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Technical product documentation (TPD) - Classification of requirements - Part 2: Classification based on severity and susceptibility (ISO 24096-2:2024)

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 11/24

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EN ISO 24096-2

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English Version

Technical product documentation (TPD) - Classification of requirements - Part 2: Classification based on severity and susceptibility (ISO 24096-2:2024)

Documentation technique de produits (TPD) - Classification des exigences - Partie 2: Classification en fonction de la gravité et de la susceptibilité (ISO 24096-2:2024)

Technische Produktdokumentation(TPD) - Klassifizierung von Anforderungen - Teil 2: Klassifizierung nach Schweregrad und Empfindlichkeit (ISO 24096-2:2024)

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European foreword

This document (EN ISO 24096-2:2024) has been prepared by Technical Committee ISO/TC 10 "Technical product documentation" in collaboration with CCMC.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by March 2025, and conflicting national standards shall be withdrawn at the latest by March 2025.

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Endorsement notice

The text of ISO 24096-2:2024 has been approved by CEN as EN ISO 24096-2:2024 without any modification.

International Standard

ISO 24096-2

First edition
2024-09

Technical product documentation (TPD) — Classification of requirements —

Part 2: Classification based on severity and susceptibility

Documentation technique de produits (TPD) — Classification des exigences —

Partie 2: Classification en fonction de la gravité et de la susceptibilité

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 10, *Technical product documentation*, Subcommittee SC 6, *Mechanical engineering documentation,* in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/SS F01, *Technical drawings*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

A list of all parts in the ISO 24096 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

This document addresses the classification of requirements. It provides a framework for building a system to enable the classification of requirements and an indication of the classification in the functional specification, FUN-SPEC, to support communication of the consequences of nonconformity to functional requirements. FUN-SPEC (see ISO/TS 21619) is a part of the technical product documentation (TPD). Other approaches than classification of requirements can be state of the art in achieving the objective of securing the end product.

This document has been developed mainly to be implemented within industry, e.g. the automotive and aerospace industries. However, it can also be used in other engineering fields.

Classification of requirements is a tool by which subsequent parties and stakeholders can be informed of the severity of consequences of nonconformity of requirements. This facilitates the guiding of production and quality assurance resources (e.g. purchasing, production planning, control, revision). The classification system relies on established procedures, regulatory framework and contractual agreements for implementation and follow up as present in all modern industry.

There are several examples of industrial stakeholders that deploy their own or partially self-developed system and methodology for classification of requirements. There has previously not been any ISO document that pragmatically describes “what is” and “how to create” a classification system. This series bridges the identified gap and meets the need to describe how to introduce and work with a classification system in an industrial and design context.

Knowledge of the consequences of nonconformity with requirements, and actions taken to resolve the source of the deviation from the given requirements, will have a positive effect on product quality, user safety and economy of the product. Production and inspection resources can then be used where they are most needed.

Annex A gives classification examples with severity and susceptibility.

Annex B gives guidance on susceptibility.

International Standard **ISO 24096-2:2024(en)**

Technical product documentation (TPD) — Classification of requirements —

Part 2: Classification based on severity and susceptibility

1 Scope

This document specifies a method for the classification of requirements based on severity and susceptibility. The classification method requires a system in line with the framework described in ISO 24096-1 to form a complete system.

This document:

— gives guidance on the needed elements for a consistent evaluation of the severity over time, and supports a company business model and its brand image;

— gives background to why additional parameters alongside severity are useful as a base for classification;

— adds susceptibility as a viable parameter along with severity;

— gives guidance on the methodology for classification requirements using severity and susceptibility.

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.

ISO 8015:2011, *Geometrical product specifications (GPS) — Fundamentals — Concepts, principles and rules*

ISO 10209, *Technical product documentation — Vocabulary — Terms relating to technical drawings, product definition and related documentation*

ISO 24096-1, *Technical product documentation (TPD) — Classification of requirements – Part 1: Framework*