



Keyscan Access Control Systems Product Guide

Smart access means
confidence

Networked access control solutions

Secure areas require a reliable access control system for identifying and admitting authorized persons

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Identify. Authenticate. Control.

Our Keyscan electronic access control systems deliver a broad spectrum of innovative solutions that combine convenience with performance to provide controlled access for all openings. Our systems offer three levels of secure building access: identify, authenticate and control. The identify level is the ability to perform electronic identification of all persons moving within a controlled building environment. The authentication level is the software technology to confirm identification of a individual and compare to set permissions assigned to that individual, while the control level grants or denies access based on successful identification and authentication levels.

Our access systems offer unparalleled integration options with other dormakaba product portfolios as well as third party partnerships offering you enhanced access technologies that provide greater connectivity and performance.

dormakaba is a premier provider of total security solutions to the K-12 school, lodging, multi-housing, senior living, college and university, healthcare, commercial, retail, sports and entertainment and airport industries.

Smart access begins at dormakaba.



Aurora access control software

Performance and sustainability

A secure environment demands accurate identification and authentication of credentials when admitting authorized personnel. dormakaba's access systems provide a secure, yet transparent solution for facilities requiring authorized access to secured areas. Our software solutions are the cornerstone of dormakaba's approach to access control.

Integration is a common thread for optimizing access control systems. With an emphasis on performance and

sustainability, dormakaba's Keyscan Aurora access control software provides just that.

With many features and integration options, it provides a single solution for access control with no limiting or expansion governors or recurring fees. Keyscan Aurora is ideal for any access control application, regardless of application, size or complexity.

Aurora offers impressive features and integration options, such as:

VMS integration with top video system manufacturers

Enhanced Lockdown

Wireless lock integration with E-Plex and other top brands

dormakaba Community and Ambiance multi-housing and hospitality software integrations offering unique 'back-of-the-house' access control solutions

Active Directory integration*

KONE SMART elevator dispatch system integration*

BioConnect biometric systems integration*

EasyLobby visitor management software integration*

Mobile credentials and access solutions

Some integration solutions are made or provided by partner manufacturers and are not dormakaba solutions. Contact your sales manager for details.

Aurora key benefits include:

- Web client user interface - control your system from any web-enabled PC or mobile device
- Enhanced network-based lockdown - ideal for any scenario demanding an emergency response plan
- SAAS - Centrally managed access control
- Software Development Kit (SDK) license - for custom integrations
- Multi-language support (English, French, Spanish and Portuguese)



Aurora add-on & optional licensed modules

Enhanced software functionality

Add-on modules

Add-on modules are installed as separate applications and registered with a license number provided when you purchase the module. When you register your software online you'll obtain an unlock number to complete the registration and enable your software.

Aurora web client - interface allows you limited management of your system from any location using web-enabled computers or devices.

SQL Upgrade - you may upgrade to full SQL database and removing the 10GB limit. Requires server, OS and appropriate licensing for SQL server 2012.

Optional licensed modules

Optional licensed modules are installed during the Aurora installation process. To activate the module for use, you need to register a module's license number provided when you purchased the module.

Aurora Enhanced Lockdown: New software module allows users to initiate custom, network-based, lockdown response scenarios, including E-Plex wireless locks, by clicking an icon on their PC desktop.

Video Management System (VMS) module: allows Aurora users to open and use client software from leading video manufacturers.

Intrusion systems module: DMP XR550DN series as well as DSC MAXSYS and PowerSeries intrusion panels. (* Does not support PowerSeries Neo.)

Biometrics module: supports functionality with BioConnect and Suprema biometric readers within Keyscan Aurora environments.

Active Directory module: users may be linked to their Active Directory record to expedite system user permissions and day-to-day activities with Aurora.

Visitor management module: when you require a more progressive visitor management system than Aurora's built-in feature, this allows for manual or automated recording and collection of visitor data using EasyLobby.

Software developers kit: available application to harness Keyscan Aurora functionality from within another application.

Networked access control systems

Door controllers

Our networked access control systems deliver a broad spectrum of innovative solutions that combine convenience with performance to provide controlled access for all openings. Our systems offer security, sustainability and reliability. Security controls building access. Sustainability ensures innovative technology and integration options allowing your system to meet your needs well into the future. Reliability ensures performance keeping everyone secure at all times.

dormakaba's Keyscan CA series door controllers provide maximum system design flexibility. Available in 1, 2, 4, or 8 door module designs, our compatible CA and EC access control units can be unified to satisfy applications for any facility.

