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**Systems and software engineering —
Life cycle management —**

Part 5:
Software development planning

*Ingénierie des systèmes et du logiciel — Gestion du cycle de vie —
Partie 5: Planification de développement de logiciel*



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Foreword

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A list of all parts in the ISO/IEC/IEEE 24748 series can be found on the ISO website.

Introduction

ISO/IEC/IEEE 24748 provides unified and consolidated guidance on the life cycle management of systems and software. This document draws on key aspects of the former IEEE J-Std-016 *Standard for information technology software — Software life cycle processes — Software development — Acquirer-supplier agreement*. The IEEE has identified the need for a non-military standard to guide managers of software systems in software development planning.

Taken together, the parts of ISO/IEC/IEEE 24748 are intended to facilitate the joint usage of the process content of ISO/IEC/IEEE FDIS 12207 *Systems and software engineering — Software life cycle processes* and ISO/IEC/IEEE 15288, *Systems and software engineering — System life cycle processes*, which in turn may be used together with related standards, such as for Information Technology (IT) service management and various lower-level process standards.

The acquisition or supply of a software system is usually done within a project. A project prepares and implements the technical plans and schedules necessary to guide the project toward accomplishment of its objectives and proper conclusion. Given the project's authorization and objectives, the project should establish plans for the technical management of activities as necessary for the software development effort.

This document unifies technical and management requirements and guidance from several sources to specify the requirements for software engineering planning, including software development plans or software engineering plans. This document also identifies the processes as defined in ISO/IEC/IEEE FDIS 12207 to perform the necessary project planning activities to accomplish the project's technical effort and to develop the software project's technical management and development plans.

This document focuses on the processes required for successful planning and management of the project's software development effort and for development of the software development plan (SDP) as a vehicle for representing a project's application of software life cycle processes. The SDP is a top level technical planning document for a project which addresses technical management processes established by three principal sources (the project's agreement, applicable organizational and technical management processes, and the software development project team) as necessary to successfully accomplish the software development related tasks of the project.

Systems and software engineering — Life cycle management — Part 5: Software development planning

1 Scope

This document provides a common framework for planning and controlling the technical processes and activities to produce and sustain software products. The complete life cycle is covered by this document, from idea conception to the retirement of a software product. The framework described by this document provides for best practices in communication and cooperation among parties that plan for, develop, utilize, and manage modern software.

This document:

- specifies the required information items to be produced through the implementation of the required planning and control processes;
- specifies the required content of the required information items;
- gives guidelines for the format and content of the required and related information items; and
- details the processes necessary to develop and implement a software plan.

This document is intended to provide guidance for parties involved in the planning of software engineering at all stages of the software life cycle. It is intended to provide a common framework for two-party and multi-party collaborations and can be applied where the parties are from the same organization. This document can also be used by a single party.

This document is applicable to:

- those who use ISO/IEC/IEEE FDIS 12207 on projects dealing with software products and services related to those products;
- those who are responsible for the technical management of the development of software systems;
- organizations and individuals performing software development activities; and
- organizations and individuals developing information items during the development of software.

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/IEC/IEEE FDIS 12207:2017¹, *Systems and software engineering — Software life cycle processes*

¹ Under preparation. (Stage at time of publication ISO/IEC/IEEE FDIS 12207)