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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

ISO draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). ISO takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, ISO had not received notice of (a) patent(s) which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at www.iso.org/patents.www.iso.org/patents.. ISO shall not be held responsible for identifying any or all such patent rights.

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 46. *Information and documentation*, Subcommittee SC 9, *Identification and description*.

Any feedback or questions on this document should be directed to the user's national standards body. complete listing of these bodies can be found at www.iso.org/members.html, www.iso.org/members.html,

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Introduction

While ISO/TC 46/SC 9 has established a variety of specific identifier standards, a content-dependent identifier for digital assets in all content formats has not yet been agreed.

Digital content is dynamic, always in motion, and acted upon globally by a variety of entities with different interests and requirements. Digital content continuously re-encodes, resizes, and re-compresses, changing its data as it travels through a complex network of actors and systems.

The International Standard Content Code (ISCC) is an identifier for numerous types of digital assets. An ISCC-CODE is generated from the digital content itself. It is the result of processing the digital content using a variety of algorithms including hash algorithms. The generated ISCC-CODE supports data integrity verification and preserves an estimate of the data, digital content and metadata similarity. However, ISCC has different functionality from content recognition systems.

The ISCC supports the association of higher-level identifiers (like work and product identifiers) with the digitally encoded manifestations of content. The ISCC does not specify a system for managing authoritative metadata. Other content identifier standards can use ISCC to support discoverability of their identifiers and metadata based on digital content.

Organizations, individuals and machines may generate ISCCs for numerous kinds of digital assets and use them for identification and management of those assets.

ISCCs are neither manually nor automatically assigned to digital media assets. Instead, ISCCs are derived from media assets according to the procedures described in this document. Unrelated parties can independently derive the same ISCC from a given media asset.

ISCCs exclusively reference media assets without any implication about ownership. As such, ISCCs are not managed authoritatively by any institution or entity.

The ISCC enables interoperability between different actors and systems using digital assets and supports scenarios that require content deduplication, database synchronization and indexing, integrity verification, timestamping, versioning, data provenance, similarity clustering, anomaly detection, usage tracking, allocation of royalties, fact-checking and general digital asset management use-cases.

This document includes sections targeting a general audience but also descriptions of more technical procedures.

Future editions of this document can be developed as outlined in Annex C. Annex C.

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Information and documentation — International Standard Content Code (ISCC)

1 Scope

This document specifies the syntax and structure of the International Standard Content Code (ISCC), as an identification system for digital assets (including encodings of text, images, audio, video or other content across all media sectors). It also describes ISCC metadata and the use of ISCC in conjunction with other schemes, such as DOI, ISAN, ISBN, ISRC, ISSN, and ISWC.

An ISCC applies to a specific digital asset and is a data-descriptor deterministically constructed from multiple hash digests using the algorithms and rules in this document. This document does not provide information on registration of ISCCs.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

JSO/IEC_10646:2020, Information technology — Universal coded character set (UCS)

JSO/IEC 15938, Information technology — Multimedia content description interface

JSO/IEC 21778:2017, Information technology — The JSON data interchange syntax

JSO/IEC 10646;2020, Information technology Universal coded character set (UCS)

JETF, RFC 4648, The Base16, Base32, and Base64 Data Encodings¹ ISO/PRF 241

IETF, RFC 2397, The "data" URL scheme²

JETF, RFC 8785, JSON Canonicalization Scheme (JCS)3

W3C, C14N 1.1, Canonical XML Version 1.14

W3C, JSON-LD 1.1, A JSON-based Serialization for Linked Data⁵

3 Terms and definitions

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

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¹_Online available: https://datatracker.ietf.org/doc/html/rfc4648

² Online available: https://datatracker.ietf.org/doc/html/rfc2397

³ Online available: https://datatracker.ietf.org/doc/html/rfc8785

⁴ Online available: https://www.w3.org/TR/xml-c14n11 Online available: https://www.w3.org/TR/xml-c14n11

⁵ Online available: https://www.w3.org/TR/json-ld/

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ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ——ISO Online browsing platform: available at https://www.iso.org/obp
- —IEC Electropedia: available at https://www.electropedia.org/https://www.electropedia.org/

