

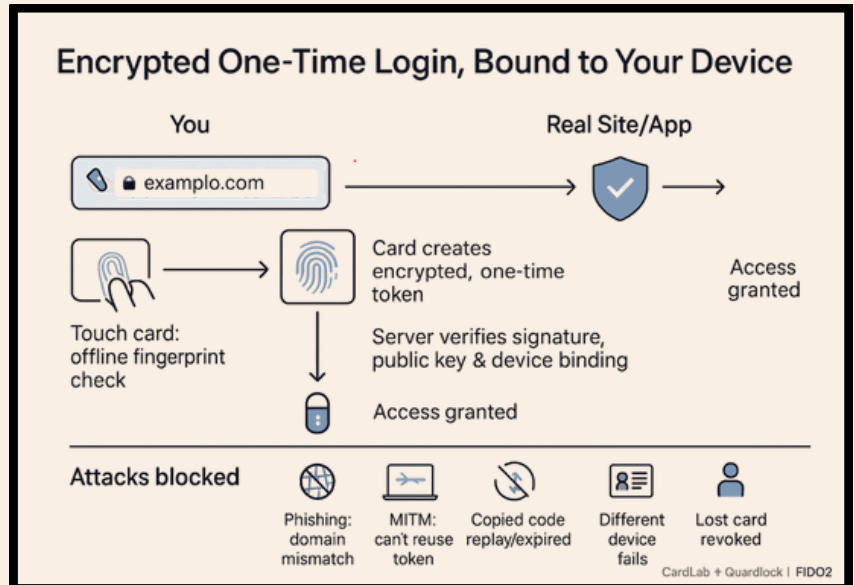
No passwords. No SMS codes. No biometrics stored in the cloud

PROBLEMS WE FIX

- Passwords and SMS codes can be captured on a fake login page and reused.
- Lost and shared ID cards let the wrong person in.
- People not on-site are harder to set up securely and harder to switch off when they leave..
- Weak audit trails that make it hard to prove who did what.

HOW IT WORKS

1. Touch the scanner on the CardLab card: your fingerprint is verified offline on the card itself.
2. The card creates an encrypted, one-time token that is bound to that card/device and the exact site, app, or door.
3. The Guardlock backend verifies the code (using the card's public key) and logs the action to your systems.



WHY IT'S SAFER

- Device and domain binding: A copied code won't work on another device or website.
- Encryption and digital signatures: Codes cannot be altered or forged.
- No shared secrets: private keys remain private, never leaving the card.
- Nothing to copy and use again: each code is valid once, then it's void.
- Biometrics stay on the card: Your fingerprint data never leaves the device.
- Standards based: industry certified for passwordless logins.

WHAT YOU GET

- One card for doors, systems, and web apps – works with what you already have.
- Trust that the real person is present at every login and entry.
- Fast, central control: grant, change, or revoke access from one place.
- Clear audits: every action tied to a verified user.
- Lower helpdesk load: no resets no app-hopping for codes; quick, consistent sign-in.

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USE CASES

Military and Defence

Protecting Digital Infrastructure

Defence facilities, command centres, and all critical infrastructure require uncompromising security. CardLab Defender cards with offline biometric verification and identity tokenization ensure only verified personnel can gain access.

The solution works with existing infrastructure for facility access, weapon systems, and command networks, based on zero-trust principles and ability to operate in air-gapped environments.



Biometric Hard Wallet

CardLab Access and Defender cards with on card fingerprint sensors protects private keys for digital digital transactions, making it an ideal platform for the EU Digital Identity Wallet. CardLab "biometric Authentication as a Service" provides blockchain regulatory compliance for AML and KYC.



FIDO Secure Sign-on

FIDO (Fast IDentity Online) certified product for secure, passwordless authentication eliminating the use of static passwords for online authentication. CardLab's solutions provide secure, passwordless login with accurate identity verification.



Healthcare Sector

Prevent impersonation, eliminate ghost identities, protect patient data, and control access to medicines, medical platforms and critical areas. CardLab solutions work with PCs, smartphones, door locks, and medical systems.



Remote Worker Access

Grant secure access using tokenization to facilities, servers, and applications. Enable SSO, track attendance, and meet compliance for distributed teams.



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