

# VERTIV PHYSICAL SECURITY CAPABILITIES

*September 2017*



# KEY ACCESS CONTROL

## Keyed-Alike Locks

- All cylinders operated by same key

## Master-Keyed Locks

- Each cylinder operated by unique key
- Master key operates the set of cylinders

## Combination Locks

- Supports a 3-digit sequence of numbers



# MECHATRONIC ACCESS CONTROL

## Card and Combo Card/Keypad lock solutions

### Up to four factor authentication

- One person card (one-factor)
- One person card + pin (two-factor)
- Two person card (two-factor)
- Two person card + pin (four-factor)

### Three system architectures

- Rack level access control – distributed
- Door level access control – distributed
- Door level access control – data center/colo
- Door level access control – Wiegand handle

### Administration Suite software

- Centralized administration, monitoring and alerts

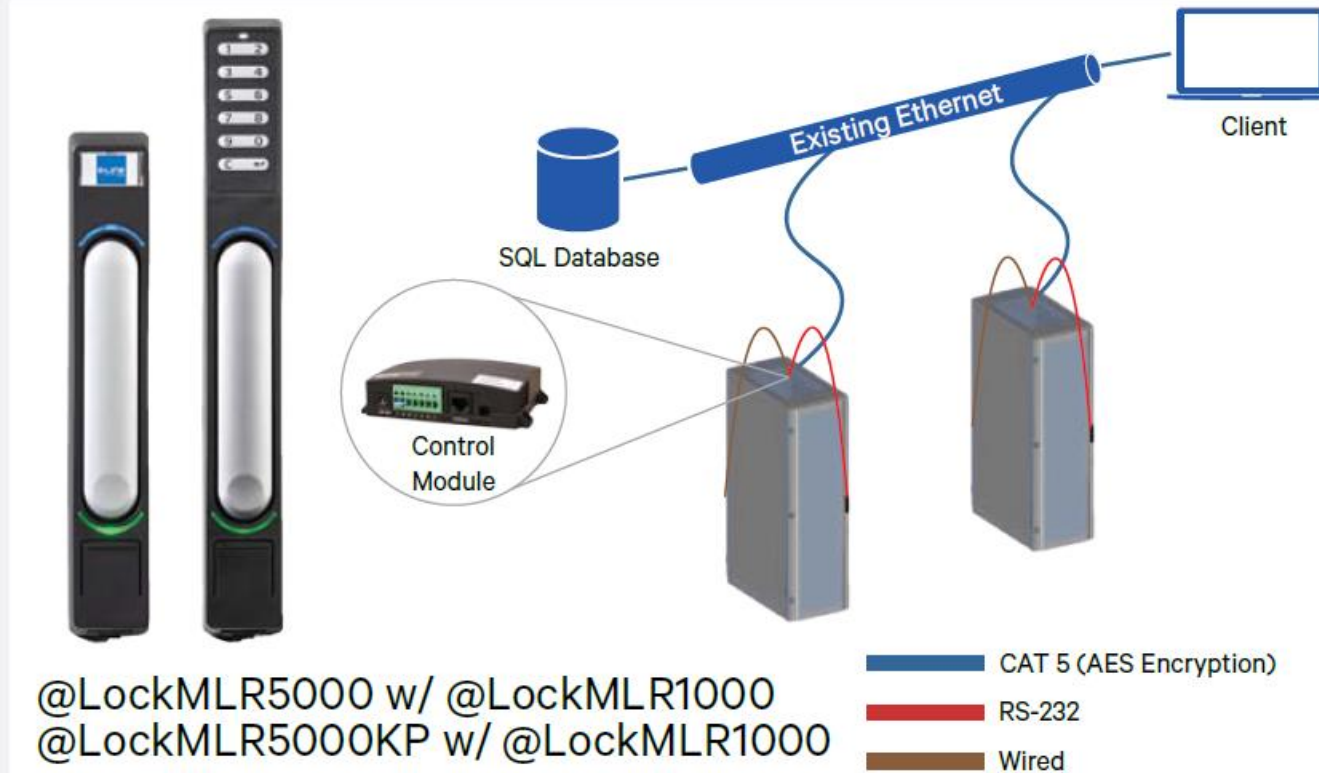
### Battery pack for loss of power conditions



