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Quorum-Based Biological Identity Recovery

by [Nick Clark](#) | Published March 27, 2026 | [PDF](#)

When a biological trust slope is disrupted through extended absence, traumatic biological change, or catastrophic system failure, the accumulated identity may be lost. Quorum-based recovery enables identity restoration through attestation from multiple trusted peers who can collectively vouch for the individual's identity continuity, restoring the trust slope without requiring a centralized authority.

What It Is

Quorum-based biological identity recovery restores a disrupted trust slope through attestation from multiple independent peers who have existing trust relationships with the individual. A defined quorum of peers must independently attest to the individual's identity continuity before the trust slope is re-anchored.

The recovery creates a new trust slope segment linked to the disrupted slope through the quorum attestation record. The recovered identity starts at a trust level determined by the attestation quality and quorum size, not at zero.

Why It Matters

Without recovery mechanisms, identity loss is permanent and catastrophic. An individual who experiences a major biological change (severe burns, extensive surgery, prolonged coma) would lose their accumulated digital identity with no recourse. This is unacceptable for identity systems intended to serve as primary identification.

Quorum-based recovery distributes the recovery authority across multiple independent parties, preventing both single-point recovery fraud and single-point recovery denial.

How It Works

The individual initiates recovery by presenting whatever biological signals they currently produce. These signals do not match the disrupted trust slope. The system then solicits attestations from entities with whom the individual has existing relational trust trajectories.

Each attesting entity provides an independent attestation based on their own observation of the individual. When the policy-defined quorum threshold is met, the system creates a recovery record linking the new biological observations to the disrupted trust slope. The recovery event is permanently recorded in the identity lineage.

What It Enables

Quorum-based recovery enables biological identity to survive catastrophic biological change. It provides a socially grounded recovery mechanism that mirrors how identity recovery works in human communities: people who know you attest to who you are. The mathematical formalization of this process ensures it is auditable, tamper-evident, and resistant to fraud.

[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](#)[◦ Secure 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

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