DASH-IF June 7, 2024

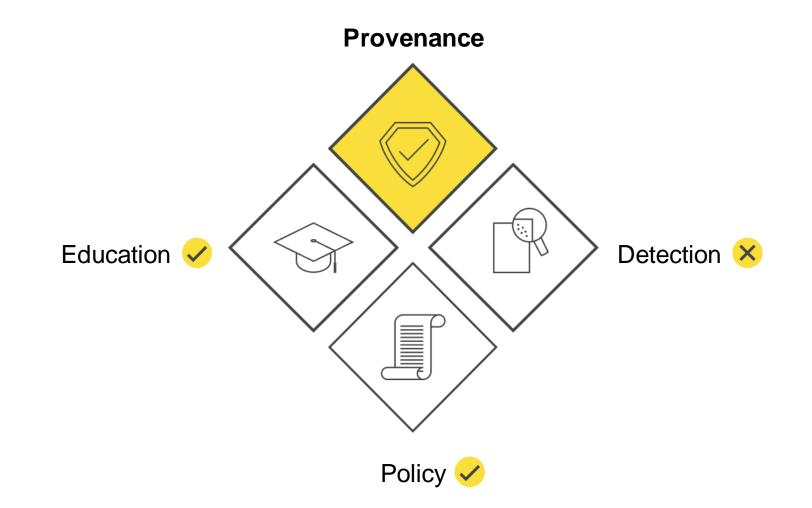


C2PA: Authenticity in the Age of AI



Andy Parsons, Adobe

Pillars of Transparency and Authenticity



Û



The basic trustworthy facts about the origins of a piece of digital content (image, video, audio, document)





content credentials



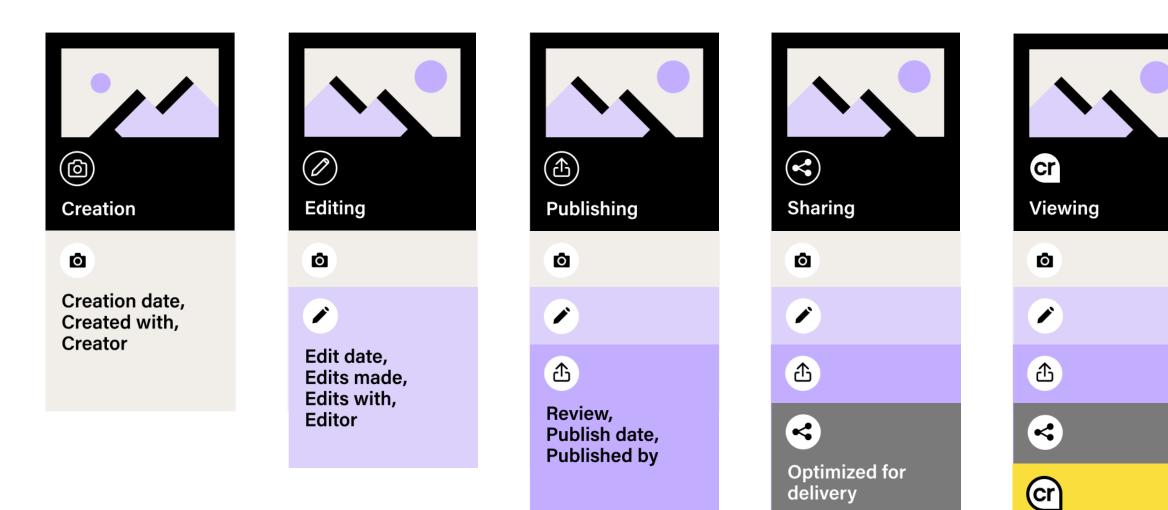
What are Content Credentials?

- A new kind of metadata for images, audio, video (including streaming and live)
- **Context** attached to content
- Provable evidence as to what media is and how it was made.
- A vehicle for authentic storytelling through **transparency**
- A way for creators and companies to achieve attribution for the content they produce (using C2PA extensions)
- A foundation for consumers to make informed **trust** decisions

Content Credentials		
Adobe Inc. Mar 1, 2023		
Content summary		
① This content was generated with an AI tool.		
Process		
APP OR DEVICE USED		
ᠺ Adobe Firefly 1.0		
AI MODEL USED		
ᠺ Adobe Firefly 1.0.0		
ACTIONS AND INGREDIENTS		
Created		
View more		

