

# INTERNATIONAL STANDARD

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## **Space data and information transfer systems — Communication operations Procedure-1**

*Systèmes de transfert des données et informations spatiales —  
Procédure 1 pour les opérations de communication*



Reference number  
ISO 22667:2005(E)

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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.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 22667 was prepared by the Consultative Committee for Space Data Systems (CCSDS) (as CCSDS 232.1-B-1, September 2003) and was adopted (without modifications except those stated in Clause 2 of this International Standard) by Technical Committee ISO/TC 20, *Aircraft and space vehicles*, Subcommittee SC 13, *Space data and information transfer systems*.

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# Space data and information transfer systems — Communication operations Procedure-1

## 1 Scope

This International Standard specifies the communications operation Procedure-1 (COP-1). This procedure is used in conjunction with the telecommand (TC) space data link protocol, as defined by ISO 22664, to enable the delivery of service data units to the receiving end of the layer above, correct and without omission or duplication, and in the same sequential order in which they were received from the layer above at the sending end.

The scope and field of application are furthermore detailed in subclauses 1.1 and 1.2 of the enclosed CCSDS publication.

## 2 Requirements

Requirements are the technical recommendations made in the following publication (reproduced on the following pages), which is adopted as an International Standard:

CCSDS 232.1-B-1, September 2003, *Communication operations Procedure 1*.

For the purposes of international standardization, the modifications outlined below shall apply to the specific clauses and paragraphs of publication CCSDS 232.1-B-1.

*Pages i to v*

This part is information which is relevant to the CCSDS publication only.

*Page 1-5*

Add the following information to the reference indicated:

[4] Document CCSDS 232.0-B-1, September 2003, is equivalent to 22664:2005.

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Add the following information to the references indicated:

[B2] Document CCSDS 202.1-B-2, June 2001, is equivalent to ISO 12173:2003.

[B3] Document CCSDS 202.1-B-1, October 1991, is equivalent to ISO 12173:1998.

It has been agreed with the Consultative Committee for Space Data Systems that Subcommittee ISO/TC 20/SC 13 will be consulted in the event of any revision or amendment of publication CCSDS 232.1-B-1. To this end, NASA will act as a liaison body between CCSDS and ISO.