

TrustLayer — The Authenticity Layer for the AI Age

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Confidence Level: (Critical Infrastructure Play)

Executive Summary

One-liner: TrustLayer is the authenticity verification infrastructure that proves digital content — documents, images, videos, code, communications — came from verified humans or known sources.

The Insight: We've crossed the threshold where AI can generate indistinguishable fake content at scale. Deepfake videos of CEOs approving wire transfers. AI-generated legal documents with forged signatures. Fake medical records. Fabricated evidence. The internet is becoming a trust desert. TrustLayer is the oasis — cryptographic proof of authenticity baked into content at creation, verifiable by anyone.

Market Timing: Perfect storm in early 2026: - Deepfake fraud losses expected to exceed \$40B in 2026 - EU AI Act mandates disclosure of AI-generated content - OpenAI, Google, Anthropic all rolling out detectable watermarks (but fragmented) - Major enterprises refusing to trust digital documents without verification - Insurance companies demanding authenticity proof for claims - Courts increasingly rejecting digital evidence without provenance

Why Billion-Dollar: This is SSL/HTTPS for the content layer. Just as every website needed HTTPS, every piece of important digital content will need authenticity verification. The company that owns this layer owns trust infrastructure for the next 50 years. TAM: \$200B+ in document verification, digital signatures, content authentication combined.

The Problem

The Trust Crisis Is Here

- 1. Deepfakes Have Crossed the Uncanny Valley** - AI-generated video and audio are indistinguishable from real - A Hong Kong company lost \$25M in 2024 to a deepfake CFO video call - Political deepfakes are destabilizing elections globally - “Don’t believe your eyes” is the new normal
 - 2. Document Forgery at Scale** - AI can generate convincing contracts, medical records, financial statements - Traditional signatures (even digital) can be fabricated - Due diligence is becoming impossible — how do you verify a contract is real? - Insurance fraud via fake documentation is exploding
 - 3. Content Provenance Is Broken** - Viral misinformation spreads faster than corrections - Newsrooms can’t verify user-submitted content - Stock images and footage are being claimed as original - Academic research is plagued by fabricated data and AI-written papers
 - 4. Enterprise Trust is Collapsing** - Legal teams won’t accept digital documents for deals - HR can’t verify credentials and transcripts - Supply chain documentation is unverifiable - Board communications are vulnerable to impersonation
 - 5. Regulatory Pressure Mounting** - EU AI Act requires AI-generated content disclosure - California’s AB 730 criminalizes election deepfakes - Financial regulators demanding proof of document authenticity - Healthcare compliance requires verified records
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The Solution

TrustLayer Platform

Core Architecture: Authenticity at the Source

TRUSTLAYER PLATFORM

CAPTURE SDK	VERIFY API	ATTEST NETWORK
<ul style="list-style-type: none">• Camera• Document• Screen• Code• Comms	<ul style="list-style-type: none">• Real-time detection• Provenance tracing• AI/Human scoring	<ul style="list-style-type: none">• Tamper-proof log• Cross-org trust• Legal standing

TRUST REGISTRY

- Verified identity anchors (KYC/KYB verified entities)
- Content fingerprints (perceptual hashing + crypto)
- Chain of custody (every modification tracked)
- Cross-platform verification (works everywhere)

Product Suite

1. TrustCapture SDK

Embed authenticity at the moment of creation.

For Photos/Videos: - Mobile SDK captures cryptographic proof at moment of recording - Device attestation (this came from a real iPhone/camera) - GPS, timestamp, device ID sealed into content - Tamper-evident — any edit breaks the seal (but tracks modifications)

For Documents: - Word/Google Docs/PDF plugins that sign content as you create - Every version tracked with author identity - Export with embedded proof (verifiable by anyone) - Works with existing workflows — invisible to users

For Code: - Git integration — every commit cryptographically signed - Proves “this human wrote this code” (not AI-generated) - Audit trail for compliance and IP protection - IDE plugins for real-time signing

For Communications: - Email and Slack/Teams plugins - Proves message really came from stated sender - Protects against BEC (Business Email Compromise) - Executive communications shield

2. TrustVerify API

Verify anything, anywhere, instantly.