Content Authenticity Initiative

Content Credentials

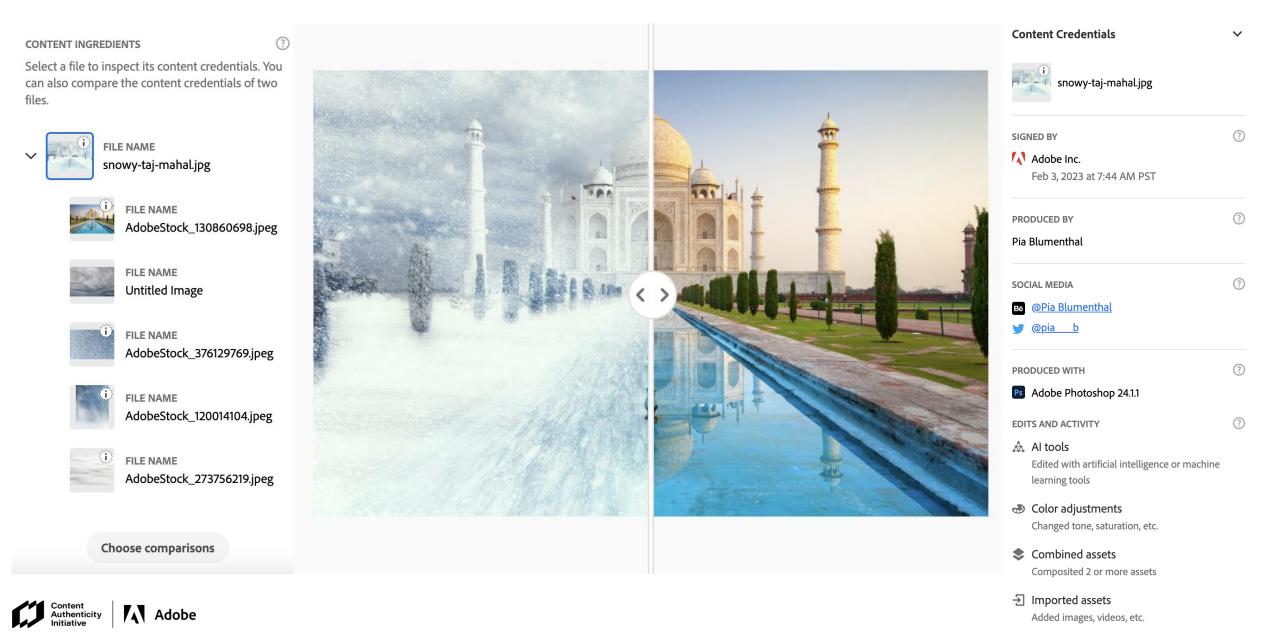


Content Authenticity Initiative

Adobe

Provenance

Verify for Yourself with Content Credentials



Tamper-evident connection to content	Cryptographic binding to pixels, frames, fragments
Resiliency	Content Credentials Cloud and fingerprinting
Privacy	Redaction
Trust	PKI, signatures and certs, not (necessarily) blockchain
Standards	E FA JDF/Linux Foundation
Identity	Verifiable Credentials, KYC, social media
Outstanding UX	C2PA UX TF
Implementation ease	CAI open-source tools
Community of adopters	CAI Discord, events, showcases

Coalition for Content Provenance and Authenticity (C2PA)



ontent uthenticity

Adobe

- Non-profit, run in the Linux Foundation
- Steering Co: Adobe, BBC, Google, Intel, Microsoft, Publicis, Sony, Truepic
- Spec and guidance available now, v2.0
- Addresses images, video, audio, documents
- Threats and harms + UX conventions

The Coalition for Content Provenance and Authenticity (C2PA)



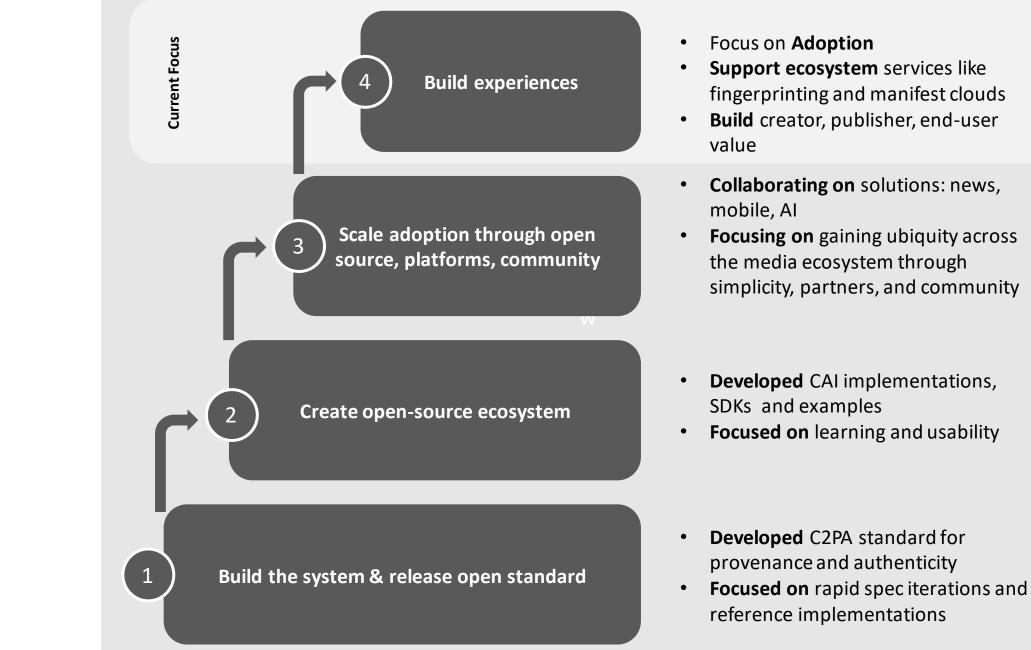
- Standards development organization (SDO)
- ► JDF within Linux Foundation

Adobe

Authenticity

v1.0 C2PA Specification released Jan 2022





Content Credentials everywhere.

Adobe

Authenticity

The CAI Open-source toolkit for C2PA

a opensource contentauthenticity org

Content Authenticity

JavaScript SDK

Develop rich, browser-based experiences with content credentials.

Docs Learn more 🛱 🖓 🎐

C2PA Tool

Create, verify and explore content credentials on the command line.

Rust SDK

Authenticity

Customize applications across desktop, mobile, and services to create, verify, and display content credentials via our Rust library.

A Adobe

Open-source tools for content authenticity and provenance

 Integrate secure provenance signals into your site, app, or service using open-source tools developed by the <u>Content Authenticity Initiative</u>. Join the ecosystem of transparency of provenance and attribution of digital content to counter the rise of misinformation.