The CA controller series will also update or augment aging systems while, in many cases, utilizing existing infrastructure.

Door controller features:

- Network TCP/IP ready (with NETCOM)
- Easily configurable reader settings supporting Wiegand protocols
- Up to 6000 transactions retained in transaction buffer with auto-upload protocol if communication is interrupted
- Dual processors
- Power over Ethernet (CA150 only)
- DHCP supported
- Expanded flash memory allows for up to 45,000 credentials with expansion to 90,000*
- Global communication among multiple controllers, server and sites**
- Accommodates hundreds of time schedules and/or group levels
- Multiple inputs and outputs for expansion capability

*with special order hardware

** requires CIMs and CIM Link communication modules



CA250 2-door control unit

Includes:

- CA250B ACU board
- 1 - OCB8 relay board
- 1 - DPS-15 power supply
- 1 - black metal enclosure with lock and tamper switch



CA4500 4-door control unit

Includes:

- CA4500B ACU board
- 1 - OCB8 relay board
- 1 - DPS-15 power supply
- 1 - black metal enclosure with lock and tamper switch



CA8500 8-door control unit

Includes:

- CA8500B ACU board
- 2- OCB8 relay boards
- 1 - DPS-15 power supply
- 1 - black metal enclosure with lock and tamper switch

Elevator floor controllers

dormakaba's Keyscan EC series elevator floor controllers are designed to secure access to office or residential floors by prompting credential-holders to present their assigned credential when using the elevator. Available in 1 and 2 cab module designs, our compatible EC and CA control units can be unified to satisfy applications for any facility.

The EC controller series will also update or augment aging systems while, in many cases, utilizing existing infrastructure.

Elevator floor controller features:

- Network TCP/IP ready (with NETCOM)
- Easily configurable reader settings supporting Wiegand protocols
- Up to 6000 transactions retained in transaction buffer with auto-upload protocol if communication is interrupted
- Dual processors
- DHCP supported
- Expanded flash memory allows for up to 45,000 credentials with expansion to 90,000*
- Global communication among multiple controllers, server and sites**
- Accommodates hundreds of time schedules and/or group levels
- Inputs and outputs for OCB8 expansion capability

*with special order hardware

** requires CIMs and CIM Link communication modules



EC1500

1 cab elevator floor controller

Includes:

- EC1500B ACU board
- 1 - OCB8 relay board
- 1 - DPS-15 power supply
- 1 - black metal enclosure with lock and tamper switch



EC2500

2 cab elevator floor controller (Supports 2 Cabs with 2 readers)

Includes:

- EC2500B ACU board
- 2 - OCB8 relay boards
- 1 - DPS-15 power supply
- 1 - black metal enclosure with lock and tamper switch

Small application access control systems

SDACSKT - smart kit Solution for small installations of 1-6 doors

Keyscan LUNA is a cost-effective access control solution specifically designed for small installations of 1 to 6 doors. Ideal for small businesses, each single door access controller (SDAC) is designed to secure one door utilizing up to two readers and one electric strike or electromagnetic lock.

The unit functions over a WiFi or WLAN network with a PC or laptop running complementary LUNA™ software available for download.



Includes SDAC control unit, 1 K-SMART3 mobile-ready reader, 10 K-SECURE 1K credentials, 12VDC power supply and complementary Keyscan LUNA™ software.

SDAC Features:

- WiFi point-to-point or WLAN connectivity
- Two reader ports (in/out)
- Dual processors ensure panel operation even during system downloads
- Lock relay – form C dry contacts
- Flexible installation
- Functions with high or standard security credentials
- Requires Keyscan LUNA™ software download from www.dormakaba.us/LUNAsoftware

Keyscan LUNA™ software benefits:

- Comprehensive and easy to use
- Encrypted database
- No licensing or recurring fees
- One copy of LUNA™ software can manage 6 SDAC units
- Complimentary download; can be stored on a USB drive
- Selectable filter transaction reports

CA150 – single door PoE equipped controller

When it comes to performance, and overall capability, the CA150 is comparable with our full line of access control units. CA150 is ideal for a single-door deployment or to augment an existing system with a need for one additional door.

