

VerifiedKnock: Executive Summary

The Problem: Uniforms Do Not Equal Verification

In an era of sophisticated impersonation and rising home security threats, the traditional reliance on uniforms and badges is obsolete. Video doorbells provide notification but lack validation—they tell you someone is there, but not who they truly are.

The Solution: VerifiedKnock

VerifiedKnock is a hardware-enforced, pre-arrival authentication system. It shifts the paradigm from “Who is it?” to “Proof Provided.” By cryptographically verifying authority, identity, and location in real-time, we create a seamless triangular trust relationship between the Organization, the Visitor, and the Resident.

Core Technology: The 9-Step Trust Chain

Our patent-pending technology relies on nine interdependent verification conditions. Omission of any single condition causes a complete cryptographic failure, ensuring zero-trust security.

- 1. Authoritative Credential Validation**
- 2. Independent Time Validity**
- 3. Cryptographic Address Binding**
- 4. Visitor Identity & Device Attestation**
- 5. Rotating Session Token**
- 6. Trusted Hardware Location**
- 7. Physical Proximity Concurrence (UWB/NFC)**
- 8. Interactive Visual Confirmation**

9. Contemporaneous Resident Action

Go-to-Market Strategy: The Hybrid Model

To maximize adoption while ensuring high security, VerifiedKnock employs a two-tier deployment strategy:

Phase 1: Software-First MVP (Phone-as-Anchor)

- **Target:** Rapid pilot programs (Police, Utilities) and rental markets.
- **Mechanism:** The resident's smartphone acts as the verification anchor using built-in UWB or NFC.
- **Advantage:** Zero hardware manufacturing costs, immediate scalability, and low barrier to entry.

Phase 2: Hardware-Enforced Security (Door Anchor)

- **Target:** High-value assets, government facilities, and premium residential.
- **Mechanism:** A dedicated, always-on hardware device (puck or smart lock integration) serves as the anchor.
- **Advantage:** Eliminates reliance on resident phone battery/presence and provides "Gold Standard" security.

Strategic Value

- **For Residents:** Peace of mind before the knock.
 - **For Agencies:** verifiable audit trails and officer safety.
 - **For Partners:** A licensing opportunity for smart lock and doorbell manufacturers to "VerifiedKnock-enable" their devices.
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