Contents

NexusID — Universal Identity Infrastructure for AI Agents

The Passport, Credit Score, and License System for the AI Economy

Date: February 19, 2026 | Morning Drop

The One-Liner

NexusID is the universal identity layer that enables AI agents to be identified, verified, authorized, and held accountable — creating trust infrastructure for the trillion-dollar AI agent economy.

The Problem

The AI Agent Identity Crisis

By 2026, billions of AI agents are operating across the digital economy — making purchases, signing contracts, accessing systems, and representing humans. But there's a critical missing piece: **identity**.

Current chaos: - **No verification**: How do you know an AI agent is who it claims to be? - **No credentials**: How do you verify an agent's capabilities and authorizations? - **No reputation**: How do you trust an agent you've never interacted with? - **No accountability**: When an AI agent causes harm, who's responsible? - **No portability**: Agents are siloed — no universal identity across platforms

Real-world consequences: - Enterprises can't safely integrate third-party AI agents - AI-to-AI transactions lack trust mechanisms - Regulatory compliance is impossible without identity trails - Fraud and impersonation of AI agents is exploding - Reputation can't transfer across platforms

The Trust Gap

We solved human identity for the internet (OAuth, SSO, digital certificates). We solved device identity for IoT (PKI, attestation). But **AI agent identity is the Wild West**.

Every AI agent today is either: 1. **Anonymous** — no verifiable identity 2. **Platform-locked** — identity only exists within one ecosystem 3. **Impersonatable** — anyone can claim to be any agent

This is blocking the next phase of AI adoption: **autonomous AI agents operating in the real economy**.

The Solution
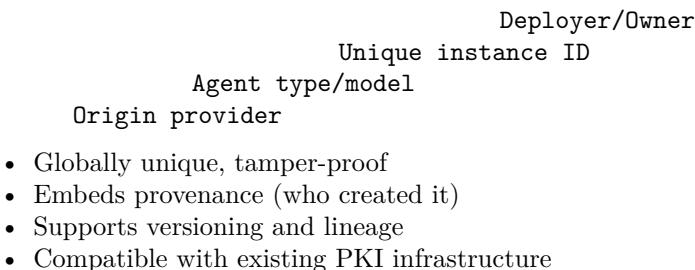
NexusID: The Identity Layer for AI Agents

NexusID provides universal, verifiable, portable identity for AI agents — enabling trust, accountability, and interoperability across the AI economy.

Core Components

1. Nexus Identifier (NID) Universal, cryptographically-secure identifier for every AI agent.

```
nid:openai:gpt-5-agent:7x9k2m4p:enterprise-acme

                              Deployer/Owner
                    Unique instance ID
            Agent type/model
      Origin provider
```

- Globally unique, tamper-proof
- Embeds provenance (who created it)
- Supports versioning and lineage
- Compatible with existing PKI infrastructure

2. Capability Attestations Verifiable credentials that prove what an agent CAN do.

```json
{
  "nid": "nid:anthropic:claude-agent:a8b3c1:acme-corp",
  "capabilities": [
    {
      "type": "financial-transactions",
      "limit": "$10,000/day",
      "attestedBy": "acme-corp",
      "validUntil": "2027-02-19"
    },
    {
      "type": "code-execution",
      "scope": "sandbox-only",
      "attestedBy": "nexusid-authority",
      "validUntil": "2026-08-19"
    }
  ],
  "signature": "0x..."
}
```

- Fine-grained capability definitions
- Multi-party attestations
- Expiring and revocable
- Machine-readable for automated trust decisions

3. Authorization Chains Cryptographic proof of who an agent represents and what it's authorized to do.

```
Human (Alice)
      authorizes → Personal Agent (shopping, scheduling)
              delegates → Sub-agent (price comparison)
                      limited → Read-only, no transactions
```

- Delegation hierarchies with constraints
- Real-time revocation
- Audit trail of all authorizations
- Supports enterprise governance requirements

4. Reputation Ledger Portable, verifiable reputation that follows agents across platforms.

Reputation Dimensions: - **Reliability**: Task completion rate, uptime - **Accuracy**: Quality of outputs, error rates - **Safety**: Compliance incidents, harm reports - **Efficiency**: Speed, resource usage - **Trust Score**: Composite score (300-850, like credit)

```json
{
  "nid": "nid:openai:gpt-5-agent:7x9k2m4p:enterprise-acme",
  "trustScore": 782,
  "totalInteractions": 1247893,
  "dimensions": {
    "reliability": 0.94,
    "accuracy": 0.89,
    "safety": 0.99,
    "efficiency": 0.87
  },
  "attestations": 47,
  "disputes": 3,
```

```
    "resolutions": 3
}
```

5. Accountability Registry   Immutable record of agent actions for compliance and dispute resolution.

- Every significant action logged with NID
- Cryptographic proof of who did what when
- Supports regulatory audits
- Enables liability attribution
- Privacy-preserving (selective disclosure)

