Estate Verification Through Behavioral Continuity

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Estate settlement disputes consume billions in legal costs annually, with identity verification at the center of most contests. Did the decedent truly sign the will? Is the claimant who they say they are? Current verification depends on documents and witnesses, both of which are fallible. Biological identity through trust-slope validation provides a verification chain built from decades of accumulated behavioral continuity that is computationally unforgeable, offering estate verification that is resistant to the documentary forgery and identity fraud that plague current probate proceedings.

The identity verification problem in estate settlement

Probate courts routinely face two identity challenges. First, verifying that the decedent executed the estate documents: did this person actually sign this will, trust, or beneficiary designation? Second, verifying that claimants are who they purport to be: is this person actually the named beneficiary, or are

they impersonating the beneficiary?

Both verifications currently depend on documentary evidence: notarized signatures, witness attestations, government-issued identification. Each of these can be forged, contested, or lost. A contested signature requires handwriting experts whose conclusions are probabilistic. A contested identity requires documentary chains that may have gaps. The legal costs of resolving these contests often consume a significant fraction of the estate itself.

Why digital signatures do not solve estate verification

Digital signatures provide cryptographic proof of signing at a specific time. But digital signatures depend on private keys that may be compromised, lost, or inaccessible after the signer's death. A digitally signed will is only as secure as the key management practices of the signer, who may not have had strong key management during their lifetime. Additionally, coercion scenarios where the signer was forced to apply their signature remain undetectable through cryptographic means alone.

How biological identity addresses this

Biological identity through trust-slope validation builds a verification chain from behavioral continuity accumulated over the person's lifetime. When the decedent signed estate documents, their biological signals at the moment of signing, behavioral patterns, physiological markers, contextual indicators, were hashed and added to their trust slope. The signing event is not just documented. It is biologically anchored.

Verifying the signing event after death does not require accessing the person's biometric data. It requires verifying that the trust slope trajectory at the time of signing was consistent with the person's established behavioral continuity. A coerced signing produces physiological signals that deviate from the person's baseline trajectory. A forged signing lacks the biological hash entirely.

Claimant verification uses the same mechanism. A beneficiary who has been building a trust slope through normal life activities, banking, travel, employment, carries identity assurance proportional to their slope depth. A fraudulent claimant cannot produce a trust slope consistent with the claimed identity because they did not live the claimed life.

Multi-identity delegation enables estate planning that distributes trust across family members. The decedent's trust slope can include deliberate delegation events where trust relationships with specific individuals are established and verified, creating a verifiable chain of intended beneficiaries.

What implementation looks like

An estate planning firm deploying biological identity captures trust slope contributions at every client interaction. Document signings, meetings, phone calls, and digital interactions each contribute biological hashes to the client's trust slope. At probate, the estate's documentation carries a verifiable biological chain linking the decedent to every estate action.

For probate courts, trust-slope verification provides a quantifiable identity assessment that replaces the qualitative judgments currently required. The court evaluates the biological continuity chain rather than weighing competing expert opinions about signature authenticity.

For trust companies and executors, biological identity reduces the fraud risk in estate administration by providing verifiable identity for every party in the settlement process, backed by behavioral continuity rather than documents alone.

Biological Identity All 21 steps →

Identity from behavioral continuity. No stored templates. No keys.