# RACK LEVEL ACCESS CONTROL – FOR DISTRIBUTED LOCATIONS

- For use in low density or individual rack applications with 4 or fewer racks in one location
- Provides access control at the rack level with only one reader per rack

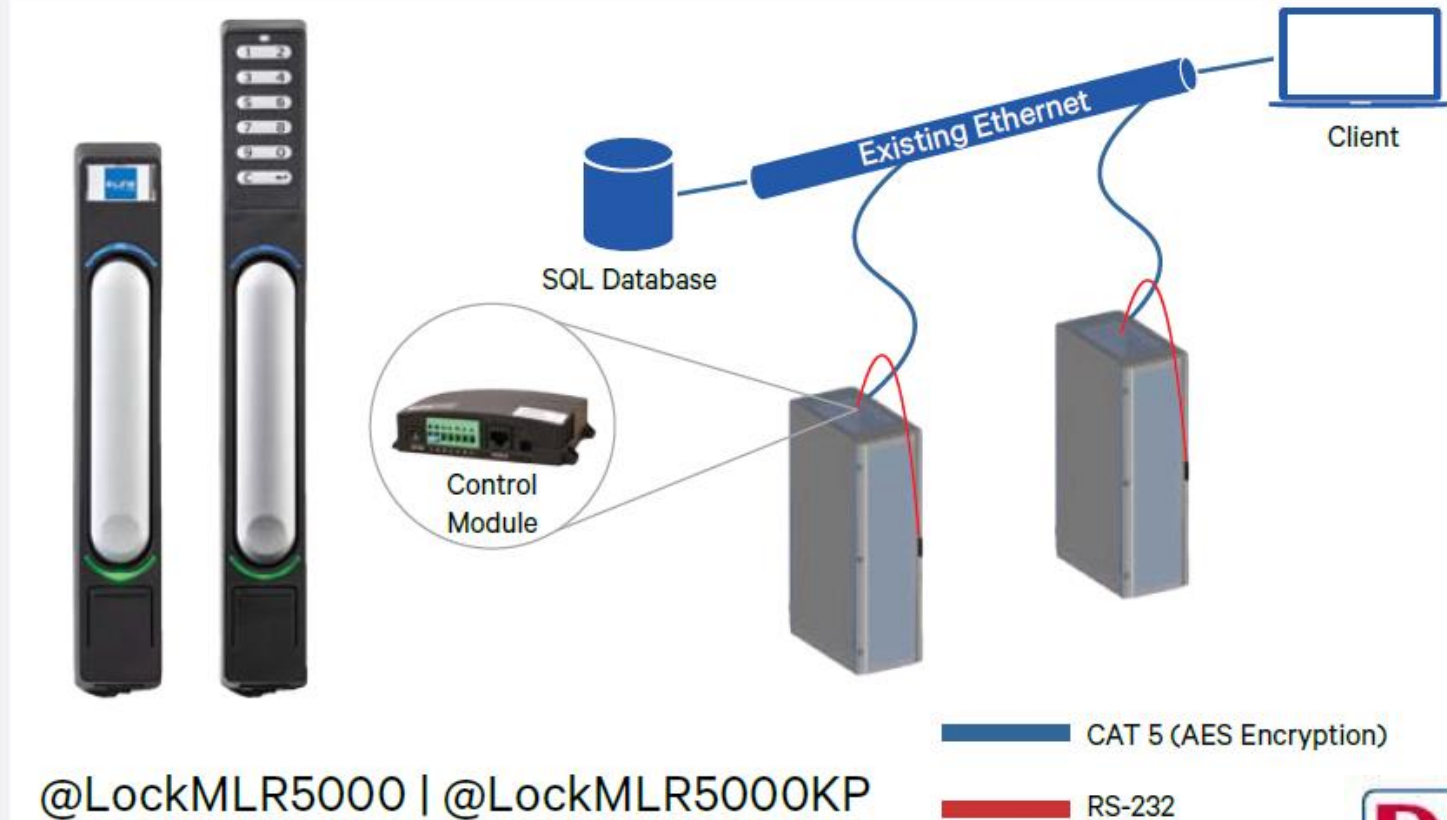
- Integrates into the Administration Suite software (encapsulating data center security)
- Master handle on the front door of the rack with a slave handle on the rear door
- Access is granted per cabinet
- Each rack is individually IP addressed
- Compatible with all RFID card types (125kHz or 13.56MHz)
- Rack functions and audits in network down and power down state
- Dual-factor authentication (RFID + Keypad)  
\*Two person initiative capable
- LEDs create visual alerts for authorization, temperature, alarm, and lock statuses
- Retrofit into any existing rack (customized adapters available)



