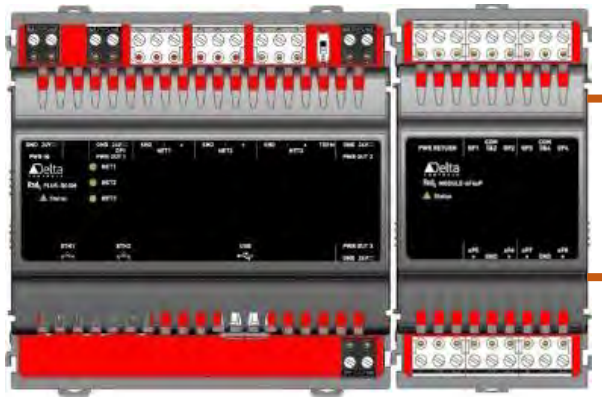
Delta Intelligent Building Technologies

Access & Lighting Control





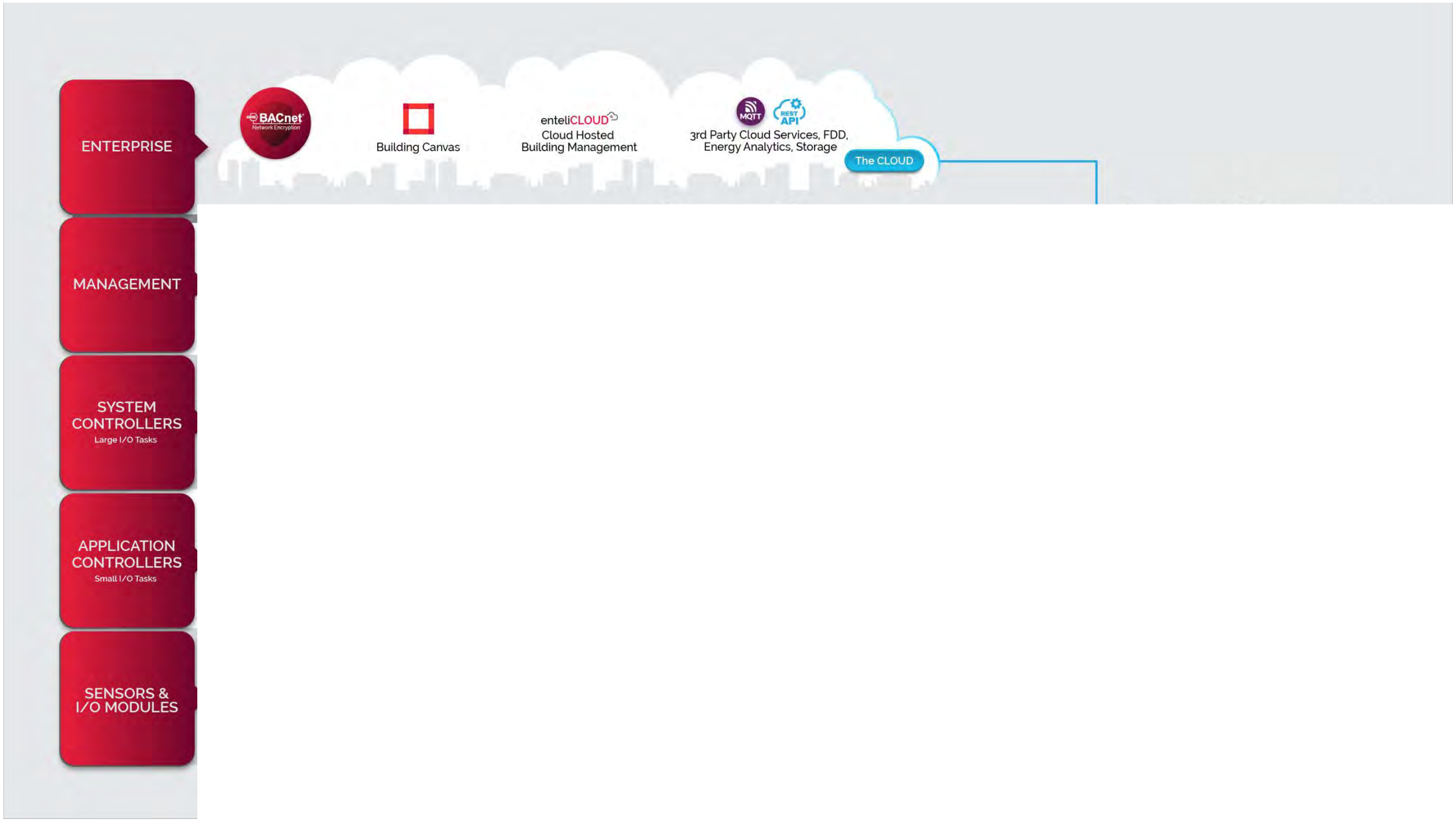


