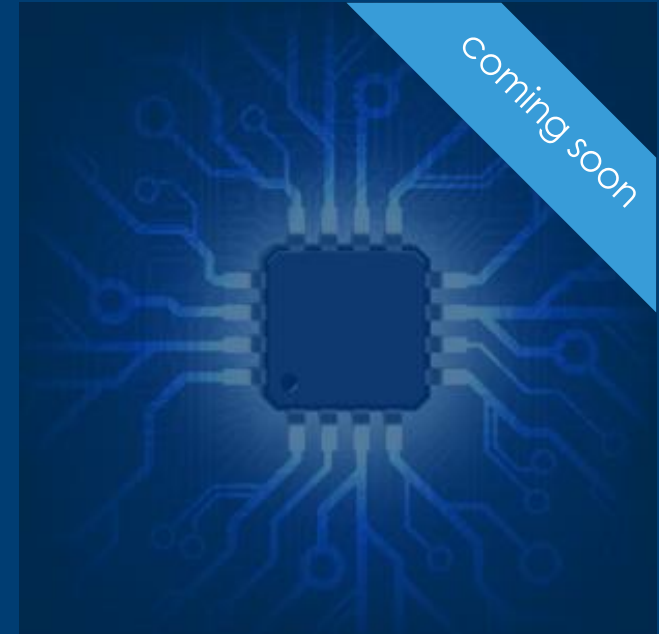


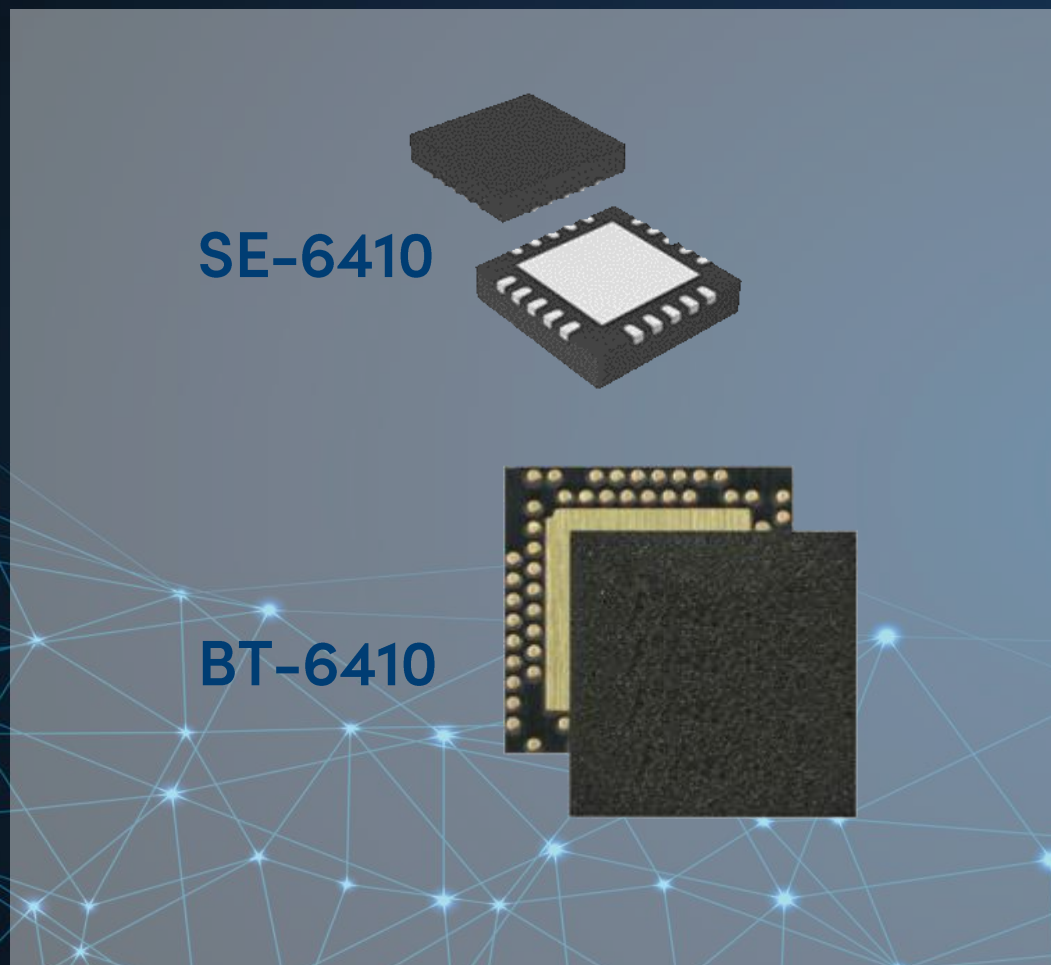
New LEGIC Security Chipset SC-6410

Martin Buck

connect23



Secure Chipset with Bluetooth® and Secure Element



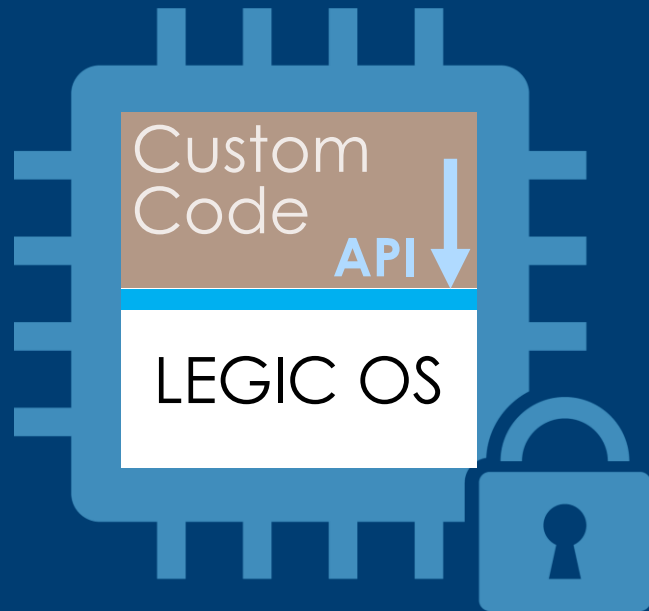
For applications requiring

- Secure BLE connectivity
- BLE mobile credentialing
- Secure configuration

Compatible with:

- LEGIC Connect
- LEGIC neon credentials
- LEGIC Orbit key and configuration management

