



**BSI Standards Publication**

**Space data and information transfer  
systems — Requirements for bodies  
providing audit and certification of candidate  
trustworthy digital repositories**

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## National foreword

This British Standard is the UK implementation of ISO 16919:2025. It supersedes BS ISO 16919:2014, which is withdrawn.

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

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

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# **Space data and information transfer systems — Requirements for bodies providing audit and certification of candidate trustworthy digital repositories**

*Systèmes de transfert des informations et données spatiales — Exigences pour les organismes d'audit et de certification des référentiels numériques potentiellement de confiance*

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## **ISO 16919**

### **Second edition 2025-03**

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## Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO document should be noted (see [www.iso.org/directives](http://www.iso.org/directives)).

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This document was prepared by the Consultative Committee for Space Data Systems (CCSDS) (as CCSDS 652.1-M-3, December 2024) and drafted in accordance with its editorial rules. It was assigned to Technical Committee ISO/TC 20, *Aircraft and space vehicles*, Subcommittee SC 13, *Space data and information transfer systems* and adopted under the "fast-track procedure".

This second edition cancels and replaces the first edition (ISO 16919:2014), which has been technically revised.

The main changes are as follows:

- updated references to latest versions of documents, ISO 17021:2015, ISO 16363 and ISO 14721;
- updated to be consistent with the structure of the latest version of ISO 17021-1, for example, removal of section 8.3 Directory of Certified Clients;
- clarified use of remotes audits in Section 9;
- added CCSDS required subsections in Annex B.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html).

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## 1 INTRODUCTION

### 1.1 PURPOSE

The main purpose of this document is to define a CCSDS Recommended Practice (and ISO standard) on which to base the operations of the organization(s) which assess the trustworthiness of digital repositories using the latest version of CCSDS 652.0/ISO 16363 (reference [1]) and provide the appropriate certification. This document specifies requirements for bodies providing audit and certification of digital repositories, based on the metrics contained within ISO/IEC 17021-1 (reference [4]) and reference [1]. It is primarily intended to support the accreditation of bodies providing such certification.

ISO/IEC 17021-1 provides the bulk of the requirements on bodies offering audit and certification for general types of management systems. However, for each specific type of system, specific additional requirements will be needed, for example, to specify the standard against which the audit is to be made and the qualifications which auditors require.

This document provides the (small number of) specific additions required for bodies providing audit and certification of candidate trustworthy digital repositories. Trustworthy here means that they can be trusted to maintain, over the long-term, the understandability and usability of digitally encoded information placed into their safekeeping.

In order to improve readability the section numbers are kept consistent with those of ISO/IEC 17021-1. Some subsections are applicable as they stand, and these are simply enumerated; otherwise additions to subsections are explicitly given. In the former case the sections may consist of just a few sentences. As a result this document must be read in conjunction with ISO/IEC 17021-1.

### 1.2 SCOPE

The requirements contained in this CCSDS Recommended Practice need to be demonstrated in terms of competence and reliability by any organization or body providing certification of digital repositories.

### 1.3 APPLICABILITY

This document is meant primarily for those setting up and managing the organization performing the auditing and certification of digital repositories.

It should also be of use to those who work in or are responsible for digital repositories seeking objective measurement of the trustworthiness of their repository and wishing to understand the processes involved.