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

GB/T 25000.2-2018

Replacing GB/T 18905.2-2002

**Systems and software engineering -- Systems and software
Quality Requirements and Evaluation (SQuaRE) -- Part 2:
Planning and management**

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Foreword

GB/T 25000 "System and Software Engineering Systems and Software Quality Requirements and Evaluation (SQuaRE)" has been or is planned to release the following section.

- Part 1. SQuaRE Guide;
- Part 2. Planning and Management;
- Part 10. System and software quality models;
- Part 12. Data quality model;
- Part 20. Measurement reference models and guidelines;
- Part 21. Quality measurement elements;
- Part 22. Use quality measurement;
- Part 23. System and software product quality measurement;
- Part 24. Data quality measurement;
- Part 30. Quality requirements;
- Part 40. Evaluation process;
- Part 41. Evaluation guidelines for developers, acquirers and independent reviewers;
- Part 45. Evaluation module for easy recovery;
- Part 51. Quality requirements and test details for Ready-to-Use Software Products (RUSP);
- Part 62. Ease of Use Test Report Industry Common Format (CIF).

This part is the second part of GB/T 25000.

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

This part replaces GB/T 18905.2-2002 "Software Engineering Product Evaluation Part 2 Planning and Management". versus

The main technical changes compared with GB/T 18905.2-2002 are as follows.

- Revised scope (see Chapter 1, Chapter 1 of the.2002 edition);
- Added terms such as "evaluation" (see 4.1), "evaluation activities" (see 4.2), "evaluation module" (see 4.6), and the term "support organization"
- Changed to "evaluation group" (see 4.3, 2002 edition 4.2) and added notes;
- Modified the content of the software evaluation activities (see Chapter 5, Chapter 5 of the.2002 edition);
- Removed the "relationship between support institutions and evaluation projects" (see Table 2 of.2002);
- Revised the title, structure and content of Chapter 6 (see Chapter 6, Chapter 6 of the.2002 edition).

This section adopts the redrafting method to modify the use of ISO /IEC 25001.2014 "system and software engineering systems and software quality requirements and Evaluation (SQuaRE) Planning and Management.

The structural differences and reasons for this part and ISO /IEC 25001.2014 are as follows.

- Due to the required clauses in the suspension section of ISO /IEC 25001.2014, in order to express the normativeness, 6.2 and 6.3

The suspension section containing the required clause is modified to the terms of 6.2.1 and 6.3.1. The original 6.2.1~6.2.7 and 6.3.1 are adjusted to this part

6.2.2~6.2.8 and 6.3.2.

The technical differences and reasons for this part and ISO /IEC 25001.2014 are as follows.

- Regarding the normative reference documents, this section has made technical adjustments to maintain the national standard with GB/T 25000 series.

The quasi-coordination and adjustment are concentrated in Chapter 2, "Regulatory Citations", and the specific adjustments are as follows.

- * Replace ISO /IEC 25000.2014 with GB/T 25000.1 equivalent to the international standard;
- * Replaced ISO /IEC 25010.2011 with GB/T 25000.10 modified to adopt international standards;

- * Replace ISO /IEC 25024 with GB/T 25000.24 modified to international standards;
- * Replaced ISO /IEC 25040.2011 with GB/T 25000.40 modified to adopt international standards;
- * Replaced ISO /IEC 25041.2012 with GB/T 25000.41 modified to international standards;
- * Replace ISO /IEC 25045.2010 with GB/T 25000.45 modified to international standards;
- * Added reference to GB/T 25000.12.

--- Added the term "evaluation module" (see 4.6).

This section also made the following editorial changes.

--- To harmonize with the GB/T 25000 series of national standards, the name of the international standard was revised.

Introduction

This part of GB/T 25000 provides details of the planning and management requirements related to system and software product quality requirements and evaluation.

information.

This section mainly deals with the quality requirements and evaluation of system and software products, and discusses the corresponding process requirements and evaluation activities.

This section is intended to clarify the requirements that should be confirmed by the organization to ensure the success of the specified system and software quality requirements and evaluation implementation.

This section is intended to be combined with other standards of the GB/T 25000SQuaRE series corresponding to the ISO /IEC 25000SQuaRE series.

use. The ISO /IEC 25000SQuaRE series of standards replaces the ISO /IEC 9126 series of standards and the ISO /IEC 14598 series of standards.

This part complies with the definition and analysis of quality requirements specified in ISO /IEC 15288.2008 and ISO /IEC 12207.2008.

Process.

Figure 1 (cited from ISO /IEC 25000) represents a member of the SQuaRE family of standards and is referred to as a division.

Figure 1 SQuaRE series international standard organization structure

The various divisions in the SQuaRE series are.

a) ISO /IEC SQuaRE2500n---Quality Management Division. The standards that make up this division define all of the SQuaRE series.

All common models, terms, and definitions that this standard will reference. In a specific application case, the division is for all types of users.

Provide the following assistance. (guided by the SQuaRE documentation) reference pathways and advanced practical recommendations for applying the appropriate standards. The score

The Department also provides a support function request and guidance for product requirements specification and evaluation management.

b) ISO /IEC SQuaRE2501n---Quality Model Division. The standards that make up this segment are system and software products, quality of use.

Volume and data provide detailed quality models. A practical guide to using quality models is also provided.

c) ISO /IEC SQuaRE2502n---Quality Measurement Division. The standards that make up this segment include system and software product quality measurements.

A quantitative reference model, a mathematical definition of quality measurements, and a practical guide to the application. The division proposes internal measurements of software quality,

External measurement of system or software product quality and measurement of quality of use. Define and give the basis for the basis of the subsequent measurements

Measure element.

d) ISO /IEC SQuaRE2503n---Quality Requirements Division. The criteria that make up this segment help to clarify the quality requirements. These ones

Quality requirements can be used in the process of developing a product's quality requirements or as an input to the evaluation process. In ISO /IEC

In the technical process definitions of 15288.2008 and ISO /IEC 12207.2008, the requirements definition process is mapped to stakeholder needs.

The definition process of seeking.

e) ISO /IEC SQuaRE2504n---Quality Evaluation Division. The criteria that make up this segment are given by independent reviewers,

The demand side is also the requirements, recommendations and guidelines for software product evaluation performed by the developer. Measurements are also given as evaluation modules

Preparation support.