Custom Code in Secure Element SE-6410



SE-6410

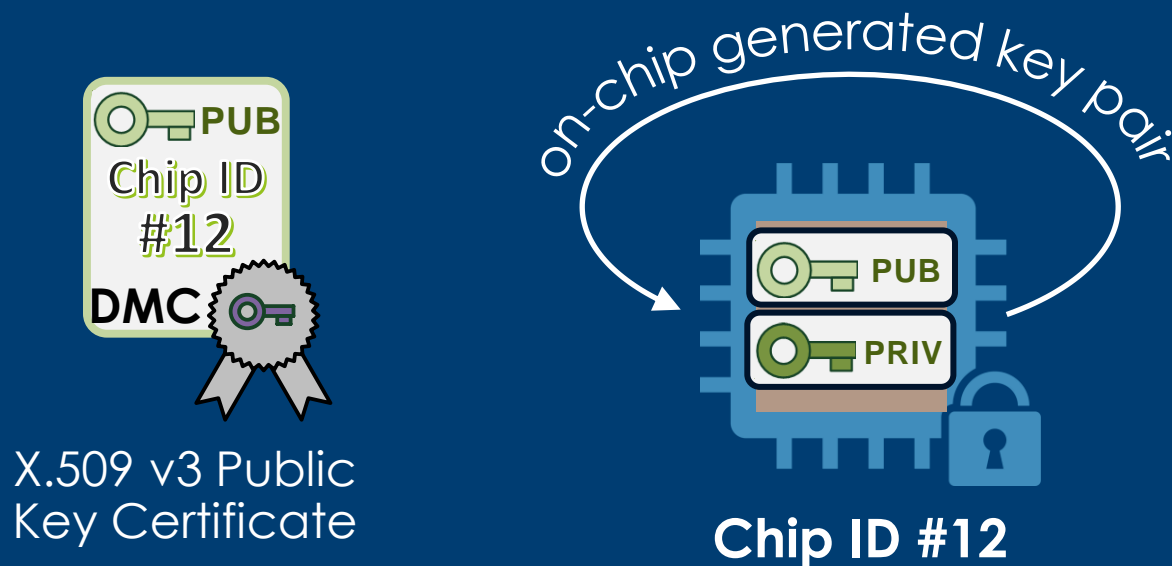
Common Criteria EAL5+
Secure Element

Features:

- ARM 32-bit RISC processor, 50 MHz
- 128 KB programmable flash – for your application code
- 5 KB RAM
- 250 KB flash – for Custom Code data
- Hardware-accelerated crypto functions

Hardware Root of Trust

Device Manufacturer Certificate (DMC) as a base for PKI applications



- ⇒ DMC enables authentication of LEGIC SE-6410 with chip ID #12
- ⇒ DMC enables secure device registration
- ⇒ DMC enables mutual TLS between device and public or private cloud