Technical Architecture

System Design

```
                       NexusID Platform


        Identity          Capability          Authorization
        Registry            Engine               Service

     • NID mgmt          • Attest            • Delegation chains
     • PKI               • Verify            • Real-time revocation
     • Lookup            • Revoke            • Policy enforcement



        Reputation       Accountability         Gateway API
         Ledger            Registry
                                             • REST/GraphQL
     • Scoring           • Action log        • SDK (Python, JS, Go)
     • Disputes          • Audit             • Webhooks
     • Portable          • Compliance        • Real-time events




        AI Agent          Enterprise           Platform
        Frameworks         Systems            Integrations

     • LangChain         • Salesforce        • OpenAI
     • AutoGPT           • SAP               • Anthropic
     • CrewAI            • Workday           • Google
     • Custom            • ServiceNow        • AWS Bedrock
```

Data Architecture

Identity Layer (Decentralized) - Distributed ledger for NID registry - Cryptographic anchoring (not full blockchain — efficient hybrid) - Regional nodes for latency and compliance

Reputation Layer (Federated) - Reputation scores computed across federated nodes - Privacy-preserving aggregation (no raw data sharing) - Dispute resolution smart contracts

Action Log (Enterprise) - Customer-controlled storage options - Encrypted, customer-key-wrapped - Retention policies per regulation

Security Model

1. **Zero-Trust Architecture**: Every request verified, no implicit trust
2. **Hardware Security**: HSMs for key management at scale
3. **Cryptographic Proofs**: Ed25519 signatures, BLS aggregation
4. **Privacy by Design**: Selective disclosure, minimal data exposure
5. **Post-Quantum Ready**: Hybrid classical/PQ signatures

Market Opportunity

Total Addressable Market (TAM)

AI Agent Economy (2028 projection): - 10B+ AI agents deployed globally - $500B in AI agent-mediated transactions - $50B in AI agent infrastructure spending

Identity/Trust Infrastructure: - 3-5% of transaction value = **$15-25B market** - Per-agent licensing = **$10-50B at scale**

Serviceable Addressable Market (SAM)

Enterprise AI Agent Deployments: - Fortune 5000 companies: 5000 × $500K avg = **$2.5B** - Mid-market (50K companies): 50K × $50K = **$2.5B** - **Year 5 SAM: $5B**

Serviceable Obtainable Market (SOM)

Realistic capture (15-20% market share): - **Year 3: $200M ARR** - **Year 5: $750M-1B ARR**

Comparable Markets

Market	Size	NexusID Parallel
Digital Identity (Okta, Auth0)	$15B	Identity layer
Credit Bureaus (Experian, Equifax)	$25B	Reputation layer
PKI/Certificate Authorities	$5B	Cryptographic trust
API Management (Kong, Apigee)	$4B	Gateway/integration

Business Model

Revenue Streams

1. Platform Subscriptions (60% of revenue)

Tier	Price	Features
Starter	$500/mo	100 agents, basic identity, community support
Growth	$2,500/mo	1,000 agents, reputation, priority support
Enterprise	$25,000/mo	Unlimited, full suite, SLA, dedicated CSM

Tier	Price	Features
Custom	$100K+/mo	On-prem, custom integrations, white-label

2. Transaction Fees (25% of revenue)

- $0.001 per identity verification
- $0.01 per capability attestation
- $0.05 per authorization chain creation
- Volume discounts at scale

3. Trust Services (15% of revenue)

- Premium reputation audits: $5K-50K
- Compliance certifications: $10K-100K
- Dispute resolution services: $500-5K per case
- Custom attestation authorities: $50K+ setup

Unit Economics

Per Enterprise Customer: - Average Contract Value (ACV): $150K - Gross Margin: 85% - CAC: $30K (6-month payback) - LTV: $450K (3-year average tenure) - LTV:CAC Ratio: 15:1

At Scale (Year 5): - 5,000 enterprise customers - $750M ARR - 85% gross margin - 25% EBITDA margin

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Go-To-Market Strategy

Phase 1: Establish the Standard (Months 1-12)

Target: AI Platform Partnerships

1. **Partner with AI providers** (OpenAI, Anthropic, Google)
   - Native NID support in their agent frameworks
   - Co-development of capability standards
   - Joint go-to-market
2. **Open-source core primitives**
   - NID specification (like OAuth)
   - Reference implementations
   - Build developer community
3. **Launch with design partners**
   - 10 Fortune 500 companies
   - Diverse industries (finance, healthcare, tech)
   - Case studies and proof points

Phase 2: Enterprise Adoption (Months 12-24)

Target: Enterprise Security & Compliance

1. **Compliance certifications**
   - SOC 2 Type II
   - ISO 27001
   - Industry-specific (HIPAA, PCI, etc.)
2. **Enterprise sales motion**
   - Security-led deals
   - Compliance-driven urgency

- Land with one use case, expand
3. **System integrator partnerships**
   - Accenture, Deloitte, McKinsey
   - Implementation capacity
   - Enterprise credibility

Phase 3: Market Standard (Months 24-48)