# DOOR LEVEL ACCESS CONTROL – FOR DISTRIBUTED LOCATIONS

- For use in low density or individual rack applications with 16 or fewer racks in one location
- Provides access control at the door level with only one reader per door, while minimizing wiring installation
- Access is granted per individual rack door

- Integrates into the Administration Suite software (encapsulating data center security)
- Each handle is individually IP addressed
- Compatible with all RFID card types (125kHz or 13.56MHz)
- Handle functions and audits in network down and power down state
- Dual-factor authentication (RFID +Keypad)  
\*Two person initiative capable
- LEDs create visual alerts for authorization, temperature, alarm, and lock statuses
- Retrofit into any existing rack (customized adapters available)

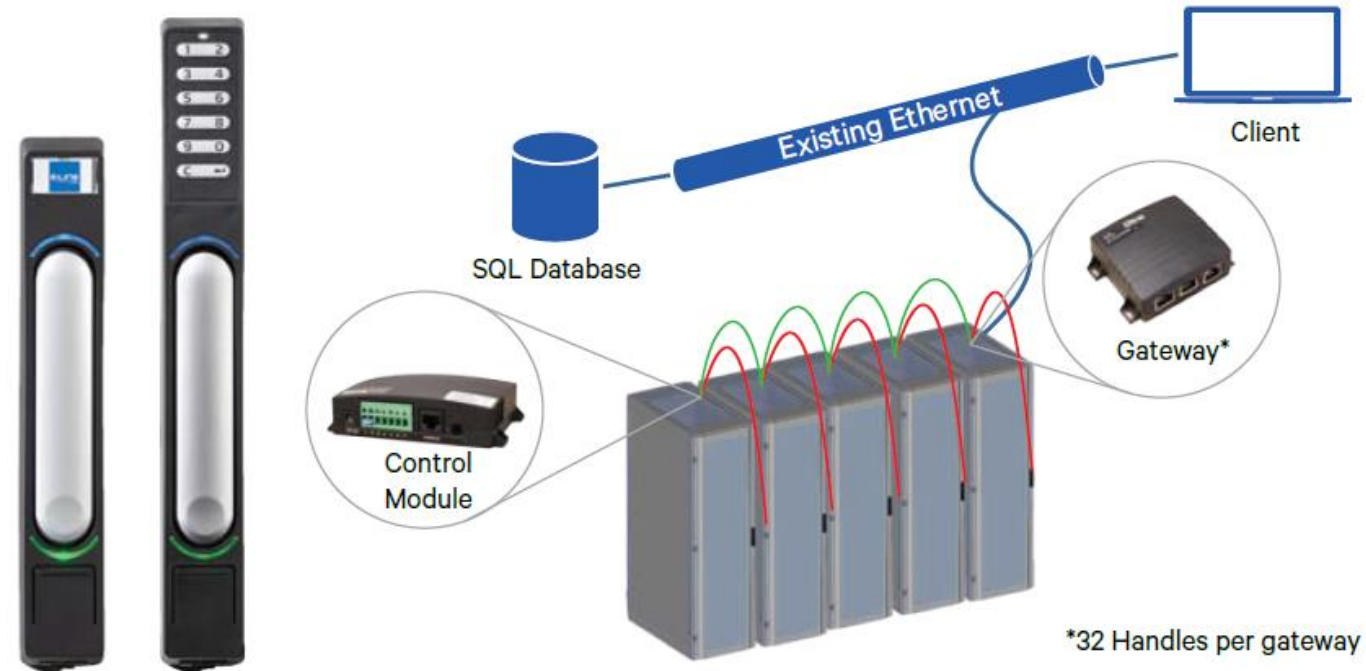




# DOOR LEVEL ACCESS CONTROL – FOR DATA CENTERS/COLOS

- For use in high density data center applications with 16 or more racks in one location
- Provides access control at the door level with one reader per door, minimizing the use of static IP addresses
- Access is granted per individual rack door

- Integrates into the Administration Suite software (encapsulating data center security)
- RS-485 bus system allows for one IP addressed gateway to manage up to 32 handles
- Compatible with all RFID card types (125kHz or 13.56MHz)
- Handle functions and audits in network down and power down state
- Dual-factor authentication (RFID +Keypad)  
\*Two person initiative capable
- LEDs create visual alerts for authorization, temperature, alarm, and lock statuses
- Retrofit into any existing rack (customized adapters available)