- Network connectivity with built-in PoE ready TCP/IP module
- PoE[†] mode to transmit power for reader, strike, and other auxiliary devices, up to 680mA (requires PoE injector).
- DHCP supported
- Dual Processors
- Flash Memory
- Two reader ports
- Requires Aurora software

[†]POE under license with Chrimar Systems Inc., US Patents 8,155,012 - 8,942,107 - 9,049,019.



High security readers & credentials

Secure access within a facility is critical to protecting people and the integrity of physical and intellectual property. Entry points must be monitored and access authenticated. Our selection of high security readers and credentials validate identity and authorize individual access creating secure areas throughout your facility.

dormakaba offers an attractive selection of high security Keyscan, iCLASS and UHF readers and credentials. Keyscan credentials are available in Keyscan 36-bit format. The iCLASS 13.56MHz credential series are also available in Keyscan 36 bit plus offer Keyscan Elite Key format (excluding Seos). dormakaba's 13.56MHz credentials are available as clamshell, ISO graphics quality cards, fob and tag styles. For long-range needs rely on the UHF 933MHz reader and credential series.



K-SMART3

Mobile-ready 13.56MHz reader

K-SMART3 offers unrivalled performance and reliability when coupled with Keyscan K-SECURE credential series. It features Keyscan's proprietary elite key and 36-bit formats for enhanced reader and credential encryption. K-SMART3 offers the freedom to use the K-SECURE 1K/4K series credentials or Keyscan Mobile Credentials.



K-SKPR

13.56 MHz keypad reader

The new Keyscan smartcard reader and keypad offers users the convenience of a contactless credential with the enhanced security that only a smartcard reader, keypad and credential combination can offer. Use with K-SECURE 1K/4K series credentials.



K-SECURE credentials

K-SECURE series credentials are equipped with numerous anti-counterfeiting, card anti-duplication and robust AES multilayer encryption technologies offering greater security. Complies with international interoperability (ISO14443) standards for 3rd party applications. (Contact dormakaba Canada for using data sectors.)

K-SECURE credential series:

K-SECURE 1K ISO smart card (1k memory)

K-SF-1K smart fob (1k memory)

K-SECURE 4K ISO smart card (4k memory)

K-TX2-1K 4-button RF transmitter (1k memory)

High security readers & credentials

iCLASS Seos® & UHF readers and credentials



iCLASS Seos® reader series

Featuring Seos® technology. Seos offers the freedom to use smart cards or smartphones with best-in-class security and privacy protection. Use with KI8KSEOS 8K credentials or HID Mobile Access credentials (SOM models only).

iCLASS Seos readers:

- R10SO standard reader

- R40SO standard reader

- RK40SO standard keypad reader

iCLASS Seos credential:

- 18KSEOS iCLASS seos card credential

iCLASS Seos BLE/NFC readers:

- R10SOM NFC/BLE reader

- R40SOM NFC/BLE reader

- RK40SOM NFC/BLE keypad reader

SOM readers also function with HID Mobile.



UHF long-range reader and credential series

With advanced encryption technology, it delivers a secure ultra-high frequency solution that function seamlessly with Keyscan systems. Built with a rugged housing that protects the antennae and electronics from elements. Once installed, the KU90UHF can be locally configured via Ethernet port and a user-friendly web interface for ease of maintenance. Use with KIUHF ISO UHF credentials or KI4KSEUHF ISO dual UHF and SE credentials.

UHF reader:

- KU90UHF long range reader

UHF credentials:

- KIUHF card credential

- KI4KSEUHF dual SE/UHF card credential

iCLASS SE & SE Legacy 13.56 MHz readers and credentials



iCLASS® SE Readers

Keyscan iCLASS SE goes beyond the traditional smartcard model to offer a secure identity data structure based on Secure Identity Object (SIO), a new portable credential methodology. Use with KC2K2SE clamshell card, KI2K2SE ISO smart-card, or KF2K2SE smart fob credentials.



iCLASS SE readers:

KR10SE mullion

KR40SE single-gang

KRK40SE with keypad

iCLASS SE credentials:

KC2K2SE clamshell card

KI2K2SE ISO smartcard

KF2K2SE smart fob



iCLASS® SE Legacy Readers & Credentials

iCLASS SE legacy readers and credentials make access control more versatile and provide security through encryption and mutual authentication between the card and reader. They are available for use with existing SE legacy access control environments and must be used with KC2K2SR clamshell card, KI2K2SR ISO smart-card, KI16K16SR ISO 16K smartcard or KF2K2SR smart fob iCLASS® SE legacy credentials.



