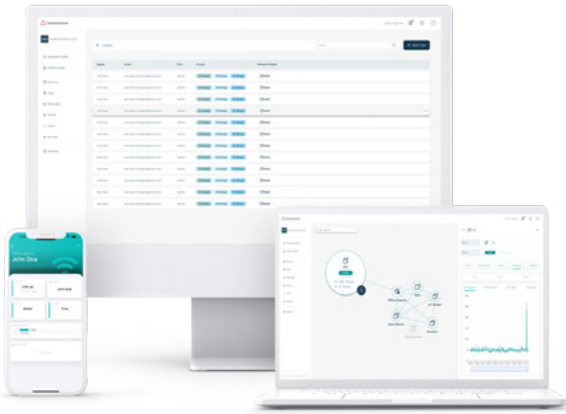


Connect Anything. Anywhere. With Ease.

Reach devices at any site. From first scan to full access in minutes.



Challenges We Address



Remote Access:

Devices in private networks are difficult to reach remotely from the public Internet.



Network Connectivity:

Connecting private or industrial networks securely over the Internet remains cumbersome and error prone.

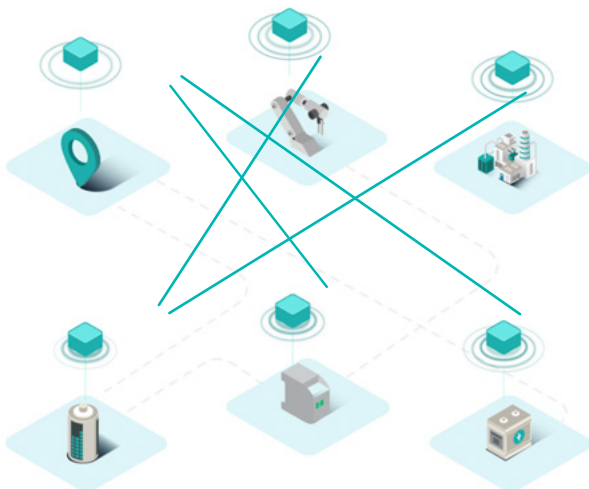


VPN Tradeoffs:

As a result, many rely on VPNs, but these traditionally come with their own tradeoffs:

- Self-hosted VPNs entail high setup and maintenance cost.
- Cloud VPNs are inherently trust based: key material often passes through the provider, creating a security risk and dependency on operator integrity.

Our Approach



- SwarmGuard is a secure connectivity technology that links devices across networks — private, public, or hybrid — without complex configuration.
- It also enables selective, secure remote access to devices and networks in any environment, even behind firewalls or inside industrial networks, all without reconfiguring existing infrastructure.
- SwarmGuard runs on almost any platform — from industrial controllers and routers to Linux-based SoCs, as well as Windows and macOS desktops.
- Getting started is effortless: simply scan a QR code to onboard a device.
- The SwarmGuard Management Portal then gives you centralized visibility and control for network management and monitoring.