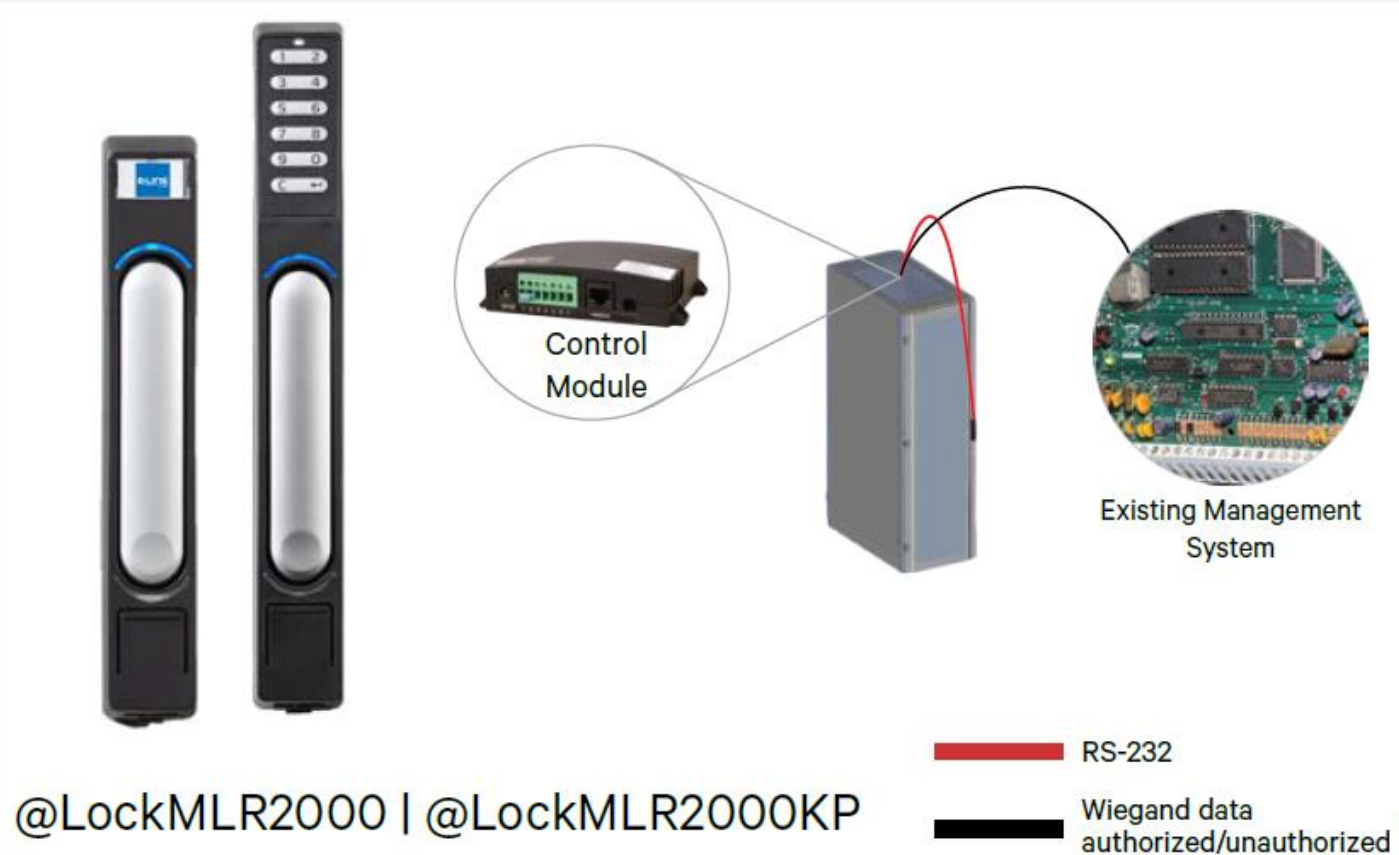
@LockMLR3000 | @LockMLR3000KP

- CAT 5 (AES Encryption)
- RS-232
- RS-485



# DOOR LEVEL ACCESS CONTROL - WIEGAND HANDLE

- For use with existing management security systems via Wiegand protocol
- Provides access control at the door level for integration with existing Physical Access Control System (PACS)
- Access is granted per individual rack door
- Compatible with all RFID card types (125kHz or 13.56MHz)  
\*iClass Elite Key available upon request
- Dual-factor authentication (RFID +Keypad)  
\*Two person initiative capable
- LEDs create visual alerts for authorized/ unauthorized access
- Upper LED is configurable via dip switch for unique identification
- Retrofit into any existing rack (customized adapters available)



# BIOMETRIC ACCESS CONTROL

## Biometric fingerprint lock solutions

- Combined Biometric Fingerprint, Pin and/or HID iClass Card (13.56MHz)