iCLASS legacy readers:

KR10L mullion

KR40L single-gang

KRK40L with keypad

iCLASS legacy credentials:

KC2K2SR clamshell card

KI2K2SR ISO smartcard

KI16K16SR ISO 16K smartcard

KF2K2SR smart fob



Standard security readers & credentials

dormakaba's selection of 125kHz technology readers offer universal compatibility for our 125kHz technology credentials. They are affordable readers featuring multiple mounting options, heartbeat intelligence, and anti-tamper capability and are designed for exclusive use with Keyscan's Present3 and facility lockdown function (firmware may be required). They function with Keyscan and Farpointe 36-bit format credential series.



K-PROX3 Reader

125 kHz reader

K-PROX3 is a reliable and affordable reader featuring multiple mounting options, heartbeat intelligence, and anti-tamper capability. K-PROX3 offers unique features designed for exclusive use with Keyscan's Present3 and facility lockdown function (firmware or programming may be required). Use with CS125-36 clamshell, PSM-2P-H ISO, PSK-3-H fob, or PDT-1-H tag credentials.



K-KPR

125 kHz keypad reader

The Keyscan K-KPR reader and keypad provides a sleek finish with clear LED illumination for access granted and denial indications. Use with CS125-36 clamshell, PSM-2P-H ISO, PSK-3-H fob, or PDT-1-H tag credentials.



K-VAN

125 kHz vandal-resistant reader

K-VAN is constructed of a solid stainless steel body and fibertex, bullet resistant technology. It's an ideal proximity reader for indoor or outdoor applications where aggressive behavior, crime or high-threat environments could be expected. Use with CS125-36 clamshell, PSM-2P-H ISO, PSK-3-H fob, or PDT-1-H tag credentials.



CS125-36 credential

36-bit clamshell card

The Keyscan CS125-36 standard proximity clamshell cards are designed to be used with Keyscan proximity readers K-PROX3, K-PROX2, K-KPR, K-VAN as well as most Farpointe and HID 125kHz technology readers.

Farpointe 125 kHz readers and credentials



Farpointe Data 125 kHz series readers

Farpointe Data 125 kHz standard security readers and credentials are now available through dormakaba. Quality RFID technology, these function on Keyscan access control systems by complying with the Wiegand communication protocol. They make an ideal and cost effective alternative to other brands of low frequency readers and credentials.



Farpointe reader series:

P-620-H (mullion keypad reader)

P-710-H (enhanced range reader)

P-910-H (long-range reader)

Farpointe credential series:

PSM-2P-H ISO card credential

PSK-3-H fob credential

PDT-3-H tag credential



125 kHz technology readers and credentials

For dealers, integrators and end-users who prefer it, we are a HID Platinum Partner. These readers and credentials seamlessly function with Keyscan access control systems and have a host of features plus a range of stylish cover designs.



125 kHz technology readers:

HID-6005B (mini mullion)

HID-5365 (mini prox)

HID-5395 (slim line)

HID-5455 (prox pro)

HID-5355KP (prox pro with keypad)

HID-5375 (long-range)

125 kHz technology credentials:

HID C1325 clamshell card

HID C1386 ISO smartcard

PROXKEYIII fob

HID 1391 tag



Mobile access credentials

Access control solutions for a digitized world

Our Keyscan Mobile Credential brings convenience to commercial facilities secured with Keyscan access control systems. System administrators now have the option to issue mobile credentials and authorize access to entrances, elevators, parking areas and other exit/entry points throughout commercial buildings.

Keyscan Mobile Credential is a cloud-based credential delivery app for use with new or existing Keyscan access control systems equipped with K-SMART3 BLE Readers and Keyscan Aurora software version 1.0.16.0 or later.

The mobile mindset of today's generation demands choice and convenience. We've become an online, on demand, digitized culture that expects interactive technology to deliver intuitive, self-guided and personalized user experiences.

Opening the door to a new era of instant access is dormakaba.