Core Capabilities:

```
POST /verify
{
  "content": "<base64 or URL>",
  "type": "image|video|document|code|text"
}
```

RESPONSE:

```
{  
    "trust_score": 94,  
    "verdict": "AUTHENTIC",  
    "provenance": {  
        "creator": "John Smith (ID verified)",  
        "created_at": "2026-01-31T14:23:00Z",  
        "device": "iPhone 16 Pro (attested)",  
        "location": "New York, NY (±10m)",  
        "modifications": [],  
        "chain_of_custody": [...]  
    },  
    "ai_detection": {  
        "ai_generated_probability": 0.02,  
        "deepfake_indicators": [],  
        "synthesis_markers": []  
    }  
}
```

Detection Engine: - Multi-model AI detection (not relying on single approach) - Perceptual hashing to track derivatives - Metadata forensics - Biometric liveness for video - Writing style analysis for text

3. TrustAttest Network

Decentralized trust registry with legal standing.

Key Features: - Tamper-proof log of all attestations - Cross-organization verification (your proof works at their company) - Legal admissibility — designed for courtroom evidence standards - Regulatory compliance packages (SOC 2, HIPAA, GDPR) - No blockchain dependency (but blockchain-compatible)

4. TrustSeal Badge

Visual indicator of verified content.

The “HTTPS Lock” for Content: - Embeddable badge for websites, documents, videos - One-click verification for viewers - Browser extension shows verification status - API for platforms to display trust status

Go-to-Market Strategy

Phase 1: Beachhead — Legal & Financial (Months 1-12)

Why This Segment: - Highest pain (deals dying over document trust) - Highest willingness to pay (\$50K-500K/year) - Regulatory tailwinds - Reference customers that unlock other verticals

Target Customers: - AM Law 200 firms (contract and evidence verification) - Big 4 accounting firms (audit documentation) - Investment banks (deal documentation) - Insurance companies (claims verification)

Initial Product: - Document verification API - Legal-grade audit trails - Expert witness support package - E-discovery integration

Pricing: \$50K-500K/year based on volume + \$0.10-1.00 per verification

Phase 2: Horizontal Expansion (Months 12-24)

New Verticals: - Healthcare (medical records, imaging verification) - Real Estate (title documents, inspection photos) - Government (identity documents, official records) - Media & Entertainment (content licensing, royalty tracking)

Product Expansion: - Image/video verification suite - Platform integrations (Salesforce, DocuSign, etc.)
- Self-service tier for SMBs

Phase 3: Platform Play (Months 24-36)

Become Infrastructure: - Consumer-facing verification (anyone can verify anything) - Browser extension mainstream adoption - Mobile app for instant verification - Platform partnerships (social media, marketplaces)

Network Effects Kick In: - More verified content = more valuable registry - Cross-organization trust = platform lock-in - Regulatory mandates drive adoption

Business Model

Revenue Streams

1. **Enterprise SaaS** | Tier | Price | Includes | ——|——|——-| | Starter | \$10K/year | 10K verifications, 5 users | | Professional | \$50K/year | 100K verifications, 25 users, API | | Enterprise | \$200K+/year | Unlimited, custom integration, SLA |
2. **API Usage** - Verification API: \$0.10-1.00 per verification (volume discounts) - Capture SDK: \$0.01-0.05 per sealed content - Real-time monitoring: \$0.001 per check
3. **Platform Fees** - Marketplace integrations: Revenue share on verified transactions - Certification badges: Annual renewal fees
4. **Professional Services** - Implementation: \$25K-100K - Expert witness testimony: \$500/hour - Custom training: \$5K-20K

Unit Economics

Metric	Value
CAC (Enterprise)	\$25,000
ACV (Enterprise)	\$150,000
Gross Margin	85%
Payback Period	2 months
Net Revenue Retention	140%
LTV	\$750,000
LTV:CAC	30:1

Competitive Landscape

Existing Players

Competitor	Focus	Weakness
DocuSign	Signatures	Doesn't verify content authenticity
Truepic	Photo verification	Mobile-only, limited enterprise

Competitor	Focus	Weakness
Reality Defender	Deepfake detection	Detection-only, no creation-side
Adobe Content Credentials	Metadata standards	Adoption-limited, not enterprise
Various AI detectors	AI detection	Single-purpose, easily fooled

TrustLayer Differentiation

1. **Full-stack solution** — Capture, verify, AND attest (competitors do one)
 2. **Enterprise-first** — Built for Fortune 500 security and compliance needs
 3. **Legal-grade** — Designed for courtroom admissibility from day one
 4. **Cross-platform** — Works across all content types and organizations
 5. **Network effects** — Value increases as more content joins the registry
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Technology & Moat

