

Key and Authorization Management



- ✓ **Secure management of cryptographic keys**
- ✓ **Instant and secure key distribution worldwide**
- ✓ **Smartphone can serve as a tool for the complete reader configuration**
- ✓ **Supports mobile ID with LEGIC neon**

Enabling secure applications in a mobile world

LEGIC Orbit is the next generation of a secure key and authorization management solution. It allows the generation of random application keys and the convenient, instant and worldwide distribution of these keys together with other configuration data via smartphone or management system to readers.

To securely manage and control ID and IoT solutions in a mobile environment, sophisticated key and authorization management is mandatory. LEGIC Orbit enables the highest level of system security for applications

where users contactlessly interact with infrastructure components. Thanks to the random generation and secure management of cryptographic keys, which are never visible to anybody, customer applica-

tions like mobile ID can be reliably implemented. LEGIC Orbit lets you control the security of your solution and supports flexible management and distribution of custom application keys.

Secure key and authorization management

Today's challenges

The criteria for a highly secure key and authorization management solution are very diverse:

- A modern cryptographic solution that also performs well in highly sensitive areas
- Solves the conflict between secure storage and worldwide availability
- Maintains the desired ownership and control
- Reduces the exposure to external risks

To avoid sacrificing security for convenience, we designed LEGIC Orbit. It combines a highly secure cryptographic solution with a very easy way of usage.

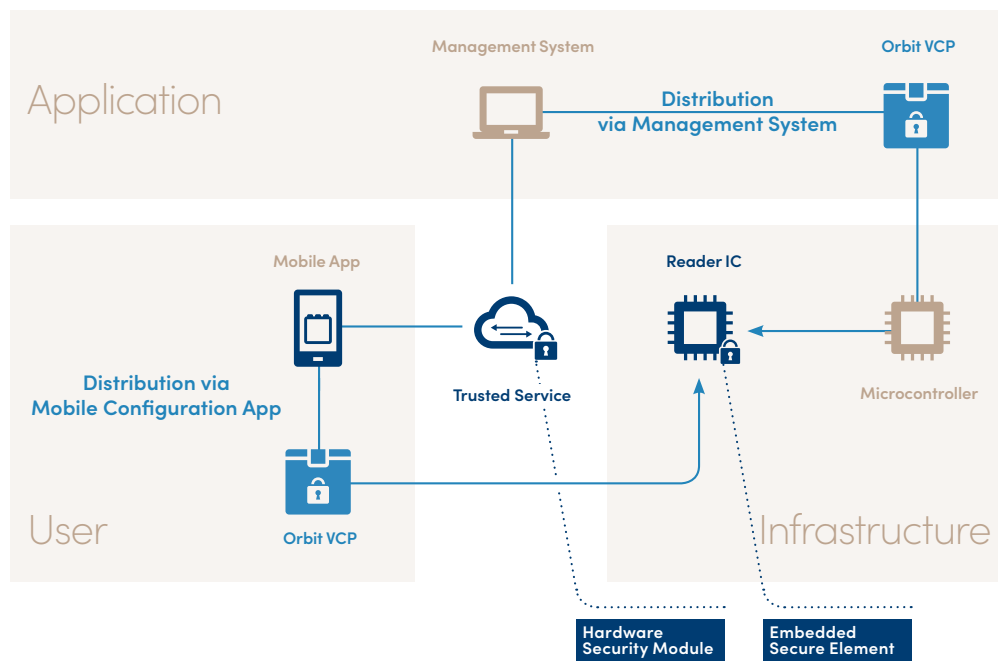
Random key generation

To prevent manipulation of customer-specific data and to maintain data integrity, only state-of-the-art encryption methods are used. Within seconds, user-specific cryptographic application keys are generated randomly in a certified, financial industry grade environ-

ment (Hardware Security Module - HSM). These application keys are dedicated to you and never visible to anybody.

Secure key storage

Cryptographic keys are the central element for secure ID solutions and IoT projects and must be well protected. Security and control go along with convenience, as our solution guarantees that keys are always stored securely and are available anytime. In addition, keys can be permanently removed if required or necessary.



Orbit VCP

A Versatile Configuration Package (VCP) contains the cryptographic keys for your application and any other configuration data for your readers. This container is end-to-end encrypted between the LEGIC Trusted Service and the embedded Secure Element in the LEGIC reader IC.

