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Veriff Captures Sessions, Not Trajectories

by [Nick Clark](#) | Published March 28, 2026 | [PDF](#)

Veriff's identity verification platform captures video sessions that include facial biometrics, document images, device fingerprints, network signals, and behavioral cues like how a user holds their phone or interacts with the verification flow. The signal richness within a single session is substantial. But each session is evaluated as an independent event. The system does not maintain a biological trajectory across sessions. The gap is between capturing rich signals in a moment and validating continuity across moments.

What Veriff built

Veriff's approach captures more data per verification event than most competitors. The video-based flow records the user's face from multiple angles, captures the document under varying lighting conditions, and collects device and behavioral signals throughout the session. Machine learning models

analyze the combined signal set to assess identity authenticity and fraud risk.

The richness of per-session capture is genuine. More signals per event means higher confidence per decision. But the architectural assumption is that each session should be sufficient on its own to establish identity. The system does not ask whether this session's biological signals are consistent with the person's trajectory across all prior sessions. It asks whether this session's signals are sufficient to verify identity right now.

The gap between session richness and trajectory depth

Capturing more signals within a single session improves the accuracy of that session's decision. It does not provide the information that trajectory validation provides. A person verified through Veriff three times over six months has three independent session evaluations. They do not have an accumulated biological trajectory that each subsequent session validates against.

The distinction matters most against sophisticated attacks. Deepfake technology improves at generating consistent biometric presentations within a single session. A generated face that maintains consistency for the duration of a video verification can defeat per-session analysis. What a generated face cannot produce is a trajectory of biological evolution across sessions separated by months. Natural aging, weight fluctuation, behavioral pattern development, and physiological signal evolution across time form a trajectory that synthetic generation cannot replicate without access to the legitimate individual's accumulated history.

Session-based verification also fails to leverage its own history. A returning user verified six months ago provides no more trajectory evidence than a first-time user. The system treats every encounter as if it has no prior knowledge of the person. The accumulated sessions are archived data rather than trajectory inputs. The structural opportunity to build identity confidence over time is forfeited by an architecture that treats each session independently.

What biological identity enables for session-rich verification

Trust-slope trajectory validation transforms Veriff's rich session capture from isolated evaluations into trajectory inputs. Each session's biological signals contribute to an accumulated trajectory. The first session establishes a baseline. Subsequent sessions validate consistency with the trajectory and extend it. Confidence in the person's identity increases with each session rather than resetting.

Stable sketching makes this feasible without storing session video or raw biometric data. Each session's biological signals are transformed into compact representations that contribute to the trajectory without enabling reconstruction. The privacy cost of maintaining trajectory data is minimal because the trajectory is maintained through sketches, not through retained session recordings.

The deepfake defense is structural. A synthetic face can be consistent within a session. It cannot produce a trajectory consistent with a biological person's accumulated history across sessions spanning months. The trajectory provides a defense that no amount of per-session signal richness can match.

The structural requirement

Veriff's per-session signal capture is among the richest in the industry. The structural gap is between evaluating rich signals within a session and validating biological trajectory across sessions. Biological identity transforms session richness into trajectory depth, provides deepfake resistance through cross-session continuity validation, and builds verification confidence that accumulates over time rather than resetting at each encounter.

[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 →](#)

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