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

GB/T 29834.1-2013

**Maintainability of system and software -- Part 1: Indicator
system**

系统与软件维护性 第1部分：指标体系

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Foreword

GB/T 29834 in the "System and software maintenance" of the general heading, divided into the following three parts.

- Part 1. Index System;
- Part 2. Measurement Methods;
- Part 3. Test methods.

This section GB/T 29834 Part 1.

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

This part of the National Information Technology Standardization Technical Committee (SAC/TC28) and focal points.

This section is drafted. Shanghai computer software technology development center, China Electronics Standardization Institute, Shenzhen City in the letter Information Technology Co., Ltd., Beijing University of Posts and Telecommunications, Shanghai Pudong Software platform Ltd., Shanghai Baixin Software Co., Ltd., Shanghai Lu Qixin interest Technology Co., Ltd. Liaoning North laboratories, Nanning square Software Technology Co., Ltd., Shanghai Electric Power Companies Communication center.

Introduction

Since the flawed software delivery, user needs change, changes in the environment, the software often requires maintenance.

GB/T 8566 "Information technology - Software Life Cycle Processes" that software maintenance has become an important part of the software life cycle Points, GB/T 16260.1-2006 "Software engineering - Product quality - Part 1. Quality model" includes software maintenance statements.

GB/T 29834 with reference to this part of GB/T 16260.1-2006 maintenance statements, and the different stages of the life cycle maintenance process Consider the elements involved in the proposed maintenance performance index system. The development side, the demand side, the quality of managers and third-party evaluation agencies according to Index System maintenance is defined quality requirements, evaluating software product maintenance, of measuring the quality of the case or for other purposes. But in this section Index System column is not a complete set of development, acquirers, quality managers and third-party evaluation agencies in this section may be increased as needed Other indicators feature is not included.

The main users of this standard is expected to include.

a) software suppliers, when.

1) to declare maintenance of software product characteristics;

2) maintenance characteristics of self-control statement assessment systems and software products;

3) the software product associated with the design and implementation of maintenance time;

b) for the maintenance of the certificate of conformity or a third-party evaluation agency logo testing;

c) the potential demand-side when.

1) on the upcoming purchase of software products and maintenance requirements of existing products, when compared to descriptive information;

2) the need for product performance further improvement or complete, the product has the potential to make the necessary changes and error, the actual operation Differences in environmental and procurement environment;

3) inspection maintenance requirement is satisfied.

GB/T 29834.2 "Systems and Software Maintenance - Part 2. Measurement Methods" shows how to obtain the degree of maintenance indicator measures the value of Volume

method, GB/T 29834.3 "Systems and Software Maintenance - Part 3. Test methods" describes test methods maintenance indicators. this Section aims and GB/T 29834.2 and GB/T 29834.3 combination.

Systems and software maintenance Part 1. Indicator System

1 Scope

GB/T 29834 in this section gives the system software maintenance and Indicators framework of indicators and related definitions, provides Systems and software maintenance of the quality characteristics, to provide a unified index system maintenance and software supply side, demand side, third-party evaluation agencies system.

This section applies to all types of systems have maintenance needs with the software, the user can select the appropriate maintenance indicators for specific products and services.

This section does not apply to "single-use" or during the use of non-maintenance needs of systems and software.

NOTE: The system referred to in this section are primarily software system.

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 8566 Information technology - Software life cycle processes GB/T 11457 software engineering terminology

3 Terms and Definitions

GB/T 11457 and as defined in the following terms and definitions apply to this document.

Embodiment actor

Scheduled maintenance person or organization.

Indicator

Entity measurable attributes.

Index System indicatorsystem Index consists of several major features defined by the constitution to reflect the nature of the phenomenon of the system.

Note: The index system is a system, with closely reflects the overall evaluation index collection of objects.

Maintenance maintainability Systems and software, or components can be modified for

troubleshooting, improve performance or other attributes, or adapt to the ease of the changed environment.

Note 1: Use the conditions set out expressly refers to the system prescribed or recommended in the installation and configuration instructions to install and use operating environment.

Note 2: The system remains in a state or return to a state objective is to maintain and ensure the system meets user functional requirements.