LENEL·S2

BlueDiamond™ Readers & Mobile Credentials

Welcome to the next generation of access control.

Carrier

Unmatched Experience in Mobile Credentials

The BlueDiamond platform leverages Carrier's 20 years of experience developing mobile credential technology. With over 4,000,000 Bluetooth® locking devices deployed across multiple industries — including Energy, Financial, Hospitality and Real Estate — Carrier is well versed in cloud-based mobile credentials and has been a Bluetooth technology leader since 2010.

Next Generation Access Control

The BlueDiamond platform offers a complete, next-generation access control experience. With multi-technology readers, a feature-rich mobile app and the ability to support mobile and physical credentials, organizations can upgrade to the BlueDiamond experience at their own pace.

Whether an organization leverages a LenelS2™ OnGuard® or NetBox™ access control system, or a third-party solution, the BlueDiamond platform provides the features they need for a secure, seamless and mobile-ready access control experience.

Seamless Migration Path

The versatility of the BlueDiamond multi-technology readers enables a seamless migration to the latest technology. The readers can meet your credentialing needs today and tomorrow. Because they support physical and mobile credentials, it's easy to upgrade at your own pace and as budgets allow.

The BlueDiamond readers offer enhanced security, leveraging the industry's open standard, DESFire EV2 credential technology and BlueDiamond mobile credentials with 128-bit AES encryption.

Multi-technology Readers

Experience effortless access with your mobile phone, smart card or standard proximity card. BlueDiamond multi-technology readers are among the most versatile access control readers on the market, able to work seamlessly with existing infrastructure while leveraging open credentialing standards.

BlueDiamond readers provide advanced credential support, offering access control system choices. The readers are access control platform agnostic and support standard output protocols including Supervised F/2F (SF/2F), Wiegand, OSDP™ and OSDP V2. Users of LenelS2 OnGuard or NetBox access control systems can manage mobile credentials directly from the access control system user interface. With both mobile-ready and mobile-enabled versions available within the BlueDiamond reader portfolio, organizations can achieve enhanced security at their own pace.

Supported technologies include:

125kHz proximity cards

- HID Proximity
- AWID® Proximity
- CASI/GE Security ProxLite

13.56MHz smart cards

- MIFARE® DESFire® EV1/EV2
- MIFARE Classic - ISO 14443
- Vicinity Card Serial Number - ISO 15693
- HID iCLASS™*

Features

- Mobile-ready readers can be upgraded to read mobile credentials through the purchase of a license without the need to add or replace hardware
- Mobile-enabled readers support mobile credentials out of the box
- BlueDiamond mobile credentials
- OSDP file transfer**

*Support for HID iCLASS Classic or Standard, not Elite Key, SE or SEOS

**Requires OnGuard access control system version 7.5 or greater, Mercury XSeries Controllers and Mercury Series 3 i/o boards

The BlueDiamond Mobile App Experience

Tap to Unlock
Tap "Unlock" to send credential to reader

Phone as a Badge
Use a phone as badge to gain entry

Shake to Open + Turnstile Support
Gently shake phone to send credentials to turnstile or reader

