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

**GB/T 25000.41-2018**

Replacing GB/T 18905.3-2002, GB/T 18905.4-2002, GB/T 18905.5-2002

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**Systems and software engineering -- Systems and software Quality  
Requirements and Evaluation (SQuaRE) -- Part 41: Evaluation guide for  
developers, acquirers and independent evaluators**

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### Foreword

GB/T 25000 "System and Software Engineering Systems and Software Product Quality Requirements and Evaluation (SQuaRE)" has been or is planned to be released

The next few sections.

--- 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. Guidelines for the evaluation of developers, acquirers and independent evaluators;

--- Part 45. Evaluation module for easy recovery;

--- Part 51. RUSP quality requirements and test details;

--- Part 62. Ease of Use Test Report Industry Common Format (CIF).

This part is the 41st 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 18905.3-2002 "Software Engineering Product Evaluation Part 3. Process for Developers", GB/T 18905.4-

2002 "Software Engineering Product Evaluation Part 4. Process for Demand Side", GB/T 18905.5-2002 "Software Engineering Product Evaluation Part 5"

Sub-point. The process used by the evaluator. This section integrates the evaluation requirements and evaluation process of the three roles of developer, demander and independent reviewer.

The differences between GB/T 18905.3-2002, GB/T 18905.4-2002, and GB/T 18905.5-2002 are listed in Appendix A.

This section adopts the redrafting method to modify the use of ISO /IEC 25041.2012 "system and software engineering systems and software quality requirements and Evaluation (SQuaRE) Developer, Demander and Independent Evaluator Evaluation Guide. The technical differences and reasons for this part and ISO /IEC 25041.2012 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 3, "Regulatory Citations", and the specific adjustments are as follows.

\* Added references to GB/T 25000.10, GB/T 25000.51, ISO /IEC 12207.2008, ISO /IEC 15288.

2008, ISO /IEC 15504 and ISO /IEC 90003;

\* Replace ISO /IEC 25000 with GB/T 25000.1 equivalent to the international standard;

\* Replace ISO /IEC 25001 with GB/T 25000.2-2018 modified to international standards;

\* Replace ISO /IEC 25040 with GB/T 25000.40-2018 modified to international standards;

--- The applicable GB/T 25000 series standard has been added to the resources of the product quality evaluation process (see 5.1);

--- Amend the "high-level product quality evaluation plan" to "revised, high-level product quality evaluation plan" to enhance expression

Accuracy [see 7.4.1 f)];

The editorial differences between this section and ISO /IEC 25041.2012 are as follows.

--- In order to coordinate with the GB/T 25000 series of national standards, the name of the international standard was revised;

--- Amend the column number 1.2.3 in 7.5.4 and 7.6.3 of ISO /IEC 25041.2012 to a) b) according to the standard format requirements

c) (see 7.5.4 and 7.6.3);

--- Added Appendix A (informative appendix) "with GB/T 18905.3-2002, GB/T 18905.4-2002, GB/T 18905.5-

The difference in.2002";

--- References are deleted from duplicated documents in normative references (see references).

## Introduction

As the use of information technology continues to grow, so does the number of critical computer systems. These systems include. confidentiality, life, and

Various systems for security and security. The software quality of these systems is especially important, and software failure can lead to serious consequences.

Evaluation is a systematic determination of the extent to which an entity meets its stated criteria. Software product quality evaluation is critical to software acquisition and development

important. The relative importance of various features of software quality depends on the intended use or target of the software portion of the system; the software product needs to be evaluated

Price to determine if the relevant quality characteristics meet system requirements.

This section is part of the SQuaRE series of international standards. GB/T 25000.40 (ISO /IEC 25040) for product quality evaluation

And the basic concepts of association give general requirements and recommendations. This section is based on GB/T 25000.40 (ISO /IEC 25040).

Specific requirements and recommendations related to the sender, the acquirer and the independent reviewer.

The overall goal of the SQuaRE standard set is to develop a logically organized, rich and unified set of standards covering two main

Process. Software quality requirements specifications and software quality evaluations supported by the software quality measurement process. The purpose of the SQuaRE standard set is

Help people who develop and acquire software products with quality requirements specifications and evaluations. This standard set establishes the quality of software

products.

The specification and its measurements, as well as the criteria for evaluation, include the use of development process attributes to match the quality model defined by the customer's quality. this

In addition, this series of standards provides recommended measures of the quality attributes of software products that can be used by developers, acquirers, and independent reviewers.

SQuaRE offers.

- \* terms and definitions;
- \* reference model;
- \* General guidelines;
- \* separate division guide;
- \* Standards that are suitable for requirements specification, planning and management, measurement and evaluation purposes.

SQuaRE includes international standards for quality models and measures, as well as quality requirements and evaluation.

SQuaRE replaces the current ISO /IEC 9126 series of standards and the ISO /IEC 14598 series of standards.

This section is intended to work with other parts of the SQuaRE series of international standards, as well as the ISO /IEC 14598 series of standards and ISO /IEC 9126.

The series standards are used together until they are replaced by the ISO /IEC 25000 series of standards.

The SQuaRE series of international standards consists of the following divisions with the overall title of system and software product quality requirements and evaluations.

- \* ISO /IEC 2500n---Quality Management Division;
- \* ISO /IEC 2501n---Quality Model Division;
- \* ISO /IEC 2502n---Quality Measurement Division;
- \* ISO /IEC 2503n---Quality Requirements Division;
- \* ISO /IEC 2504n---Quality Evaluation Division.

The organizational structure of the SQuaRE series of international standards "System and Software Engineering Systems and Software Quality Requirements and Evaluation" is shown in Figure 1.