INTERNATIONAL STANDARD

ISO 14962

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Space data and information transfer systems — ASCII encoded English

Systèmes de transfert des informations et données spatiales — Codage ASCII de l'anglais

Reference number
ISO 14962:1997(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 14962 was prepared 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 — ASCII encoded English

1 Scope

This International Standard specifies the requirements for ASCII encoded English for space data and information transfer systems.

2 Requirements

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

CCSDS 643.0-B-1, November 1992, *Recommendation for space data system standards — ASCII encoded English.*

For the purposes of international standardization, the modification outlined below shall apply to the following pages of publication CCSDS 643.0-B-1.

Pages iii to vi

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

Page viii

Add the following information to reference [2]:

Document CCSDS 620.0-B-2, May 1992 is equivalent to ISO 12175:1994.

3 Revision of publication CCSDS 643.0-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 643.0-B-1. To this end, NASA will act as a liaison body between CCSDS and ISO.

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Consultative Committee for Space Data Systems

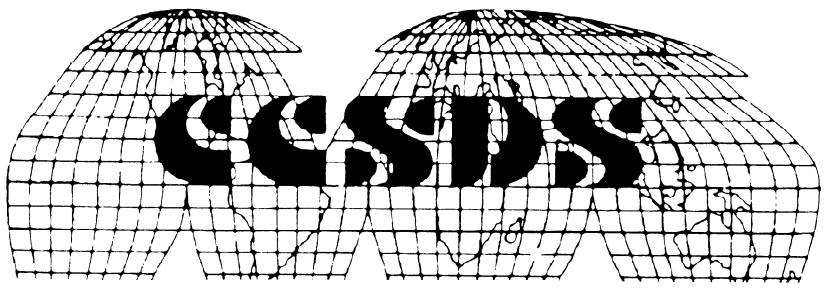
RECOMMENDATION FOR SPACE DATA SYSTEM STANDARDS

ASCII ENCODED ENGLISH (CCSD0002)

CCSDS 643.0-B-1

BLUE BOOK

November 1992



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AUTHORITY

Issue:	Blue Book, Issue 1
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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 (DLR) / FRG
- European Space Agency (ESA) / Europe
- Instituto 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) / Peoples Republic of China
- Central Research Institute of Physics (CRIP) / Hungary
- Department of Communication, Communications Research Centre (DOC-CRC) / Canada
- Institute of Space Astronautics and Science (ISAS) / Japan

This Recommendation is published and maintained by:

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

FOREWORD

This document is a technical Recommendation for the standardisation of the use of ASCII Encoded English as a data description language for the interchange of digital space-related data in an open data system and has been prepared by the Consultative Committee for Space Data Systems (CCSDS).

This Recommendation defines the usage of ASCII Encoded English and its representation as a data description language. It allows implementing organisations within each Agency to proceed coherently with the development of compatible derived Standards for space data systems and widely dispersed data users that are within their cognisance.

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.

STATEMENT OF INTENT

The Consultative Committee for Space Data Systems (CCSDS) is an organisation officially established by the management of the member space Agencies. The Committee meets periodically to address data system 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 agreements of the Committee are termed **RECOMMENDATIONS** and are not considered binding to any Agency.

This Recommendation is issued by, and represents the consensus of, the CCSDS Plenary body. Agency endorsement of the 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 memorandum 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 cancelled.