

Sectigo IoT Use Case: On-Premise or Cloud-Based Private PKI for Manufacturing

In order to enable secure authentication and prevent counterfeiting, OEMs and manufacturers must add certificates to their IoT devices and security chips at the assembly line. But a general-purpose Certificate Authority (CA) cannot issue certificate keys directly on devices or easily encode individual product serial numbers into those certificates. Instead, manufacturers need a purpose-built certificate issuance process that is:

- **Automated**, in a way that generates keys and serial numbers in the secure elements of individual devices
- **High-speed**, independent of an internet connection and without delays caused by routing packets from a cloud CA
- **Scalable**, for use on a single production line to use in multiple factories around the world with many production lines in each facility

Sectigo can help. Our Private PKI for Manufacturing is a purpose-built Public Key Infrastructure (PKI) solution that enables organizations to automatically issue and manage private certificates for all devices in the factory and across the enterprise. Sectigo's Private PKI for Manufacturing provides OEMs and manufacturers of IoT devices with the flexibility to use cloud-based, on-premise, or hybrid cloud/on-prem approaches for issuing and managing their private certificates at scale. It enables rapid deployments that don't rely on internet connections for continuous high-speed manufacturing and can take advantage of off-the-shelf hardware and cryptographic modules for protection of private signing keys. Moreover, Sectigo Private PKI for Manufacturing is interoperable with all leading devices, operating systems, protocols, and chipsets and provides visibility and management through a single pane of glass, enabling security administrators to easily and cost-effectively monitor certificates across the enterprise.

Leveraging Sectigo Private PKI for Manufacturing will enable your security team to benefit from:

- **Automated certificate deployment.** Sectigo offers a variety of automation options to fit your specific workflow and environment, including automation standards like SCEP (Simple Certificate Enrollment Protocol) and EST (Enrollment over Secure Transport).
- **Scalable certificate issuance.** Sectigo Private PKI for Manufacturing issues certificates automatically, making it easy to use PKI to ensure security for your devices, whether you're making hundreds, thousands, or millions of them.
- **Full certificate lifecycle management.** With Sectigo Private PKI for Manufacturing, certificates are automatically renewed and replaced, so users can enjoy seamless device access. You can also easily revoke certificates, terminating access as needed.

- **Secure key storage.** Sectigo Private PKI for Manufacturing stores certificates on devices using the secure Trusted Platform Module (TPM) or a Hardware Security Module (HSM).
- **Counterfeiting prevention.** Sectigo Private PKI for Manufacturing allows you to easily encode individual product serial numbers into device certificates.
- **Enhanced visibility and reporting.** Sectigo Private PKI for Manufacturing lets you view the status of the certificates in use through a single pane of glass, so you can see expiration dates and minimize or eliminate service disruptions.

With Sectigo Private PKI for Manufacturing, your security team can easily enforce cryptographic security, prevent data loss via unauthorized access, and future-proof your IoT devices and chips.

Sectigo also offers Sectigo Certificate Manager, which that can automate certificate issuance and lifecycle management across a wide variety of other use cases throughout the enterprise, including mobile devices, web servers, DevOps, Private S/MIME, VPN access, network devices, and more. Choosing a partner with Sectigo's experience, scale, and commitment to security gives you peace of mind, so you can stop worrying about adding security to your IoT devices and instead concentrate on what you do best—running your business.

About Sectigo

Sectigo provides purpose-built, automated PKI solutions that secure websites, connected devices, applications, and digital identities. As the largest commercial Certificate Authority trusted by enterprises globally for more than 20 years, and more than 100 million SSL certificates issued in over 200 countries, Sectigo has the proven performance and experience to meet the growing needs of securing today's digital landscape. For more information, visit www.sectigo.com.