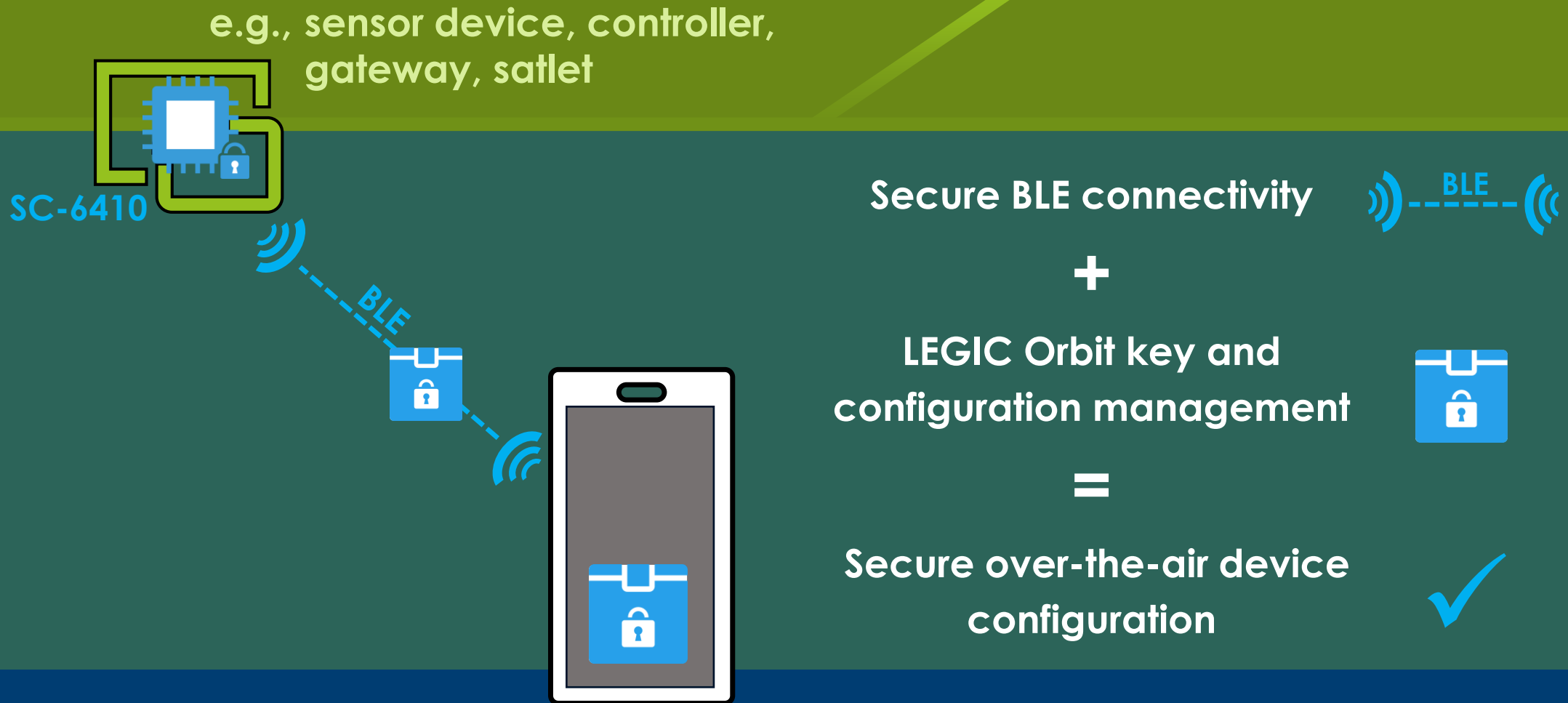
Comparison of SC-6410 with SM-6310

	SC-6410	SM-6310
BLE reader for LEGIC neon mobile credentials	yes	yes
BLE communication to other reader or 3 rd -party BLE device	yes	yes
RFID reader	no	yes
Custom Code in SE	128 KB flash, 5 KB RAM	128 KB flash, 5 KB RAM
Device Manufacturer Certificate (DMC)	yes	no
GPIOs (inputs, outputs, I ² C, SPI, 12-bit ADC)	20 GPIOs	8 GPIOs
Host Interface	UART, SPI, I ² C, USB 2.0 12 Mbit/s	UART, SPI, I ² C
Sleep mode current, inductive sensing (OIF)	n.a.	21.0 µA
Sleep mode current, BLE wake-up, 1 s advertising interval	15.6 µA (13.0 µA with external 32.768 kHz crystal)	15.6 µA (option with crystal planned)
Operating temperature	-40°C to +105°C	-40°C to +85°C