Pathways™
Pre-load commonly accessed doors along a frequently-traveled route

Voice Commands
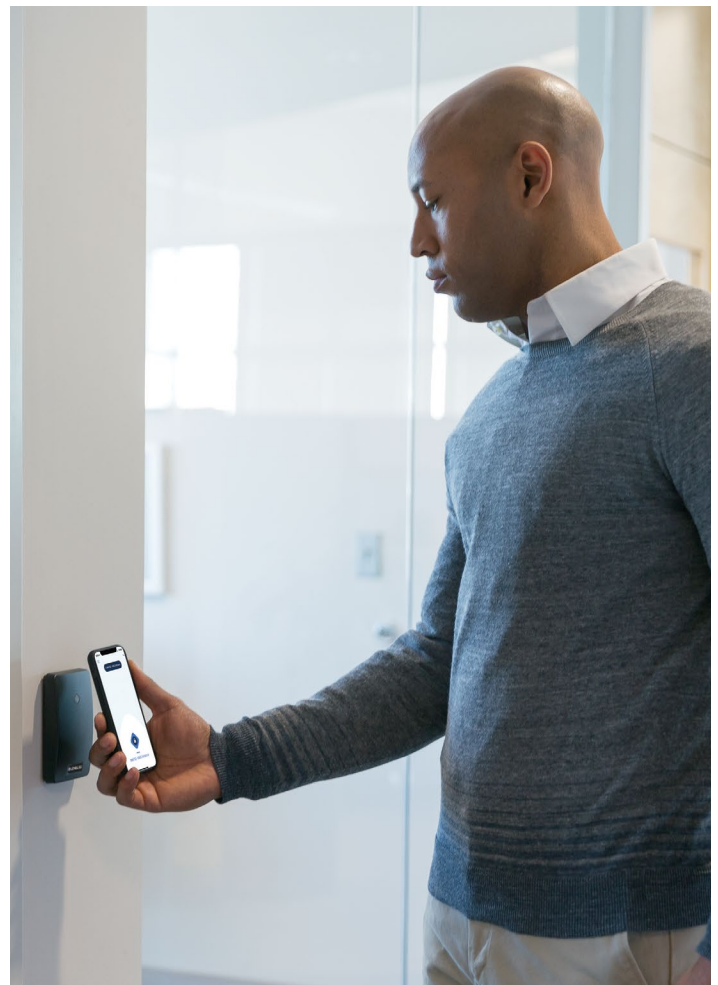Ask Siri® to open a door or start a pathway

Favorites
Store commonly used doors for quick access

Two-factor Authentication
Confirm credentials for two-factor-enabled doors

Empower Your Phone to Open New Doors

The BlueDiamond mobile app delivers a smart alternative to plastic badges, offering convenience without compromising security. Available on both iOS® and Android® platform, the app is designed to provide a touchless, efficient and effortless credential experience. In addition to the app's feature-rich capabilities within a LenelS2 access control system, the BlueDiamond platform framework is also available to embed into an organization's current mobile application. LenelS2 provides assistance and the framework at no additional cost.*
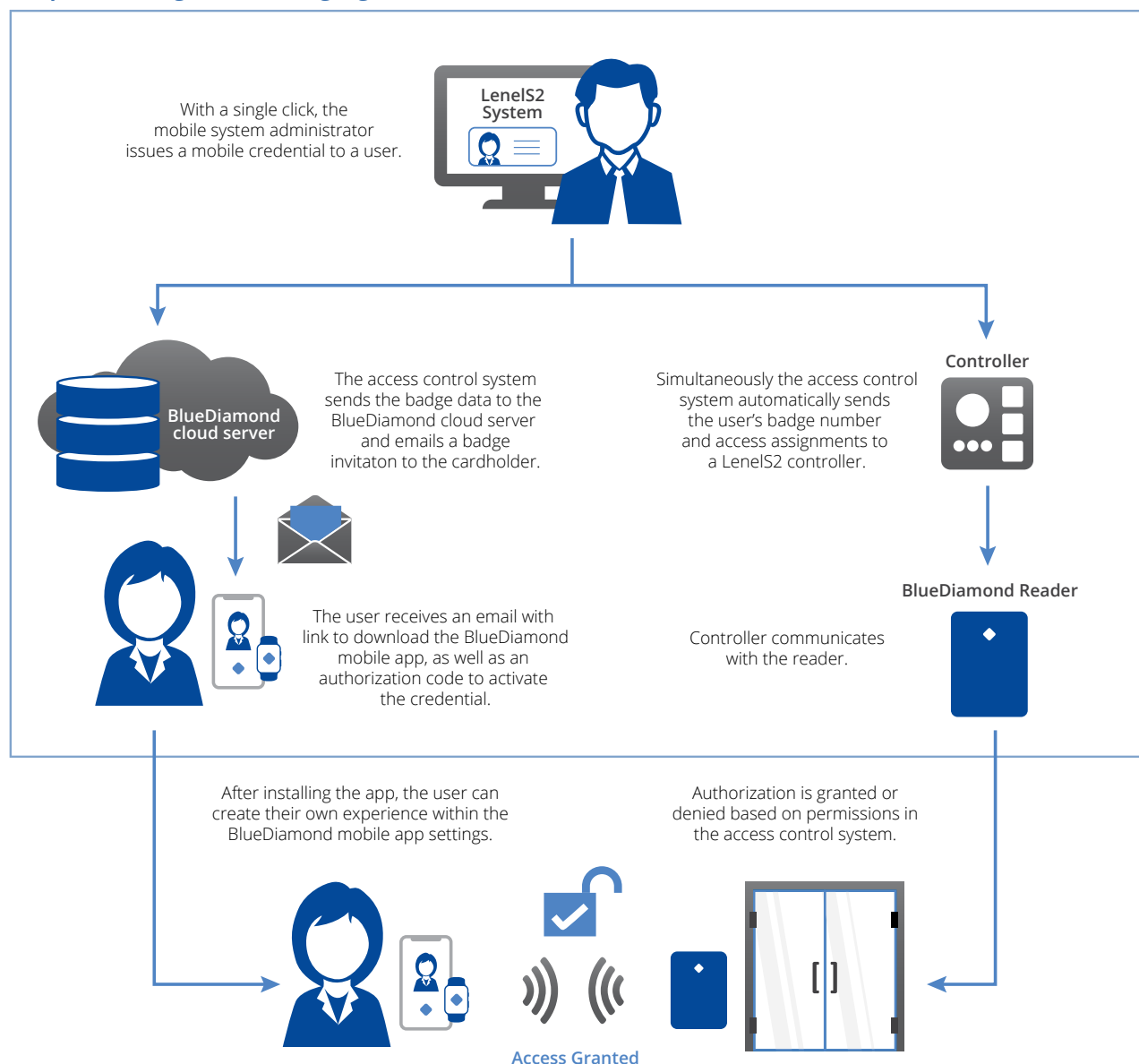
*terms and conditions apply