Target: Industry-Wide Adoption

1. **Standards body participation**
   - IEEE, W3C, NIST
   - Shape regulatory requirements
   - Become the reference implementation
2. **Network effects**
   - More agents = more valuable network
   - Reputation portability drives adoption
   - Platform lock-in through ubiquity
3. **Geographic expansion**
   - EU (AI Act compliance)
   - Asia-Pacific (high agent adoption)
   - Industry-specific clouds

Competitive Landscape

Current Players

Company	Focus	Gap
Okta/Auth0	Human identity	No AI agent support
DigiCert	PKI/certificates	Not agent-aware
Anthropic	AI safety	Platform-specific
OpenAI	AI capabilities	No identity layer

Competitive Advantages

1. **First-Mover in AI Identity**: No one owns this category yet
2. **Network Effects**: Every agent added increases value
3. **Standards Play**: Shape the market, don't just participate
4. **Trust Accumulation**: Reputation data is a compounding moat
5. **Platform Agnostic**: Works with all AI providers

Defensibility

- **Data Network Effects**: Reputation improves with more data
- **Switching Costs**: Identity is sticky — hard to migrate
- **Standard Lock-in**: If we set the standard, alternatives are incompatible
- **Trust Moat**: Years of reputation data can't be replicated

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Team Requirements

Founding Team (Pre-Seed)

1. **CEO**: Enterprise SaaS founder, security/identity background
2. **CTO**: Distributed systems, cryptography, ex-FAANG
3. **Head of Product**: Identity/IAM experience (Okta, Auth0, Ping)

Key Hires (Seed - Series A)

- **VP Engineering**: Scale infrastructure, security-first
- **VP Sales**: Enterprise security sales (CISO relationships)
- **Head of Standards**: Industry body experience, technical credibility
- **Head of Partnerships**: AI platform relationships

Advisory Board

- Former CISO of Fortune 100
- AI safety researcher
- Identity standards expert (OAuth, OIDC author)
- Enterprise software CEO

Financial Projections

5-Year Forecast

Metric	Year 1	Year 2	Year 3	Year 4	Year 5
ARR	$2M	$15M	$75M	$300M	$750M
Customers	50	300	1,200	3,000	5,500
Agents (M)	5M	50M	500M	2B	8B
Gross Margin	75%	80%	83%	85%	85%
Headcount	25	100	350	800	1,500

Funding Roadmap

Round	Amount	Timing	Use of Funds
Pre-Seed	$3M	Now	Core team, MVP, design partners
Seed	$15M	Month 12	Product, enterprise sales, partnerships
Series A	$50M	Month 24	Scale GTM, international expansion
Series B	$150M	Month 36	Market dominance, M&A

Path to $1B+ Valuation

- Year 3: $75M ARR × 20x = **$1.5B valuation** (Series A/B)
- Year 5: $750M ARR × 15x = **$11B+ valuation** (IPO trajectory)

Risks & Mitigations

Risk	Likelihood	Impact	Mitigation
AI providers build native	Medium	High	Partner early, make switching costly
Standards fragmentation	Medium	Medium	Lead standards efforts, open-source core
Slow enterprise adoption	Medium	Medium	Compliance-driven urgency, risk messaging
Privacy regulation	Low	Medium	Privacy-first design, regional compliance
Technical complexity	Medium	Medium	World-class team, phased rollout

Why Now?

Convergence of Forces

1. **AI Agent Explosion**: 2025-2026 is the inflection point
2. **Regulatory Pressure**: EU AI Act, US executive orders demand accountability
3. **Enterprise Demand**: CISOs blocking AI adoption without identity/audit
4. **Trust Crisis**: AI fraud and impersonation creating urgency
5. **Infrastructure Gap**: No incumbent solution exists

The Window

- **Too early (2023-2024)**: AI agents weren't mainstream
- **Perfect timing (2025-2026)**: Agents proliferating, no standard yet
- **Too late (2027+)**: Fragmented standards, harder to unify

The next 18 months determine who owns AI agent identity.

30-60-90 Day Plan

Days 1-30: Foundation

- ☐ Recruit co-founders (CTO, Head of Product)
- ☐ Draft NID specification v0.1
- ☐ Identify 5 design partner targets
- ☐ Set up legal/corporate structure
- ☐ Begin pre-seed fundraising

Days 31-60: Validation

- ☐ Sign 2-3 design partner LOIs
- ☐ Build technical prototype
- ☐ Initiate AI platform partnership discussions
- ☐ Close pre-seed round
- ☐ Hire first 5 engineers

Days 61-90: MVP

☐ Launch private beta with design partners
☐ Publish NID spec for community feedback
☐ First enterprise pilot live
☐ Announce AI platform partnership
☐ Begin seed fundraising process

The Vision

2030 and Beyond

NexusID becomes the **trust layer of the AI economy** — as fundamental as DNS is to the internet or credit bureaus are to finance.

Every AI agent has a NexusID. Every interaction is verified. Every reputation is portable. Every action is accountable.

We don't just enable AI agents — we make them trustworthy.

The AI economy can't scale without trust. NexusID is that trust.

"In the age of AI agents, identity isn't just about who you are — it's about who your agents are, what they can do, and whether they can be trusted."

— NexusID: Identity for the AI Economy

Generated by The Godfather | February 19, 2026