

SwarmGuard Industrial

Secure Connectivity and Remote Access

SwarmGuard Industrial redefines industrial communication by providing secure and trusted connectivity and remote access to any device and application from anywhere in the world.

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/ Key Features



Access Anything from Anywhere

Securely connect your devices, applications and networks even if your infrastructure is behind NAT or firewall barriers.



Maximum Security

Your data is end-to-end encrypted and secured with cutting-edge cryptographic algorithms and our patent pending unique key distribution method.



Cloud Independent Ingress Gateway

By converting any of your devices into an Ingress Gateway you retain control over your infrastructure, avoiding a centralized cloud solution.



Easy Setup and Operation

Onboarding devices is as easy as scanning their QR code with our mobile app. All the intricate tasks are automatically handled.



Maximum Availability

Convert multiple devices into Ingress Gateways to establish a redundant access network for your swarm.



Scalable as Required

Customize the swarm to fit your needs by adding devices to your overlay network at any time.

/ Security



Key Distribution (patent pending):

DRAKE (Distributed, Reliable, Asynchronous Key-Exchange) guarantees that no third party can infiltrate your swarm and access sensitive data.



WireGuard®¹ Security Protocol:

One of the most secure VPN protocols available today that provides fast, reliable, and robust end-to-end encryption.



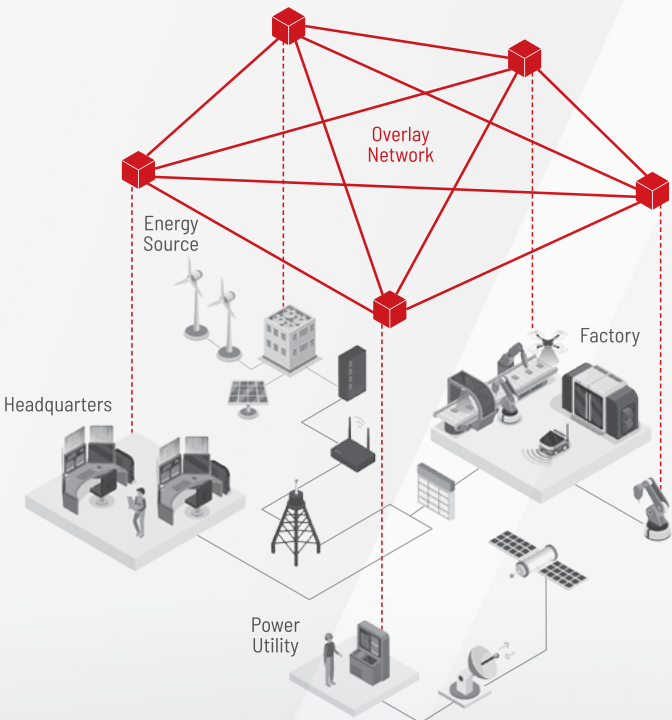
Multilevel Security:

Our multi-layered protection concept ensures that a single successful attack is not sufficient to break through the swarm's defences.

Connectivity

Effortlessly connect your industrial devices even behind firewalls and NATs.

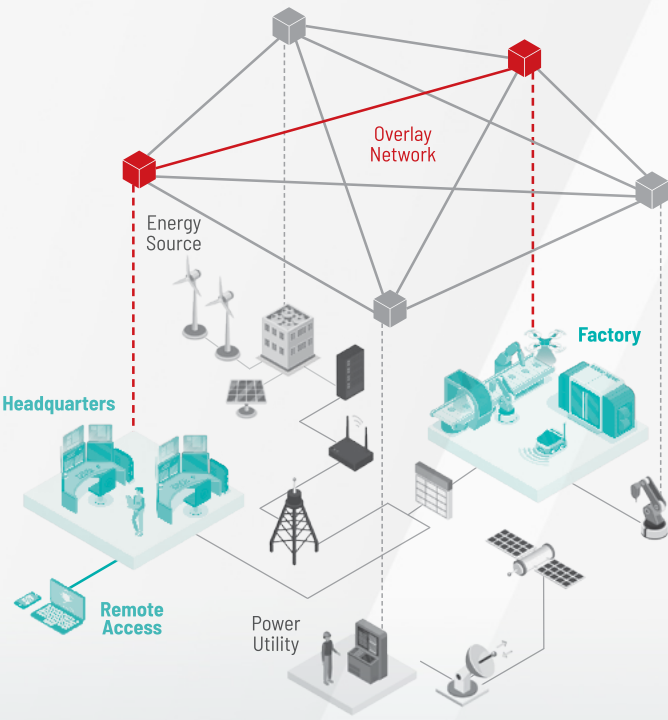
- connect devices and networks across the world
- ensure secure and trusted communication
- enable centralized management and enhanced control



Remote Access

Monitor, maintain, and troubleshoot your systems securely from anywhere with SwarmGuard's Ingress Gateway.

