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Information technology — JPEG Trust —

Part 2: Trust profiles and reports

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Foreword

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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 documents 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).

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For an explanation on 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 the following URL: www.iso.org/iso/foreword.html.

This document was prepared by Joint Technical Committee ISO/IEC JTC 1, Information technology, Subcommittee SC 29, Coding of audio, picture, multimedia and hypermedia information.

A list of all parts in the ISO 21617 series can be found on the ISO and IEC websites.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at https://www.iso.org/members.html and https://www.iec.ch/national-committees.

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Introduction

This document presents the concepts of Trust Profiles and Trust Reports, which are built on the Trust Indicators specified in JPEG Trust Part 1 (ISO/IEC 21617-1:2025). In addition, this document provides a catalogue of snippets that can be used either on their own or in combination for the purpose of constructing trust profiles, which can be used for assessing the trustworthiness of media assets in given usage scenarios. These trust profiles are designed to be used in various applications, including digital forensics, image authentication, content verification, attribution and rights declarations.

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Information technology — JPEG Trust —

Part 2:
Trust profiles and reports

1 Scope

The scope of JPEG Trust Part 2 is to elaborate on Trust Profiles and Trust Reports, which are built on the Trust Indicators specified in JPEG Trust Part 1. In addition, JPEG Trust Part 2 provides a catalogue of snippets that can be used either on their own or in combination for the purpose of constructing trust profiles, which can be used for assessing the trustworthiness of media assets in given usage scenarios.

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.

ISO 8601-1:2019, *Date and time — Representations for information interchange — Part 1: Basic rules*

ISO/IEC 21617-1:2025, *Information technology — JPEG Trust — Part 1: Core foundation*

C2PA Technical Specification, *C2PA Technical Specification 2.3*, Coalition for Content Provenance and Authenticity, https://c2pa.org/specifications/specifications/2.3/specs/C2PA_Specification.html

3 Terms and definitions

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

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

3.1
actor
actors
human or non-human (hardware or software) that is participating in the media ecosystem

EXAMPLE camera (capture device), generation or editing software, cloud service or the person using such tools

[SOURCE: ISO/IEC 21617-1:2025]

3.2
authentic media asset
media asset (3.3) that is *verifiable* (3.13)

[SOURCE: ISO/IEC 21617-1:2025]

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3.3
media asset
digital assets including images, videos, audio or text

[SOURCE: ISO/IEC 21617-1:2025]

3.4
media asset provenance
set of information about a *media asset* (3.3) including the trail of modifications starting from an *actor* (3.1)

[SOURCE: ISO/IEC 21617-1:2025]

3.5
trust manifest
set of information about the *media asset provenance* (3.4) of a *media asset* (3.3)

[SOURCE: ISO/IEC 21617-1:2025]

3.6
trust indicators
information derived from a combination of the *media asset* (3.3) and the *trust record* (3.10) that indicate a level of trustworthiness of a media asset in a given context

[SOURCE: ISO/IEC 21617-1:2025]

3.7
trust indicator set
set of *trust indicators* (3.6) that are derived from a *media asset* (3.3) and its *trust record* (3.10)

[SOURCE: ISO/IEC 21617-1:2025]

3.8
trust profile
set of expressions that are used to evaluate each *trust indicators* (3.6) in an given *trust indicator set* (3.7) to indicate a level of trustworthiness for a given *media asset* (3.3)

[SOURCE: ISO/IEC 21617-1:2025]

3.9
trust profile snippet
partial *trust profile* (3.8) that can be used as a building block for creating a new trust profile or for including into another trust profile

3.10
trust record
collection of one or more *trust manifest* (3.5) that can either be embedded into a *media asset* (3.3) or be external to its media asset

[SOURCE: ISO/IEC 21617-1:2025]

3.11
trustworthy
able to be relied on as being what it is asserted to be

[SOURCE: ISO/IEC 21617-1:2025]

3.12
trustworthy media asset
media asset (3.3) that is *trustworthy* (3.11)

[SOURCE: ISO/IEC 21617-1:2025]

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