
**Information technology — Security
techniques — Secret sharing —**

**Part 1:
General**

*Technologies de l'information — Techniques de sécurité — Partage de
secret —*

Partie 1: Général

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Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 General model of secret sharing	2
4.1 Parties involved	2
4.2 Parameters	3
4.2.1 Overview	3
4.2.2 Message space	3
4.2.3 Share space	3
4.2.4 Number of shares	3
4.2.5 Access structure	3
4.3 Message sharing process	4
4.4 Message reconstruction process	4
5 Properties of secret sharing schemes	5
5.1 Fundamental requirements	5
5.1.1 Overview	5
5.1.2 Message confidentiality	6
5.1.3 Message recoverability	6
5.2 Optional requirements	6
5.2.1 Overview	6
5.2.2 Homomorphism	6
5.2.3 Verifiability	6
5.3 Other properties	7
5.3.1 Overview	7
5.3.2 Confidentiality guarantees	7
5.3.3 Complexity	7
5.3.4 Information rate	7

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Introduction

A secret sharing scheme is a cryptographic technique used to protect the confidentiality of a message by dividing it into a number of pieces called shares. A secret sharing scheme has two main parts: a message sharing algorithm for dividing the message into shares and a message reconstruction algorithm for recovering the message from all or a subset of the shares.

Secret sharing can be used to store data (for example, confidential values or cryptographic keys) securely in distributed systems. Moreover, secret sharing is a fundamental technology for secure multi-party computation that can be used to protect the processing of data in a distributed system. To facilitate the effective use of the technology and to maintain interoperability, ISO/IEC 19592 (all parts) specifies secret sharing and related technology.

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