



RealStamp.

The trust layer for the AI age. Cryptographically sign content a verified human stands behind — captured live, imported, or attested — hardware-bound, server-verifiable, EU AI Act-aligned.

• SEED · MAY 2026

LIVE ON IOS + ANDROID TODAY

SDK LIVE ON NPM

ARTICLE 50 READY · AUG 2

THE PREMISE

"It will be more practical to fingerprint real media than fake media."

HEAD OF A MAJOR SOCIAL PLATFORM · PUBLIC STATEMENT, DECEMBER 2025

THE PROBLEM

The trust crisis is *measurable*.

Generative AI now produces images, video, and text indistinguishable from real human capture. Detection-side defenses are losing.

01

3M+

Non-consensual deepfakes generated by a single AI chatbot in 11 days.

CCDH · JAN 2026

02

3%

Of front-page reviews on the largest marketplace are AI-generated.

PANGRAM LABS

03

14 / 50

Generative-AI providers actually deploying any watermark in production.

ARXIV 2503.18156

THE DEADLINE

Every AI provider + deployer shares *one deadline.*

ARTICLE 50 OBLIGATIONS ENTER INTO FORCE

AUG 2

2026

EU AI ACT

Article 50

Transparency duties on AI **providers and deployers**: AI image/audio/video must carry a label (50(4)); AI **text** needs disclosure unless a human takes **editorial responsibility** (50(5)).

STACKED WITH

DSA Art. 34/35

Mitigation obligations for VLOPs add a second enforcement vector.

PENALTY

€15M / 3% turnover

Article 99(4)(g) — whichever is higher. Falls on the obligated party.

ACCEPTED

Signed manifests

EU Code of Practice explicitly permits provenance as evidence.

WHY THE OBVIOUS ANSWER IS WRONG

Pixel watermarks are a *known-broken* primitive.

01

Universal removal exists

USENIX / IEEE S&P 2025's "UnMarker" strips any pixel watermark without knowing its design. Generator-agnostic.

02

Screenshot defeats it

Leading platforms' diffusion-rooted watermarks are bypassed by a single screen capture.

03

Free SaaS removers exist

Public web tools strip C2PA tags from major AI generators at scale, today.

04

Adoption is a fiction

Only 14 of 50 surveyed generative-AI providers actually deploy any watermark in production.

— Detection is a structurally losing game. Generative quality keeps improving; watermarks keep breaking.

Sign the real. Run retraction.

RealStamp runs the credible retraction channel for the open provenance web. As Adobe, Apple, Cloudflare, and OpenAI flood the internet with creation-stamps, the durable trust premium accrues to whoever runs the credible retraction channel.

APPLE

Revoking content invites class actions.

ADOBE

Revoking competitor stock invites antitrust.

CLOUDFLARE

Signs network origin — not human authorship.

Trust-coordination infrastructure on the open internet has historically belonged to neutrals: *Let's Encrypt, Sigstore, the Public Suffix List*. RealStamp is that neutral operator.

- PART TWO -

Introducing *RealStamp.*

A cryptographic trust layer for human-attested content.
Live on iOS + Android today.

• APP STORE + GOOGLE PLAY LIVE

IOS + ANDROID V2.0

SIX SURFACES · ONE BACKEND

THE PRODUCT

One tap. One liveness check. One *cryptographic stamp*.

01 · DEVICE

Hardware-bound

Face ID + Secure Enclave. FIDO2 L3-equivalent. Private key never leaves silicon.

02 · VERIFY

Offline-verifiable

SD-JWT + OIDC. No chain, no token, no SDK lock-in.

03 · COMPLIANCE

Article 50-aligned

Provenance Certificate format, accepted by the EU Code of Practice.

Live now – iOS app · Web SDK · [@realstamp/verify on npm](#) · WordPress · Chrome · Safari · Firefox · Shopify · REST API · OIDC · [Revocations](#)

Every stamp records *how it was made*.

One field on every credential — **ai_involvement** — captures the human's relationship to the work. AI as a tool is welcome; what we record is **who is accountable** for the published version. RealStamp is not an AI detector.