3.1

atomic unit of information in a computer system

3.2 byte

sequence of 8 bits (3.1)(3.1)

nibble

half a byte (3.2), (3.2), which can be represented by a single hexadecimal digit

[SOURCE: ISO 20038:2017, 3.12]

3.4 data

ordered sequence of bits (3.1)(3.1)

file stored $data = \frac{(3.4)(3.4)}{(3.4)}$ with a known number of $bits = \frac{(3.1)(3.1)}{(3.1)}$ and a filename

3.6 stream

 $data = \frac{(3.4)(3.4)}{(3.4)}$ in transit with a known or unknown number of bits $\frac{(3.1)(3.1)}{(3.1)}$

content information organized to provide value to a user

digital content

manifestation of content (3.7)(3.7) in form of data (3.4)(3.4) structured according to a set of rules

3.9

metadata

data (3.4) data (3.4) that defines and describes other data

[SOURCE: ISO 24531:2013, 4.32]

2

seed metadata

initial metadata (3.9)(3.9) used as input to a hash algorithm (3.1)(3.1) function

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3.11

content format

set of rules used to structure digital content (3.8)(3.8)

3.12

media type

two-part identifier (3.15)(3.15) specifying the nature of the referenced data (3.4)(3.4)

[SOURCE: ISO/IEC 19757-4:2006, 3.9]

3.13

digital asset

file (3.5)(3.5) or stream (3.6)(3.6) encoded in conformance with a specific content format (3.11)(3.11)

3.14

referent

object which is identified

3.15

identifier

sequence of characters that uniquely denotes a referent (3.14)(3.14)

3.16

identifier system

system to enable the provision of *identifiers* (3.15)(3.15) for a given category of *referents* (3.14)(3.14)

3.17

content identifier

identifier $\frac{(3.15)(3.15)}{(3.15)}$ whose referent $\frac{(3.14)(3.14)}{(3.14)}$ is content $\frac{(3.7)(3.7)}{(3.7)}$

3.18

content-dependent identifier

content identifier (3.18)(3.18) whose data (3.4)(3.4) depends on the digital content (3.8)(3.8) that it identifies

2 10

content recognition system

system whose primary purpose is to recognise digital content (3.8)(3.8) on a granular level

3.20

algorithm

set of instructions

3.21

hash algorithm

deterministic algorithm (3.20)(3.20) that produces fixed-length data (3.4)(3.4) from an input of arbitrary-length data

3.22

hash digest

result of processing data (3.4)(3.4) with a hash algorithm (3.21)(3.21)

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3.23

cryptographic hash function

computationally efficient function mapping binary strings of arbitrary length to binary strings of fixed length, such that it is computationally infeasible to find two distinct values that hash into a common value

3.24

similarity hash

hash digest (3.22)(3.22) that preserves correlations between inputs to the hash algorithm (3.21)(3.21)

3.25

content defined chunking

CDC

method to split $data = \frac{(3.4)(3.4)}{(3.4)}$ into variable length chunks based on internal features such that chunk boundaries are more resistant to $byte = \frac{(3.2)(3.2)}{(3.2)}$ shifting

3.26

actor

human or non-human (hardware or software) entity that interacts with a system

3.27

merkleMerkle tree

tree data structure in which every leaf node is labelled with the *hash digest* $\frac{(3.22)(3.22)}{(3.22)}$ of a data element and every non-leaf node is labelled with the hash digest of the labels of its child nodes

3.28

merkleMerkle root

root node of a merkle Merkle tree (3.27)(3.27)

[SOURCE: ISO 22739: 2020 2024, 3.4657]

3.29

ISCC processor

application that generates ISCCs for digital content (3.8)(3.8)

<u>ISO/PRF 24138</u>

3.30

plain textdata (3.4) with a known text encoding that can be transcoded to Unicode

3.31

4

whitespace

nondisplaying formatting characters such as spaces, tabs, etc., that are embedded within a block of free text

[SOURCE: ISO/IEC/IEEE 31320-2:2012, 3.1.210]

4 Structure and format of the ISCC

4.1 General structure

A. An ISCC shall be composed of an ISCC-HEADER and an ISCC-BODY (see Figure 1).

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