# SS 703:2024
# ISO 10007:2017, MOD

(ICS 03.100.70; 03.120.10; 45.020)

SINGAPORE STANDARD

# Quality management – Guidelines for configuration management of railway assets

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Singapore Standards Council

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# Quality management – Guidelines for configuration management of railway assets

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## National Foreword

This Singapore Standard was prepared by the Working Group on Quality Management – Guidelines for Configuration Management of Railway Assets set up by the Technical Committee on Railway Systems under the purview of the Transportation Standards Committee.

This standard is a modified adoption of ISO 10007:2017, “Quality management – Guidelines for configuration management”, published by the International Organization for Standardization.

In this standard, certain modifications due to national requirements and the particular needs of the local industry have been made. These technical deviations and additional information have been added directly to the clauses to which they refer and are marked by a vertical bar on the left margin of the standard. A complete list of modifications, together with their justifications, is given in Annex ZA.

Attention is drawn to the possibility that some of the elements of this Singapore Standard may be the subject of patent rights. Enterprise Singapore shall not be held responsible for identifying any or all of such patent rights.

**NOTE**

1. *Singapore Standards (SSs) and Technical References (TRs) are reviewed periodically to keep abreast of technical changes, technological developments and industry practices. The changes are documented through the issue of either amendments or revisions. Where SSs are deemed to be stable, i.e. no foreseeable changes in them, they will be classified as “mature standards”. Mature standards will not be subject to further review, unless there are requests to review such standards.*

2. *An SS or TR is voluntary in nature except when it is made mandatory by a regulatory authority. It can also be cited in contracts making its application a business necessity. Users are advised to assess and determine whether the SS or TR is suitable for their intended use or purpose. If required, they should refer to the relevant professionals or experts for advice on the use of the document. Enterprise Singapore and the Singapore Standards Council shall not be liable for any damages whether directly or indirectly suffered by anyone or any organisation as a result of the use of any SS or TR. Although care has been taken to draft this standard, users are also advised to ensure that they apply the information after due diligence.*

3. *Compliance with a SS or TR does not exempt users from any legal obligations.*

# Quality management – Guidelines for configuration management in railway asset

## 0 Introduction

The purpose of this document is to enhance common understanding of the subject, to promote the use of configuration management and to assist organizations applying configuration management to improve their performance.

This document outlines the responsibilities and authorities before describing the configuration management process that includes configuration management planning, configuration identification, change control, configuration status accounting and configuration audit.

Configuration management is a management activity that applies technical and administrative direction over the life cycle of a product and service, its configuration identification and status, and related product and service configuration information.

Configuration management documents the product or service configuration. It provides identification and traceability, the status of achievement of its physical and functional requirements, and access to accurate information in all phases of the life cycle.

Configuration management can be implemented based on the size of the organization and the complexity and nature of the product or service and reflects the needs of specific lifecycle phases.

Configuration management can be used to meet the product and service identification and traceability requirements specified in SS ISO 9001:2015, 8.5.2.

## 1 Scope

This document provides guidelines on configuration management practice within the railway industry. It is applicable to the rail authority, operators, suppliers in relation to the supply and support of products and services from testing and commissioning phase, through operation and maintenance phase till disposal.

## 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

SS ISO 9000:2015, Quality management systems — Fundamentals and vocabulary

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 9000 and the following apply. ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at http://www.iso.org/obp
— IEC Electropedia: available at http://www.electropedia.org/