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मसौदा भारतीय मानक
सूचना प्रौद्योगिकी— सुरक्षा तकनीक
—भंडारण सुरक्षा
(पहला पुनरीक्षण)

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Draft Indian Standard
Information Technology — Security Techniques—
Storage Security
(First revision)

ICS: 35.030

Information Systems Security And Privacy Sectional Committee, LITD 17	Last Date for Comments: 26 June 2024

NATIONAL FOREWORD

(Formal clauses will be added later)

This draft Indian Standard (First Revision) which is identical to 'ISO/IEC 27040:2024 Information technology— Security techniques— Storage security' issued by the International Organization Standardization (ISO) and International Electrotechnical Commission (IEC) will be adopted by the Bureau of Indian Standards (BIS) on the recommendations of the Information Systems Security And Privacy Sectional Committee and approval of the Electronics and Information Technology Division Council.

This standard was originally published in 2018 and was identical with ISO/IEC 27040:2015 . The first revision of this standard has been undertaken to align it with the latest version of ISO/IEC 27040:2024 .

The main changes are as follows:

— the scope has been expanded to cover requirements;
— the clause structure has been more closely aligned with ISO/IEC 27002:2022;
— requirements have been added in Clauses 7, 9, and 10;
— adjustments have been made regarding the storage technologies which are covered;
— a new controls labelling scheme has been added;
— former Annex A, which provided guidance on sanitizing specific types of media, has been removed and text has been added in Clause 10, recommending IEEE 2883 for this purpose;
— former Annex B, which included table to help prioritize the adoption of recommendation, has been replaced with Annex A that summarizes the requirements and guidance contained in this document;
— former Annex C, which provided tutorial oriented material, has been removed and references to appropriate materials have been added in Clause 10.

The text of ISO/IEC Standard may be approved as suitable for publication as an Indian Standard without deviations. Certain conventions and terminologies are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following:

a) Wherever the words 'International Standard' appear referring to this standard, they should be read as 'Indian Standard', and

b) Comma (,) has been used as a decimal marker while in Indian Standards, the current practice is to use a point (.) as the decimal marker.

In this adopted draft standard, reference appears to certain International Standards for which Indian Standards also exist. The corresponding Indian Standards, which are to be substituted in their respective places, are listed below along with their degree of equivalence for the editions indicated. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies:

International Standards	Corresponding Indian Standard	Degree of Equivalence
ISO/IEC 27000, Information technology — Security techniques — Information security management systems — Overview and vocabulary	IS/ISO/IEC 27000 : 2018 ISO/IEC 27000 : 2018 Information technology - Security techniques - information: Security management systems - Overview and vocabulary (First Revision)	Identical with ISO/IEC 27000 : 2018

Scope of ISO/IEC 27040:2024 is as follows:

"This document provides detailed technical requirements and guidance on how organizations can achieve an appropriate level of risk mitigation by employing a well-proven and consistent approach to the planning, design, documentation, and implementation of data storage security. Storage security applies to the protection of data both while stored in information and communications technology (ICT) systems and while in transit across the communication links associated with storage. Storage security includes the security of devices and media, management activities related to the devices and media, applications and services, and controlling or monitoring user activities during the lifetime of devices and media, and after end of use or end of life.

Storage security is relevant to anyone involved in owning, operating, or using data storage devices, media, and networks. This includes senior managers, acquirers of storage products and services, and other non-technical managers or users, in addition to managers and administrators who have specific responsibilities for information or storage security, storage operation, or who are responsible for an organization's overall security programme and security policy development. It is also relevant to anyone involved in the planning, design, and implementation of the architectural aspects of storage network security.

This document provides an overview of storage security concepts and related definitions. It includes requirements and guidance on the threats, design, and control aspects associated with typical storage scenarios and storage technology areas. In addition, it provides references to other international standards and technical reports that address existing practices and techniques that can be applied to storage security."

Note: - The Technical content of this document has not been enclosed as these are identical with the corresponding ISO/IEC Standard. For details please refer to ISO/IEC 27040: 2024 or kindly contact

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