

Space data and information transfer systems — Standard formatted data units — Control authority procedures

ICS 49.140

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National foreword

This British Standard reproduces verbatim ISO 13764:1996 and implements it as the UK national standard.

The UK participation in its preparation was entrusted to Technical Committee ACE/67, Data and information transfer standards for civil space applications, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

A list of organizations represented on this committee can be obtained on request.

Cross-references

The British Standards which implement international or European publications referred to in this document may be found in the BSI Standards Catalogue under the section entitled “International Standards Correspondence Index”, or using the “Find” facility of the BSI Standards Electronic Catalogue.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, the ISO title page, page ii, pages 1 to 35 and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

Amendments issued since publication

Amd No.	Date	Comments

This British Standard, having been prepared under the direction of the Engineering Sector Board, was published under the authority of the Standards Board and comes into effect on 15 April 1997

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INTERNATIONAL STANDARD

ISO
13764

First edition
1996-12-15

Space data and information transfer systems — Standard formatted data units — Control authority procedures

*Systèmes de transfert des informations et données spatiales — Unités de
données à structuration normalisée — Procédures pour l'autorité de
contrôle*



Reference number
ISO 13764:1996(E)

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.

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.

International Standard ISO 13764 was prepared by Technical Committee ISO/TC 20, *Aircraft and space vehicles*, Subcommittee SC 13, *Space data and information transfer systems*.

Descriptors: Navigation systems, space data systems, data processing, information interchange, telecommunications, data transfer, data exchange, data formats, control procedures.

1 Scope

This International Standard lays down the requirements for Control Authority procedures for standard formatted data units used in space systems.

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 630.0-B-1 June 1993, *Recommendation for space data system standards — Standard formatted data units — Control Authority procedures*.

For the purposes of international standardization, the modifications outlined below shall apply to the specific clauses and paragraphs of publication CCSDS 630.0-B-1.

Pages i to iv

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

Page vi, References

The referenced standard indicated hereafter is available under the following ISO reference:

[2] CCSDS 620.0-B-2 | ISO 12175:1994

Page 3, paragraph 2.1, Control Authority Organization

Add:

The implementation of this International Standard requires the designation of an International Agency which will act as the international secretariat for a Control Authority Organization. The CCSDS Secretariat has agreed to assume that function under the authorization of ISO.

Page 10, paragraph 4.1:1, Establishing a MACAO

Add:

The establishment of a MACAO will in addition be opened to agencies not represented in CCSDS. The acceptability of candidatures from these agencies will be checked by the responsible ISO committee (currently subcommittee ISO/TC 20/SC 13), prior to submission of their request to the CA Agent.

3 Revision of publication CCSDS 630.0-B-1

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 630.0-B-3. To this end, NASA will act as a liaison body between CCSDS and ISO.

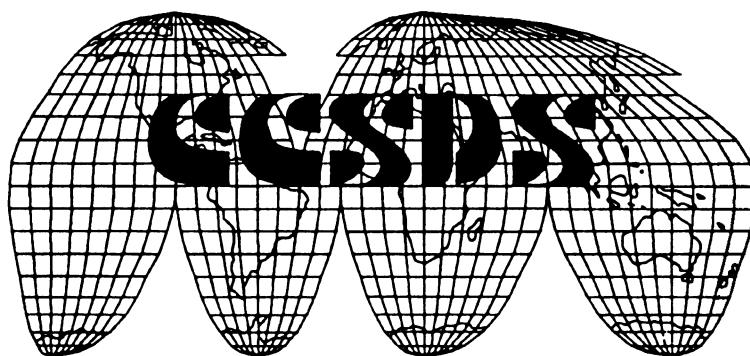
Consultative Committee for Space Data Systems

