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

GB/T 45802-2025

**Systems and software engineering - Life cycle processes -
Requirements engineering**

系统与软件工程 生存周期过程 需求工程

(English Translation)

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

This document is equivalent to ISO /IEC /IEEE29148.2018 "Systems and software engineering life cycle process requirements engineering". The following minimal editorial changes were made to this document.

--- Correct "6.3.4" in 6.2.3.5 to "6.3.3", GB/T 22032-2021 and GB/T 8566-2022 6.3.4 is the risk management process, and 6.3.3 is the decision management process;

---Change "Use decision management process (GB/T 22032-2021, 6.3.4 or GB/T 8566-2022, 6.3.4)" in 6.3.3.3 The "6.3.4" in GB/T 22032-2021 and GB/T 8566-2022 is the risk management Process,6.3.3 is the decision management process;

--- Change the "risk management process" in 6.3.3.3 (6.3.5 in GB/T 22032-2021 or 6.3.6 in GB/T 8566-2022) to "6.3.5)" is corrected to "6.3.4", and "6.3.5" in GB/T 22032-2021 and GB/T 8566-2022 They are the technical status[/configuration] management process, and 6.3.4 is the risk management process;

--- Correct "A.2.4.1" in A.2.5.3 to "A.2.5.1", and the change requirements are described in A.2.5.1;

---Correct "A.2.4.2" in A.2.5.5 to "A.2.5.2". The reason for the change is described in A.2.5.2.

Introduction

This document aims to provide a unified specification for the requirements engineering process and artifacts in the system and software engineering life cycle.

Engineering, provide detailed requirements document structure and content requirements, including requirements characteristics and attributes. This document also provides ISO / Guidelines for the implementation of the requirements engineering related processes required by IEC /IEEE15288 and ISO /IEC /IEEE12207.

1 Scope

This document.

---Specifies the process required to implement demand engineering activities throughout the life cycle of systems and software products (including services);

--- Provides the process of describing needs and requirements in application ISO /IEC /IEEE15288 and ISO /IEC /IEEE12207 Guidelines;

---Specifies the required information items generated by the implementation of the requirements process;

---Specifies the necessary content of the required information items;

--- Provides format guidance for required and related information items.

This document applies to.

--- Use in projects involving man-made systems, software-intensive systems, software and hardware products, and services related to these systems and products Anyone who uses or plans to use ISO /IEC /IEEE15288 and ISO /IEC /IEEE12207, regardless of project scope, product, method, size or complexity;

--- Personnel who perform requirements engineering activities to ensure that their application of the requirements engineering process complies with ISO /IEC /IEEE15288 and/or ISO /IEC /IEEE12207;

--- For use in man-made systems, software-intensive systems, software and hardware products, and services related to these systems and products Anyone who plans to use ISO /IEC /IEEE 15289, regardless of project scope, product, method, size or complexity;

--- Personnel who perform requirements engineering activities to ensure that the information items developed during the requirements engineering application process comply with ISO /IEC / IEEE15289.

2 Normative references

The contents of the following documents constitute essential clauses of this document through normative references in this document.

For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to This document.

GB/T 8566-2022 Systems and software engineering software life cycle processes (ISO /IEC /IEEE12207.2017, IDT)

GB/T 22032-2021 Systems and software engineering system life cycle processes (ISO /IEC /IEEE15288.2015, IDT)

3.1 Terms and Definitions

The URLs for terminology databases used for standardization maintained by ISO, IEC and IEEE are as follows.