

ICS 35.080

CCS L 77



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

GB/T 41866.3-2022

**Systems and software engineering - Information technology
project performance benchmarking framework - Part 3:
Reporting**

Issued on: October 14, 2022

Implemented on: May 1, 2023

**Issued by: State Administration for Market Regulation, China National
Standardization Administration**

Table of Contents

foreword

Introduction

1 Scope

2 Normative references

3 Terms and Definitions

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 of Standardization Documents" drafted.

This document is part 3 of GB/T 41866 "Systems and Software Engineering Information Technology Project Performance Benchmark Measurement Framework".

GB/T 41866 has released the following parts.

- Part 1. Concepts and Definitions;
- Part 2. Benchmark measurement requirements;
- Part 3. Report preparation;
- Part 4. Data collection and maintenance.

This document is modified to adopt ISO /IEC 29155-3:2015 "Systems and Software Engineering Information Technology Project Performance Benchmarking Measurement Framework No.

Part 3. Reporting Guidelines.

The technical differences between this document and ISO /IEC 29155-3:2015 and their reasons are as follows.

- Replaced ISO /IEC 29155-1 (see Chapter 3) with the normatively cited GB/T 41866.1 to adapt to our country's technology

condition;

- Replaced ISO /IEC 29155-2 (see Chapter 3) with the normatively cited GB/T 41866.2 to adapt to our country's technology

condition;

--- Added the normative appendix "Reporting Framework" (see Appendix B), giving the basic elements and corresponding

The content description increases the operability of benchmarking report compilation.

The following editorial changes have been made to this document.

--- Adjust the name of the standard to "System and Software Engineering Information Technology Project Performance Benchmarking Measurement Framework Part 3. Report Editing"

System" for a more accurate expression;

--- Added the explanation of selectivity [M] and [O] of deliverables;

--- Replaced ISO /IEC 15939.2007 with GB/T 20917-2017 cited for information (see note in 6.3.2);

--- Deleted the note in Appendix A of ISO /IEC 29155-3.2015.

Please note that some content of this document may be patented. The issuing agency of this document assumes no responsibility for identifying patents.

Introduction

Benchmark measurement refers to the activity of evaluating the characteristics of the object by comparing each "object of interest" with each other or with a benchmark.

In GB/T 41866, the "object of interest" refers to the performance of the IT project, while the characteristic refers to an aspect of the IT project, for example, productivity.

Benchmarking is one of the fastest growing technologies in the field of IT project management. Generation and Development of IT Project Performance Benchmarking Instances

For a variety of reasons, the most common of which are.

- a) the need to compare the productivity of projects in similar industries;
- b) need to compare different project types and technical productivity;
- c) the need to find the most effective goals when improving the IT development process;
- d) the need to compare productivity between different suppliers;
- e) the need to improve project management maturity;
- f) The need to improve project estimation capabilities.

The relevant experimental literature on the implementation of IT project performance benchmarking measures shows that the failure rate of benchmarking measures is relatively

high, and the statistical data also proves that

up to this point. The failure of benchmarking measurement is mainly due to the inconsistency between the selection of measurement objectives and the selection of business objectives, as well as the inconsistency between project level and project group

Misunderstanding of the relationship between co-management levels. When measurements and results are inconsistent, teams still spend unnecessary effort collecting project data,

This will reduce the incentive to continue benchmarking and institutionalize it.

As shown in Figure 1, GB/T 41866 intends to include the following parts.

--- Part 1. Concepts and Definitions. Provides an overarching framework model for benchmarking IT project performance. It includes successful identification,

The necessary activities and components required to define, select, apply, and improve benchmarking measures also provide an overview of IT project performance benchmarking measures.

Terms and Definitions.

--- Part 2. Benchmark measurement requirements. Describes what is required to conduct and/or support an organization's successful completion of benchmarking activities

Task.

--- Part 3. Report preparation. Provides general requirements and guidelines for the report preparation process and typical report content.

--- Part 4. Data collection and maintenance. Provides activities for collecting IT project data for entering and maintaining a benchmark metrics data warehouse

General requirements and guidelines for movement.

The purpose of this document is to provide guidance on the reporting process and typical report content for IT project performance benchmarking measures, resulting in high

Quality deliverables (e.g., benchmark metrics reports for benchmark metrics instances, published benchmarks, and interpretations of published benchmark metrics data warehouses)

Sexuality Report), which includes information sufficient to avoid misunderstandings and lead to inappropriate use.

Figure 1 Overview of the IT Project Performance Benchmarking Framework

Systems and Software Engineering Information Technology Project Performance Benchmarks

Metrics Framework Part 3. Reporting

1 Scope

This document provides the reporting process and typical report content on benchmarking activities in the IT Project Performance Benchmarking Framework

general requirements and guidelines, including.

--- Requirements and guidelines for the reporting process within the benchmarking metrics framework;

--- Requirements and guidelines for report content.

This document focuses on three priority activities, namely "Implementing Benchmark Metrics", "Maintaining the Data Warehouse" and "Publishing Benchmarks".

NOTE 1 These activities are selected not only because their results are important, but also as direct input by the benchmark metric user to perform the "core benchmark" activities. In addition, the base

Quasi-metric users are often not so deeply involved in these activities, even though deep knowledge of the information is required in order to understand benchmark results or select appropriate

data (i.e. benchmark metrics data warehouses and benchmarks).

This document also focuses on two types of reporting within the benchmarking metrics framework.

- a) Benchmark Metrics Report. describe the results of the benchmark metric instance;
- b) Interpretive Report. Provides supplementary information about the published benchmark metrics data warehouse or benchmark.

This document is intended for stakeholders of IT project performance benchmarking (e.g. benchmarking users, benchmarking providers, benchmarking service providers side) use.

Note 2. The following examples illustrate how this document can be used.

--- Used by the acquirer (or third-party agent) of the system and software to define, order, obtain and evaluate an acceptable and reliable benchmark metric report;

--- Used by benchmark measurement service providers to generate high-quality benchmark measurement reports;

--- Used by benchmark providers to provide supplemental information about published benchmark metrics data warehouses and benchmarks.

This document does not prescribe how to organize benchmarking activities. The name,