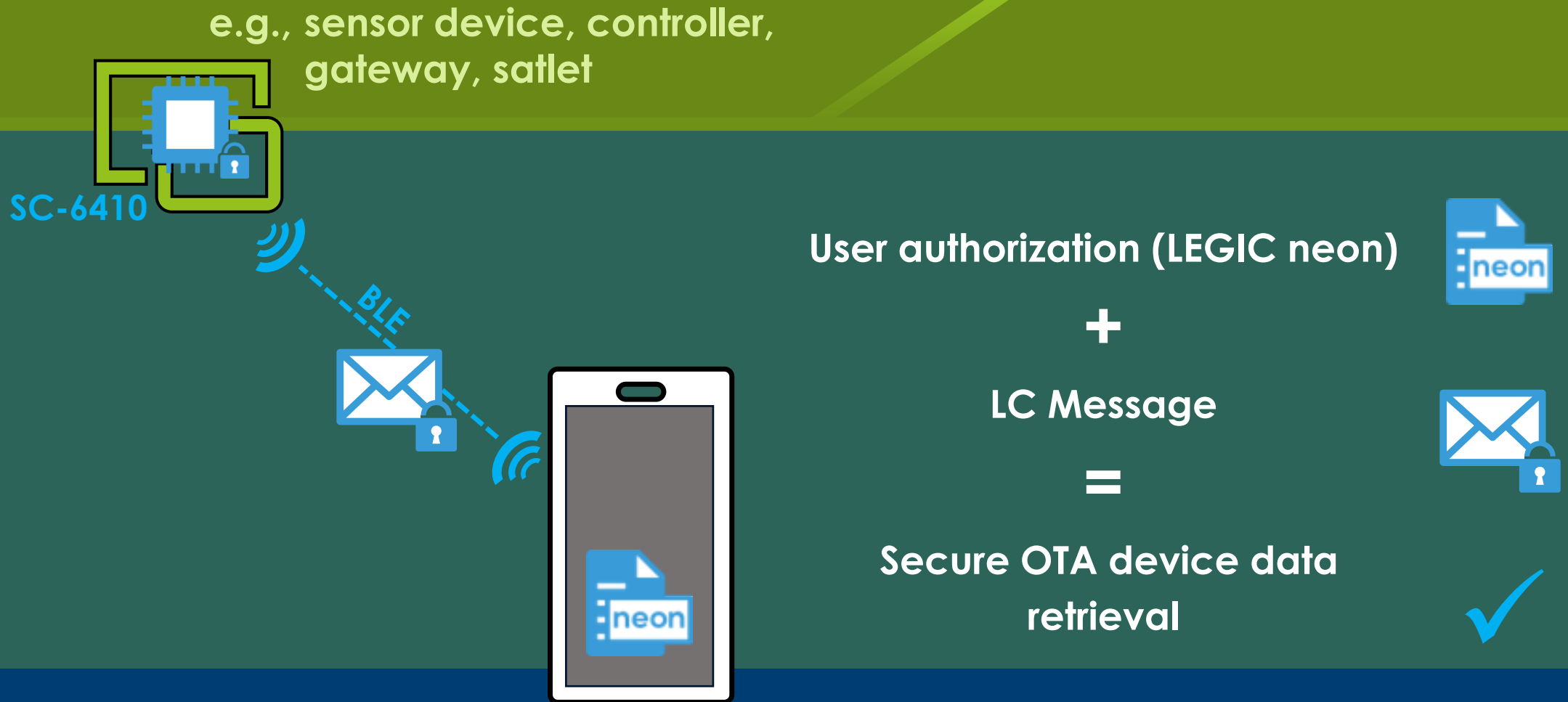
BLE use cases

A blue-tinted photograph of a modern staircase. The stairs are made of dark material with light-colored treads. The railings are made of polished metal with glass panels. A large window is visible