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

GB/T 11592-2011

Replacing GB/T 11592-1989

**Interface between data terminal equipment (DTE) and data
circuit-terminating equipment (DCE) for start-stop transmission
services on public data networks**

公用数据网上起/止传输业务使用的数据终端设备（DTE）和数据电路终接设备（
DCE）间的接口

(English Translation)

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Table of Contents

Preface	
Introduction	
1 Scope	
2 DTE/DCE physical interface elements	
2.1 Interaction circuit	
2.2 Electrical Characteristics	
2.3 Mechanical properties	
2.4 The interactive fault circuit	
3 Call control characters and error checking	
4 The elements of the circuit-switched service call control phase	
4.1 Call control events in the process	
4.2 Unsuccessful call	
4.3 Call conflict (state 19)	
4.4 Direct Call	
4.5 Facility registration/cancellation procedures	
4.6 Selection, call progress and DCE provided information about the format of	
5 Data transfer phase	
5.1 Data transfer (state 12) --- 7-point circuit switched services	
5.2 Data transmission --- leased circuit service	
5.3 Data transfer (state 12) --- centralized multi-point circuit switched services	
6 Stitches Stage	
6.1 Stitches by the DTE (state 13,14,15)	
6.2 By the DCE stitches (state 16,17,15)	
6.3 DCE ready (state 1)	
6.4 8 stitches collision	
7 Test loop	
7.1 DTE test loop --- Category 1 loop	
7.2 Local test loop the loop category --- 3	
7.3 Network test loop --- category 2 Loop	
Appendix A (informative) interface signaling state	
Annex B (informative) interface signaling sequence diagrams and time-out operations	
Appendix C (Informative Appendix) DTE and DCE minute timeout	

Annex D (informative) selection, call progress and DCE provided information signal format

Annex E (informative) calls coded signal

Annex F (informative) facility request indicator and parameter coding

Appendix G (Informative Appendix) DCE provided information

Foreword

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

This standard replaces GB/T 11592-1989 "from public data networks of data terminal equipment/stop transmission services (DTE) and data Interface circuit-terminating equipment (DCE) between. " this standard and GB/T 11592-1989/ITU-TX.20. 1984 compared to the main changes are as follows.

--- The content of Chapter 7 of the present standard of editorial changes were made, and added 7.2 and 7.3;

Appendix F --- the content of editorial changes were made, and adds F.2, F.3, F.4, F.5, F.6;

--- Appendix G for the content of editorial changes were made, and adds G.1, G.3, G.5, G.6, G.7.

This standard uses the translation method is equivalent to using ITU-TX.20. 1988 "public data from/to data terminal transmission services provided Equipment (DTE) and data circuit-terminating Interface "Equipment (DCE) between (in English).

Correspondence between the consistency of the standards of international documents and normative references of the following documents.

--- GB/T 3455 electrical characteristics for unbalanced double interface circuit (GB/T 3455-1982, idtITU-TV.28. 1980);

--- GB/T 9952 Information technology - Data communication - 15 pin DTE/DCE interface connector and contact number assignments (GB/T 9952-2008, ISO/IEC 4903. 1989, IDT);

--- GB/T 11589 public data networks and integrated services digital network (ISDN) and international user access service class types (GB/T 11589-2011, ITU-TX.1.2000, IDT);

--- GB/T 11594 on public data networks of data terminal equipment (DTE) and data circuit terminating interchange circuit equipment (DCE) between Definition Table (GB/T 11594-2009, ITU-TX.24. 1988, IDT).

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.

Introduction

CCITT (now ITU-T) taking into account.

- a) ITU-TX.1 and ITU-TX.2 specifies provided by a public data network services and service facilities;
- b) ITU-TX.92 specifies the hypothetical reference public synchronous data networks using the connections;
- c) ITU-TX.96 defines call progress signals;
- d) recommendations concerning the provisions of interface elements must be defined in accordance with the hierarchy;
- e) public data networks of the interface characteristics between DTE and DCE need to be standardized.

Therefore, unanimously declared. public data networks using the service type start-stop transmission, the interface between the DTE and DCE which should be consistent Provisions of this standard.

Public data from/to data transmission services Terminal Equipment (DTE) and data circuit terminating Interface Equipment (DCE) between

1 Scope

The standard provides a common interface between the DTE and DCE in from ITU-TX.1 defined using the/stop transmission between the user traffic categories Physical characteristics and call control procedures, including the selection of call format and protocol information and DCE provided, comprising a two-way operation Provisions.

2.1 Interaction circuit

Interface circuits involved are listed in Table 1, ITU-TX.24 gives the definition of these interactions circuits.

Table 1 relates to the interface circuit

Interactive circuit interactive circuit name direction from DCE to DCE G (Note) Signal ground or common return Ga DTE common return X Gb DCE common return X T send X R receiver X

NOTE: This wire can be used to reduce environmental signal interference at the interface. In the

case of shielded interconnect cables, consider additional connection is ITU-TX.24 and ISO/IEC 4903 part.

2.2 Electrical Characteristics

Electrical Characteristics Electrical characteristics of the interface DCE side can follow the ITU-TX.26 regulations.

DTE side of the interface electrical characteristics can follow ITU-TX.26, ITU-TX.27 (at no load cable termination), or in accordance with Electrical characteristics defined in ITU-TV.28.

ITU-TV.28 --- DTE and ITU-TX.26 --- see DCE interconnection between ITU-TX.26 and ISO/IEC 4903.

2.3 Mechanical properties

Setting the mechanical characteristics relating to see ISO/IEC 4903.

2.4 Interaction circuit fault conditions

Contact according to the type of fault detection, fault detection circuitry of the receiver and the specific interaction between circuits, see ITU-TX.26 first 11 and ITU-TX.27 Chapter 9.