01

Human only

Made entirely by a human. No AI at any stage.

02

AI-assisted

A human created the work; AI helped — suggestions, edits, automation, research.

03

AI-generated, human-edited

AI generated the first version; a human reviewed and made meaningful edits.

04

AI-generated, human-responsible

AI generated it; a human reviewed it and **takes editorial responsibility** for the published version.

EDITORIAL-RESPONSIBILITY ATTESTATION

The signer goes on record

For level 04, the human attests they take responsibility for the published version — the exact hook the EU AI Act's **Article 50(5)** text exemption requires.

ARTICLE 50 READINESS CHECKER

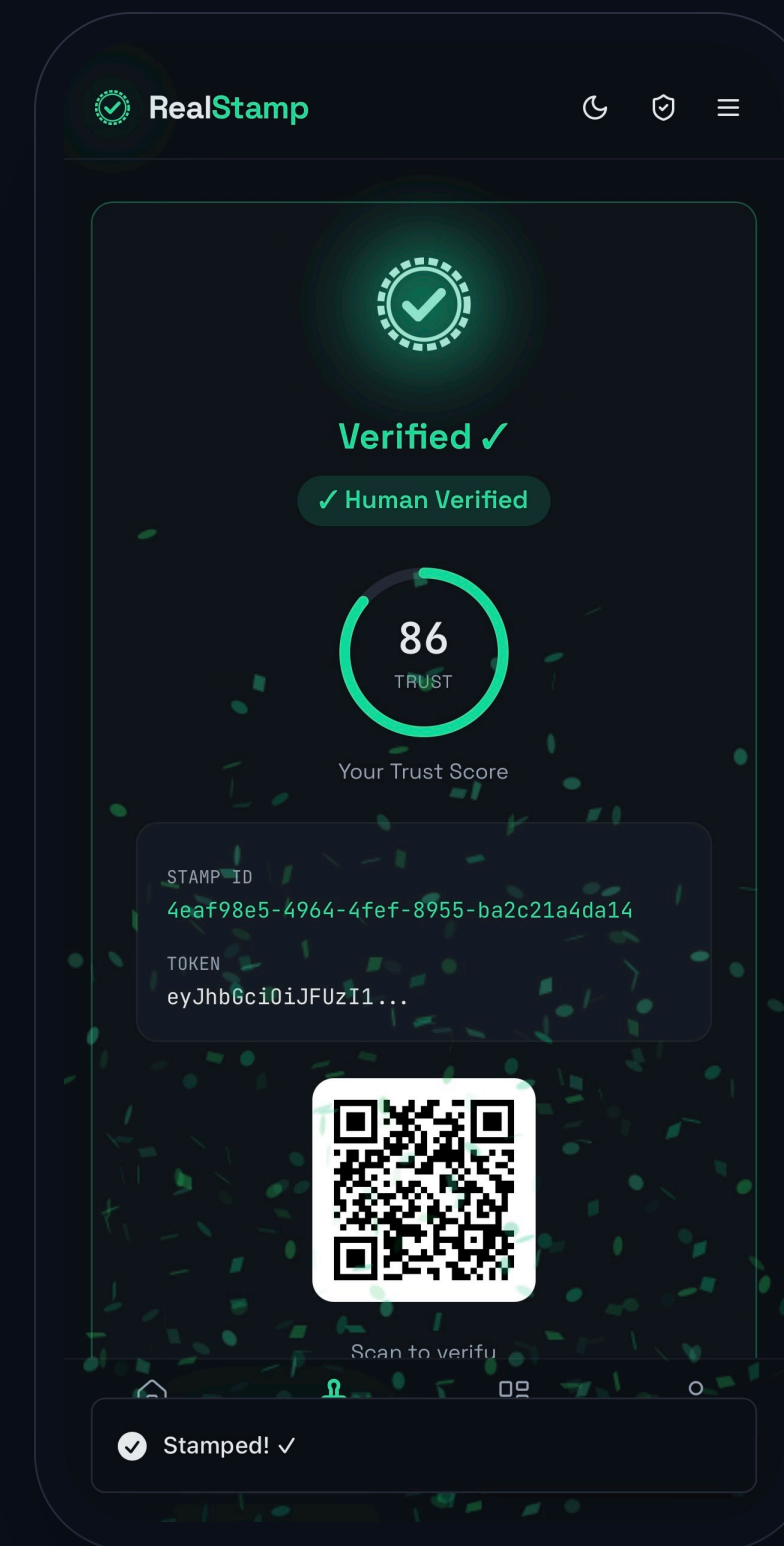
Free public API

Pass a content type + AI-involvement level; get back which Article 50 paragraphs (50(2) / 50(4) / 50(5)) apply and whether your stamp satisfies them. No other provenance product ships this.

One link. *Anyone* can verify.

No app. No account. No chain. No login wall.

- 1 **Liveness ceremony** in the Secure Enclave — the signing key cannot be used without a fresh Face ID success.
- 2 **Stamp anchored** on Sigstore Rekor (Linux Foundation public log) every six hours.
- 3 **Share a pulse-token URL.** Anyone, anywhere can verify offline — no app required, no account required.



HOW IT WORKS

Four cryptographic steps. *Ten seconds.*

1

Capture

User captures, imports, or attests to content in the iOS or Android app.

2

Face ID

Secure Enclave unlocks a signing key — only with a fresh biometric success.

3

Sign

SHA-256(content) is signed by the device-bound key. Bundled as an SD-JWT.

4

Anchor

Hash anchored to Sigstore Rekor every 6h. Anyone can verify offline.

— Same architectural pattern as Apple Pay. The signature is mathematical proof that *this* device's biometric ceremony succeeded for *this* specific content.

NEW PRODUCT CAPABILITY · LIVE

When likeness is misused, *creators broadcast back.*

