
**Space systems — Programme
management — Breakdown of project
management structures**

*Systèmes spatiaux — Management de programme — Éléments de
structures de gestion de 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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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Introduction

Space programmes, and the space systems developed by them, are complex, incorporate many different technologies, and can last for many years progressing through several different stages from conception to disposal or other disposition. When a space programme advances from one stage to another, substantial changes in the breakdown of project management structures, hereinafter collectively called project breakdown structures, of the programme and the type and amount of resources required can occur; a programme is often composed of one or more projects. In addition, there can be attendant risks to either the success of the project or to the well-being of project equipment or to personnel. Well-regulated project breakdown structures can be an important factor in ensuring that all factors are ready for these changes through controlled changes to the project breakdown structures that form a framework for the project in each of the several different stages, and assist in ensuring that the risks are well understood and accepted. Use of this International Standard as a basis for the framework of activities comprising the project, the necessary resources, controls, inputs, outputs, and results is intended to enhance communications between different organizations that participate in a project, and can assist in reducing costs and schedule of performing the project in each stage.

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Space systems — Programme management — Breakdown of project management structures

1 Scope

This International Standard specifies processes, requirements and recommendations for the breakdown of project management structures, collectively called project breakdown structures, in terms of the various specification (i.e. requirements), functional, product, work, cost, business and organizational breakdown structures that are established and implemented to contribute to the success of a space programme, which is often composed of one or more projects.

It is intended to complement and supplement similar project breakdown structure processes, requirements and recommendations contained within ISO 14300-1, which serves as a higher tier International Standard for this International Standard and for such other space systems and operations International Standards that require formal project breakdown structures.

This International Standard specifies the various types of project breakdown structures and gives processes, requirements and guidance concerning the composition of these breakdown structures.

This International Standard is applicable to project breakdown structures for a project, including at the top level of a programme, i.e. level 0, as indicated in ISO 14300-1. It is intended to be used either by an independent developer as a partial basis for programme processes or as a basis for an agreement between a supplier and a customer.

This International Standard also provides descriptions of the kinds of project breakdown structures that are commonly useful in contributing to the success of a space project. Other project breakdown structures not described in this International Standard also often contribute to the success of a space project.

2 Normative references

The following referenced documents are indispensable for the application 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 14300-1, *Space systems — Programme management — Part 1: Structuring of a project*

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

3 Terms, definitions and abbreviated terms

3.1 Terms and definitions

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

3.1.1

breakdown structure

framework for efficiently controlling some aspect of the activities of a programme or project