at the top of the stairs, letting in bright light. The scene is viewed through a glass partition in the foreground. The overall atmosphere is clean and professional.

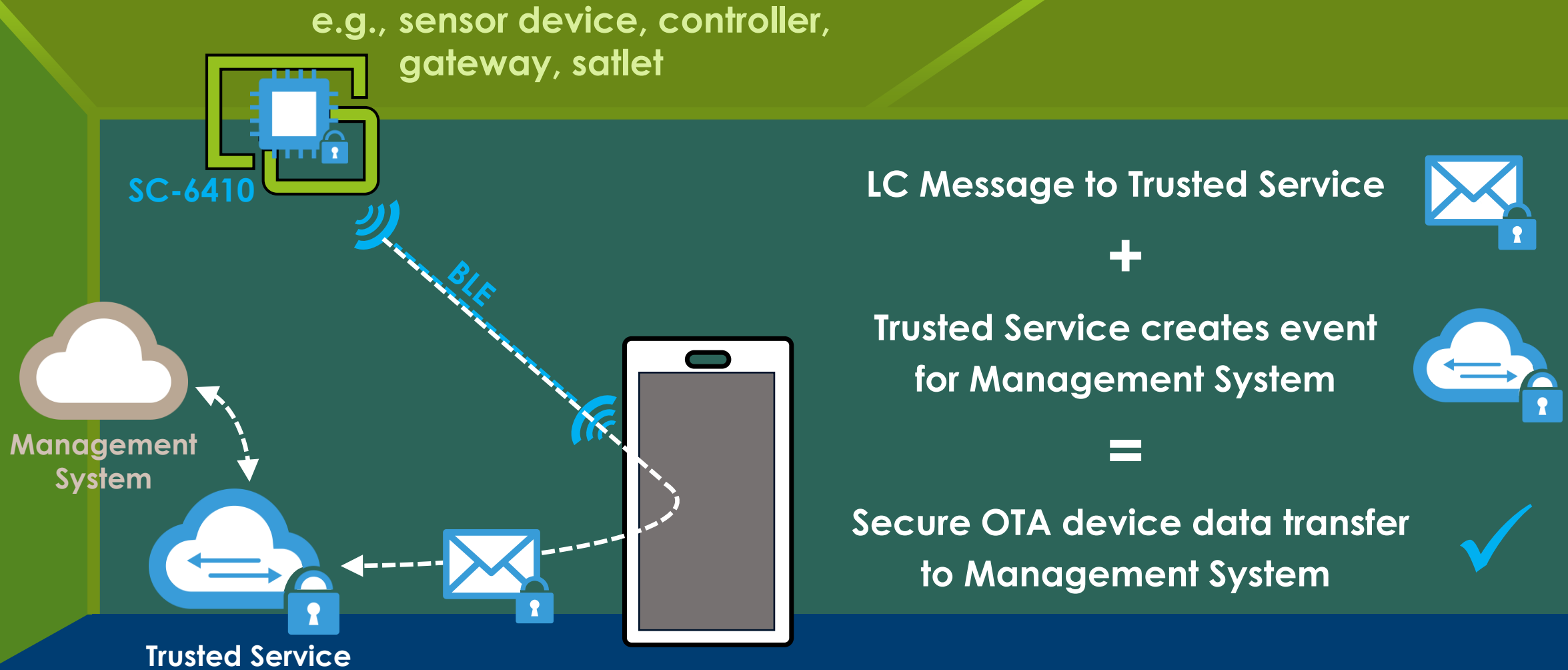
Secure Over-the-Air Device Configuration