## One to three factor authentication

- One person fingerprint plus pin and/or card

## Two system architectures designed for high density applications

- End of row level access control
- Door level access control

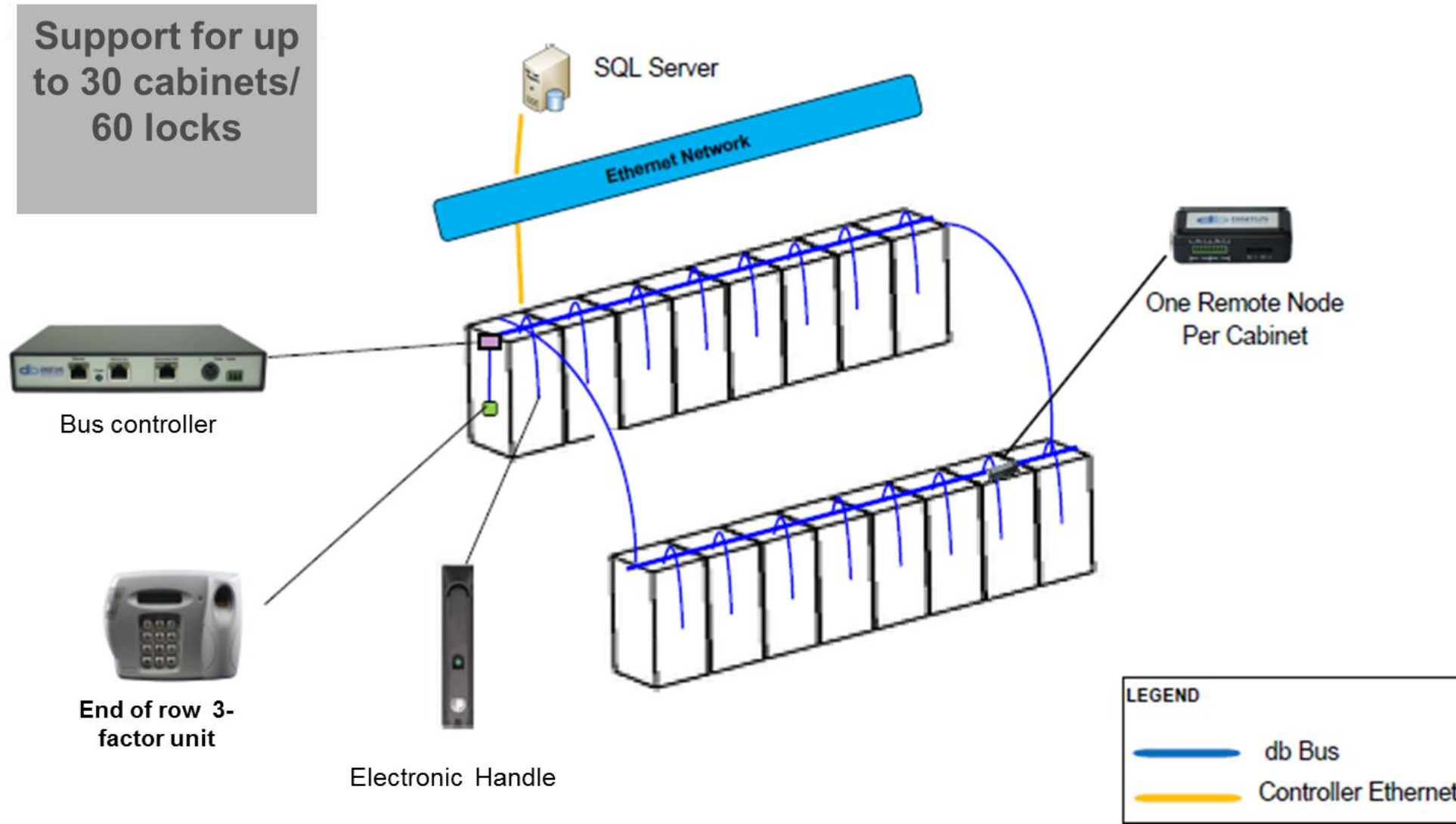
## db Access software

- Centralized administration, monitoring and alerts

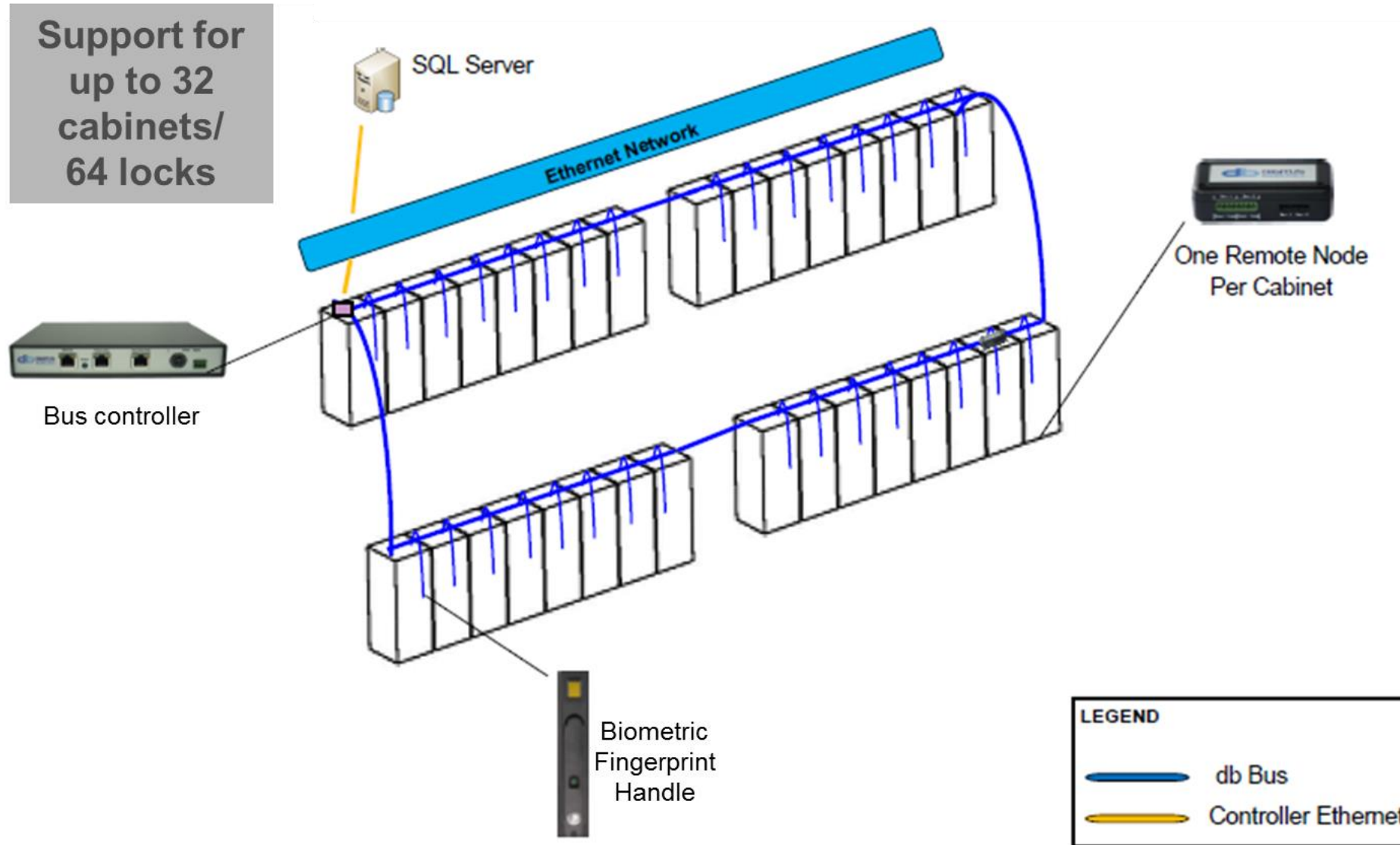




