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**GB/T 29836.2-2013**

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**Usability of software system -- Part 2: Metric method**

系统与软件易用性 第2部分：度量方法

**(English Translation)**

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## Foreword

GB/T 29836 in the "System and software usability" general title, currently divided into the following three parts.

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

This section GB/T Part of 229,836.

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.

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## Introduction

This section GB/T 29836 presents ease of use quality metrics. This section of people (involved in the testing of the user), machine (computer system EC) and human-computer interaction as the three elements of a computer system and software, integrated the three elements on the target system under test usability.

This part of the system and software usability index system has been designed to build each test indicators give detailed metrics purpose of Quantity description, measurement formulas, and description of each measure described metric formula elements. And to measure the final result value, an explanation is given. Headquarters Points for a variety of man-machine interaction of computer software products and related systems.

The main users of this standard is expected to include.

- a) the demand side (obtained from the supplier or procurement system, software product or software service individual or organization);
- b) the independent evaluator (no relation to the interests of software, by the individual or organization entrusted the implementation of independent evaluation);
- c) developer (the implementation of development activities an individual or organization);
- d) Defenders (individual or organization to perform maintenance activities);
- e) supplier (the contract provided by the system, organization or individual software product or software service to the acquirer), which is indeed the eligibility test when using recognized software quality;
- f) the user (using the software product to perform a specific function of individual or organization) that when evaluating software product quality during acceptance testing use;
- g) quality control manager (software product or software service to perform systematic checks of individuals or organizations), as a quality assurance and quality control when using the Software Quality Evaluation System components.

GB/T 29836.1-2013 "systems and software ease of use - Part 1. Indicator System" gives the ease of index system, GB/T 29836.3-2013 "systems and software ease of use - Part 3. Evaluation Methods," describes a method for usability evaluation indicators. Headquarters Points designed to be used in conjunction with the GB/T 29836.1-2013 and GB/T 29836.3-2013.

## Systems and software ease of use - Part 2. Measurement Methods

### 1 Scope

GB/T 29836 in this section on the basis of the index system of GB/T 29836.1 presented on the provisions of the ease of use of the system and software the amount of formula for the supply-side system and software, the demand side, third-party evaluation agencies provide a uniform measure of ease of use.

This section applies to all types of systems and software have human-computer interaction, this section does not apply to unmanned aerial vehicles, or during use interactive features no usability requirements of system 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 11457 software engineering terminology GB/T 16260.1 Software engineering - Product quality - Part 1. Quality model (GB/T 16260.1-2006, ISO/IEC TR 9126-1:2001, IDT)  
GB/T 29836.1-2013 systems and software ease of use - Part 1. Index System

### 3 Terms and Definitions

GB/T 29836.1-2013, terms and definitions GB/T 16260.1 and GB/T 11457, as defined in the application of this document.

### 4 Overview

Ease of use is a key quality systems and software features. Measurement system for ease of use and software, is beneficial to understand no meet the specified requirements for ease of use, in favor of the demand side, supply-side and so in time, ease of locating defects.

Before implementing measure, the relevant measure should be stated in advance objects (such as task, function) granularity.

This section presents a set of software metrics and GB/T 29836.1 ease of use with quality. Users should be from GB/T 29836.1 Select usability index, measure and determine the corresponding test methods according to indicators. For one particular system or software, or different modules Functionality, ease of use, have different requirements. So you can select the corresponding appropriate indicators based on its ease of use, the specific

objectives, to improve usability metrics accuracy. For ease of function points and completely unrelated, it can give up a measure. For other indicators can not measure, you can measure the time give up.

## **5 Understandability**

Easy to understand specific indicators of measurement methods as shown in Table 1.