A **six-step deliberate-friction** creator flow at realstamp.app/report. The signed claim is cryptographically bound to the creator's device-resident Face ID / Secure Enclave biometric. The signal broadcasts to every subscribed platform within seconds; published to a public ledger at realstamp.app/impersonation.

01 · SIGN

Bound to a real face

Six-step deliberate-friction flow. Each claim requires a fresh Face ID success on the creator's own device. Hardware-rooted; not a form submission.

02 · BROADCAST

Live fan-out, in seconds

HMAC-SHA256 webhooks to every subscribed platform. Public ledger at realstamp.app/impersonation.

03 · LEGAL POSTURE

Signed claims, not verified findings

RealStamp delivers signed claims, not verified findings — platforms decide what to do. A neutral primitive, not adjudication.

Paired with the live *Revocation Layer* at realstamp.app/revocations — three independent paths: community dispute, user withdrawal, admin override.

THE ARCHITECTURE

Seven layers. Every one *production-grade*.

Each layer is a published standard or first-party Apple / Linux Foundation primitive. We integrate, harden, ship — we don't invent crypto.

01	Face ID / Touch ID liveness	User-presence proof via Apple TrueDepth IR / equivalent.
02	Secure Enclave / StrongBox signing keys	Hardware-bound ECDSA P-256. Private key never leaves silicon.
03	App Attest / Play Integrity attestation	Proof the request originated from an unmodified app binary.
04	Behavioral defense · rate, geo-drift, dedup	Server-side anti-Sybil; trust-score decay on anomalies.
05	C2PA-compatible manifest	Open file-level provenance standard (Adobe, Microsoft, BBC).
06	OIDC + SD-JWT verifiable credential	IETF / W3C selective-disclosure JWT — same as EUDI Wallet.
07	Sigstore Rekor public transparency log	Linux Foundation. Tamper-evident Merkle log. Independent audit.

PROOF OF EXECUTION

Live now. *Six surfaces.* One backend.

SURFACE 01 · IOS

iOS app

v2.0 with Face ID + Secure Enclave WebAuthn. App Store live since v1.4.

