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Trulioo Queries Databases, Not Biological Trajectories

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

Trulioo operates a global identity verification network that queries hundreds of data sources across more than 190 countries to confirm identity attributes against institutional records. The platform solves a genuine coordination problem: matching a person's claimed identity against fragmented data held by governments, utilities, credit bureaus, and mobile operators worldwide. But matching records across databases verifies that institutional entries exist. It does not verify that the biological person is continuous across interactions. The gap is between confirming records and validating the person.

What Trulioo built

Trulioo's GlobalGateway platform routes identity verification requests to data sources appropriate for the user's jurisdiction. A verification request in Germany queries different sources than one in Nigeria or Japan. The system normalizes responses from heterogeneous data sources into a consistent

verification decision. The coverage is broad: credit bureau records, government registries, utility databases, mobile network operator records, and other authoritative sources combine to produce multi-source confirmation.

The model is record-centric. The system asks whether the claimed identity attributes appear in institutional databases. If multiple independent sources confirm the same attributes, confidence increases. The verification does not involve biometric comparison or behavioral analysis. It confirms that the identity exists in the records. It does not confirm that the biological person presenting the identity is the person the records describe.

The gap between record confirmation and biological continuity

Database verification answers one question: do institutional records confirm that this identity exists? Biological continuity answers a different question: is the biological person presenting this identity consistent with an accumulated trajectory of interactions? The first catches nonexistent identities. The second catches identity misuse when the identity is real but the person presenting it is not the legitimate holder.

The record-confirmation model is particularly vulnerable to stolen identities. A real person's identity attributes exist in every database that Trulioo queries. Multi-source confirmation will succeed because the identity is genuine. The fraud is not in the identity but in who is using it. Database verification cannot distinguish between the legitimate holder of an identity and an unauthorized person who possesses the correct attributes.

Cross-border identity compounds the challenge. A person verified through institutional records in one jurisdiction has no continuity relationship with their verification in another jurisdiction. Each verification is an independent database query. Biological trajectory validation, by contrast, accumulates across jurisdictions. The person carries their biological continuity regardless of which country's databases are queried.

What biological identity enables for global verification

Trust-slope trajectory validation provides a person-centric verification layer that complements Trulioo's database-centric approach. Each verification interaction contributes biological signals to the individual's accumulated trajectory. The trajectory validates the person independent of which databases are queried. A person verified in London, then Sao Paulo, then Tokyo accumulates a biological trajectory that validates continuity across jurisdictions without depending on cross-border database interoperability.

Stable sketching means the biological trajectory can be maintained without biometric template storage in any jurisdiction. This is critical for global operation where biometric data regulations vary dramatically. The compact representations that support trajectory validation do not constitute stored biometric data under most regulatory frameworks because they cannot be reversed to reconstruct the original biological signals.

The regulatory advantage is structural. Different jurisdictions impose different requirements on identity data. A trajectory-based system that stores sketches rather than biometric templates navigates regulatory heterogeneity more cleanly than one that must comply with biometric storage regulations in every jurisdiction where it operates.

The structural requirement

Trulioo solved multi-source, cross-border identity record verification. The structural gap is between confirming that records exist and validating that the biological person is continuous. Biological identity provides a person-centric verification layer that accumulates across jurisdictions, catches identity misuse that record confirmation cannot detect, and operates within regulatory constraints that limit biometric storage. The system that validates biological trajectory provides global identity verification that database queries alone cannot achieve.

[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](#)[◦ Socure 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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