Core Technology

1. **Multi-Modal Detection Engine** - Ensemble of 15+ AI models for deepfake/synthetic detection - Perceptual hashing immune to compression and resizing - Metadata forensics and inconsistency detection - Biometric liveness verification - Continuously retrained on adversarial examples
2. **Cryptographic Provenance** - Content-derived signatures (not just metadata) - Zero-knowledge proofs for privacy-preserving verification - Hardware security module integration - Post-quantum cryptography ready
3. **Identity Anchor Network** - KYC/KYB verified entity registry - Cross-references with government ID systems - Corporate identity federation - Continuous verification (not just onboarding)

Defensible Moats

1. **Network Effects** - More verified content = better detection models - Cross-organization trust = exponential value - Industry standards lock-in
 2. **Data Moat** - Largest corpus of verified vs. synthetic content - Continuous model improvement - Proprietary detection techniques
 3. **Enterprise Relationships** - Deep integration = high switching costs - Compliance dependency - Legal standing creates lock-in
 4. **Regulatory Capture** - Early engagement with regulators - Shape emerging standards - Compliance certification business
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Financial Projections

5-Year Model

Year	ARR	Customers	Employees
1	\$2M	20	25
2	\$15M	150	80
3	\$60M	600	200
4	\$150M	1,500	400
5	\$350M	3,500	700

Path to \$1B+ Valuation

- **Year 2:** Series A at \$150M valuation (10x ARR)
- **Year 3:** Series B at \$600M valuation (10x ARR)
- **Year 4:** Series C at \$1.5B valuation (10x ARR)
- **Year 5:** IPO or strategic at \$3.5B+ (10x ARR)

Capital Requirements

Round	Timing	Amount	Use of Funds
Seed	Month 1	\$4M	MVP, initial team, first customers
Series A	Month 18	\$25M	Scale sales, expand product
Series B	Month 30	\$75M	International, platform launch
Series C	Month 42	\$150M	Category dominance

Team Requirements

Founding Team (Ideal)

CEO — Enterprise sales leader with cybersecurity background - Previous: VP Sales at identity/security company - Network into Fortune 500 CISOs and CLOs

CTO — Cryptography + ML expert - Previous: Senior engineer at Google/Meta working on content integrity - Published research in AI detection or applied cryptography

CPO — Enterprise product leader - Previous: Product lead at DocuSign, Box, or similar - Understands legal/compliance product requirements

Key Hires (First 12 Months)

1. VP Engineering — Build the platform
2. Head of Legal — Ensure admissibility, shape regulations
3. Head of Sales — Land first enterprise deals
4. ML Lead — Detection engine development
5. Security Lead — Cryptographic infrastructure

Risk Analysis

Key Risks & Mitigations

Risk	Probability	Impact	Mitigation
AI detection arms race	High	Medium	Continuous model updates, multiple detection methods
Big tech builds this	Medium	High	Move fast, build enterprise relationships, regulatory positioning
Slow enterprise adoption	Medium	High	Start with bleeding-edge use cases (legal disputes)
Privacy concerns	Medium	Medium	Zero-knowledge proofs, minimal data retention

Risk	Probability	Impact	Mitigation
Regulatory changes	Low	High	Active regulatory engagement, adaptable architecture

Why This Won't Be Built by Big Tech

1. **Trust conflict** — Google/OpenAI are AI generators; can't credibly verify against themselves
 2. **Enterprise focus** — Big tech deprioritizes B2B infrastructure
 3. **Regulatory scrutiny** — Big tech adding more data collection invites antitrust
 4. **Speed** — Startups can move faster on emerging category
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Immediate Action Plan

Week 1

- Domain registration: trustlayer.io, trustlayer.com
- Incorporate in Delaware
- Begin technical architecture document
- Identify 5 potential co-founders

Month 1

- Recruit founding team
- Build proof-of-concept detection API
- Design SDK architecture
- Identify 10 design partners (law firms, banks)
- Prepare seed deck

Quarter 1

- Close seed round (\$4M)
 - MVP with document verification
 - Land 3 paid pilots
 - Hire core engineering team
 - Begin regulatory engagement
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The Vision

In 5 years, “TrustLayer Verified” becomes the standard for digital authenticity — as ubiquitous and expected as HTTPS. Every important document, image, video, and communication carries cryptographic proof of its origins. Courts require it. Insurers mandate it. Consumers demand it.

The internet went through the HTTPS transition in the 2010s. The 2020s are the authenticity transition. TrustLayer is the infrastructure that makes it possible.

We're not building a company. We're building trust infrastructure for the next century.

In a world where anything can be faked, proof of truth becomes the most valuable currency.

— TrustLayer

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