



**INTERNATIONAL STANDARD ISO/IEC 18023-3:2006(E)**

**Information technology — SEDRIS —**

**Part 3:**

**Transmittal format binary encoding**

*Technologies de l'information — SEDRIS —  
Partie 3: Codage binaire de format de transmission*

**[ISO/IEC 18023-3:2006\(E\)](#)**

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# Information technology — SEDRIS — Part 3: Transmittal format binary encoding

## ISO/IEC 18023-3

This document is Part 3 (Transmittal format binary encoding) of ISO/IEC 18023, SEDRIS. The full title of this International Standard is: *Information technology — Synthetic Environment Data Representation and Interchange Specification (SEDRIS) — Part 3: Transmittal format binary encoding*.

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The **Foreword** provides background on the standards process for this part of ISO/IEC 18023. The **Introduction** describes the purpose, design criteria, and characteristics of this part of ISO/IEC 18023. The following clauses define this part of ISO/IEC 18023:

1. **Scope** defines the subject and aspects covered by this part of ISO/IEC 18023.
2. **Normative references** lists the normative references.
3. **Definitions** defines the terms used within this part of ISO/IEC 18023.
4. **Concepts** describes various fundamentals of this part of ISO/IEC 18023.
5. **Encoding of data types** specifies the encoding of data types from ISO/IEC 18023-1 and data types introduced by this part of ISO/IEC 18023.
6. **Transmittal content representation** specifies the encoding of DRM objects defined in ISO/IEC 18023-1 and control elements introduced by this part of ISO/IEC 18023.
7. **Conformance** specifies the conformance criteria for this part of ISO/IEC 18023.

[http://standards.iso.org/ittf/PubliclyAvailableStandards/ISO\\_IEC\\_18023-3\\_Ed1.html](http://standards.iso.org/ittf/PubliclyAvailableStandards/ISO_IEC_18023-3_Ed1.html)

## Foreword

[ISO](#) (the International Organization for Standardization) and [IEC](#) (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work. In the field of information technology, ISO and IEC have established a joint technical committee, [ISO/IEC JTC 1](#).

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.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO and IEC shall not be held responsible for identifying any or all such patent rights.

ISO/IEC 18023 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 24, *Computer graphics, image processing and environmental data representation*, in collaboration with [The SEDRIS Organization](#). ISO/IEC 18023 consists of the following parts, under the general title *Information technology — Synthetic Environment Data Representation and Interchange Specification (SEDRIS)*:

*Part 1: Functional specification*

*Part 2: Abstract transmittal format*

*Part 3: Transmittal format binary encoding*

[http://standards.iso.org/ittf/PubliclyAvailableStandards/ISO\\_IEC\\_18023-3\\_Ed1.html](http://standards.iso.org/ittf/PubliclyAvailableStandards/ISO_IEC_18023-3_Ed1.html)

# Introduction

This part of ISO/IEC 18023 defines a binary encoding for DRM objects specified in [Part 1 of ISO/IEC 18023](#) according to the abstract syntax specified in [Part 2 of ISO/IEC 18023](#). The name of this binary encoding is SEDRIS Transmittal Format (STF). The STF was designed to be as efficient as possible for general purpose use of the API.

[http://standards.iso.org/ittf/PubliclyAvailableStandards/ISO\\_IEC\\_18023-3\\_Ed1.html](http://standards.iso.org/ittf/PubliclyAvailableStandards/ISO_IEC_18023-3_Ed1.html)

# 1 Scope

This part of ISO/IEC 18023 defines a binary encoding for DRM objects specified in [ISO/IEC 18023-1](#) according to the abstract syntax specified in [ISO/IEC 18023-2](#).

[http://standards.iso.org/ittf/PubliclyAvailableStandards/ISO\\_IEC\\_18023-3\\_Ed1.html](http://standards.iso.org/ittf/PubliclyAvailableStandards/ISO_IEC_18023-3_Ed1.html)

## 2 Normative references

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.

Identifiers	References
I10646	<a href="#">ISO/IEC 10646</a> <i>Information technology — Universal Multiple-Octet Coded Character Set (UCS)</i>
I18023-1	<a href="#">ISO/IEC 18023-1:2006</a> <i>Information technology — Synthetic Environment Data Representation and Interchange Specification (SEDRIS) — Part 1: Functional specification</i> <a href="http://standards.iso.org/ittf/PubliclyAvailableStandards/ISO_IEC_18023-1_Ed1.html">http://standards.iso.org/ittf/PubliclyAvailableStandards/ISO_IEC_18023-1_Ed1.html</a>
I18023-2	<a href="#">ISO/IEC 18023-2</a> <i>Information technology — Synthetic Environment Data Representation and Interchange Specification (SEDRIS) — Part 2: Abstract transmittal format</i> <a href="http://standards.iso.org/ittf/PubliclyAvailableStandards/ISO_IEC_18023-2_Ed1.html">http://standards.iso.org/ittf/PubliclyAvailableStandards/ISO_IEC_18023-2_Ed1.html</a>
I18025	<a href="#">ISO/IEC 18025</a> <i>Information technology — Environmental Data Coding Specification (EDCS)</i> <a href="http://standards.iso.org/ittf/PubliclyAvailableStandards/ISO_IEC_18025_Ed1.html">http://standards.iso.org/ittf/PubliclyAvailableStandards/ISO_IEC_18025_Ed1.html</a>
I18026	<a href="#">ISO/IEC 18026:2006</a> <i>Information technology — Spatial reference model (SRM)</i> <a href="http://standards.iso.org/ittf/PubliclyAvailableStandards/ISO_IEC_18026_Ed1.html">http://standards.iso.org/ittf/PubliclyAvailableStandards/ISO_IEC_18026_Ed1.html</a>
I19115	<a href="#">ISO 19115:2003</a> <i>Geographic information — Metadata</i>
IEC60559	<a href="#">IEC 60559:1989</a> , <i>Binary floating-point arithmetic for microprocessor systems</i> (previously designated IEC 559:1989)
RFC1952	<a href="#">IETF RFC 1952</a> , <i>GZIP file format specification version 4.3</i>

[http://standards.iso.org/ittf/PubliclyAvailableStandards/ISO\\_IEC\\_18023-3\\_Ed1.html](http://standards.iso.org/ittf/PubliclyAvailableStandards/ISO_IEC_18023-3_Ed1.html)