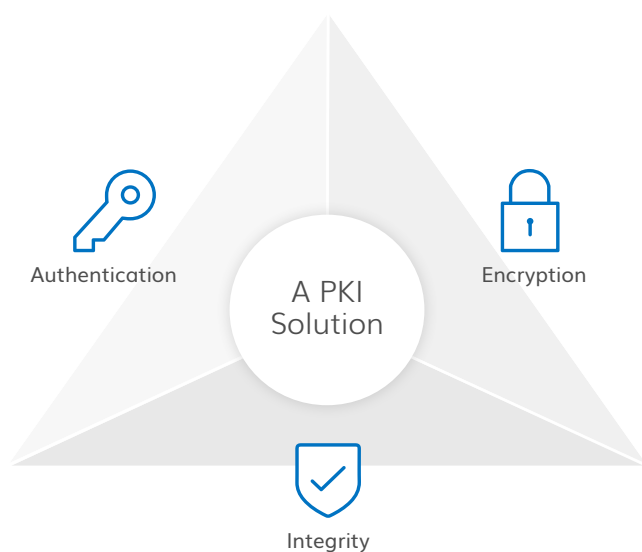**digicert**®

The IoT Security Challenge

Gartner predicts there will be 25 billion connected devices by 2020. This is an unprecedented number of smart devices—exceeding the number of cellphones and computers in the world today—which will enable new efficiencies, communication methods, and modes of commerce. New technologies also mean new threats to data security, users, and enterprises.

DigiCert's IoT Public Key Infrastructure (PKI) platform is a proven comprehensive solution purpose-built for IoT efficiency, automation, and high performance. DigiCert provides management capabilities and data security protection for smart devices, industrial sensors, manufacturing systems, and healthcare devices.

The DigiCert PKI uses three critical security components to ensure connected devices are secure and users are safe.

Authentication

Digital certificates are used to verify identity, ensure only trusted devices can connect, and authenticate messages sent back and forth.

Encryption

Digital certificates encrypt data in transit and protect the information communicated between systems, users, and devices from eavesdropping.

Integrity

Digital certificates act as an integrity control when used to sign software, firmware, or configuration settings to prohibit tampering.

How PKI Solves IoT Security Challenges

Authentication

A PKI Solution

Encryption

Integrity

What types of devices can be secured with PKI?

A PKI deployment strategy can be developed for any type of IoT environment. In today's world of internet-connected devices, there are numerous systems that need to be secured:

- SCADA
- Servers
- Home security systems
- Wearables and fitness devices
- Industrial and automated manufacturing equipment
- Robotics
- Smart devices and home automation systems
- Wifi hotspots
- Medical devices and equipment

Why Choose DigiCert?

Simplified Certificate Management

From provisioning to renewals, the DigiCert certificate management platform lets you manage the certificate lifecycle for billions of IoT certificates in one place, and eliminates the headache of tracking certificate details in spreadsheets.

High-Volume and Automated Issuance

The DigiCert Cloud PKI service accommodates high-volume and automated issuance needed for the fast-growing IoT market. The Cloud PKI service is available via REST API, SCEP, or EST.

24/7 Support

DigiCert customers have access to our award-winning support team 24 hours a day, 7 days a week whenever you have questions or run into problems.

Decades of Experience

DigiCert PKI experts have a wide range of experience in architecting, developing, and implementing solutions for a variety of industries, deployment approaches, and unique security requirements.

About DigiCert

DigiCert is the world's premier provider of high assurance digital certificates. Since our founding almost fifteen years ago, we've been driven by the idea of finding a better way. A better way to provide authentication on the internet. A better way to tailor solutions to our customer's needs in SSL, PKI and IoT security.

We have earned our reputation as the security industry leader by building innovative solutions for SSL Certificate management and emerging markets.

- OCSP 8x times faster than other CAs
- Solutions for IoT, WiFi, healthcare
- Secures over 2 trillion transactions a year
- Innovator in managed PKI
- 5-star customer support
- Clients in more than 180 countries

Wondering how PKI can solve your specific challenges? Talk to one of our IoT experts by phone at 1.801.701.9696 or email iot@digicert.com.