

ICS 35.080

CCS L77



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

GB/T 14394-2008

Replacing GB/T 14394-1993

Computer software reliability and maintainability management

计算机软件可靠性和可维护性管理

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Foreword

This standard replaces GB/T 14394-1993 "computer software reliability and maintainability management." This standard and GB/T 14394-1993 main difference is. GB/T 14394-1993 according to GB/T 8566-1988 "computer Software development standard "divide the software life cycle, according to the stage to describe software reliability and maintainability requirements; according to this standard GB/T 8566- 2007 "Information technology - Software Life Cycle Processes" division of the software life cycle, according to the processes and activities described software reliability and maintainability Claim. This standard by the National Information Technology Standardization Technical Committee (SAC/TC28) and focal points. This standard was drafted. China Electronics Standardization Institute, Shandong Computer Science Center. The main drafters of this standard. Han Hongjiang, Wang Wei, Li Gang, Zhou Ming Yue, Wang Yinglong. This standard replaces the standards previously issued as follows:

--- GB/T 14394-1993. Computer software reliability and maintainability management

1 Scope

GB/T 14394-2008 is the Chinese national standard on computer software reliability and maintainability management, in the field of information technology. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 18 July 2008 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 December 2008.

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This standard specifies the software product in its life cycle how to choose the appropriate software reliability and maintainability management elements, and guide Development and implementation of software reliability and maintainability outline outline. This standard applies to the basic process of software product life cycle.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 8566-2007 Information technology - Software life cycle processes

GB/T 11457-2006 Information technology - Software engineering terminology

GB/T 16260.1-2006 Software engineering - Product quality - Part 1. Quality model (ISO / IEC 9126-1:2001.IDT)

3 Terms and Definitions

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

3.1 Described as a document technology and management methods to ensure software meets specified reliability requirements taken, typically describe work to be done, Resources, the use of methods required, the process employed, schedule and project organization method to be met.

3.2 Document technology and management methods are described in order to ensure maintainability of the software to meet the provisions taken, typically describe the work to be done For, resources required, the use of methods, procedures used, schedule and project organization method to be met.

3.3 Software Failure Reporting, Analysis and Corrective Action System (FRACAS) is a closed loop control system, software failure will be recorded, Report to identify cause of failure and take corrective measures.

4 Software life cycle

4.1 Basic software life cycle process reliability and maintainability management requirements In accordance with this standard GB/T 8566-2007 the software life cycle is divided into five basic processes presented in the course of these five basic Software reliability and maintainability management. Table 1 shows the activity of this standard and GB/T 8566-2007 Software Life Week Relationship mapping of processes and activities.

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