NXP is a Product Attestation Authority (PAA) for Matter

NXP is one of the first semiconductor manufacturers to have been granted non-VID scoped PAA status by the Connectivity Standards Alliance (CSA), so we're able to issue Matter device attestation certificates for all device manufacturers.

Device attestation is an essential element of the Matter security model as it used for authenticating the device during commissioning. As such, all Matter devices are required to embed an attestation keypair and an X.509 certificate called Device Attestation Certificate (DAC). The DAC certificates are issued by trusted authority approved by CSA and called Product Attestation Authority (PAA). The Product Attestation Authorities must comply with technical and operational security requirements to enforce the security of the Matter ecosystem.

As one of the leading suppliers to the Internet of Things (IoT), NXP is issuing and maintaining device credentials for many years and has strong expertise in trust provisioning. Our EdgeLock 2GO service is a flexible, fully turnkey platform for securely provisioning IoT devices.

EdgeLock 2GO for Matter

The EdgeLock 2GO service is a flexible, cost-effective security platform that leverages our well-established security infrastructure and our extensive capabilities in hardware security.

Open

- Deliver Matter Device Attestation Certificates (DAC) for any vendor and any device type
- With increased benefits when used along with NXP hardware (secure injection of keys and certificates into silicon)
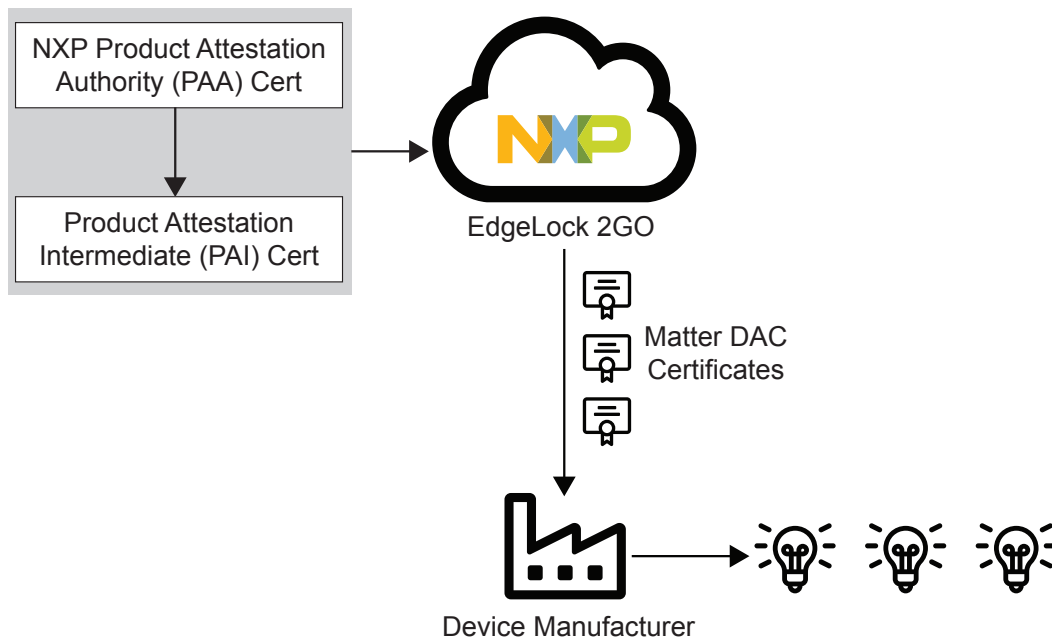
Secure

- Leverage NXP security infrastructure and know-how to offer a Matter-compliant PKI service to customers
- Leverage NXP hardware security capabilities for protecting device keys

Flexible

- Support multiple product configurations
- Support credential management for other use cases (such as secure cloud connection, firmware update, etc.)

Device Manufacturer

The EdgeLock 2GO service for Matter is a fully turnkey offering that includes everything from credential generation and device attestation certificate issuance to secure key injection. EdgeLock 2GO is operating a Product Attestation Authority (PAA) and can create Product Attestation Intermediate (PAI) certificates for each OEM project. A PAI certificate is then used to issue the Device Attestation Certificates (DAC) for the OEM individual devices. The EdgeLock 2GO service offers different options for provisioning the Matter Device Attestation Certificates (DAC)

• The Matter DAC certificates can be delivered over-the-air for any devices

• When used in conjunction with NXP hardware, such as MCU, MPU, EdgeLock secure elements or secure authenticators, NXP can securely inject the keys and certificates directly into silicon

With EdgeLock 2GO for Matter, there's no need to establish an in-house process for issuing and managing PKI certificates, and the development process gains the flexibility of being able to customize configurations, manage OTA updates, and scale to accommodate changes in demand.

www.nxp.com/EdgeLock2GO