Primary Technical Disclosure
○ Continuity-Based Biological Identity Using Trust-Slope Validation
Secondary Technical
○ Biological Trust Slope Construction: Identity Through Behavioral Continuity○ Contact, Non-Contact, and Passive Resolution Modes for Biological Identity○ Biological Hash Generation With Domain Separation○ Biological State Inference From Continuity Baseline○ Cross-Modal Biological Hash Fusion○ Biological Continuity as Handoff Verification○ Relational Trust Trajectories: Trust as Temporal Relationship○ Identity as Behavioral Continuity: Beyond Single-Point Capture○ Biological-Device-Agent Identity Layering○ Biological Signal Acquisition Tiers○ Noise-Tolerant Feature Normalization for Biological Signals○ Stable Sketching and Helper Data for Biological Features○ Predictive Identity Trajectory: Forecasting Biological Identity Evolution○ Population-Scale Collision Resistance for Biological Hashes○ Adaptive Indexing of Biological Trust Slopes○ Delayed and Sparse Validation for Disconnected Environments○ Policy-Governed Capability Binding for Biological Identity○ Multi-Identity Delegation Without Biological Data Disclosure○ External Credential Integration With Trust-Slope Integrity○ Anti-Spoofing Through Continuity Validation○ Identity Lifecycle Management and Phase-Based Reseeding○ Quorum-Based Biological Identity Recovery○ Privacy Governance and Revocation for Biological Identity○ Human-Agent Primitive Integration for Biological Identity
Applications (General)
○ Airport Security Without Biometric Databases● Estate Verification Through Behavioral Continuity○ Biological Identity for Elder Care Continuity○ Biological Identity for Child Development Tracking○ Biological Identity for Addiction Recovery Monitoring○ Biological Identity for Workplace Safety Monitoring○ Biological Identity for Athletic Performance○ Biological Identity for Immigration Processing
Applications (Specific)
○ TSA PreCheck Matches Templates, Not Continuity○ Global Entry Verifies Documents, Not Biological Continuity○ Face ID Matches a Stored Model, Not a Living Trajectory○ Samsung Knox Guards the Container, Not the Identity○ ID.me Verifies Documents, Not Biological Continuity○ Socure Scores Risk at a Single Point in Time○ Plaid Identity Verifies Financial Accounts, Not Biological Persons○ Onfido Detects Document Fraud, Not Identity Drift○ Veriff Captures Sessions, Not Trajectories○ Trulioo Queries Databases, Not Biological Trajectories
Biological Identity overview →
AQ
deterministic
autonomy

Legal

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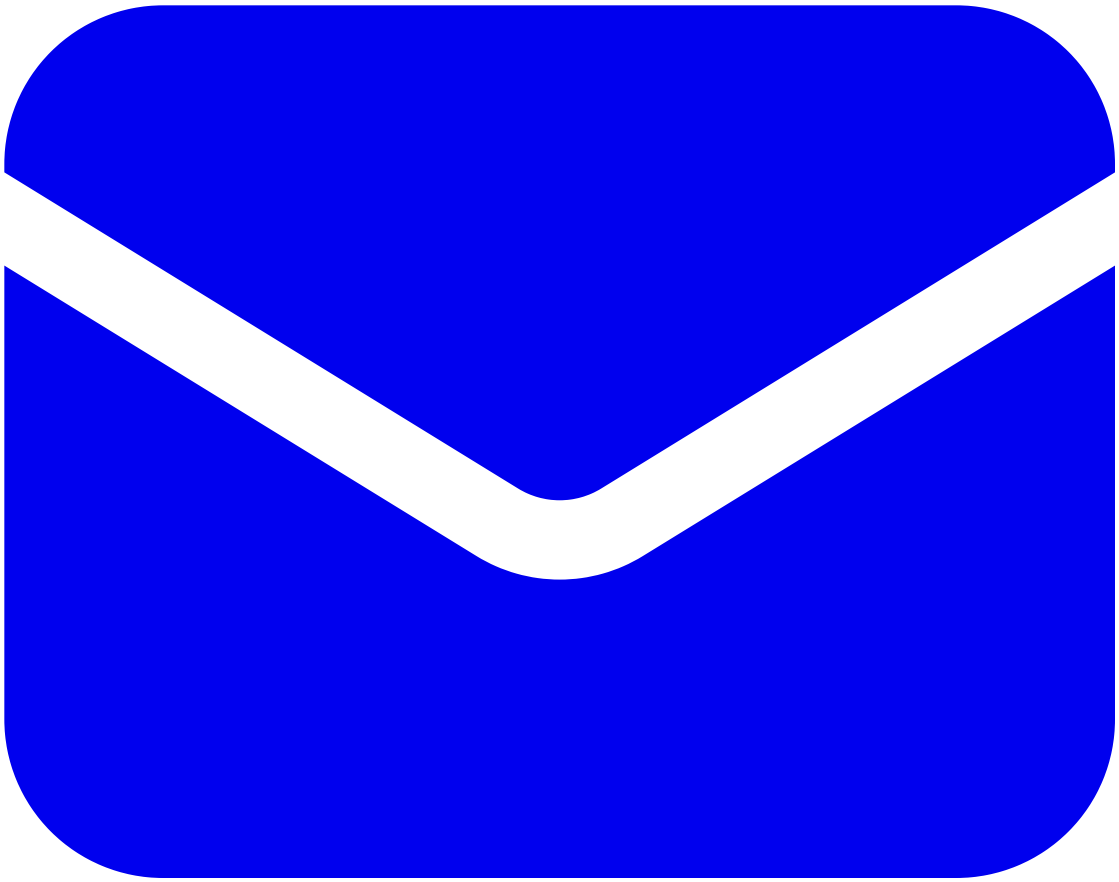

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