

ICS 35.240.20

CCS L 67



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

GB/T 46841-2025

Asset management - Digitalization reference architecture

资产管理 数字化参考体系

Issued on: December 2, 2025

Implemented on: December 2, 2025

**Issued by: State Administration for Market Regulation;
Standardization Administration of the PRC**

Table of Contents

1.Scope	1
2 Normative References	1
3.Terms and Definitions	1
4.Overall Framework	1
5 Strategic Elements	2
5.1 Overview	2
5.2 Overall Planning	3
5.3 Management System	3
5.4 Stakeholders	4
5.5 Performance Evaluation	4
6 Business Elements	4
6.1 Overview	4
6.2 Business Implementation	5
6.3 Business Capabilities	5
7 Data Elements	5
7.1 Overview	5
7.2 Data Awareness	6
7.3 Data Governance	6
7.4 Data Modeling	6
7.5 Data Services	6
8 Technical Elements	6
8.1 Overview	6
8.2 Digital Technology	7
8.3 System Technology	7
8.4 Safety Protection Technology	7
9 Protection elements	8
9.1 Overview	8
9.2 Standards and Specifications	8
9.3 Equipment and Facilities	8
9.4 Maintenance and Management	8
9.5 Human Resources	8
9 References	10

Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1. Structure and Drafting Rules of Standardization Documents". Drafting. Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents. This document was proposed and is under the jurisdiction of the National Technical Committee on Standardization of Asset Management (SAC/TC583). This document was drafted by: China National Institute of Standardization, Hubei Provincial Institute of Standardization and Quality, China Jiliang University, and Dianliang Zhihui Technology. (Beijing) Co., Ltd., China Southern Power Grid Digital Platform Technology (Guangdong) Co., Ltd., Yonyou Software Co., Ltd., Changzhou Metro Group Co., Ltd. The company, China Southern Power Grid Energy Storage Co., Ltd., Zhejiang Sanfeng Industrial Co., Ltd., Huaqin Technology Co., Ltd., and China Tower Corporation. Limited Liability Company Hubei Branch, Beijing Jingu Vision Technology Group Co., Ltd., and Suizhou Product Quality Supervision and Inspection Institute. The main drafters of this document are. Cheng Yue, Wang Shuang, Liu Xingheng, Qiu Junjiang, Shang Chao, Chen Yanming, Ang Gao, Yao Guoquan, Zhong Jianxu, Mao Haijun, and Xu Jinlong. She Jun, Ying Yiheng, Liu Yuwei, Xu Kaicheng, Qian Xuetao, Wan Li, Zhang Ying, Ding Fan, Xiao Yao, Xiang Xuexin, Tang Jingning. Digital Reference Architecture for Asset Management

1 Scope

GB/T 46841-2025 is the Chinese national standard covering the reference architecture for managing physical assets digitally - the asset register and its hierarchy, the condition and performance data, the maintenance and the decision support, and the interfaces to the systems that already hold pieces of it. First edition, one of five asset management standards issued together. It was issued on 2 December 2025 and has been in force since 2 December 2025, as a first edition. The document is under the responsibility of the Standardization Administration of China. This page is published from the official record of the 2025 edition; the clause text of a standard this recent is not yet in circulation, and the figures, limits and tables it contains are those of the document itself, delivered in full with the English translation.

This document outlines the composition and relationships of digital elements in asset management, and categorizes them into strategic, business, data, and technological elements. The content of the guarantee elements was explained. This document serves as a reference for various organizations to carry out digital construction, operation and management of asset management.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 33172 Overview, Principles and Terminology of Asset Management

GB/T 33173 Asset Management System Requirements

GB/T 40829 Maturity Assessment of Organizational Asset Management System

3 Terms and Definitions

The terms and definitions defined in GB/T 33172 and the following terms and definitions apply to this document.

3.1 This involves leveraging next-generation information technology and data-driven approaches to optimize and innovate asset lifecycle management.

4 Overall Framework

4.1 The organization integrates the concept of full lifecycle asset management to comprehensively manage and optimize the digital components of asset management, thereby achieving... The current purpose is to serve and promote the digital value creation of asset management.

4.2 The components and relationships of the digital reference architecture for asset management are shown in Figure 1.