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Ingénierie des systèmes et du logiciel — Processus du cycle de vie — Gestion des risques

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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 documents should be noted. This document was drafted in accordance with the rules given in the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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This document was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 7, *Systems and software engineering*, in cooperation with the Systems and Software Engineering Standards Committee of the IEEE Computer Society, under the Partner Standards Development Organization cooperation agreement between ISO and IEEE.

This edition cancels and replaces ISO/IEC 16085:2006, which has been technically revised.

The main changes compared to ISO/IEC 16085:2006 are as follows:

— Use common terminology, common process names, and common process structure with ISO/IEC/IEEE 15288:2015 and ISO/IEC/IEEE 12207:2017.

— Improve consistency with ISO 31000:2018, which provides generic principles, framework, and process for managing all forms of risk.

— Provide specialized guidance for performing risk management within the context of systems and software engineering projects.

This document is intended to be used in conjunction with ISO/IEC/IEEE 15288:2015, ISO/IEC/IEEE 12207:2017, ISO 31000 and IEC 31010, and is not a replacement.

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Introduction

This document is an elaboration standard for the risk management process described in ISO/IEC/IEEE 15288 and ISO/IEC/IEEE 12207. This document provides requirements for the tasks and activities of the risk management process in Clause 6, consistent with these life cycle process International Standards. This document provides a definition of the content of the risk management plan (8.1) and risk treatment plan (8.2). This document also provides guidance for how risk management outcomes, activities, and tasks pertain to other processes.

This document prescribes a continuous process for risk management. Clause 1 provides an overview and the purpose, scope, and field of application. Clause 2 lists the normative references. Clause 3 provides terms and definitions. Clause 4 prescribes conformance criteria. Clause 5 describes key concepts and application with other International Standards. Clause 6 elaborates the risk management process as required by ISO/IEC/IEEE 15288 or ISO/IEC/IEEE 12207. Clause 6 also defines required purpose, outcomes, tasks, and activities of the risk management process for application to systems and software engineering projects in an integrated manner as described in Clause 7 and produces the information products described in Clause 8. Clause 7 suggests some typical risk areas, some typical opportunity areas, and some typical treatments for each life cycle process. Clause 8 prescribes the content for the risk management information items. The Bibliography lists informative references that are either referenced by this document or of interest to users of this document.

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