SURFACE 02 · ANDROID · LIVE

Android v2.0

v2.0 LIVE on Google Play (May 30). BiometricPrompt + Android Keystore + Play Integrity. Same Capacitor codebase.

SURFACE 03 · WEB

Web SDK + verify badge

<realstamp-verify /> custom element. One-line embed on any site.

SURFACE 04 · WP

WordPress plugin

Gutenberg block. Verify-only. Submitted to plugin directory.

SURFACE 05 · CHROME

Chrome extension

Manifest V3. Detects RealStamp pages and surfaces verification UI.

SURFACE 06 · SHOPIFY

Shopify Theme App

Verified buyer photo surface for merchants. Ready for submission.

34+

EDGE FUNCTIONS

SDK

@REALSTAMP/VERIFY · NPM

Live

REVOCATIONS · PRODUCTION

0

CRITICAL AUDIT FINDINGS

ARTICLE 50 COVERAGE MATRIX

Article 50, *mapped honestly.*

Article 50 isn't one rule. **50(5)**: AI-generated **text** on matters of public interest needs disclosure — *unless a human takes editorial responsibility*, which RealStamp attests. **50(4)**: AI-generated **image, audio and video** must carry an AI label *regardless* — RealStamp rides *alongside* that label as the human-accountability layer; it does not replace it. We are provenance *infrastructure* obligated parties adopt — never a substitute for their conformity assessment, and not an AI detector.

CONTENT TYPE	ARTICLE 50 DUTY	REALSTAMP COVERAGE
AI-generated text (public interest)	50(5) — disclose unless a human takes editorial responsibility	✓ Full – meets the exemption
AI image / audio / video	50(4) — AI label required regardless	~ Complementary – sits alongside the label
Human-made (AI-assisted or not)	No Article 50 disclosure duty	✓ Proves the human behind it
Machine-detectable provenance	50(2) — outputs marked & detectable	✓ C2PA + Rekor + public verify API

Article 50 of the EU AI Act obligates AI providers and deployers. RealStamp provides provenance infrastructure; conformity assessment is the obligated party's responsibility. · realstamp.app/security – threat model + cryptographic anchoring documented publicly.

Submitting the *revocation primitive* to C2PA.

RealStamp has applied for Contributor membership in the Coalition for Content Provenance and Authenticity (C2PA). This converts us from "another stamping startup" to *the team submitting the revocation primitive to C2PA*.

WG4 · ARCHITECTURE & SPECIFICATION

Propose normative revocation primitive

Bring our Rekor-anchored, HMAC-SHA256 webhook-fanout revocation channel forward as a candidate spec for C2PA-level retraction.

WG2 · THREATS, RISKS & HARMS

Creator-side impersonation vector

Contribute the deepfake-against-creator threat model and the signed-claim primitive that gives platforms a neutral signal to act on.

IPR POSTURE

Open to discussing under C2PA's IPR policy

Provisionals 64/045,301 + 64/076,892 stay with the company; we have indicated openness to discussing patent contribution under C2PA's standard IPR policy.

— Pairs with the Apache-2.0 [@realstamp/verify](#) on npm — normative *spec* at the standards body, open-core *code* at the integration layer.

THE LANDSCAPE

Five camps. *None solve our problem.*

CAMP 01

Capture-side provenance

Truepic · Numbers Protocol · Project Origin

Proves the device, not the human.

CAMP 02

AI-generator watermarking

Google SynthID · Meta Stable Signature · OpenAI C2PA

Generator-side only. Already bypassable.

CAMP 03

Standards & advocacy

C2PA · Content Authenticity Initiative

Schema and ecosystem, not a verifier.

CAMP 04

Deepfake detection

Reality Defender · Hive · Sensity · GPTZero

Statistical guessing — losing the arms race.

CAMP 05

Proof-of-personhood

World ID · Civic · Polygon ID · zkPassport

Proves you exist, but not what you captured.