# SYSTEM ARCHITECTURE: END OF ROW ACCESS CONTROL



# SYSTEM ARCHITECTURE: DOOR ACCESS CONTROL



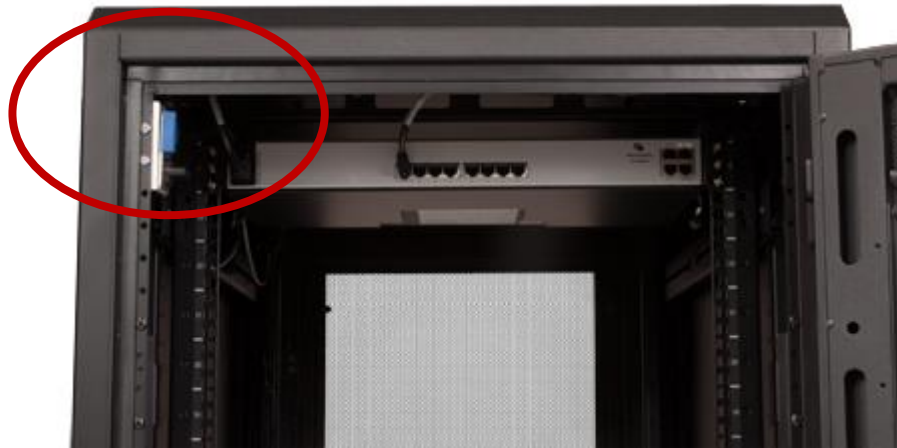
# “AT-THE-RACK” INTRUSION DETECTION

Real-time alerts when cabinet doors/panels are ajar

Cabinet door and panel dry contact sensors

Monitored interfaces include

- Web/SNMP interface – RPC2 / Unity Cards
- Nform software



# “AT THE RACK” SURVEILLANCE

## Two Offerings

- **M1013:** SVGA resolution
- **M1025:** HDTV 1080p/2 MP resolution; HDMI output (Micro) in HDTV 720p; Power over Ethernet

## Main Features

- Small, Flexible Design
- Edge storage on microSD card
- Recording to network attached storage
- Video motion detection and active tampering alarm
- H.264 and Motion JPEG streams and compression
- Easy install and configuration

**M1013**



**M1025**







**THANK YOU**