

SECURE, FLEXIBLE IoT SERVICE PLATFORM

EdgeLock 2GO is NXP's service platform for provisioning and managing IoT devices. With EdgeLock 2GO you can install keys and certificates securely into your devices and maintain the credentials up to date during the device life-cycle. For high flexibility, EdgeLock 2GO provides different options for provisioning your devices at manufacturing or in the field. EdgeLock 2GO leverages the security capability of each device to offer an optimal level of security across your IoT fleet.

KEY FEATURES

- Highly flexible approach to IoT security
- Provisioning services for key and certificate injection at silicon manufacturing, device manufacturing or in the field
- Leverage hardware security capabilities for secure key injection
- Approved Product Attestation Authority for Matter device certificates

KEY BENEFITS

SECURITY

- Deliver end-to-end security from chip to cloud, based on a certified Trust Anchor
- Manage security independent of device manufacturing and supply chain
- Protect the entire device life-cycle, from day one of deployment

FLEXIBILITY

- Tailor the options for every type of IoT device roll-out
- Support every type of IoT device, from sensor to edge-computing platform

- Accelerate time to market with late-stage device configuration in the field

EASE OF USE

- Zero-touch onboarding of devices into the cloud
- Easy migration to different clouds during the lifetime of the device
- Easy management of large fleets of IoT devices

APPROVED FOR MATTER

- Approved Product Attestation Authority for Matter device attestation certificates
- Secure injection of device attestation keys into silicon
- Different options for delivery of device attestation certificates

THREE CONFIGURATIONS

Ready	<ul style="list-style-type: none"> • EdgeLock secure element and secure authenticator pre-provisioned with default keys and certificates • Device certificates available for download
Custom	<ul style="list-style-type: none"> • Custom provisioning of EdgeLock secure element and secure authenticator • Supports complex keys and certificates configurations • Device certificates available for download
Managed	<ul style="list-style-type: none"> • NXP cloud service for remote device provisioning and certificate issuance • Add, remove and revoke keys and certificates during the device life-cycle • Create new configurations and install credentials for new products at any time

EDGELOCK 2GO - READY

Ideally suited for simple use cases, such as device onboarding to public clouds, EdgeLock 2GO - Ready includes EdgeLock secure element and secure authenticator devices pre-configured with keys and certificates. All variants of the EdgeLock secure element and secure authenticator come with keypairs and certificates that can be used for registering the device into cloud infrastructures such as AWS IoT Core or Azure IoT Hub.

EDGELOCK 2GO - CUSTOM

NXP and its distribution partners use EdgeLock 2GO - Custom to create custom EdgeLock secure element and secure authenticator ICs to support complex configurations. Each configuration can be fully customized and can contain as many keys, certificates, data formats, and algorithms as needed.

Key pairs	<ul style="list-style-type: none">• Device-unique or static• RSA 1024 to 4096 bit• ECC keys for the following curves:<ul style="list-style-type: none">– ECC NIST (192 to 521 bit)– Brainpool (160 to 512 bit)– Twisted Edwards Ed25519– Montgomery Curve25519– Koblitz (192 to 256 bit)– Barreto-Naehrig Curve (256 bit)
X.509 certificates	<ul style="list-style-type: none">• Generated for each key pair• Customizable fields• Signed by customer-specific sub-CA• NXP Root CA or customer-selected Root CA
Secret keys	<ul style="list-style-type: none">• AES 128, 192, 256 bit• DES 56, 112, 168 bit
Public key or certificate intake	<ul style="list-style-type: none">• Import server certificates,• SW verification keys, and other existing keys/certificates
Generic data intake	<ul style="list-style-type: none">• Import plain binary data, such as hashes of host SW, device configuration data, license ID, etc.

EDGELOCK 2GO - MANAGED

Let NXP provision your devices remotely with this cloud operated service. You configure the credentials you want to install on your devices, using our EdgeLock 2GO web portal, and we take care of everything else. We create the necessary device keys and certificates using your existing certificate authority or an NXP-provided certificate authority and we provision the credentials into your devices at manufacturing or in the field. It's the zero-touch way to deploy with end-to-end security, from chip to cloud. EdgeLock 2GO - Managed supports various types of credentials and is also compliant with Matter.

EVALUATION KIT

A comprehensive evaluation kit for EdgeLock 2GO - Managed is available and includes a development board with software and documentation plus an account on the EdgeLock 2GO portal.