**RECOMMENDATION FOR SPACE
DATA SYSTEM STANDARDS**

STANDARD FORMATTED DATA UNITS— CONTROL AUTHORITY PROCEDURES

**CCSDS 630.0-B-1
BLUE BOOK**

June 1993



Authority

Issue:	Blue Book, Issue 1
Date:	June 1993
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This Recommendation reflects the consensus technical agreement of the following member Agencies of the Consultative Committee for Space Data Systems (CCSDS):

- British National Space Centre (BNSC)/United Kingdom.
- Canadian Space Agency (CSA)/Canada.
- Central Research Institute of Machine Building (TsNIIMash)/Russian Federation.
- Centre National D'Etudes Spatiales (CNES)/France.
- Deutsche Forschungsanstalt für Luft- und Raumfahrt e.V. (DLR)/Germany.
- European Space Agency (ESA)/Europe.
- Instituto Nacional de Pesquisas Espaciais (INPE)/Brazil.
- National Aeronautics and Space Administration (NASA)/USA.
- National Space Development Agency of Japan (NASDA)/Japan.

The following observer Agencies also concur with this Recommendation:

- Chinese Academy of Space Technology (CAST)/People's Republic of China.
- Department of Communications/Communications Research Center (DOC-CRC)/Canada.
- Institute of Space Research (IKI)/Russian Federation.

This Recommendation is published and maintained by:

CCSDS Secretariat
Program Integration Division (Code 01)
National Aeronautics and Space Administration
Washington, DC 20546, USA

CCSDS Recommendation for SFDUs: Control Authority Procedures

Statement of intent

The Consultative Committee for Space Data Systems (CCSDS) is an organization officially established by the management of member space Agencies. The Committee meets periodically to address data systems problems that are common to all participants, and to formulate sound technical solutions to these problems. Inasmuch as participation in the CCSDS is completely voluntary, the results of Committee actions are termed RECOMMENDATIONS and are not considered binding on any Agency.

This RECOMMENDATION is issued by, and represents the consensus of, the CCSDS Plenary body. Agency endorsement of this RECOMMENDATION is entirely voluntary. Endorsement, however, indicates the following understandings:

- Whenever an Agency establishes a CCSDS-related STANDARD, this STANDARD will be in accord with the relevant RECOMMENDATION. Establishing such a STANDARD does not preclude other provisions which an Agency may develop.
- Whenever an Agency establishes a CCSDS-related STANDARD, the Agency will provide other CCSDS member Agencies with the following information:
 - The STANDARD itself.
 - The anticipated date of initial operational capability.
 - The anticipated duration of operational service.
- Specific service arrangements shall be made via memoranda of agreement. Neither this RECOMMENDATION nor any ensuing STANDARD is a substitute for a memorandum of agreement.

No later than five years from its date of issuance, this Recommendation will be reviewed by the CCSDS to determine whether it should: (1) remain in effect without change; (2) be changed to reflect the impact of new technologies, new requirements, or new directions; or (3) be retired or canceled.

In those instances when a new version of a RECOMMENDATION is issued, existing CCSDS-related Agency standards and implementations are not negated or deemed to be non-CCSDS compatible. It is the responsibility of each Agency to determine when such standards or implementations are to be modified. Each Agency is, however, strongly encouraged to direct planning for its new standards and implementations towards the later version of the Recommendation.

*CCSDS Recommendation for SFDUs: Control Authority Procedures***Foreword**

This document is a technical Recommendation for the standardization of the Control Authority organization for supporting the digital transfer of space-related information in an open system data interchange using Standard Formatted Data Units (SFDUs). Other aspects of the SFDU concept are described in documents listed in the Reference section.

This Recommendation defines the responsibilities that must be assumed and the services that must be provided by the participating CCSDS Agencies in order to facilitate the creation and operation of the Control Authority organization. The primary function of this organization is to register and disseminate data description information.

Through the process of normal evolution, it is expected that expansion, deletion, or modification to this document may occur. This Recommendation is therefore subject to CCSDS document management and change control procedures which are defined in Reference [1].

Questions relating to the contents or status of this document should be addressed to the CCSDS Secretariat at the address indicated on page i.