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

GB/T 17178.4-2010

**Information technology -- Open systems interconnection --
Conformance testing methodology and framework -- Part 4: Test
realization**

信息技术 开放系统互连 一致性测试方法和框架 第4部分：测试实现
(English Translation)

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Table of Contents

Preface	
Introduction	
1 Scope	
2 Normative references	
3 Terms and definitions	
4 Abbreviations	
5 Test implementation overview	
5.1 Introduction	
5.2 Test Tool 2 Synthesis	
5.3 Means test (MOT) function	
5.4 Has been selected and parameterized Test Suite	
5.5 Parameterized Executable Test Suite (PETS)	
6 Test implementation requirements	
6.1 Introduction	
6.2 Means test (MOT) of claim	
6.3 Requirements for the implementation of test suites (ETS) derived	
5 6.4 conformance requirements for records	
6.5 Expansion IXIT written form requirement	
6.6 Requirements for other documentation	
7 6 Compliance	
Appendix A (informative) Additional guidance on testing to achieve	

Foreword

GB/T 17178 "Information technology - OSI conformance testing methodology and framework" standard is divided into seven sections.

- Part 1. Basic Concepts
- Part 2. Abstract Test Suite specification
- Part 3. combination of tree and table representation
- Part 4. Test realization
- Part 5. Testing laboratory for conformance assessment process and customer

requirements

--- Part 6. Protocol Profile Test Specification

--- Part 7. Implementation Conformance Statement this section GB/T Part of 417,178.

GB/T 17178 and is this part of ISO/IEC 9646-4:1994 (in English) to modify the degree of consistency, the reason is. the ISO/IEC 9646.4. TTCN language in 1994 relates to ISO/IEC 9646.3:1998 in TTCN-2, and ISO/IEC 9646.3 by the ETSI has been amended to ETSI ES 201873-1 V2.2.1.2003 (TTCN-3), TTCN-3 test specification language is a whole A complete redesign of the word. TTCN-3 is removed the close relationship between the tables and text representation, clearing the OSI-specific language Structure, and introduced some new concepts. Redesign of the TTCN is to modernize applications it extended to a OSI Conformance test field outside.

Appendix A of this section is an informative annex.

This part is proposed by the Ministry of Industry and Information Technology of the People's Republic of China.

This part of the National Information Technology Standardization Technical Committee centralized.

Introduction

GB/T 17178.1-1997 and GB/T 17178.2-2010 defined as testing and release of international standards or recommendations of ITU-T OSI protocol specification and/or consistency with the general method of transfer syntax to achieve. Some also claim on the part of both OSI consistency Generate test specifications and Abstract Test Suite (ATS) specification on.

ISO/IEC 9646-3:1998 defines the abstract test suite specification for a standardized test notation --- tree and tabular combined notation (TTCN).

Once it meets the GB/T 17178. 2 of the OSI conformance testing specifications and ATS are available, their test operation is based on the same reference Test results should test ATS specification, obtained by different test laboratories are comparable.

ISO/IEC 9646-5:1994 to put some consistency in the evaluation process, so that the test results can be obtained with other testing laboratories the results were compared, and can be widely accepted.

GB/T 17178 in this part of the centralized view of the above process is an intermediate stage --- test implementation. Be able to work in test preparation Before you begin, under test to achieve the means test (MOT) to be provided.

Test implementation are those that the organization responsible for providing such a means test (MOT) of.

GB/T 17178.6-2010 defines common provisions for conformance testing for the contour outline Test Specification (PTS) requirements method.

ISO/IEC 9646-7:1995 defines how standards-based Implementation Conformance Statement (ICS) and the expression system and the wheel base specifications Profile of consistency, and to the formation documents.

This part of the some of the requirements placed on test implementation, to ensure the implementation of test cases is reflected in the reference ATS purposes.

This section will present the relevant requirements of the test implemented in order to ensure the implementation of the test event to reflect the reference Abstract Test Suite (ATS) as specified Behavior, so as to achieve the purpose of standardized ATS.

Information technology - OSI Conformance testing methodology and framework Part 4. Test realization

1 Scope

This section GB/T 17178 specifies the number of requirements, given the parameters involved with the abstract test according to GB/T 17178.2 specified Set (ATS) specification conformance testing means (MOT) implementation guidelines.

This section applies to generate test unilateral agreements, multilateral agreements or contour with MOT.

Note: This implies the use of ATS GB/T 17178.1-1997 defined. However, in this section, the term also applies to ATS in the form of a specific test Additional abstract test case outline and design, and is included in the profile specific test specification (PSTS) in.

These requirements are limited to those aspects of the MOT, these areas can be mapped defined in GB/T 17178.1-1997 abstract Test function, or they are essential for the proper use of standardized ATS for. Such aspects may include generating consistency Day Blog or test suite to achieve additional information (IXIT) proforma progress facilities. Test systems and test the further implementation details beyond the Range section.

MOT acceptance, confirmation and installation beyond the scope of this standard.

2 Normative references

The following documents contain provisions which, through reference GB/T 17178 in this section constitute provisions of this section. For dated reference documents Member, all subsequent amendments (not including errata content) or revisions do not apply to this section, however, encouraged to reach under this section Parties to research agreement to use the latest versions of these documents. For undated reference documents, the latest versions apply to this section.

GB 9387-1988 Information technology - Open Systems Interconnection - Basic Reference Model - Part 1. Basic model (idt ISO 7498.

1984) (see also ITU-T Recommendation X.200 (1984)) GB/T 17178.1-1997 Information technology - OSI conformance testing methodology and framework - Part 1. Basic Concepts (Idt ISO/IEC 9646-1:1994) GB/T 17178.2-2010 Information processing systems - Open Systems Interconnection - Conformance testing methodology and framework - Part 2. Abstract Test suite specification (ISO/IEC 9646-2:1994, MOD) GB/T 17178.6-2010 Information technology - OSI conformance testing methodology and framework - Part 6. Protocol Profile Test specification (ISO/IEC 9646-6:1994, IDT) ISO/IEC 9646-3:1998 Information technology - OSI conformance testing methodology and framework - Part 3. The Tree and tables Combination notation ISO/IEC 9646-5:1994 Information technology - OSI conformance testing methodology and framework - Part 5. Compliance Review Assessment process of testing laboratories and customer requirements ISO/IEC 9646-7:1995 Information technology - OSI conformance testing methodology and framework - Part 7. consistent Statement ETSIES201873V2.2.1.2003 test method described in (MTS) Testing and Test Control Notation Third Edition

3 Terms and Definitions

All terms and definitions GB/T 17178.1-1997 identified are applicable to this section. In addition, the definition of "TTCN coordination point"