Simplicity

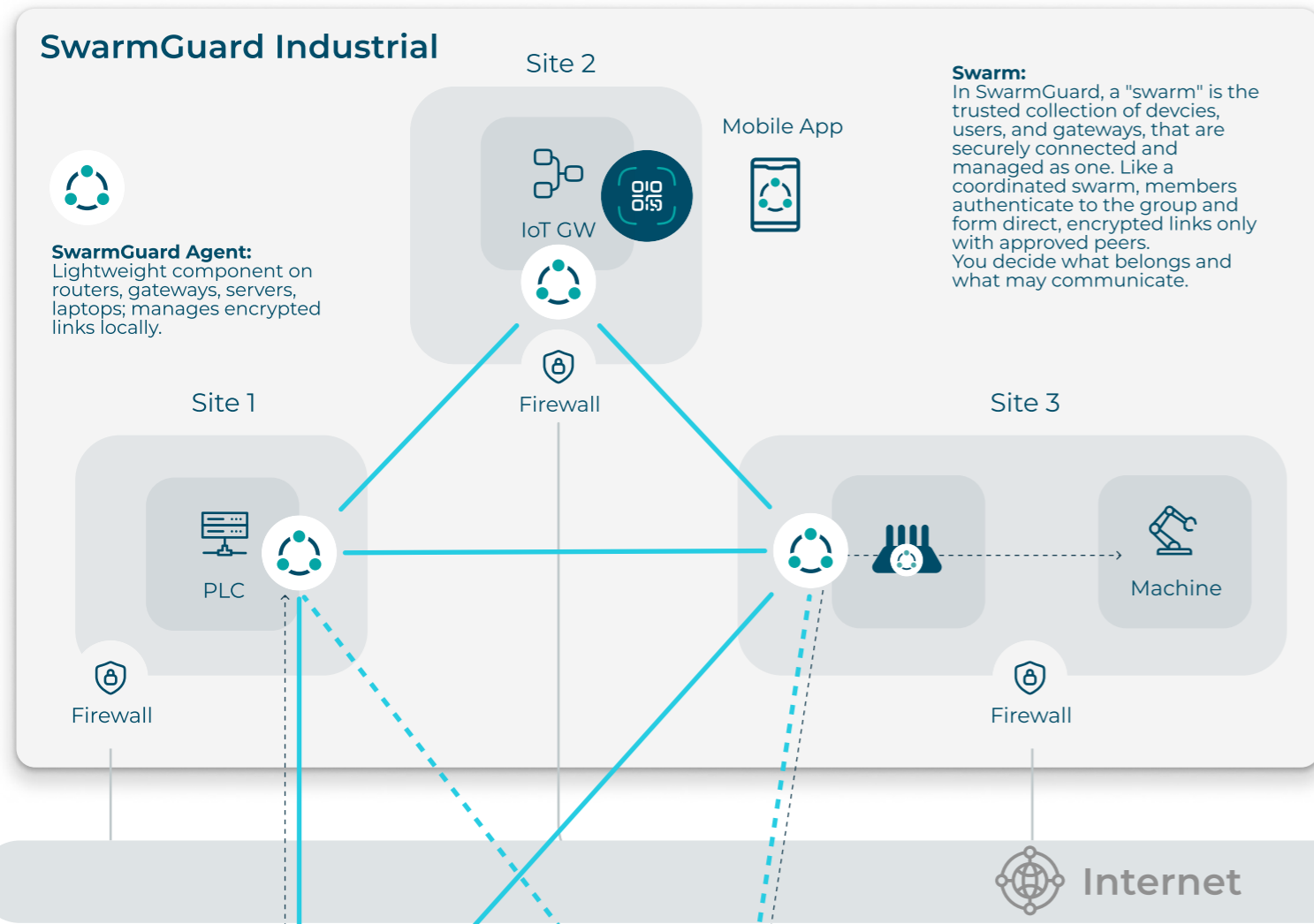


Security



Control

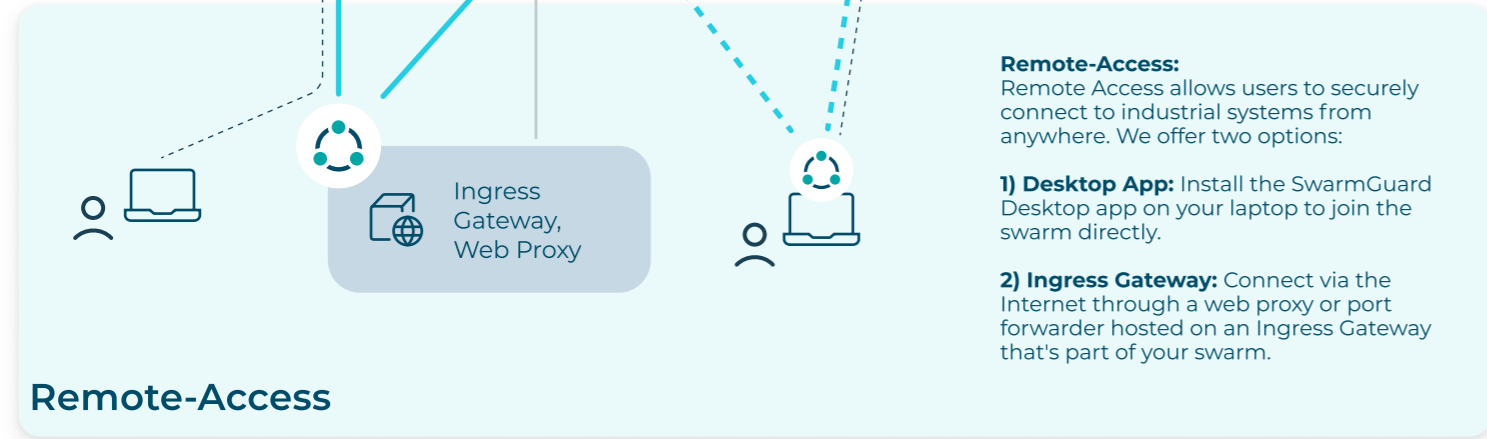
SwarmGuard Industrial



SwarmGuard Agent:
Lightweight component on routers, gateways, servers, laptops; manages encrypted links locally.

Swarm:
In SwarmGuard, a "swarm" is the trusted collection of devices, users, and gateways, that are securely connected and managed as one. Like a coordinated swarm, members authenticate to the group and form direct, encrypted links only with approved peers. You decide what belongs and what may communicate.

