BlueDiamond™

Empower your phone to open new doors
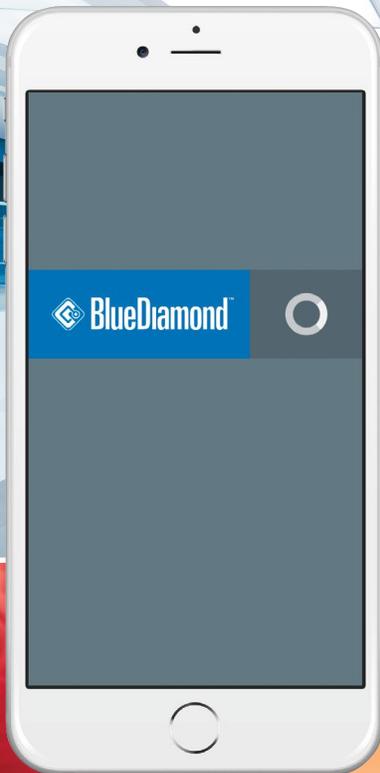
Introducing BlueDiamond™ Mobile

LENEL
United Technologies
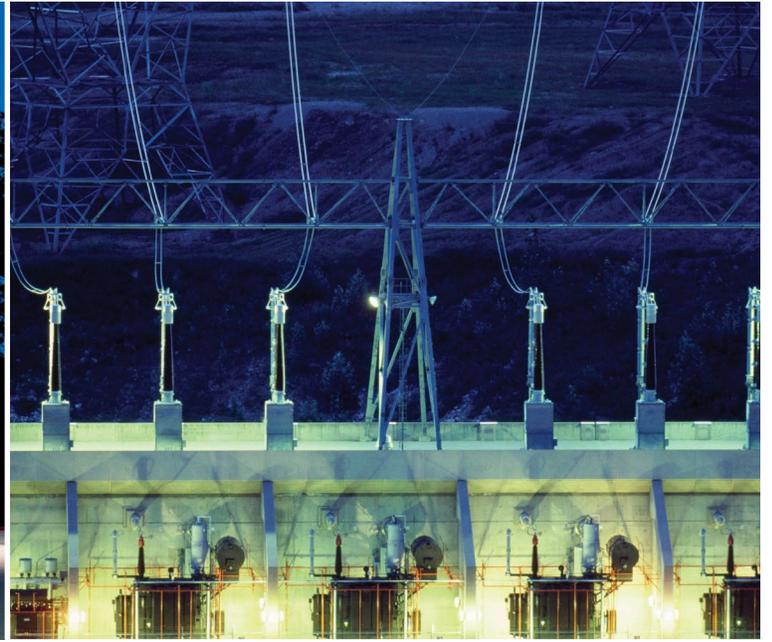
Unmatched experience in mobile applications

BlueDiamond™ Mobile leverages United Technologies Corporation's 17 years of experience developing mobile credentialing technology. With over 1,000,000 locking devices deployed across multiple industries—including Energy, Financial, Hospitality and Real Estate—United Technologies is well-versed in cloud-based key credentialing and has been a Bluetooth® technology leader since 2010.

Mobilize your access control

As smartphones and tablets become central to everyday life, Lenel is leveraging new technologies to provide exceptionally secure access control. BlueDiamond™ Mobile delivers a smart alternative to plastic badges, offering greater convenience without compromising security. Since people are rarely without their phones, this solution gives them another access option in addition to their keycards.

Benefits across the board

Unlike many other solutions, BlueDiamond Mobile credentials can be allocated to new phones or people as needed, and can be remotely deactivated. And since smartphones can require a security code or biometric for access as well as possession of the phone, app, and downloaded credential, the solution can provide multi-factor authentication.

For an additional layer of protection, BlueDiamond Mobile credentials are automatically deactivated if not periodically refreshed by the cloud server. This helps provide enhanced security by ensuring deactivated credentials are removed from deauthorized devices.

