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 reseeding 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 reseeding 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 reseeding event.

During reseeding, 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.

AQ
deterministic
autonomy

Legal

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