Remote-Access



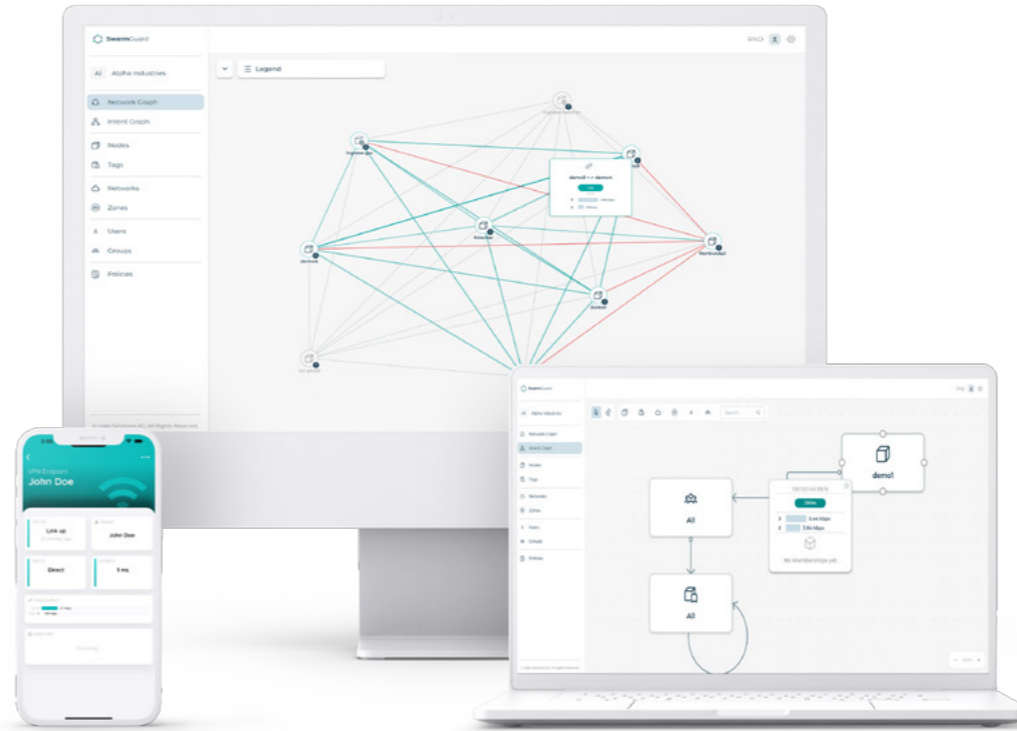
Remote-Access:
Remote Access allows users to securely connect to industrial systems from anywhere. We offer two options:

- 1) Desktop App:** Install the SwarmGuard Desktop app on your laptop to join the swarm directly.
- 2) Ingress Gateway:** Connect via the Internet through a web proxy or port forwarder hosted on an Ingress Gateway that's part of your swarm.

