BS ISO 18438:2013

BSI Standards Publication

Space data and information transfer systems — Spacecraft Onboard Interface Services — Subnetwork Test Service

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National foreword

This British Standard is the UK implementation of ISO 18438:2013.

The UK participation in its preparation was entrusted to Technical Committee ACE/68/-/7, Space systems and operations - Space data and information transfer systems.

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

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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INTERNATIONAL STANDARD

ISO 18438

First edition
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Space data and information transfer systems — Spacecraft Onboard Interface Services — Subnetwork Test Service

Systèmes de transfert des informations et données spatiales — Services d'interfaces à bord des véhicules spatiaux — Service d'essais par sous-réseau

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Foreword

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ISO 18438 was prepared by the Consultative Committee for Space Data Systems (CCSDS) (as CCSDS 855.0-M-1, December 2009) 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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INTERNATIONAL STANDARD ISO 18438:2013(E)

Space data and information transfer systems — Spacecraft Onboard Interface Services — Subnetwork Test Service

1 Scope

This International Standard is one of a family of documents specifying the SOIS-compliant services to be provided by onboard subnetworks.

This International Standard defines services and service interfaces provided by the SOIS Subnetwork Test Service. Its scope is to specify the service only and not to specify methods of providing the service over a variety of onboard data links.

This International Standard conforms to the principles set out in the Spacecraft Onboard Interface Services Green Book and is intended to be applied together with it. The protocols which provide this service are to be documented for individual links, and this may be in the purview of individual missions, agencies, or CCSDS, depending on future circumstance.

The scope and field of application are furthermore detailed in subclause 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 855.0-M-1, December 2009, Spacecraft Onboard Interface Services — Subnetwork Test Service.

For the purposes of international standardization, the modifications outlined below shall apply to the specific clauses and paragraphs of publication CCSDS 855.0-M-1.

Pages i to v

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

3 Revision of publication CCSDS 855.0-M-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 855.0-M-1. To this end, NASA will act as a liaison body between CCSDS and ISO.

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The Consultative Committee for Space Data Systems

Recommendation for Space Data System Practices

SPACECRAFT ONBOARD INTERFACE SERVICES—SUBNETWORK TEST SERVICE

RECOMMENDED PRACTICE

CCSDS 855.0-M-1

MAGENTA BOOK

December 2009

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AUTHORITY

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This document has been approved for publication by the Management Council of the Consultative Committee for Space Data Systems (CCSDS) and represents the consensus technical agreement of the participating CCSDS Member Agencies. The procedure for review and authorization of CCSDS documents is detailed in the *Procedures Manual for the Consultative Committee for Space Data Systems*, and the record of Agency participation in the authorization of this document can be obtained from the CCSDS Secretariat at the address below.

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