A comprehensive and open system for mobile credentials

LenelS2 Access Control Systems

The complete BlueDiamond platform includes the BlueDiamond mobile app, multi-technology readers and mobile credentials, all tied together by a cloud server. These components natively integrate with the LenelS2 OnGuard and NetBox security management systems allowing one-click issuance and management of mobile credentials.
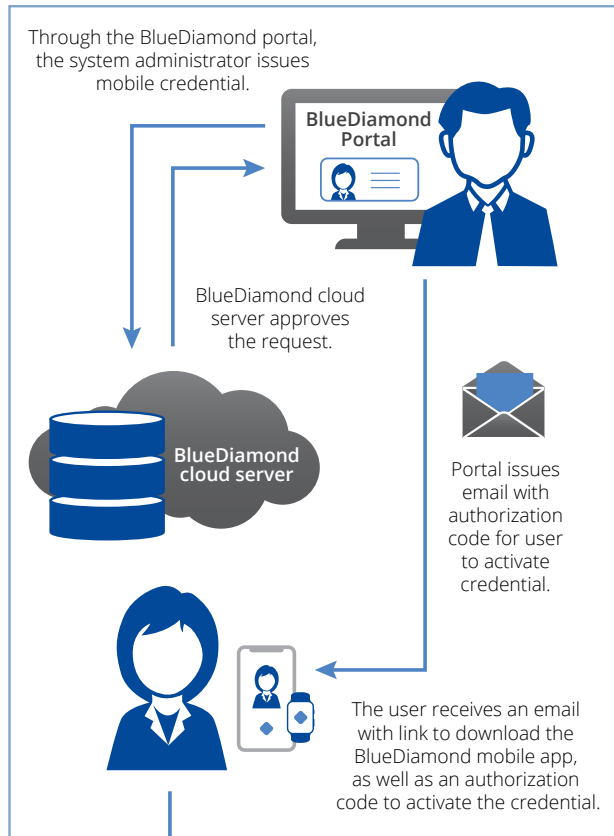
Step 1: issuing and managing credentials

LenelS2 System

With a single click, the mobile system administrator issues a mobile credential to a user.

BlueDiamond cloud server

The access control system sends the badge data to the BlueDiamond cloud server and emails a badge invitaton to the cardholder.

