

PKI for IoT:

Why Automated, Managed PKI-as-a-Service (PKIaaS) Is a Given

What is Public Key Infrastructure (PKI)?

Public key infrastructure (PKI) is a comprehensive set of roles, policies and procedures required to create, manage, distribute, use, store and revoke digital certificates and manage public key encryption. It is used for authenticating users and devices in the digital connected world.

What is the Internet of Things (IoT)?

The Internet of Things (IoT) is a system of internet-connected devices utilized for the purpose of connecting and exchanging data with other devices without human connection.

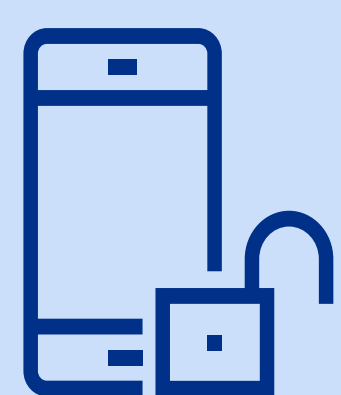
By **2025**—more than **75 billion** IoT devices will be connected to the web.¹



In the world of IoT devices, PKI offers various benefits.



A unique, verifiable identity for each device within the ecosystem



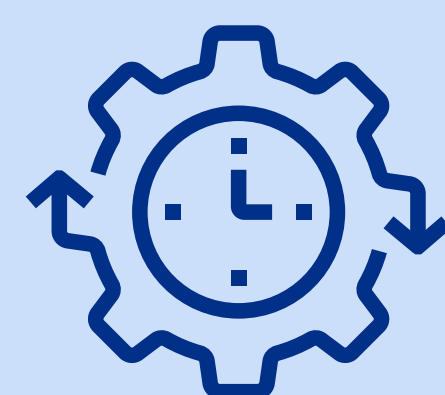
Passwordless authentication between devices and systems



Strong encryption for data in transit and at rest



Scalable, proven technology that's been used for decades to secure networks, devices and users



Automation of certificate provisioning and renewal to support millions or billions of IoT devices

The Challenges

IoT Ecosystem Complexity

The number and purpose of IoT devices continue to grow, making it more difficult to find one-size-fits-all security. Access is frequently unsecured and open to exploitation by bad actors.

PKI Infrastructure Complexity

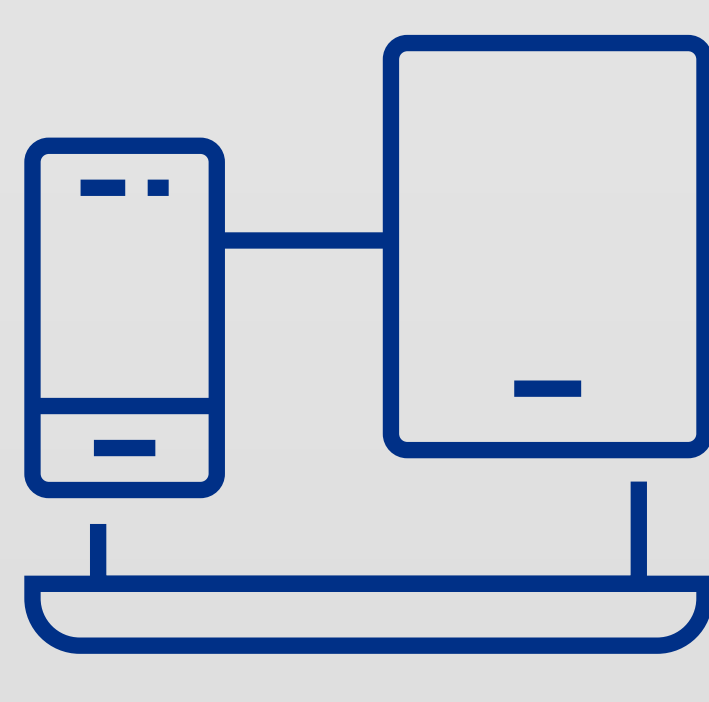
Planning PKI for IoT adds another layer of scalability and performance on top of regular business needs, so if not planned carefully, the infrastructure may need to be redeployed later, which can be expensive and time-consuming.

The Solution

Simplify PKI Operations With PKIaaS



Outsource the complexity and cost while maintaining control of trusted assets



Adapt and scale to evolving business needs



Leverage highly secure and audited technical facilities

Want to learn about to how to secure IoT devices with PKI-as-a-Service (PKIaaS)? **Download the eBook.**

Sources:

¹ <https://securitytoday.com/Articles/2020/01/13/The-IoT-Run-down-for-2020.aspx?Page=2>