Available credentials:

K-BLE Keyscan mobile credentials - 50 pack

K-BLE-10 Keyscan mobile credentials - 10 pack



Benefits of Keyscan Mobile Credentials:

- Non-intrusive app with a simple one-time mobile device registration
- Mobile credentials remain secure and protected behind password or biometric security of a mobile device
- No on-boarding process
- No manufacturer 'cloud' portal account required
- User can store up to 10 mobile credentials on a single device
- No BLE activation or programming is required at each reader
- Manage user data, purchase and distribute mobile credentials directly through Keyscan Aurora Version 1.0.16.0 (internet connectivity and email client set up recommended)

How to Purchase:

Mobile credentials can only be purchased direct from dormakaba Canada Inc.

To inquire about, or purchase, mobile credentials, contact our mobile credential administrator at 1 888 539-7226.

K-SMART3 BLE readers and Keyscan Aurora software can be purchased at your preferred distributor.

Wireless RF access systems

Keyscan K-RX Wireless Receiver & Transmitters

The Keyscan K-RX wireless receiver is a good selection for parking garage, gate and many other long-range applications. Functions with K-TX2, K-INTX2 or K-TX2-1K (13.56MHz) transmitter fobs from up to 200 feet. Transmitters can also function as a fob within your facility.

Available receiver and transmitters:

K-RX wireless receiver

K-TX2 4-button wireless transmitter (HID coil)

K-INTX2 4- button wireless transmitter (indala coil)

K-TX2-1K 4- button wireless transmitter (13.56MHz)
(for K-SMART3, K-SMART and K-SKPR high security readers)



Wireless & keyless lock systems



E-Plex 7900 wireless networked RFID locks

E-Plex 7900 series wireless networked RFID locks are available in mortise, cylindrical and exit trim options. They function with Keyscan mobile credentials and a host of proximity or smart card options. They integrate with Keyscan Aurora software to provide a sophisticated lockdown response capability, plus much more. E-Plex 7900 offers reliable security and versatility for education, healthcare, retail, multihousing and commercial access control applications — making access in life smart and secure.

Available models:

E79203KF20	E-Plex 7900 125 kHz RFID wireless lock (Ilco KIL cylinder, keyed different)
E79203BF20	E-Plex 7900 125 kHz RFID wireless lock; Best (SFIC) and equivalents (core not included)
E79113KF20	E-Plex 7900 13.56MHz MiFare RFID wireless lock w/Keyscan BLE
E79113BF20	E-Plex 7900 13.56MHz MiFare RFID wireless lock w/Keyscan BLE



E-Plex wireless locks

E-Plex® series' wireless locks integrate with Keyscan Aurora software to manage and monitor multiple access points. Detailed audit reports and user activity by door and credential make E-Plex trusted for undisputed accountability.

Available models:

E-Plex 5600	Functions with 13.56 MHz mifare smart card credentials (Narrowstile model: E-Plex 3600)
E-Plex 5700	Functions with 125 kHz proximity credentials (Narrowstile model: E-Plex 3700)



PowerPlex 2000 keyless self-powered lock

The self-powered electronic lock generates its own power through PowerStar™ technology, making it the most efficient and versatile electronic lockset available with virtually no maintenance costs. No batteries. No wires. No problems. PowerPlex puts the power of total access control in your hands.

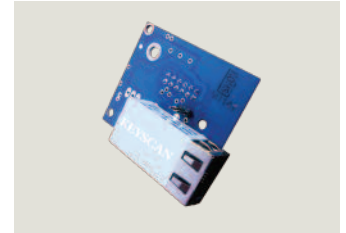
Available models:

P2031KK	Self-powered electronic keyless lock -100 USERS
P2031KB	Self-powered electronic keyless lock - No cylinder (Best)

Control & peripheral products

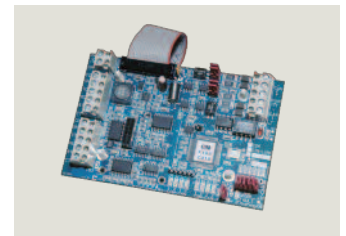
NETCOM2P TCP/IP Plug-on Communication Adaptor

Networking a Keyscan access control unit is made easy by using the Keyscan NETCOM2P plug-on adaptor. Designed to plug directly onto the CIM to establish network connection OR can plug directly onto ACU board for direct network connectivity. Also available as off-board module with DIP switch settings (NETCOM2). Encrypted version also available AES Rijndael 256 bit (NETCOM6P).