WireGuard™:
SwarmGuard builds on WireGuard to make it even more powerful and easy to use. WireGuard is a modern VPN engine to protect traffic between peers. It combines strong, state-of-the-art cryptography with a lean design for speed and reliability. Because it's simple and efficient, connections start quickly and run near line rate, even for small devices.

DRAKE:
Distributed Reliable Asynchronous Key Exchange is Inalp's patent-pending algorithm to onboard devices and users into a swarm easily. By scanning a QR code, devices receive the identity and keys they need to connect, without pre-shared secrets or complex Public-Key Infrastructure (PKI). Onboarding is quick, repeatable, and auditable.

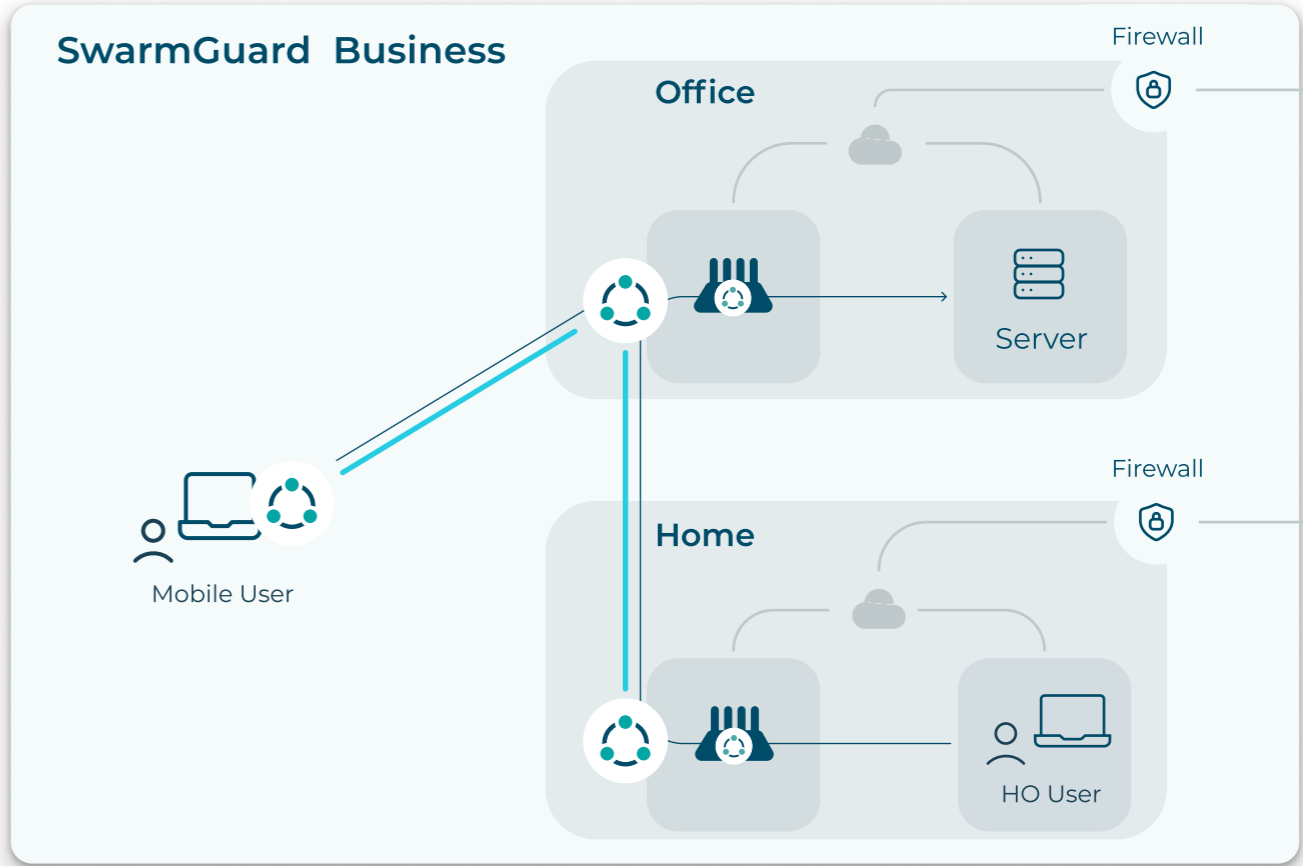
*WireGuard is a registered trademark of Jason A. Donenfeld.



