

Able Device Introduces SIMbae™, Enabling Deterministic AI Execution at the Identity Layer

A Closed-Loop System for Intelligent Networks

RALEIGH, NC, UNITED STATES, May 7, 2026 /EINPresswire.com/ -- [Able Device](#)

today announced a major evolution of its SIMbae™ technology, introducing AI-driven connectivity execution directly

within the SIM/eSIM secure element — transforming the SIM into a deterministic enforcement engine for intelligent mobile networks.

Across the telecom industry, artificial intelligence is rapidly being adopted to analyze network data, predict device behavior, and recommend connectivity optimizations. However, a critical gap



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remains: while AI generates insights, there has been no universal mechanism to enforce those decisions consistently across devices, networks, and geographies.

SIMbae closes that gap.

By embedding deterministic policy execution inside the SIM — the most widely deployed secure element — SIMbae turns AI insight into real-world device behavior without requiring applications or device firmware changes.

AI predicts. SIMbae enforces.

SIMbae works with or without AI. Together, they enable a new model for intelligent, self-optimizing mobile connectivity.

From Connectivity Management to Execution

As enterprise and public-sector organizations deploy complex combinations of public cellular, private 4G/5G, NTN/satellite, and Wi-Fi networks, managing device behavior across these



environments has become a major operational challenge in IoT and enterprise applications. Traditional approaches rely on device firmware, applications, or cloud platforms to manage connectivity decisions — introducing fragmentation, latency, security exposure, and inconsistent behavior across fleets.

SIMbae takes a different approach by moving enforcement to the identity layer — inside the SIM — where behavior is executed deterministically, securely, and consistently across any device or network.

With the latest advancements, organizations can combine AI-driven analytics and policy generation with SIM-resident execution to create closed-loop connectivity automation systems that continuously optimize device behavior.

A Closed-Loop System for Intelligent Networks

When paired with cloud-scale AI platforms, SIMbae enables a closed-loop model:

- SIMbae generates device and network telemetry
- AI platforms analyze patterns and predict optimal behavior
- AI generates optimized connectivity policies and updates SIMbae's logic configuration
- SIMbae autonomously enforces those policies directly on the SIM
- Telemetry feeds continuous optimization

This architecture makes IoT fleets more reliable, predictable, and autonomous over time — without changes to hardware, firmware, or applications.

Deterministic Execution at the Edge

The enhancements to SIMbae integrates multi-source contextual awareness — including cellular conditions, satellite positioning, NTN, Wi-Fi signals, and proximity metrics — into its SIM-based state engine.

This enables devices to automatically and autonomously:

- Transition between public and private networks
- Dynamically manage subscription identities (IMSI)
- Enforce secure network attachment policies
- Validate the quality of service before network selection
- Revert automatically if performance criteria are not met
- Generate telemetry and alerts based on context

All logic executes inside the SIM/eSIM and is managed over-the-air — independent of device operating systems and invisible to end users.

Enabling AI-Driven Telecom Services

“AI is transforming how telecom operators and enterprises analyze connectivity, but analytics alone do not change device behavior,” said Roger Dewey, CEO of Able Device. “SIMbae provides the missing execution layer — a deterministic control point at the identity layer that ensures AI-driven policies are carried out in the real world.”

By anchoring enforcement in the SIM, organizations gain:

- Unified behavior across device classes and operating systems
- Deterministic, tamper-resistant execution at the edge
- Reduced dependency on device firmware or cloud latency
- OTA lifecycle management at global scale
- A future-ready architecture for AI-driven automation

Expanding the Role of the SIM

As enterprises and operators modernize connectivity strategies, the SIM — long treated as a static authentication component — is emerging as a powerful execution platform.

SIMbae transforms the SIM into a configurable control layer enforcing connectivity, security, and automation policies at the identity root of the device.

This represents a fundamental shift for the telecom industry — from connectivity management to connectivity execution.

[View the video: https://youtu.be/bZ5R2WUEHQc](https://youtu.be/bZ5R2WUEHQc)

About Able Device

Able Device is a software company pioneering a new control point in telecom architecture — the identity layer. Through its SIMbae™ technology, a software-based SIM applet deployed within the SIM/eSIM secure element, Able Device transforms the SIM into a deterministic execution layer for connectivity, security, and automation policies. Working alongside AI-driven analytics and policy systems, SIMbae ensures decisions are enforced consistently across devices, networks, and geographies — enabling more reliable, secure, and autonomous mobile and IoT connectivity.

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