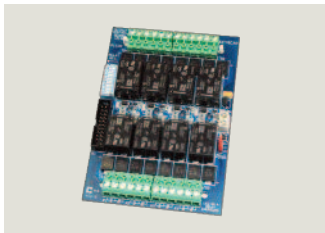
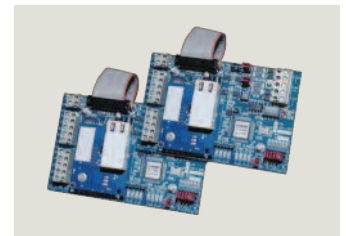
CIM (Communications Interlink Module)

A CAN Bus communication network control module. Designed to provide optimized server to access control unit (ACU) communication and give users a new ACU to ACU network providing inter-panel communication for global functions. The CIM also includes enhanced device-based diagnostics and improved communication speeds.



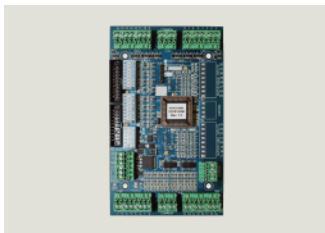
CIM-Link Global Network Connectivity Module

The Keyscan CIM-Link is a TCP/IP companion module, which incorporates multiple CIM CAN Bus communication loops into a single global infrastructure via LAN/WAN network.



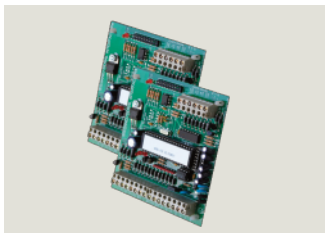
OCB8 Form C relay board

The OCB8 is for use with Keyscan controllers when you need a dry contact closure for auxiliary equipment, such as additional floor control for Keyscan elevator floor controllers. Also allows added auxiliary outputs to Keyscan CA4500 and CA8500 door controllers to trigger response such as sirens, alarms, strobe lights or further restrict access.



IOCB1616B Input and Output Expansion Board

Used for additional input and output capabilities. IOCB1616B provides 16 additional inputs and 16 additional open collector outputs for to CA4500 and CA8500. May be remote mounted up to 4000 ft from the control panel. Ideal for monitoring exit only doors, glass breaks, motion detectors and any other sensing device throughout your Keyscan system. Also available with a separate metal enclosure and power supply board (Part no. IOCB1616).



WIEEX2 Wiegand Extender Board

When circumstances dictate a long cable run between control panel and reader, exceeding 500 feet, rely on the Keyscan WIEEX2 Wiegand Extender. Converts the Wiegand signal to standard RS485 and provides a communication range of up to 4000 feet between WIEEX2 receiver and WIEEX2 transmitter while using standard CAT5 cable between units.

Integrated software solutions

Integration is more than the sum of all parts.

dormakaba has a proven track record of understanding and solving the complex challenges of integrated building access and security. Our goal is to provide sustainable access solutions that create a safety-forward culture for protecting people and property.

Our suite of access management software platforms are engineered to function in tandem. We offer reliable solutions

designed to support the growing demand for integrated access technologies that provide greater connectivity and performance.

Our comprehensive product portfolios are powerful examples of our dedication to providing premium security and access systems that perform as designed throughout the life of your building.

Aurora integration solutions for unique multihousing and lodging applications



Keyscan Aurora integrates with dormakaba's Community and Ambiance access management software platforms. This integration is designed for unique back-of-the-house access control for multihousing or lodging properties. Whether you are managing a hotel/resort or market rate apartments, privatized student housing or senior living facilities, dormakaba now offers a centralized interface to manage all aspects of property access control from individual living spaces to property perimeter.

- Automatically add or remove resident authorization and access points secured by Keyscan in real-time
- Manage access control through a shared database and single GUI interface
- Streamline day-to-day resident access management
- Offers key control from anywhere
- Enhance resident convenience with mobile access
- Easy installation with no additional encoding required

SMART elevator systems integration

Keyscan systems can also integrate with select SMART elevator passenger management systems from KONE. These innovative elevator dispatch systems manage building traffic by grouping passengers, for the same destinations, into the same elevator.

- Improves efficiency of building and elevator traffic and waiting time
- Users present their existing credential to an elevator kiosk to utilize the system
- Keyscan Aurora authenticates user permissions and floor access to grant or deny access to destination floors
- Provides a full report on elevator activity through Aurora reporting structure



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