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Identity Lifecycle Management and Phase-Based Reseeding

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

Biological identity is not static. Over years and decades, biological features change enough that the original trust slope baseline may become unrecognizable. Identity lifecycle management monitors identity health over extended timescales and performs phase-based reseeding when drift accumulates beyond sustainable thresholds. The identity persists through these transitions with full lineage continuity.

What It Is

Identity lifecycle management monitors the long-term health of biological trust slopes and performs maintenance operations to ensure continued viability. Phase-based reseeding creates new baseline observations when accumulated drift has moved the individual's biological features beyond the prediction envelope of the original baseline.

Reseeding is not re-enrollment. The individual's identity lineage continues unbroken through the reseeded event. The new baseline is linked to the old through a governed transition that preserves the full history.

Why It Matters

Any biological identity system that operates over years must account for aging, injury, medical treatment, and other biological changes. Without lifecycle management, identities gradually degrade until they fail, forcing disruptive re-enrollment that breaks identity continuity.

Phase-based reseeded maintains identity through these changes by proactively refreshing the baseline before degradation reaches the point of failure. This transforms a catastrophic event into a routine maintenance operation.

How It Works

The system continuously monitors identity health metrics: prediction accuracy, noise margin, drift rate, and observation quality trends. When these metrics indicate that the current baseline is degrading, the system schedules a reseeded event.

During reseeded, the system collects fresh high-quality observations and establishes a new baseline while the old baseline still validates. The transition is recorded in the identity lineage with cryptographic binding between the old and new baselines. The old baseline remains in the historical record for audit.

What It Enables

Lifecycle management enables biological identity that persists across an entire human lifetime. The identity adapts to aging, recovers from injury, and maintains continuity through medical treatments that alter biological features. This long-term viability is essential for identity systems intended to replace rather than supplement traditional credentials.

[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 Primitve 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 →](#)

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