Controller

Simultaneously the access control system automatically sends the user's badge number and access assignments to a LenelS2 controller.

The user receives an email with link to download the BlueDiamond mobile app, as well as an authorization code to activate the credential.

BlueDiamond Reader

Controller communicates with the reader.

After installing the app, the user can create their own experience within the BlueDiamond mobile app settings.

Authorization is granted or denied based on permissions in the access control system.
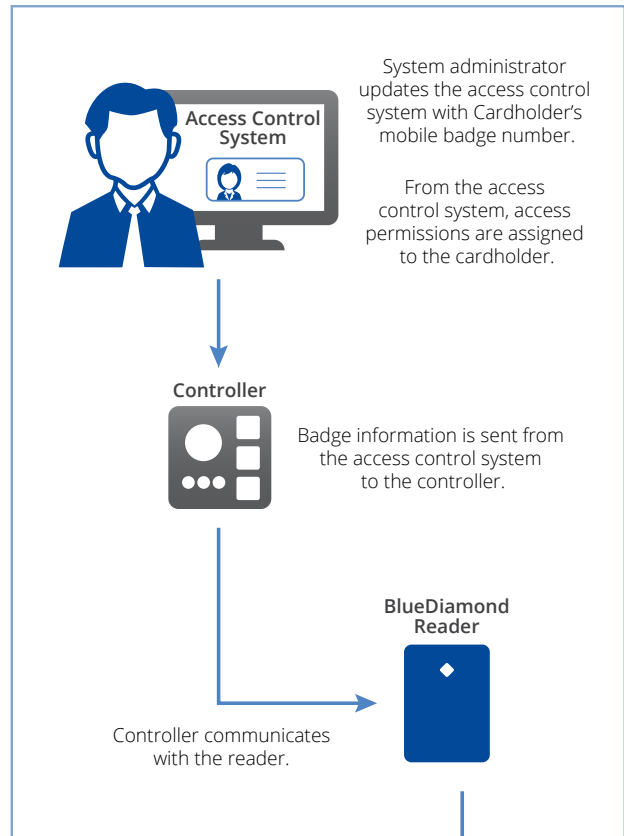
Access Granted

Third-party Access Control Systems

The BlueDiamond platform is access control system agnostic, allowing users to leverage their existing access control systems. Standard output protocols are supported along with open credentialing standards. Mobile credentials are issued through the BlueDiamond web portal and permissions are managed through the access control systems.
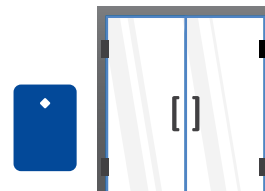
Step 1: issuing credentials

Through the BlueDiamond portal, the system administrator issues mobile credential.

BlueDiamond Portal

BlueDiamond cloud server approves the request.

BlueDiamond cloud server

Portal issues email with authorization code for user to activate credential.

The user receives an email with link to download the BlueDiamond mobile app, as well as an authorization code to activate the credential.

After installing the app, the user can create their own experience within the BlueDiamond mobile app settings.

Step 2: managing credentials

System administrator updates the access control system with Cardholder's mobile badge number.

From the access control system, access permissions are assigned to the cardholder.

Access Control System

Controller

Badge information is sent from the access control system to the controller.

BlueDiamond Reader

Controller communicates with the reader.

Authorization is granted or denied based on permissions in the access control system.

Access Granted

LENEL·S2

LenelS2 is a global leader in advanced physical security solutions, including access control, video surveillance and mobile credentialing. Our technology includes web-based and mobile applications enhanced by cloud-based services. Incorporating open architecture, LenelS2 provides scalable, unified security management solutions to customers ranging from global enterprises to small- and mid-sized businesses. Easy to install and use, LenelS2 products are supported by an experienced, responsive team dedicated to providing exceptional service. LenelS2 serves segments worldwide including corporate, education, healthcare and government. LenelS2 is a part of Carrier Global Corporation, a leading global provider of healthy, safe and sustainable building and cold chain solutions.

LenelS2.com

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Specifications subject to change without notice.

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