## INTERNATIONAL STANDARD

ISO/IEC 21964-1

First edition 2018-08

## Information technology — Destruction of data carriers —

## Part 1: **Principles and definitions**

Technologies de l'information — Destruction de véhicules de données.—

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Partie 1: Principes et concepts
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ISO/IEC 21964-1:2018

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Published in Switzerland

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This document was prepared by DIN, German Institute for Standardization (as national standard DIN 66399-1) and drafted in accordance with its editorial rules. It was assigned to Joint Technical Committee ISO/IEC JTC 1, *Information technology* and adopted under the fast track procedure".

A list of all parts in the ISO/IEC 21964 series can be found on the ISO website.

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## Introduction

Anyone who processes confidential, personal and/or sensitive data for themselves or on behalf of others must ensure that data carriers containing such information are safely destroyed in a way that ensures privacy.

In this context, safely destroyed means that data carriers containing sensitive data must be destroyed in such a way that reproduction of the information on them is either impossible or is only possible with considerable expenditure (in terms of personnel, resources and time).

NOTE This standard takes into account that data carriers have different physical characteristics and contain information with various levels of sensitivity.

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## Information technology — Destruction of data carriers —

## Part 1:

## **Principles and definitions**

## 1 Scope

This standard defines terms and principles for the destruction of data carriers.

## Terms and definitions

For the purposes of this document, the following terms and definitions apply:

## 2.1

## collection point

place where data carriers are kept before they are destroyed

### 2.2

## data

representation of facts, concepts, or instructions in a formalized manner, suitable for communication, interpretation, or processing by humans or by automatic means

[SOURCE: EN 14968:2006-11]

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## data carrier

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object or item that contains data

Note 1 to entry: Typical data carriers include paper or electronic, magnetic and optical storage media.

### 2.4

## data controller

<destruction of data carriers> any person or body which collects, processes or uses data for itself or assigns others to do so

## 2.5

## destruction

<destruction of data carriers> process in which the form or condition of data carriers is changed, usually by shredding, dissolving, melting, heating or burning

## 2.6

## destruction of data carriers

process by which the form or condition of data carriers is changed, usually by shredding, dissolving, melting, heating or burning, making it difficult or impossible to recover the information

## 2.7

## dissolving

transforming the data carrier to a suspension

## 2.8

## equipment

collection of spatially and functionally linked machinery for the purpose of destroying data carriers

### 2.9

## information

meaningful data

[SOURCE: ISO 9000:2005-12]

#### 2.10

## intruder alarm system

alarm system to detect and indicate the presence, entry or attempted entry of an intruder into supervised premises

[SOURCE: EN 50131:2010-02]

## 2.11

## outsourced data processing

collection, processing and use of data by assigned third parties

Note 1 to entry: The destruction of data carriers is also a form of outsourced data processing.

## 2.12

## personal data

details of the personal or material circumstances of an identified or identifiable natural person

#### 2.13

## protection class

classification of the protection requirement of data II eh STANDARD PREVIEW

## 2.14

## protection requirement

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property of data and information which describes the need to protect it from violation of the basic principles of confidentiality, integrity and availability, taking into account the harm which would arise from such a violation <a href="https://standards.itch.ai/catalog/standards/sist/2985b825-9b86-4698-ac17-">https://standards.itch.ai/catalog/standards/sist/2985b825-9b86-4698-ac17-</a>

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Note 1 to entry: The protection requirement is classified as normal, high or very high.

Note 2 to entry: For the destruction of data carriers, the higher the protection requirement of the data they contain, the higher the protection class.

## 2.15

## regular particles

particles which, as a result of the cutting process used, have a generally unalterable, mostly rectangular shape, as well as a specified length and width

## 2.16

## security level

<destruction of data carriers> classification of the effort needed to recover information

### 2.17

## security zone

area protected according to the protection class

## 3 Identifying the protection requirement and assigning the protection class

In order for the destruction of data carriers to comply with the principles of economy and proportionality, the data contained on them shall be assigned a protection class. The security level which is chosen for the destruction of the data carriers is determined by the protection level of the data.

## Protection class 1

Normal protection level for internal data:

- The most common classification of information, intended for large groups of people.
- Unauthorized disclosure or transfer would have limited negative effects on the organization.
- Protection of personal data shall be ensured. Otherwise there is a risk that persons affected may suffer damage to their reputation and economic circumstances.

### Protection class 2

Higher protection level for confidential data:

- The information is restricted to a small group of people.
- Unauthorized disclosure would have serious effects on the organization and may lead to violation of laws or contractual obligations.
- The protection of personal data shall meet stringent requirements. Otherwise there is a risk that persons affected may suffer serious damage to their social standing or economic circumstances.

## Protection class 3

Very high protection level for strictly confidential and secret data: E.W.

- The information is restricted to a very small group of persons, known by name, who are authorized to access it.
- Unauthorized disclosure would have serious (existence-threatening) effects on the organization and/or would lead to violation of professional secrets, contracts and laws.
- The protection of personal data shall be strictly ensured. Otherwise, the life and safety of persons affected may be at risk, or their personal freedom may be jeopardized.

## 4 Security levels for data carriers

<u>Table 1</u> shows the various security levels for data carriers.

Table 1 — Security levels for data carriers

Security level	Explanation	
1	<b>Destruction of data carriers</b> in such a way the data on them can be reproduced without special tools or skills, but not without a certain expenditure of time	
	Recommended, for example, for data carriers containing general data to be rendered unreadable.	
2	<b>Destruction of data carriers</b> in such a way that the data on them can only be reproduced with tools and a certain amount of effort.	
	Recommended, for example, for data carriers containing internal data to be rendered unreadable.	
3	<b>Destruction of data carriers</b> in such a way that the data on them can only be reproduced with considerable expenditure (in terms of personnel, resources and time)	
	Recommended, for example, for data carriers with sensitive and confidential data.	
4	<b>Destruction of data carriers</b> in such a way that the data can only be reproduced with extraordinary expenditure (in terms of personnel, resources and time)	
	Recommended, for example, for data carriers with particularly sensitive and confidential data.	