BlueDiamond Mobile readers support mobile and wearable devices—including iOS devices, Apple Watch® and Android™—along with a wide range of traditional proximity and smart cards. For administrators, this means simplified credential management with no procurement, storage, handling, shipping or printing of physical badges. It's just one more way BlueDiamond Mobile is ideally suited for multiple applications and venues in today's enterprise environments.
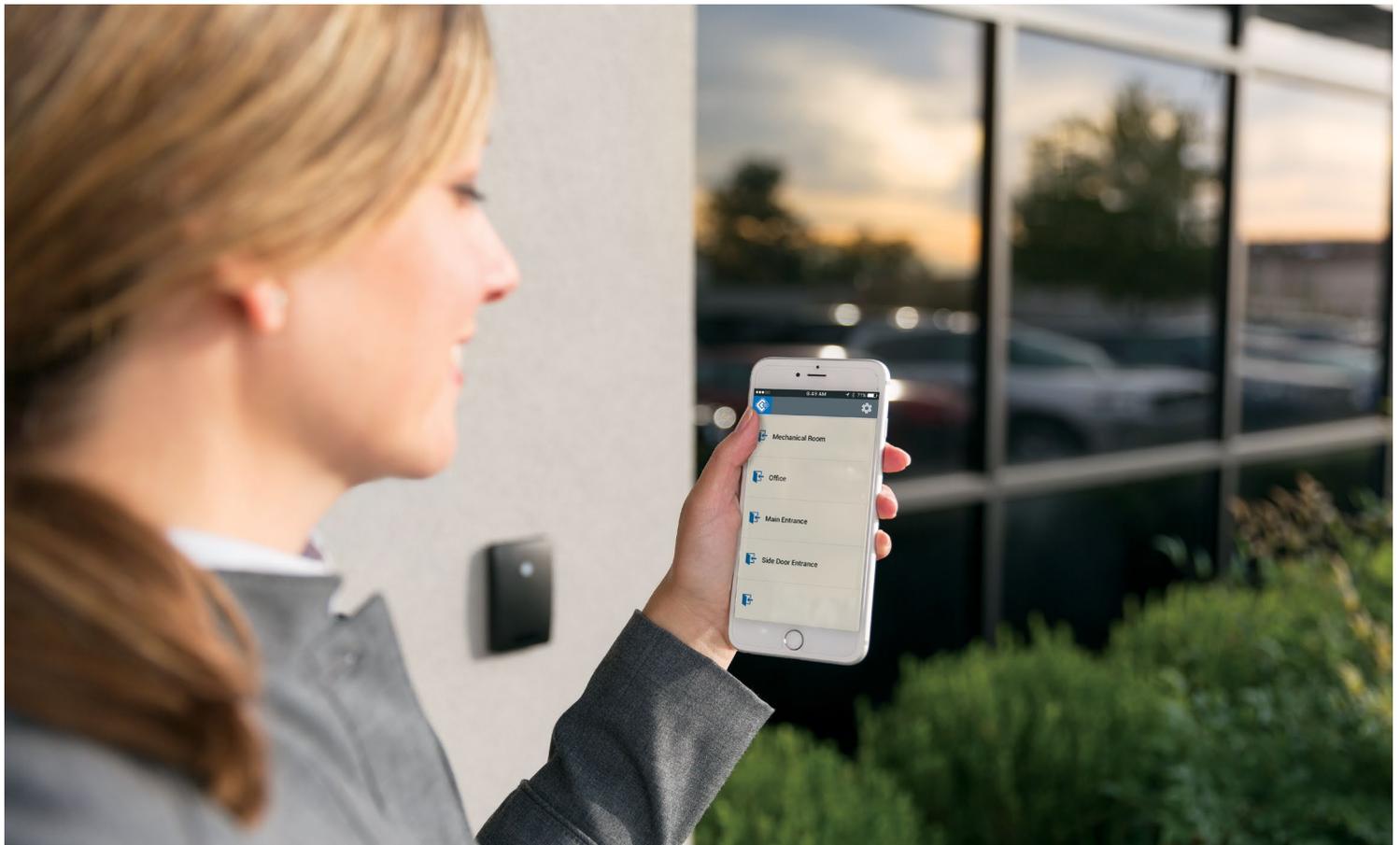
A comprehensive system for secure mobile credentials

The complete BlueDiamond™ Mobile offering includes the BlueDiamond Mobile smartphone app, BlueDiamond Mobile BlueTooth®/RFID readers and BlueDiamond Mobile credentials, all tied together by the cloud server. These components tightly integrate with Lenel's industry-leading OnGuard® security management system, allowing one-click issuance and management of mobile credentials.