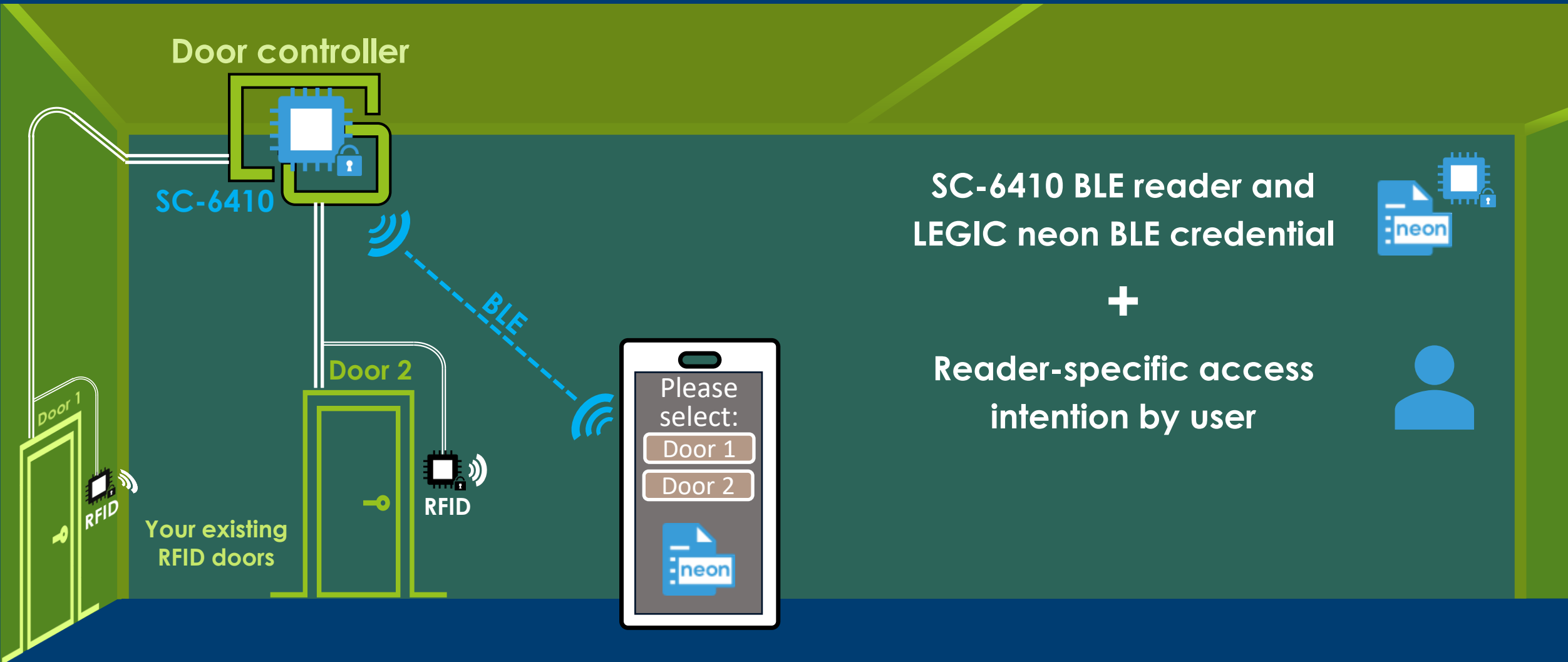
User Authorization for Secure OTA Device Data Retrieval



