
**Information technology — Security
techniques — Lightweight
cryptography —**

**Part 3:
Stream ciphers**

*Technologies de l'information — Techniques de sécurité —
Cryptographie pour environnements contraints —*

Partie 3: Chiffrements à flot



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Foreword

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International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of the joint technical committee is to prepare International Standards. Draft International Standards adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standard requires approval by at least 75 % of the national bodies casting a vote.

ISO/IEC 29192-3 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 27, *IT Security techniques*.

ISO/IEC 29192 consists of the following parts, under the general title *Information technology — Security techniques — Lightweight cryptography*:

- *Part 1: General*
- *Part 2: Block ciphers*
- *Part 3: Stream ciphers*
- *Part 4: Mechanisms using asymmetric techniques*

Introduction

This part of ISO/IEC 29192 specifies keystream generators for lightweight stream ciphers tailored for implementation in constrained environments. ISO/IEC 29192-1 specifies the requirements for lightweight cryptography. A stream cipher is an encryption mechanism that uses a keystream generator to generate a keystream to encrypt a plaintext in bitwise or block-wise manner.

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Information technology — Security techniques — Lightweight cryptography —

Part 3: Stream ciphers

1 Scope

This part of ISO/IEC 29192 specifies two dedicated keystream generators for lightweight stream ciphers:

- Enocoro: a lightweight keystream generator with a key size of 80 or 128 bits;
- Trivium: a lightweight keystream generator with a key size of 80 bits.

2 Normative reference

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO/IEC 29192-1, *Information technology — Security techniques — Lightweight cryptography — Part 1: General*