- **Web-proxy²:** access devices via web or REST interface
- **SSH-proxy²:** secure CLI access for technical personnel
- **Layer-4 Gateway:** communicate using various protocols
- **Direct link²:** direct channel from a remote console to devices

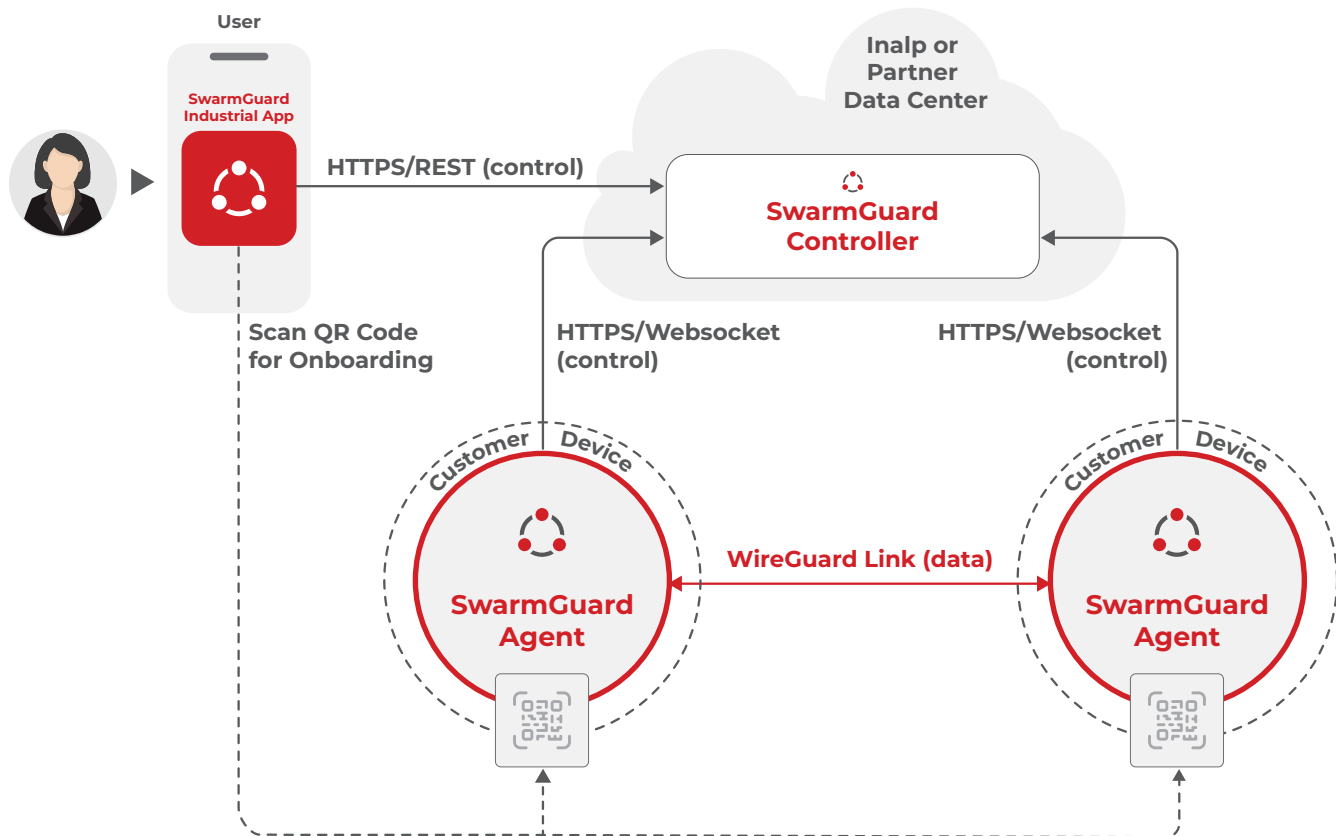


¹ WireGuard is a registered trademark of Jason A. Donenfeld.

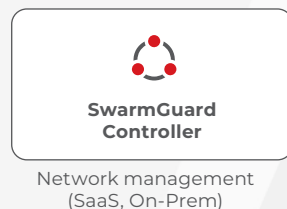
² Roadmap feature

³ Ask for more

/ System Architecture



/ Core Elements



/ Specifications

Supported operating systems	Linux, Windows ² , Mac OS ²
Compatible CPUs	ARM64, ARMv7, AMD64, MIPS64, MIPS ³
Disk space requirement	25 MB
Platform	Runs as native OS application or within containers on platforms like Docker, Kubernetes, etc.

SwarmGuard Agent (swarmd)

Kubernetes		
Docker	dpkg/opkg/apk	
Linux	Mac	Win

/ Easy Setup

1. Sign up

for free at <https://swarmguard.io/sign-up>

2. Download the app

from Google Play Store or Apple App Store

3. Install SwarmGuard Agent

on your device or use a pre-equipped device

4. Register your device

by scanning a QR code with the mobile app

5. Repeat

step 4 to grow your swarm

Setup Guide



swarmguard.com/industrial/setup