Secure OTA Device Data Transfer to Management System



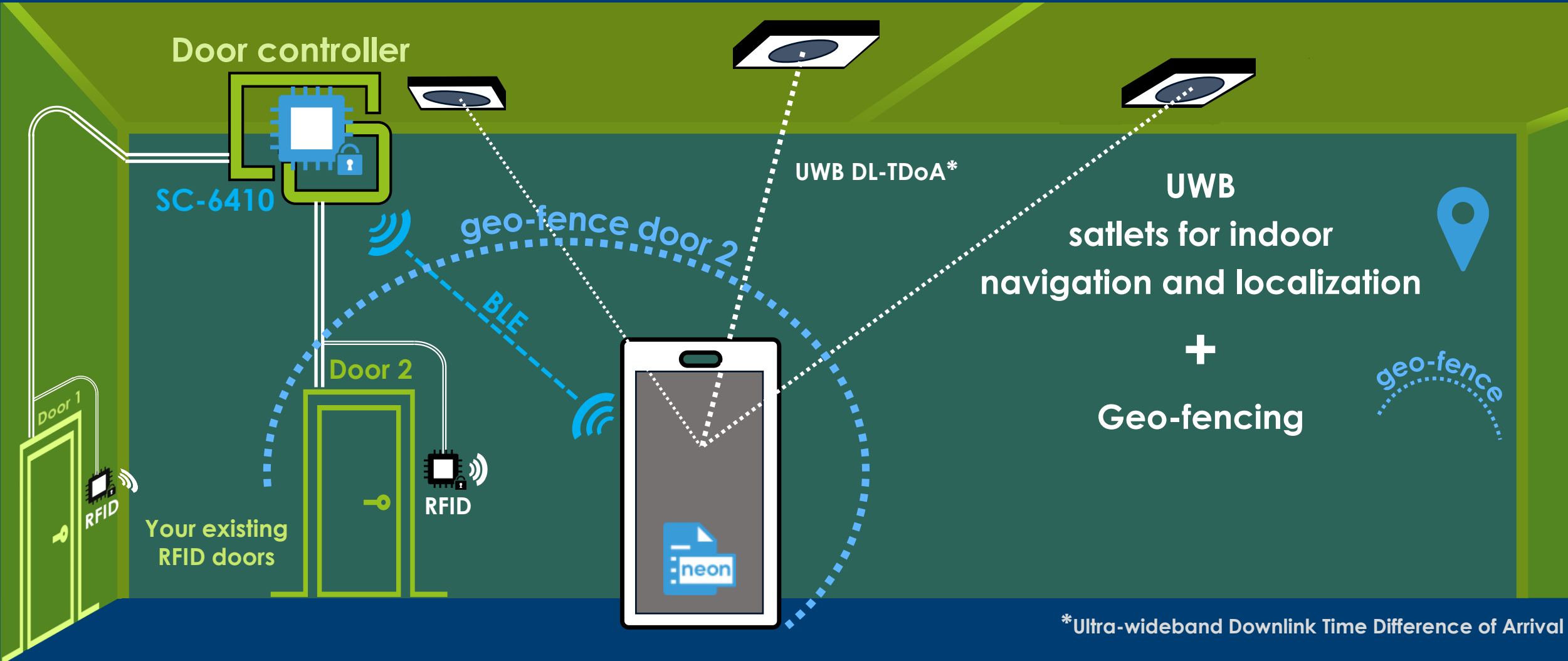
Add BLE Mobile Access to Your Existing RFID Solution