→ REALSTAMP

Device + Human + Content + *Retraction*

Fused in one signed claim — plus the live retraction channel none of the giants can structurally run. Standards-based, verifiable offline.
[@realstamp/verify SDK on npm.](#)

HEAD TO HEAD

Why we win, *side by side.*

CAPABILITY	TRUEPIC	ADOBE CAI	SYNTHID	WORLD ID	REALSTAMP
File-level provenance	✓	✓	—	—	✓
Person-level cryptographic identity	—	—	—	✓	✓
Hardware-bound liveness	~	—	—	✓	✓
Server-verifiable signature on content	✓	—	—	—	✓
Article 50 provenance-certificate path	—	—	—	—	✓
Live revocation + transparency broadcast	—	—	—	—	✓
Open-core SDK (Apache-2.0) on npm	—	~	—	—	✓
Works offline, no chain or token	✓	✓	✓	—	✓
No specialised hardware required	—	✓	✓	—	✓
Embeddable verify badge for open web	—	✓	—	~	✓
EU regulator-friendly governance	✓	✓	✓	—	✓

Three platform verticals. *One stack.*

VERTICAL 01

Social & creator platforms

Article 50 + DSA dual exposure on user-generated content. Authenticity becomes a creator-monetisation moat.

USE CASES

- Creator real-badge on short-form video
- News + journalism verification
- Smart-glasses capture provenance

VERTICAL 02

Regulatory-driven adoption

Platforms in active EC proceedings or court-ordered remediation need a demonstrable mitigation measure now.

USE CASES

- Opt-in "verified-real" badge
- DSA Article 34/35 evidence
- AI-output disambiguation

VERTICAL 03

Commerce & enterprise

FTC Consumer Reviews Rule + marketplace fake-content liability. SAG-AFTRA + NO FAKES Act for studios.

USE CASES

- Verified buyer photo & video
- Actor + talent consent attestation
- "Real Input" connector for AI marketplaces

BUSINESS MODEL

Three revenue lines. *Compounding moat.*

FLOOR REVENUE

Consumer + Prosumer

\$4.99 / \$14.99

Per month. Direct subscription via App Store + Stripe Web.
Brand-distribution channel.

OUTCOME-DEFINING

Platform licensing

\$5–25M ACV

Per-MAU or per-stamp. Multi-year minimums. Co-marketed Article 50 positioning.

