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

GB/T 29836.1-2013

Usability of system and software -- Part 1: Indicator system

系统与软件易用性 第1部分：指标体系

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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 129,836.

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

This section drafted by. China Electronics Standardization Institute, Beijing University of Posts and Telecommunications, Nanning square Software Technology Co., Ltd. Company Secretary, National Software Quality Supervision and Inspection Center, the Ministry of Education Examination Center, Shanghai computer software technology development center, Shanghai Pudong soft Member platform Ltd., Shanghai Baoxin Software Co., Ltd., Zhuhai Southern Software Testing Center network, Lu Qixin Shanghai Information Technology Co., the company.

Introduction

This section GB/T 29836 presented usability index system. Indicators listed in this section is not a complete set. Developer commentary Bidder, quality control manager and the demand side can select the appropriate indicators from this section, used to define the quality requirements usability, easy to evaluate software products Versatility, ease of measuring the quality of the case or for other purposes; can also modify the metrics or use other indicators not included in this section. This section appropriate for a variety of computer software products and related systems with human-computer interaction, but not every indicator is applicable to a variety of computer systems and software product.

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 29836.2-2013 "systems and software ease of use - Part 2. Measurement Methods" shows how to get the index measuring the ease of use Measure of value, GB/T 29836.3-2013 "systems and software ease of use - Part 3. Evaluation Methods," describes the ease of use of the index Evaluation methods. This section is intended to be used in conjunction with the GB/T 29836.2-2013 and GB/T 29836.3-2013.

Systems and software usability Part 1. Indicator System

1 Scope

This section GB/T 29836 gives systems and software usability metrics framework and its associated indicators defined, predetermined system Software quality characteristics and ease of use, ease of use provides a unified index system for the supply-side system and

software, the demand side, third-party evaluation agency.

This section applies to all types of systems with human-computer interaction and software, the user can select the appropriate usability metrics based on specific products.

This section does not apply to UAV interactivity or during the use of non-use of the system and software requirements.

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 16260.1-2006 Software engineering - Product quality - Part 1. Quality model (ISO/IEC 9126-1:2001, IDT) GB/T 16260.2-2006 Software engineering - Product quality - Part 2. External metrics (ISO/IEC TR9126-2:2003, IDT)

3 Terms and Definitions

GB/T 11457 and GB/T 16260.1-2006 and as defined in the following terms and definitions apply to this document.

Ease of usability

Products in a particular environment for a particular target level for a specific user.

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 of a set target indicators, or set specific indicators.

4.1 Effect of systems and software usability features

HMI system, the general work cycle may be shown, in the course of operation, the machine 1 through the output device (such as display , Speakers, etc.) will give the perception of information transfer systems (such as vision, hearing, etc.), the perception of the central nervous system processor to transmit information Delivery, after thinking the processor information is processed and stored, and then the reaction command processor human reaction system (such as a finger, mouth, etc.) to operate the machine Input device, the

control computer information processing and storage, and then the cycle, until the completion of objectives and tasks. Thus, from the computer