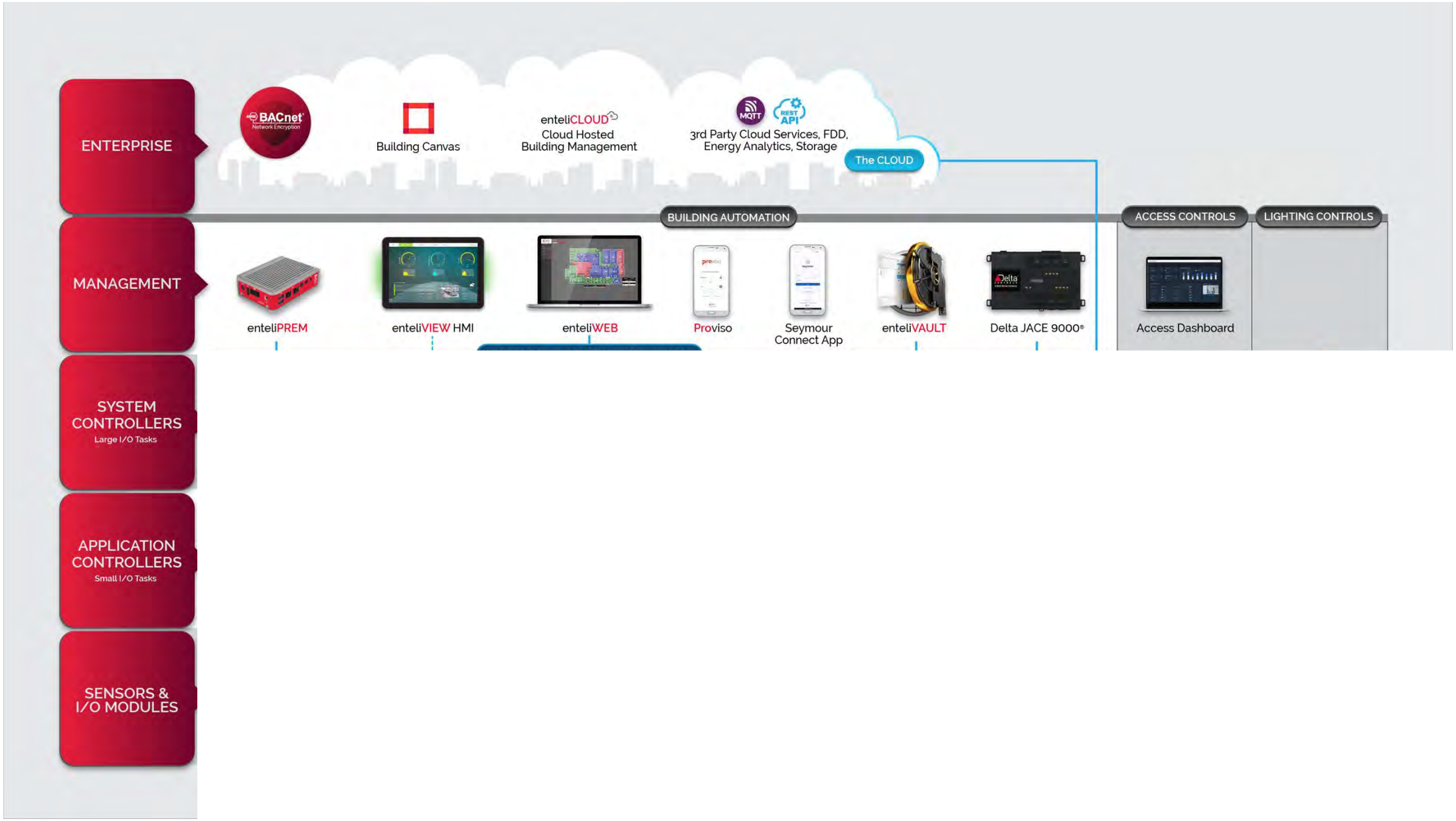


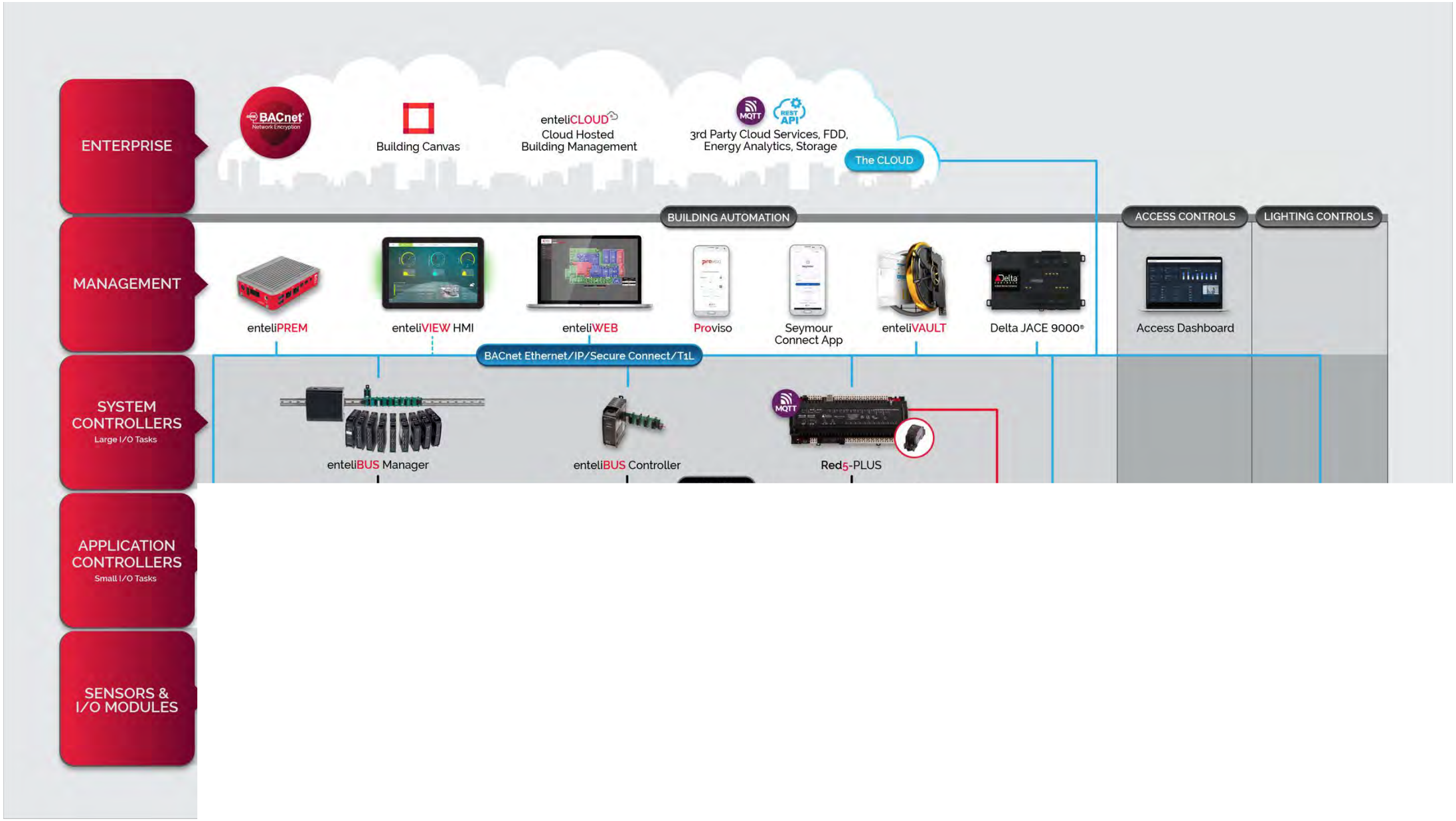