Flexible distribution

The Orbit VCP can be distributed via smartphones to all your infrastructure components, and for online components, the VCP can be distributed via your management system, enabling an automated and instant reader configuration.

Full system control

You define the required security level of your system and use as many different cryptographic keys as necessary. You can also define, create and distribute as many VCPs as is ideal for your application.



Universal configuration tool

LEGIC Orbit enables you to turn any smartphone into a universal configuration tool and replaces complex and costly hand-held devices. To load custom data or cryptographic keys into your readers, just use a smartphone with your mobile configuration app based on the LEGIC Mobile SDK. This means that any trusted person on site with a smartphone can be enabled to configure your infrastructure, fully secured by LEGIC Orbit.



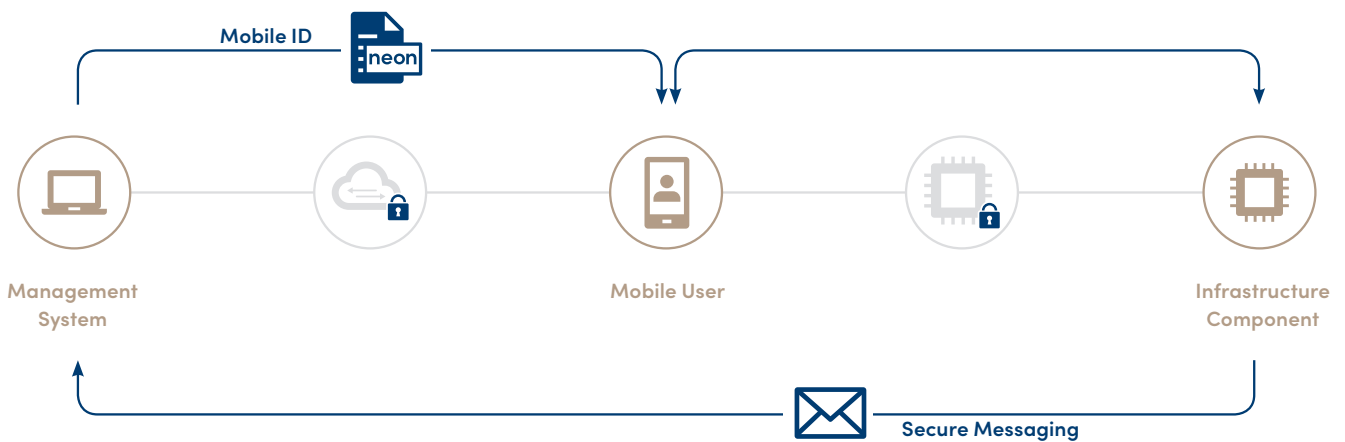
Secure customer applications

LEGIC Orbit adds security to customer applications

Based on the implemented end-to-end encryption, LEGIC Orbit enables you to securely configure your mobile solutions. LEGIC Orbit secures the new credential tech-

nology LEGIC neon which is at the heart of your mobile ID solution. It also protects messaging from your microcontroller back to your management system. Based on LEGIC neon files and messaging, a wide range of different applications are

possible. All of them benefit from LEGIC Orbit, giving you peace of mind that security is taken care of.



Application

Management System



Mobile App

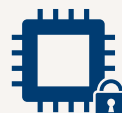


Mobile SDK

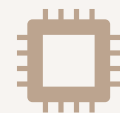


Trusted Service

Microcontroller



Reader IC



User



LEGIC Orbit

Infrastructure

Overview of the LEGIC security platform in a mobile environment

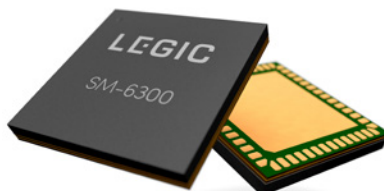
LEGIC Orbit grants you full control over all your applications in a mobile environment

Advantages of LEGIC Orbit

- Randomly generated application keys stored in a certified Hardware Security Module
- Secure and flexible distribution of application keys and other configuration data
- Any smartphone can serve as configuration tool
- Smoothly integrated into the proven LEGIC ecosystem

LEGIC Orbit - how to get it?

To benefit from the LEGIC Orbit advantages, all you need is a LEGIC Connect account and compatible LEGIC reader ICs. LEGIC Orbit is an integral part of these components. Contact our staff at LEGIC for more details.



LEGIC

LEGIC IdentSystems AG
Switzerland Phone +41 44 933 64 64 info@legic.com www.legic.com