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Policy-Governed Capability Binding for Biological Identity

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

Biological identity alone answers only who someone is. Capability binding connects that identity to what they are authorized to do. The architecture binds biological trust slopes to capability scopes through explicit policy-governed mechanisms, ensuring that authorization is derived from verified identity rather than assumed from credential possession.

What It Is

Policy-governed capability binding creates explicit, auditable links between biological trust slopes and authorization scopes. A binding declares that a specific trust slope, when above a specified confidence threshold, grants access to a defined set of capabilities. The binding is a policy object, subject to the same governance, versioning, and audit trail as all policy objects in the architecture.

Why It Matters

Traditional access control binds capabilities to credentials, not identities. Anyone with the credential has the capability. Binding capabilities to biological trust slopes means that authorization requires not just possession of a token but demonstrated identity continuity above a governance-defined threshold. The capability is tied to the person, not to anything they carry or know.

How It Works

Capability binding policies specify the required trust slope depth, the acceptable acquisition tiers, the capability scope granted, and any temporal or contextual constraints. When a capability request is evaluated, the system verifies that the requesting entity's biological trust slope satisfies all binding requirements before granting access.

Bindings can be hierarchical: higher trust slopes unlock broader capabilities. They can be contextual: the same trust slope may grant different capabilities in different locations or at different times. All binding evaluations are recorded in the governance audit trail.

What It Enables

Capability binding enables access control that cannot be circumvented through credential theft, sharing, or replay. It supports graduated authorization where capability scope expands naturally with identity confidence. It enables temporal capability that expires when identity observation ceases. The result is authorization that is as dynamic and contextual as the identity it depends on.

[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 Primitiv 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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Last updated: 2026-03-03



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