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

GB/T 17178.5-2011

**Information technology -- Open systems interconnection -- Conformance testing
methodology and framework -- Part 5: Requirement on test laboratories and
clients for the conformance assessment process**

信息技术 开放系统互连 一致性测试方法和框架 第5部分: 一致性评估过程对测试
实验室及客户的要求

(English Translation)

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Foreword

GB/T 17178 "Information technology open system interconnection consistency test methods and framework" is divided into the following seven parts.

- Part 1. Basic concepts;

- Part 2. Abstract test kit specification;

Part 3. Combination of tree and table notation;

- Part 4. Test implementation;

- Part 5. Requirements for testing laboratories and clients on the conformity assessment process;

- Part 6. Protocol profile specification;

- Part 7. Declaration of Conformity.

This part is part 5 of GB/T 17178.

This part is drafted in accordance with the rules given in GB/T 1.1-2009.

This part uses the translation method equivalent to the international standard ISO/IEC 9646-5.:1994 "Information technology open system interconnection consistency Test methods and frameworks - Part 5. Consistency assessment process requirements for test laboratories and customers.

In this part of the normative reference to the international documents have a consistent correspondence between the following documents.

- GB/T 17178.2-2010 Information technology - Open systems interconnection - Consistency testing methods and frameworks - Part 2. Abstract Test kit specification (ISO/IEC 9646-2.:1994, MOD) - GB/T 17178.4-2010 Information technology - Open systems interconnection - Consistency testing methods and frameworks - Part 4. Testing

Implementation (ISO/IEC 9646-4.:1994, MOD) this section is headed by the National Information Technology Standardization Technical Committee (SAC/TC28).

This part of the main drafting unit. China Electronic Technology Standardization Institute, Beijing Hengguang Innovation and Technology Co., Ltd.

Introduction

This part of GB/T 17178 describes the responsibility for testing laboratories and customers during the consistency assessment process.

To agree as well as to their respective requirements.

Consistency assessment process is the most obvious process of consistency testing, in the process, the test unit standardized results are also practical application.

This stage is also the stage where the maximum range of potential changes occurs. Because this part of GB/T 17178 deals with the relatively formal implementation of the test , It is important to limit some of the changes in the quantity and nature of this. One of the goals of standardization testing procedures is to make the results of a conformance assessment with similarity achievable and to the extent that it is acceptable and useful. If this is done, not only the same test the resources of the trial will be used, and to a large extent, the method of its selection, the parameters involved in the test, the results of the display should also be phase the same.

In order to achieve the consistency of the test lab and the customer to the test evaluation, this part discusses the issues that both parties should pay attention to. This part of the the target audience is the test lab and its customers. According to the customer's request, the test lab is responsible for the implementation of the OSI implementation Acceptance assessment. Normally, the test lab is.

- a) organizations that develop or provide OSI implementations (first-party testing laboratories);
- b) the organization (second-party testing laboratory) that implements the OSI implementation before use;
- c) is an organization that is independent of the OSI implementation vendor or user whose business is to test some implementations (third party test Laboratory).

The customer may be the implementer or provider of a truly open system or other OSI system, and they need to apply for their own implementation Test validation. Or they may be the producers of these implementations, or any interested parties. This part of the application and the relationship between the customer and the implementation has nothing to do. During the consistency assessment process, the customer is responsible for the statement of the system under test (SUT) and the Configuration.

Secondly, the relevant readers interested in this part are.

- a) test practice;
- b) professional bodies responsible for the accreditation of first-, second- and third-party test laboratories;
- c) certification bodies, laboratory-based test data issued by the test laboratory testing and certification;
- d) Readers of conformance test reports.

In this section, the consistency assessment process involving test laboratories and customers is divided into three phases.

- a) test preparation;
- b) test operation;
- c) Test report generation.

Chapter 5 gives an overview of these three stages. Chapter 6 ~ Chapter 9 on how to carry out these three stages were provided.

For the purposes of this section, it is assumed that the test lab is available and has been built to provide a conformance assessment service. for Conforms to one or more OSI protocols and is based on one or more abstract test methods (ATMs), while assuming that the test lab is tested the implementer (whether or not the latter belongs to the same organization) has obtained the IUTs test method (MeansofTesting). This part is special the requirements for testing laboratories are regulated by the client's compliance assessment process.

Similarly, it is assumed that the customer is ready to apply the OSI implementation for consistency assessment and is familiar with the appropriate criteria for understanding conformance testing and Abstract test methods, but also willing to cooperate with the laboratory. This part is in the testability of the measured system (SUT) and the consistency assessment process Implementation of the customer made a request.

This section is read in conjunction with GB/T 17178.1-1997.

Information technology open system interconnection consistency test Methods and frameworks Part 5. Consistency assessment process Requirements for testing laboratories and customers

1 Scope

1.1

GB/T 17178 This part of the guidance for the consistency of the assessment process for

testing laboratories and customers both sides of the requirements. These ones the requirements are necessary to achieve the compatibility of the test results in similar implementations performed by different test laboratories. Test for similar implementations it is necessary to compare the results of the tests. The various implementations may support only one basic specification, and may support multiple basic rules or one or more profiles based on one or more of the basic specifications. This section also provides some guidance on the consistency assessment process.

1.2

Requirements include.

- a) the testability requirements for the alleged implementation of the abstract test method;
- b) the general requirements for testing laboratories and customers applicable to any conformance assessment process;
- c) exchange of technical and managerial information, including. SCS, Declaration of Consistency for the implementation of each relevant basic specification or profile specification, (IXIT) for testing each ATS (ATS) for each basic specification test, a group of basic specifications or the contours of each contour file, and, if appropriate, a contour test of the outline of the contour test specification for each contour;
- d) testing laboratory and user cooperation, refers to the definition of IUT, abstract test methods and the ATS used and to be tested Conditional agreement;
- e) the requirements for the structure and content of the conformance test report, which shall document the results of the conformance assessment process.

1.3

This section applies equally to test laboratories and independent laboratories attached to suppliers or purchasers.

1.4

This part applies to the consistency assessment of the following specifications.

- a) OSI and Integrated Services Digital Network (ISDN) basic regulations that conform to the testability requirements of GB/T 17178.2-2010 Fan; and/or
- b) OSI and ISDN contour specifications that conform to the testability requirements of GB/T 17178.6-2010;
- c) based on compliance with GB/T 17178.2-2010 conformance test specification;
- d) Where appropriate, based on contour test specifications and contour-specific test specifications as specified in ISO/IEC 17178.6;

And adopt the test method (MOT) according to GB/T 17178.4-2010.