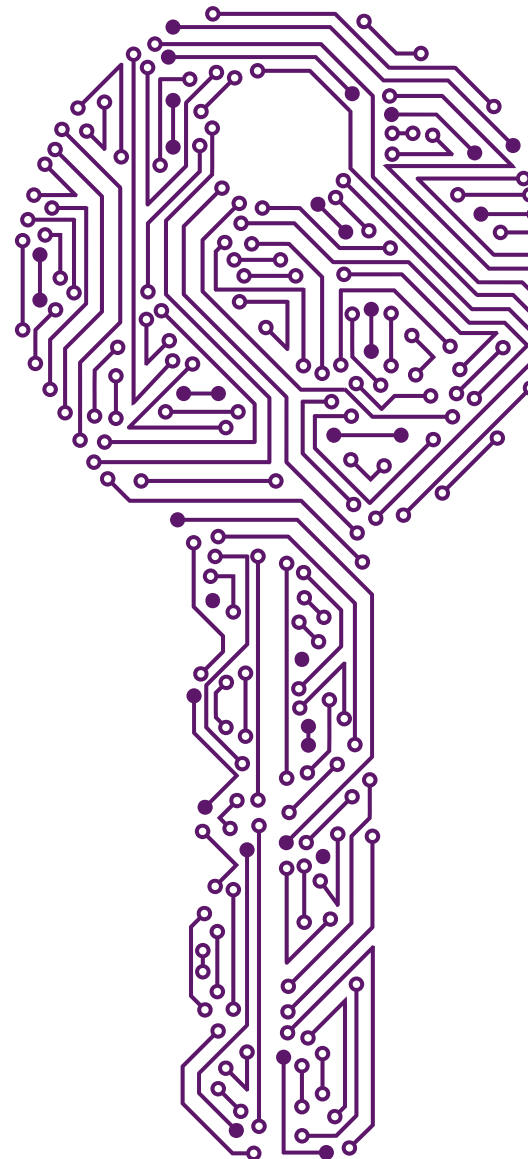**ir.deto**

Building a Secure Future.™

IRDETO KEYS & CREDENTIALS

Giving OEMs full control in a complex environment

As the embedded world becomes more connected, more opportunities open up for OEMs to introduce innovative new features that may have been difficult or impossible to do in the past. At the same time, being able to easily update and add new features to devices deployed in the field, in a fully trusted way, is both a challenge and a great opportunity to add value in this fiercely competitive industry.

Irdeto Keys & Credentials, a component of Irdeto's product family, is a managed security service that puts OEMs in control by enabling them to establish a hardware-based root of trust in the module, and own and provision keys on devices in the field. With specialized expertise, high throughput key generation capabilities and industry best practices for operational security, Irdeto is an independent Trust Authority that can bring trust to complicated embedded devices. Irdeto Keys & Credentials helps OEMS with the following critical functions:

- Customization of key packages tailored to hardware models.
- Apply industry best practices for key management.
- Factory and field key provisioning of ECUs.
- Security engineering (cryptography, X.509 PKI design, evaluations, etc.).
- Certified security professionals at operations (CISSP, CISA, etc.).

Irdeto Keys & Credentials ensures that OEMs maintain ownership and control over all crucial security assets while offloading the complexity of managing the various security processes and workflows. Irdeto experts manage the full lifecycle of key and security assets as well as interfacing with the associated ecosystem of suppliers.

As part of the service, Irdeto integrates the OEM's security asset management system into the workflows of SoC suppliers and OEMs to ensure the secure generation, provisioning, revocation and renewal of all operator-owned and third-party supplied security keys and certificates. Irdeto also performs the monitoring and reporting required to track the performance of all processes across the supply chain.
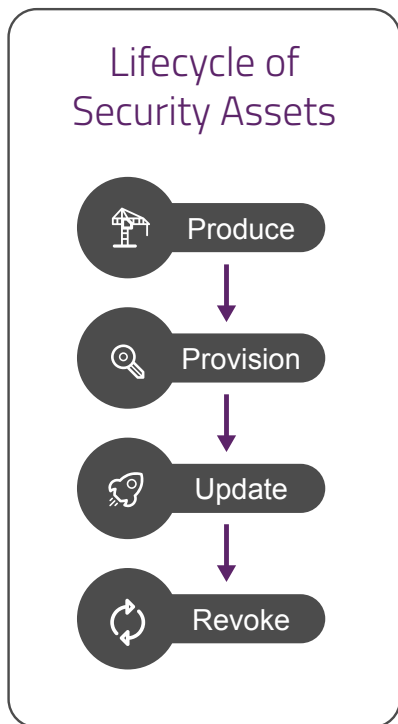
All Keys & Credentials activities are carried out within dedicated, high security facilities using advanced cryptography. Staffed by a team of experts in both security management and service provider operations, Irdeto delivers a world-class, next generation security management system.

Leveraging Irdeto's nearly 50 years of experience as a global leader in security, Keys & Credentials allows OEMs to benefit from the efficiencies of a shared-cost infrastructure with the assurance that each company's security requirements and vendor relationships are supported and managed to their unique specifications, with full dissociation from all cryptographic operations for other customers.

Lifecycle of Security Assets

- Produce
- Provision
- Update
- Revoke