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Technical product documentation (TPD) — Classification of requirements —

Part 1: Framework

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

Partie 1: Cadre

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Foreword

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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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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 level of consequences of nonconformity of requirements. This facilitates the guiding of production and quality assurance resources, (e.g. purchasing, production planning, control and 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 ~~needs~~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 guidance for class implication and system application.

[Annex B](#) gives guidance for indication, definition of requirement classes and the selection of symbols.

[Annex C](#) gives guidance for indication in TPD and placing of symbols.

