

IoT Identity Platform



Manage IoT Device Identity Lifecycle Management
Secure device identities with a purpose-built, PKI-based Platform
Integrate a scalable, flexible and interoperable cloud service

Device Identity Lifecycle Management

Like IoT devices, IoT device identities have lifecycles all their own. To securely build and grow an IoT ecosystem, the proper tools and architectures are needed to identify, control and manage each IoT device id. Managing a device identity throughout its lifecycle is critical to maintaining IoT security, no matter where or when the device is put into service.

With a unique, strong device identity, things can authenticate when they come online and ensure secure and encrypted communication between other devices, services and users. Provisioning digital certificates for IoT devices, endpoints, components or chips provides the needed credentials to protect the entire IoT ecosystem from chip to cloud through authentication, authorization and encryption.



Purpose-built and PKI-based for exceptional security

The IoT Identity Platform is a device identity platform designed and built for the demanding and evolving specifications of the IoT. It protects IoT devices, data and communications from chip to cloud.

As a Public Key Infrastructure (PKI)-based structure, it delivers exceptional encrypted security, and is backed by secure digital certificates issued from our trusted, cloud-based GlobalSign Certificate Authority (CA). By leveraging standards-based PKI to authenticate and establish trust between devices and services (ie cloud platforms), we ensure the integrity, source and encryption of all data transmitted within an ecosystem.

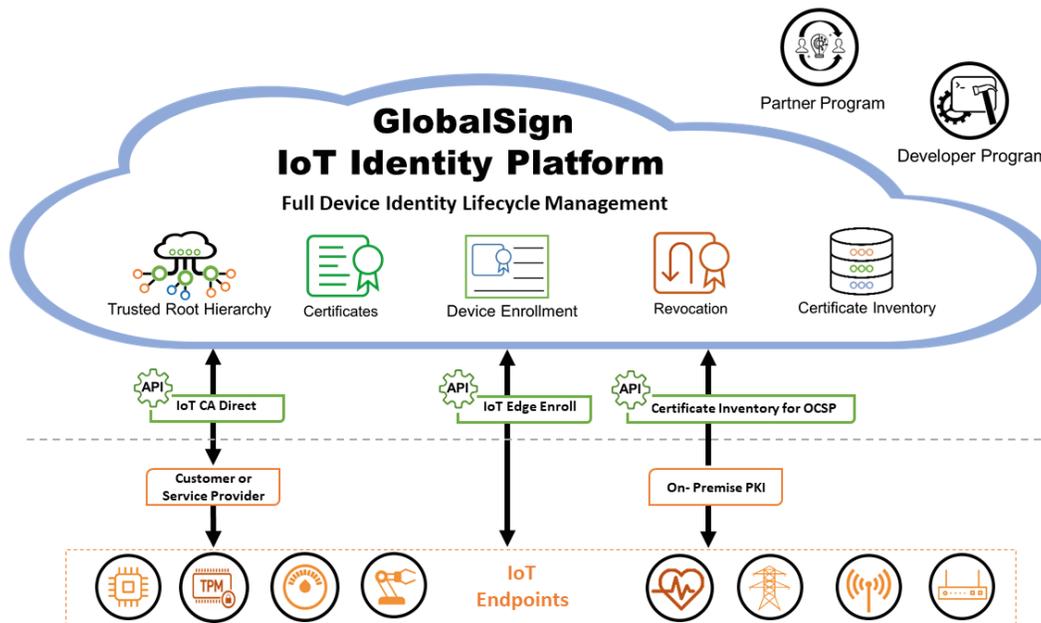
BENEFITS

Device Identity Lifecycle Management

- Encourages security by design best practices
- Provisions digital identities before, during or after device deployment
- Accelerates automated provisioning (auto enrollment)
- Secures over the air (OTA) updates
- Facilitates renewals and ownership transfers
- Enables revocation services, end of life decommissioning or repurposing
- Provides certificate database reporting for compliance and auditing

IoT Identity Platform

- PKI-based for exceptional security (ECC or RSA cryptographic algorithms)
- Secures IoT devices, data and communications from chip to cloud
- Trusted CA infrastructure (FIPS compliant, WebTrust audited)
- Scales quickly - up to 3,000 certs/second
- Flexible trusted root hierarchy models
- Multiple registration / integration options with RESTful APIs
- Revocation services
- Accommodates all certificate types and validities
- Interoperable with most device management platforms (AWS IoT, Azure IoT Hub)
- Ideal for all market verticals and gateways



Flexible. Scalable. Interoperable.

We protect device identities, data and communication at rest or in motion. It's an ideal fit for all IoT and IIoT applications in virtually any market vertical or IoT Gateway.

Our global cloud CA infrastructure delivers high scalability, capable of issuing more than 3,000 certificates per second and millions of certificates per day. It handles the high volume and throughput needed to accommodate the current and expected connected device explosion. Flexibility is built into every option or feature at every level.

- Decide on your necessary level of trust from our trusted root hierarchy models
- Determine the level of registration management with either our IoT Edge Enroll or IoT CA Direct
- Select the revocation services needed – CRL, OCSP or both
- Choose the certificate type and validity
- Customize pricing based on anticipated certificate consumption

Interoperability with IoT devices, networks, gateways and platforms is increasingly critical to IoT success. Our clear advantage that continues expand to meet newly developed platforms and newly solidified industries standards.

Connect any device or endpoint configuration using EST, enrollment protocols, and HTTP communication protocols. Download our Azure IoT Hub developer integration guide or Infineon device identity blueprint, or join our Developer Program to access integration client libraries, SDKs, and other tools that facilitate and accelerate integrations.

Facilitate integration. Connect to our IoT Identity Platform with one of our RESTful APIs

- IoT Edge Enroll – a full-featured device registration authority (RA) to manage device enrollment
- IoT CA Direct – a device identity issuing engine that connects with your in-house RA and our CA
- Hosted OCSP – Manages certificate revocation of certificates issued from your in-house PKI



About GlobalSign

GlobalSign is the leading provider of trusted identity and security solutions enabling businesses, large enterprises, cloud service providers and IoT innovators around the world to secure online communications, manage millions of verified digital identities and automate authentication and encryption. Its high-scale Public Key Infrastructure (PKI) and identity solutions support the billions of services, devices, people and things comprising the Internet of Everything (IoE).

US: +1 877 775 4562
 UK: +44 1622 766766
 EU: +32 16 89 19 00

sales@globalsign.com
www.globalsign.com