Management Portal (Controller):
Provides the control plane for inventory, monitoring, and policy management. It is hosted by Inalp by default but can also be deployed on-premise. The portal operates outside the data path.

Multi-Level Security
Layered defenses mean compromising a single part doesn't grant access. Keys are encrypted at rest in the Management Portal (Controller), so neither attackers nor operators can use them to reach your swarm.

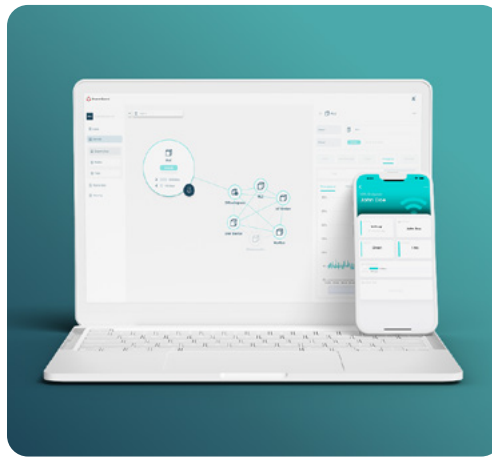
SwarmGuard Business





SwarmGuard BUSINESS

Set up secure access to office networks, printers, and apps in minutes — no VPN logins or cloud dependency. Use the desktop app or a SwarmGuard Wi-Fi access point at home to work as if you were in the office network.



SwarmGuard INDUSTRIAL

Connect machines, PLCs, and industrial sites securely — without network changes or exposing OT systems. Available as lightweight software agent or container, and deployable on Inalp appliances or via major PLC-vendor software ecosystems such as Weidmüller u-OS, Hilscher OI4, and Bosch Rexroth ctrlX.



SwarmGuard REMOTE ACCESS

Give field engineers and service teams secure, time-limited access to remote sites with full visibility and policy control. Install Inalp's remote access server when SwarmGuard agents can't be installed, and manage all connections through the same portal.

Our Technology Stack

Separation of Concerns

- Turnkey or custom monitoring and management solutions.
- SIOT provides data models, storage, and APIs for building solutions.
- SwarmGuard secures transport, identity, and access between endpoints, sites, and users.

Customer Applications

Dashboards, analytics, condition monitoring, predictive maintenance, digital twins, AI/ML.

Inalp IoT Applications

Ready-to-use solutions like Power Monitor and Building Manager

Inalp SwarmGuard Applications

SwarmGuard Business
SwarmGuard Industrial

SIOT Data Layer

Ingestion, normalization, time-series storage, pub/sub, APIs

SwarmGuard Connectivity Layer

Encrypted overlay, key exchange, peer-to-peer tunnels, policy-based access

Existing Networks & Devices

IT/OT, Internet, cellular, sites, PLCs, HMIs, sensors, servers, laptops

Get Started

Explore deployment options for SwarmGuard Industrial.



See how to onboard devices in minutes, enforce least-privilege policies, and connect securely across sites, without changing your existing network perimeters.

Scan the QR code or visit <https://swarmguard.com/get-started> to get started.

INALP

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