ.2210 ITU-TQ.2140 business (Message transfer part level 3 functions and messages using the services of ITU-T recommendation Q.2140) Security Considerations IETF RFC 3788 signaling transport protocol
(Security considerations for signaling transport protocols)

3.1 Terms and Definitions

GB/T 28510-2012 define the following terms and definitions apply to this document.

3.1.1

MTP2 user MTP2-User

Using a protocol MTP2 service. MTP2 only users MTP3. MTP2 users equal M2PA users.

3.1.2

Signaling points signaling endpoint Origination or termination signaling messages No.7 signaling point.

3.1.3

IP signaling point IP signaling point with IP network connections, use the IP bearer No.7 signaling No.7 signaling point.

3.1.4

Signaling Gateway in IP network and SCN signaling bearer network boundaries for conversion devices. In this case, both for a SG No.7