1. With a single click, the OnGuard administrator issues a virtual credential to a user.
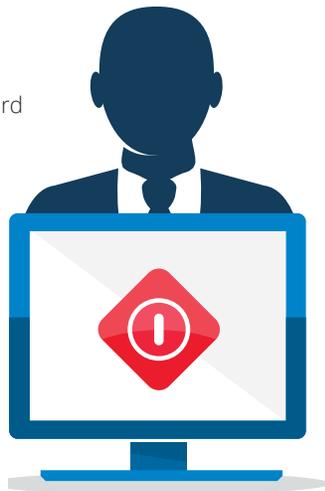
2a. OnGuard automatically emails a badge invitation to the cardholder and sends the badge number information to the BlueDiamond cloud server.

2b. At the same time, OnGuard automatically sends the user's badge number and access assignments to a Lenel controller.

3. The user receives an email with a link to download the BlueDiamond Mobile app, as well as an authorization code to activate the credential. The code is periodically refreshed by the cloud server and automatically deactivated when requested through OnGuard, or if not refreshed by the cloud server.

INVITE
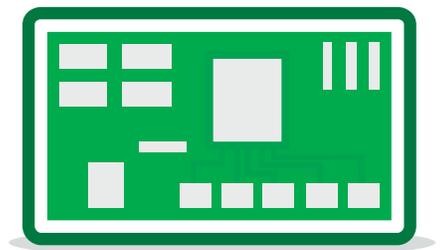
4. As the user approaches an access point, readers are detected and displayed on his or her smartphone or watch. The user taps the desired reader icon to show intent to enter that door.

5. The app authenticates to the reader, and the OnGuard Badge ID is transferred to the access panel. Authorization is granted or denied by the Lenel controller based on OnGuard access levels.

Mechanical Room
Office
Main Entrance
Side Door Entrance

*Mini-Mullion
Form Factor*

*Single Gang
Form Factor*

*Single Gang with
Backlit Keypad*

*Bluetooth
add-on for
existing readers*

Readers that support Bluetooth® and beyond

For completely flexible migration to mobile credentialing, BlueDiamond™ readers work with both existing badges and mobile devices, and include a wide range of options that support Bluetooth 4.0 Low Energy. All BlueDiamond Mobile readers feature a sleek, compact design and durable, proven electronics.

A special version of the BlueDiamond Mobile reader can be hidden in a wall or ceiling or installed next to an existing reader without replacing it. This add-on reader provides Bluetooth capability to most existing installations, allowing you to protect your investment in current readers and badges.

Supporting simple configuration

The BlueDiamond Mobile Toolkit is a Windows® app used by the installer and designed to make deployment and configuration of BlueDiamond Mobile readers easy and convenient. Using a Bluetooth dongle to communicate to the reader, the app can run on Windows PCs, laptops or tablets. The toolkit also connects readers to the cloud, with reader names and details loaded into the service for quick, efficient management.

Technologies supported include:

- *Smart Card (13.56 MHz) – Mifare DESFire, Mifare, ISO 14443 and ISO 15693 Card Serial Number*
- *Proximity (125 kHz) – HID Proximity, CE/CASI Proxlite and AWID Proximity*
- *Reader Output – OSDP, OSDP Secure Channel and Weigand*

  High Frequency
- *DESFire EV1 Application*
- *Mifare Classic Sector*
- *ISO 14443A Serial Number*
- *ISO 15693 Serial Number*

  Low Frequency
- *HID Proximity*
- *AWID Prox*
- *LenelProx*
- *Proxlite*

Lenel is a global leader in advanced security systems and services, developing innovative solutions to protect buildings, people and assets. Incorporating open architecture and third-party interfacing, Lenel's enterprise software manages multiple best-in-class systems to provide a single, seamless security solution for customers worldwide. Lenel is a part of UTC Climate, Controls & Security, a unit of United Technologies Corporation – a leading provider to the aerospace and building systems industries worldwide.