MARGIN-RICH

Enterprise compliance

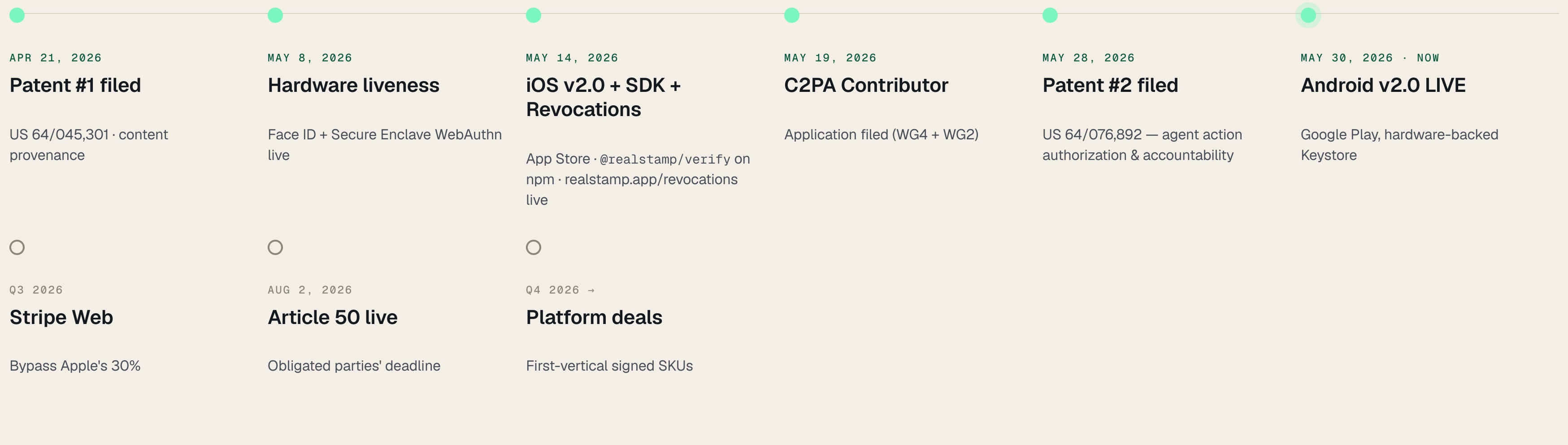
\$50K–\$1M / yr

Insurance, KYC, medical. Cloud-marketplace SKU. Article 50 attestation binder.

— Platform line sets the company's outcome. The other two are floor revenue and brand-distribution channels that justify enterprise pricing power.

TRACTION + ROADMAP

Built. Shipping. *Compounding.*



ALREADY REAL, TODAY

iOS v2.0 on App Store · [Android v2.0 on Google Play](#) · [@realstamp/verify v0.1.1](#) · [npm](#) · [Apache-2.0](#) · [realstamp.app/revocations live](#) · Impersonation primitive shipped · [C2PA Contributor \(filed 2026-05-19\)](#) · Two provisionals filed · 34+ Edge Functions · clean 6-agent audit

TEAM + IP

Founder-led. Two patents pending. *Delaware C-Corp.*

FOUNDER & CEO



Emilia Carpinisan

Serial entrepreneur with a degree in graphic design and an operator-builder profile.

Personally scoped, designed, and shipped RealStamp's complete production stack: iOS + Android apps (both **LIVE on App Store and Google Play since May 30, 2026**), web SDK, REST API, OIDC provider, WordPress and Chrome plugins, and a JWS-signed revocation layer anchored to Sigstore Rekor — **in under twelve months.**

Two US Provisional patents filed under her name as first inventor. Fluent in product, design systems, and modern AI-assisted engineering.

INTELLECTUAL PROPERTY · TWO PROVISIONALS

US Provisional 64/045,301

Filed April 21, 2026. Hardware-bound liveness + Sigstore Rekor + SD-JWT human-attestation — the **content-provenance** moat.

US Provisional 64/076,892

Filed May 28, 2026. Verifiable human authorization & accountability of autonomous software-agent actions — the **agent-provenance** extension. First inventor: Emilia Carpinisan.

STANDARDS-BASED POSTURE

- Sigstore Rekor (Linux Foundation)
- C2PA-compatible manifest format
- IETF SD-JWT verifiable credential
- OIDC + WebAuthn / FIDO2 Level 2

THE ASK

Three ways to start. *Stackable.*

Raising a **\$3–5M seed round**. Priced against the platform reference logos signed during the next 90 days.

OPTION A

Lead investor

Participate in the \$3–5M seed. Price set by the platform reference logos signed during the pilot phase. Standard preferred terms.

OPTION B

Strategic / partner

Platform license commitment + cap-table participation. Multi-year per-MAU or per-stamp economics, co-marketed Article 50 positioning.

OPTION C

Pilot first

30-day, zero-cost integration on one product surface. Defined success metrics + exit clause. Path to Option A or B once live.

— Option C → Option B → Option A. A successful pilot creates the reference logo that prices the strategic round.

Five vectors. *One window.*

01 EU AI Act Article 50 live Aug 2

First enforcement window — €15M / 3% turnover penalty.

02 DSA enforcement escalating now

First €120M fine landed Dec 2025; second wave forming.

03 Watermarking is publicly failing

UnMarker, screenshot bypass, removal SaaS in the wild.

04 Authenticity = creator monetisation

Major-platform CEOs are openly endorsing it on stage.

05 We're already shipped, audited, live

Nine weeks ahead of every alternative on the roadmap. The shipped product is the only one that can be live before August 2.

→ **Move now or watch a competitor do this with you on stage.**

CLOSING

Let's talk before
August 2.

FOUNDER & CEO

Emilia Carpinisan

Skillecta Inc. · Delaware C-Corp · Inc. 2025

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