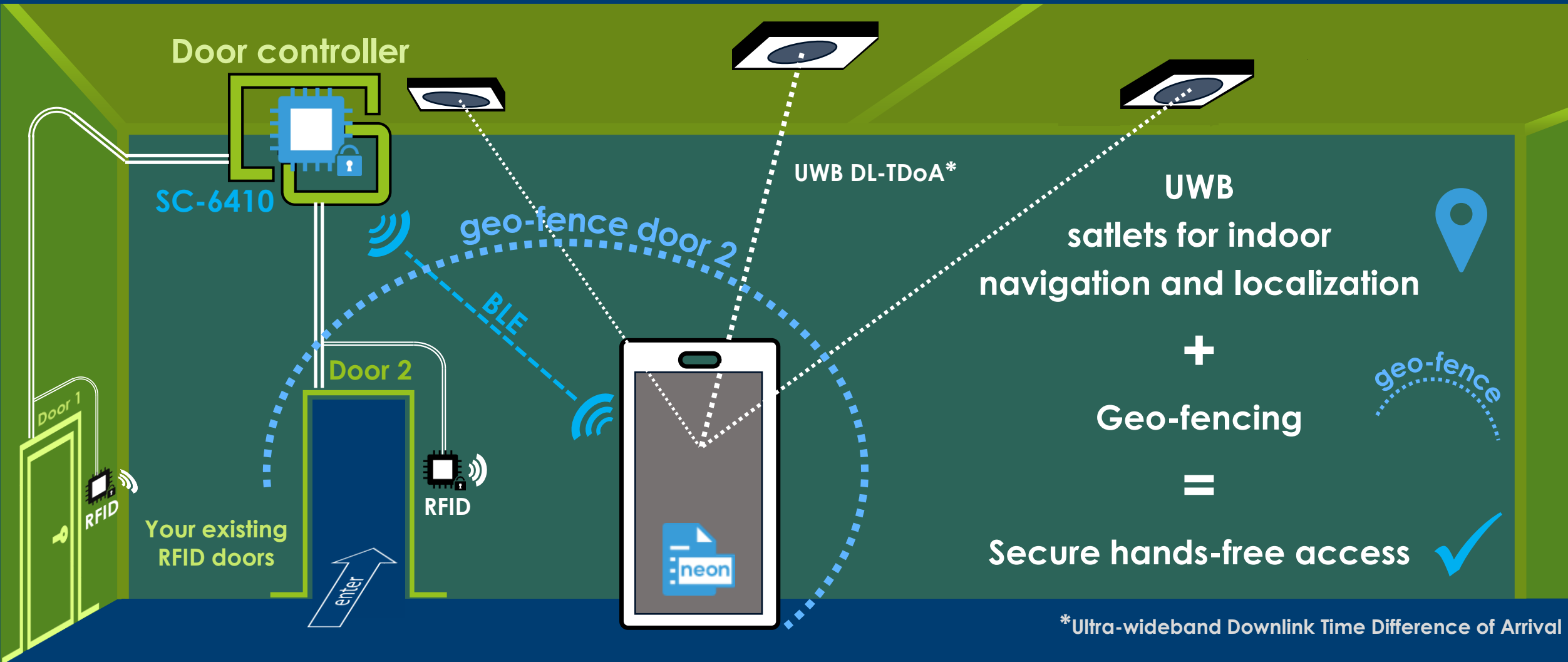
Add BLE mobile access to your existing RFID solution



Add UWB Indoor Localization to Your Existing BLE Mobile Access



Add UWB Indoor Localization to Your Existing BLE Mobile Access



Thank you for your attention

For more information,
please visit us at the LEGIC booth

