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# Space systems — Programme management —

## Part 1: Structuring of a project

*Systèmes spatiaux — Management de programme —*

*Partie 1: Structuration d'un projet*

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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 20, *Aircraft and space vehicles*, Subcommittee SC 14, *Space systems and operations*.

This third edition cancels and replaces the second edition (ISO 14300-1:2011), which has been technically revised.

The main changes are as follows:

— update of normative references, related references in the text and related terms and definitions;

— update of the Bibliography;

— update of Annex A.

A list of all parts in the ISO 14300 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


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# Introduction

This document provides an overview and requirements of space programme management with the overall objective of optimizing performance, costs and schedules and of minimizing the risks.

Programme management is an integral element of any programme, but, in space, it is particularly important due to the following:

— specific environmental conditions in space;

— need for a high level of performance;

— limited number of models;

— limited access to the product during operations;

— quasi-impossibility of making repairs in the case of failure during flight;

— often high complexity of the organization;

— associated high costs involved.

The deployment of this standardized common set of programme management requirements encourages and facilitates international space co-operation.

NOTE The term programme is understood to be a group of several projects. Both “programme” and “project” can be used in the same context throughout this document.

The applicable requirements for product assurance are given in ISO 14300-2. Annex A gives the general ISO standards framework for space systems programme management.

This document is intended to be used as a basis when establishing and negotiating customer project management requirements and guiding the supplier's responses.

It allows:

— a clear definition of the roles, responsibilities and authorities of the different customers and suppliers;

— coherence between their activities;

— communication capability between them;

— stable and rigorous project organization;

— as far as possible, standardization of the rules applicable to various programmes/projects.

It still allows for supplier flexibility in its implementation and tailoring.

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# Space systems — Programme management —

# Part 1:
# Structuring of a project

## 1 Scope

This document specifies the space programme/project management requirements, applicable through a top-down approach in a contractual relationship between customers and suppliers.

## 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 9000, *Quality management systems — Fundamentals and vocabulary*

ISO 10007, *Quality management — Guidelines for configuration management*

ISO 10795, *Space systems — Programme management and quality — Vocabulary*

ISO 11893, *Space systems — Programme management — Project organization*

ISO 14300-2, *Space systems — Programme management — Part 2: Product assurance*

ISO 16192, *Space systems — Experience gained in space projects (Lessons learned) — Principles and guidelines*

ISO 17666, *Space systems — Risk management*

ISO 21886, *Space systems — Configuration management*

ISO 21349, *Space systems — Project reviews*

ISO 21351, *Space systems — Functional and technical specifications*

ISO 23460, *Space projects — Programme management — Dependability assurance requirements*

ISO 27026, *Space systems — Programme management — Breakdown of project management structures*

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 9000, ISO 10795 and the following apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/

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