

Digital Identity & Trust from Cloud to AI

15th CA Day

Vienna, October 12, 2023

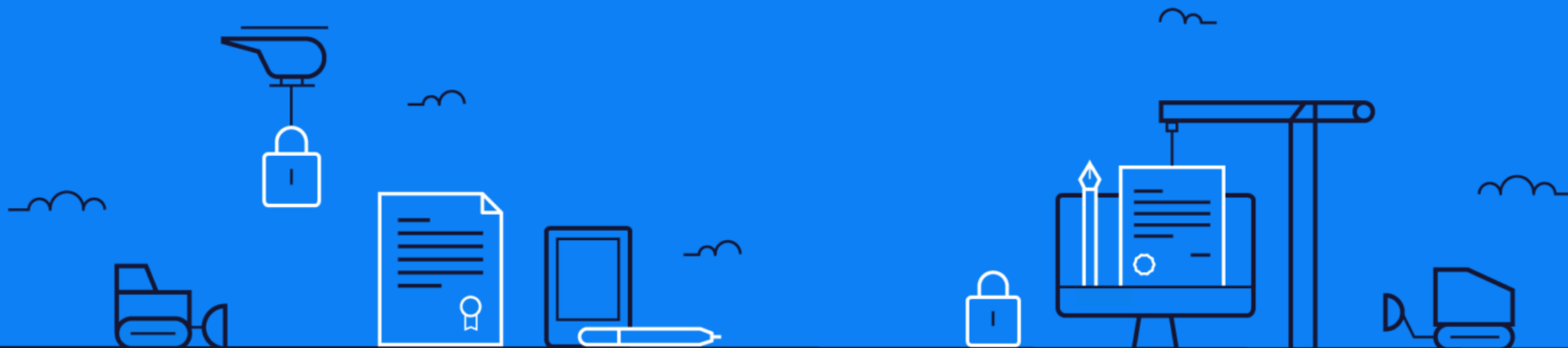


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Artwork by Momomi Sato / Japan



Digital Signatures in the Cloud



AI Everywhere

- We're moving from Cloud anywhere to AI everywhere
- Top AI trends in the Digital Information space:
 - Natural Language processing
 - AI-augmented Software Engineering
 - Content generation (Generative AI)

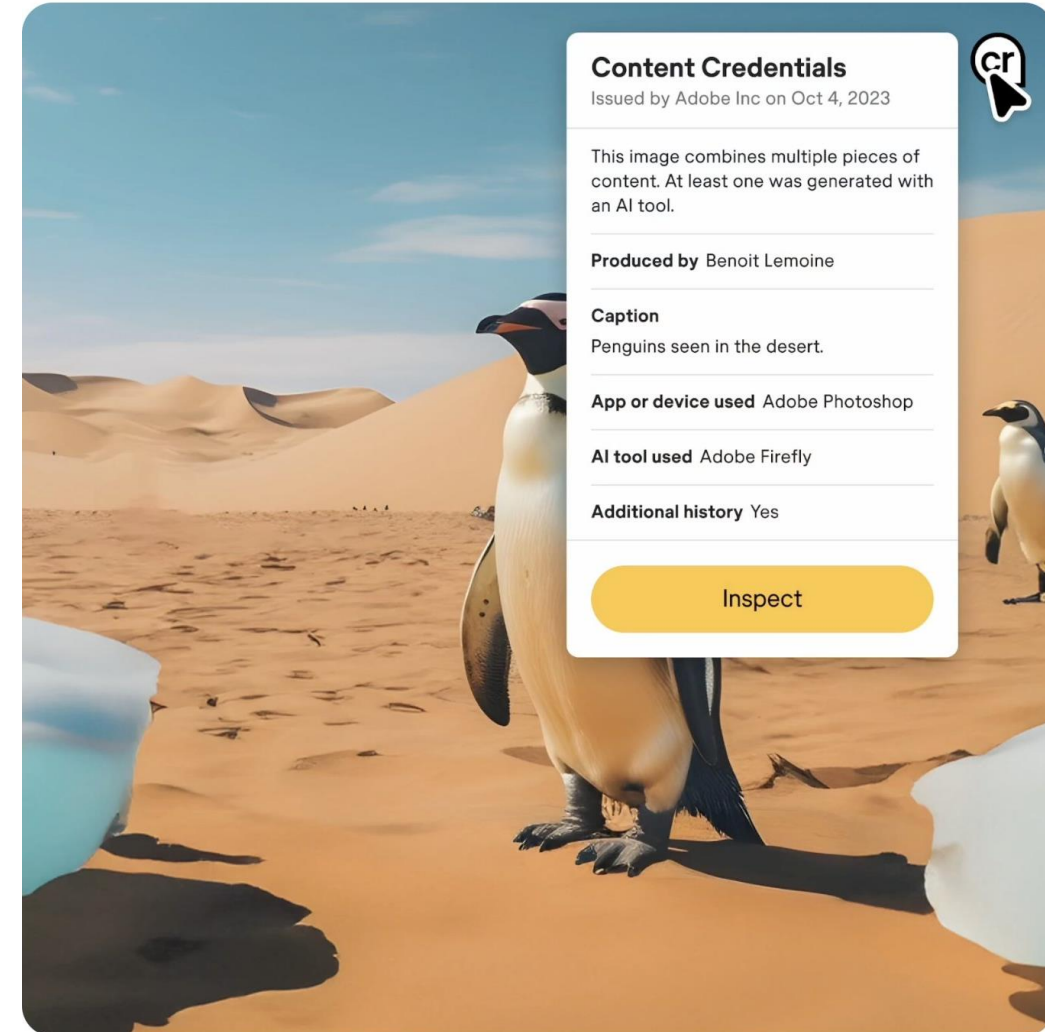


Content Authenticity & Provenance

- Deepfakes. Voice cloning. Synthetic media...
It's hard to tell what's accurate and authentic these days.
- We need a way for software, cameras, and generative AI models to show the provenance of media.



- <https://contentcredentials.org>



Identity Validation in the AI era

- Proof of Identity: Prove you are who you say you are.
Proof of Humanity: Prove you are a human.
- AI is a game-changer for Digital Identity.
- Maximize the opportunity...
 - Self-paced Identity Verification
 - Behavioral Analysis
 - Fraud Detection and Mitigation
- Minimize the risk...
 - Identity forgery and theft



Global Trust of Identity Credentials

- It's not just a matters of KYC techniques, it's a **Trust** story!
- Digital Certificates have successful Trust programs:
 - Adobe's AATL
 - EU Trusted Lists
 - Web Browser Root stores.
- What about Trust programs for Digital Identities?
- How do we ensure Trust with Digital Identities?



Centralized vs. Decentralized approach

- Centralized model: has worked so far but does not interoperate and scale
- Decentralized model: looks promising and all new initiatives go in that direction
- Still needs to rely on centralized model for the verification of identity assertions and the **Trustworthiness** of their issuers?
 - Registry of Issuers / Revocation Lists
- AI to enhance Decentralized Identity solutions



Centralized Identity



Decentralized Identity

Image credit: <https://www.gcomsoft.com>

Conclusions

- AI is there, and it's both an opportunity and a challenge for the Digital Identity & Trust industry.
- We have a mission to complete: to make digital identities available for everyone.
 - Easy to use, accessible but especially **trustworthy**.



