# Design and Build Secure IoT Devices at Scale.

Keyfactor Control enables manufacturers to design, deliver and maintain the most trusted connected devices on the market.

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## Secure any device, anywhere

Tight budgets, hardware constraints and complex IoT supply chains make it hard to build strong security into devices at scale. But when safety and security are at stake – it has to happen. With Keyfactor Control, device manufacturers can easily and cost-effectively embed identity into their connected devices at any scale.

**2 of the Top 3**
Medical device innovators

**1 of the Top 2**
Automotive manufacturers

**#1**
Oil and gas services

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## Key Benefits

### Ensure device safety, security, and privacy

Securely design, provision, and update connected devices to prevent warranty recalls and protect against threats.

### Comply with cyber-security requirements

Implement identity by design to comply with regulatory standards and cybersecurity mandates.

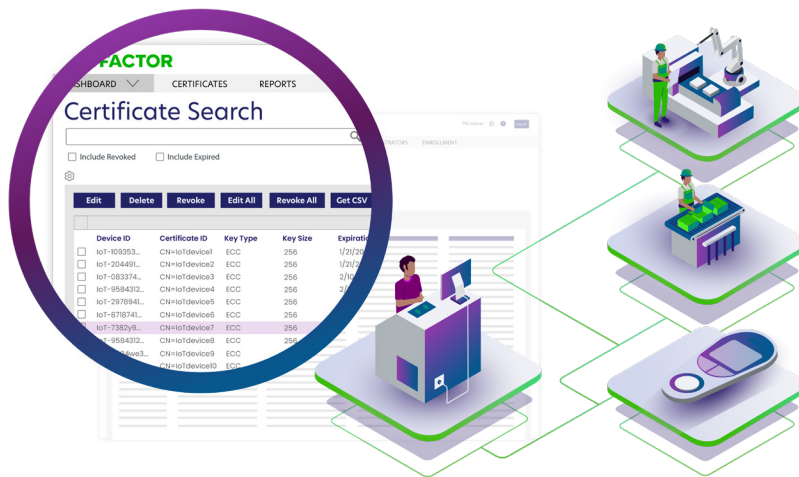### Reduce costs and deliver products faster

Reduce the cost, effort, and complexity of implementing security with end-to-end IoT identity lifecycle automation.

# Key Features

## Provision unique identities for millions of devices

Embed keys and certificates into devices at any stage in the manufacturing process — from initial device provisioning to enrollment in the field. Use a flexible C or Java agent to enable on-device key generation (ODKG), encryption, and signature verification.



## Secure firmware signing and over-the-air updates

Protect against malicious updates by ensuring that only trusted and authorized code runs on your devices. Secure the firmware signing and delivery process with policy-driven workflows, centralized signing tools, and built-in HSM key protection.

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## KEYFACTOR

### HOW IT WORKS

**Identify**
Embed unique identity and authentication into each and every device.

**Protect**
Protect data-at-rest and in-transit between devices, apps, and cloud platforms.

**Verify**
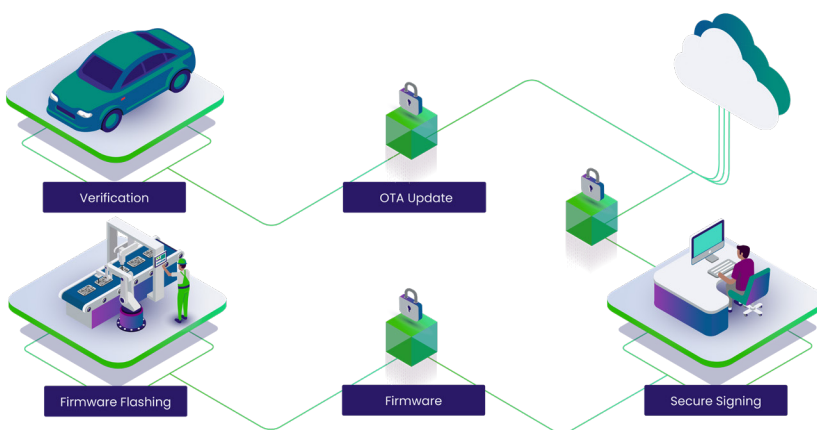Ensure device integrity with secure boot, firmware signing, and verification.

**Control**
Issue and manage keys, certificates, and trust stores across your device fleet.

KEYFACTOR

## Assure device integrity with secure boot and encryption

Verify device identity and firmware by integrating with trusted platform modules (TPM), secure elements and embedded cryptographic engines. Implement encrypted TLS or IP VPN communications and encryption of data-at-rest.

## Automate PKI and the IoT identity lifecycle

Rapidly issue, provision, renew, and revoke certificates and keys throughout the device lifecycle from one platform. Integrate with your on-premise PKI or leverage a fully managed, dedicated, and high-assurance PKI from Keyfactor.

"We recently had to do a bulk revocation for an end-of-life product line that covered hundreds of thousands of certificates. Previously, it would've taken an admin a year to do it manually, but with Keyfactor, we revoked everything within 10 minutes."

Medical Device Manufacturer

"At this processing rate, it was estimated that the replacement for a typical two tier PKI (two chain certificates plus the end entity certificate) would operate at two million vehicles per-hour"

Automotive Manufacturer

## Integrate with complex IoT supply chains

Keyfactor Control integrates with various trust models, chipsets, operating systems, crypto-libraries, and manufacturing systems — even for devices manufactured in untrusted facilities or with unreliable connectivity.

wolfSSL

Azure

THALES

thingworx

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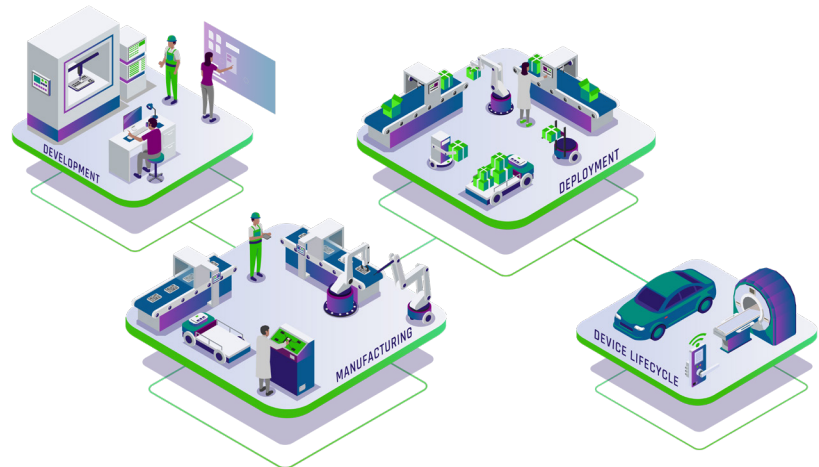
## Why Keyfactor

### Any device, anywhere

Supports secure updates even in untrusted, unreliable and offline environments.

### Faster deployment

No expensive hardware, no PKI to build and maintain — leverage a trusted, dedicated PKI.

### Flexible and scalable

Proven in use cases with 200 million+ devices and high-volume issuance.

### End-to-end platform

Identity issuance, firmware signing, key and certificate management in one solution.

### Ecosystem ready

Every IoT deployment is different. Our IoT SDK and API framework are highly flexible.

### Experts in PKI

We work with you to design a security architecture that meets your needs.

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## Ready to talk?

See how we deliver real-world results for leading manufacturers.

**REQUEST DEMO**