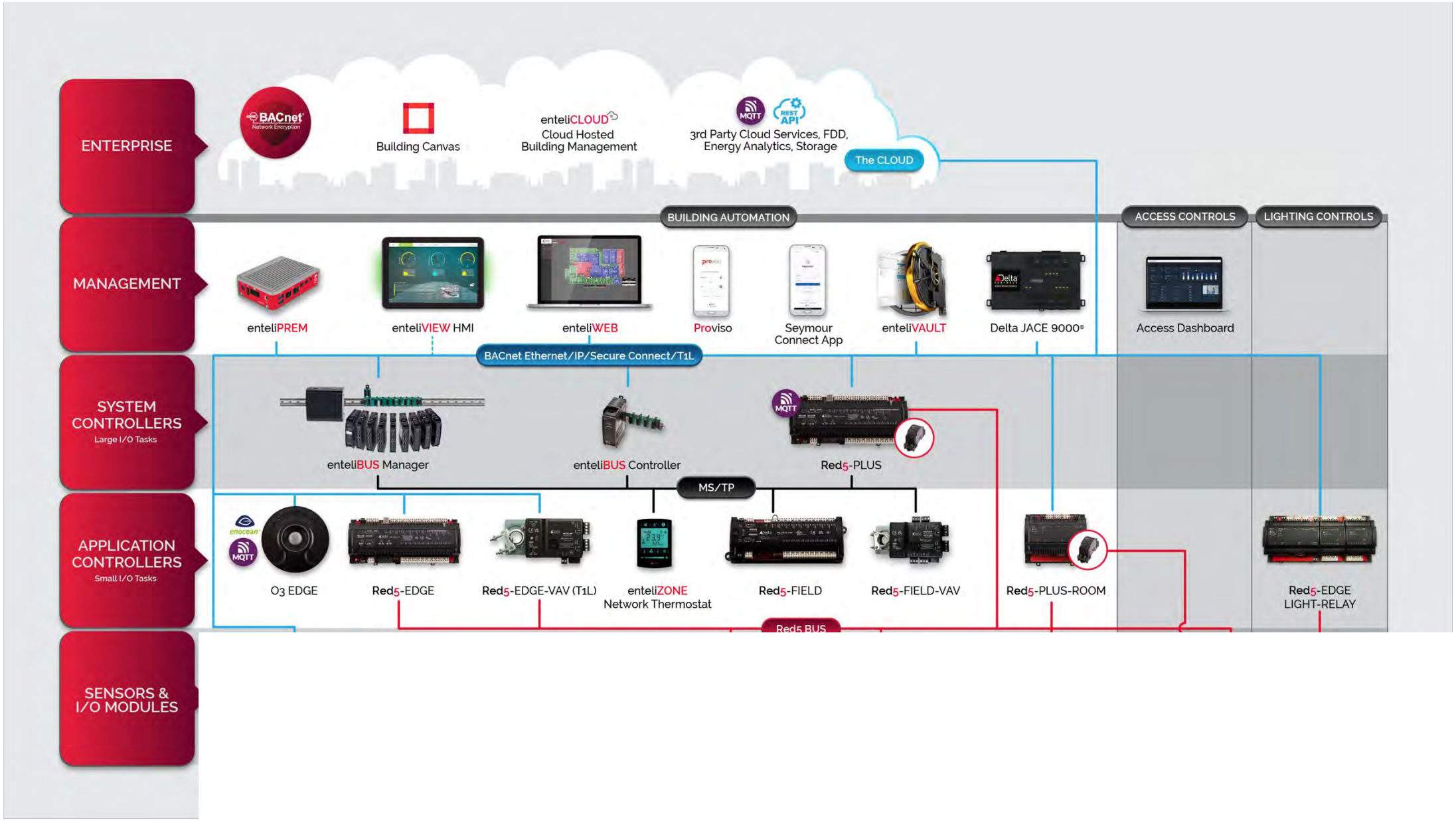


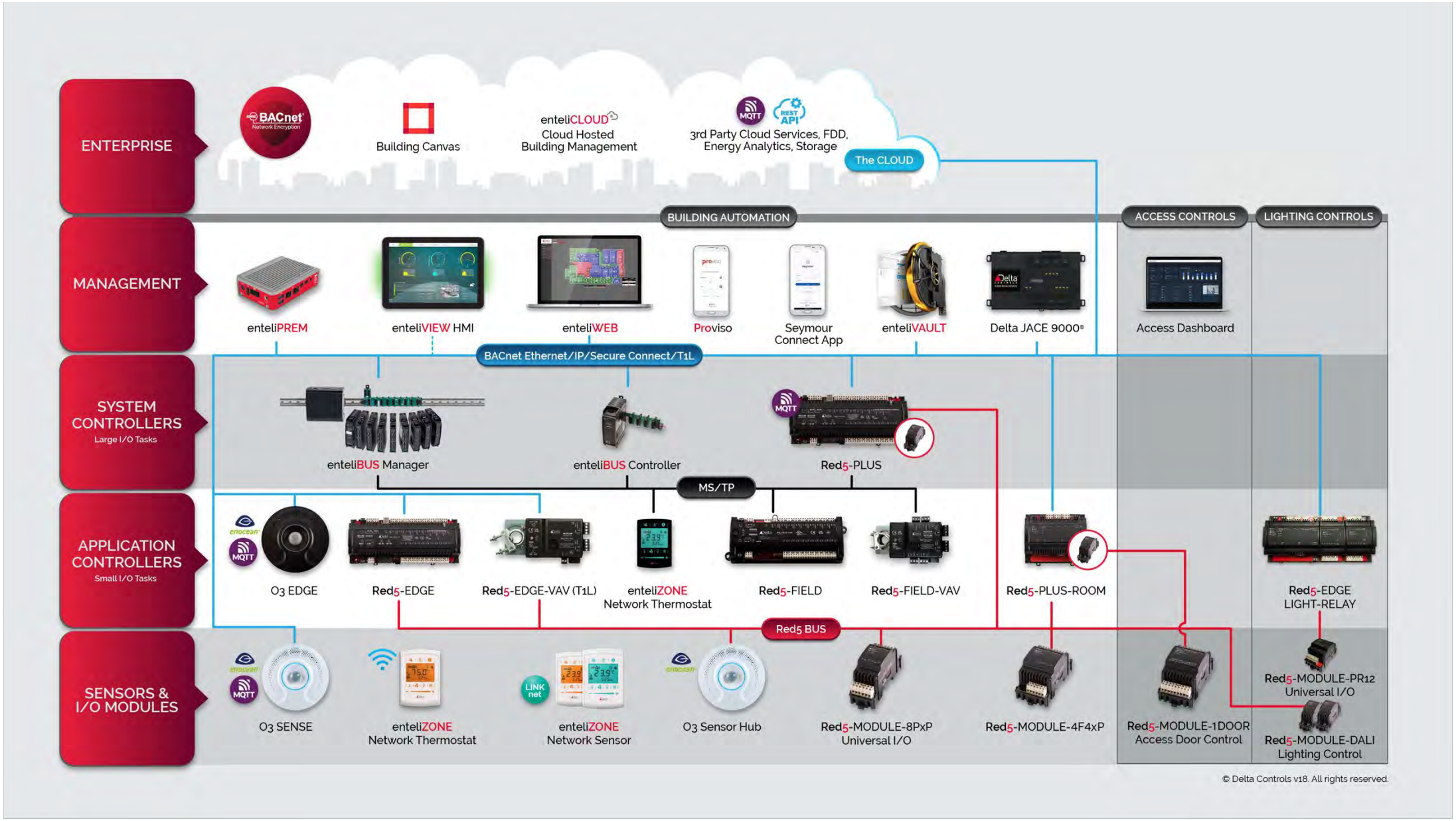
Delta Intelligent Building Technologies


ENTERPRISE
MANAGEMENT
SYSTEM CONTROLLERS
Large I/O Tasks
APPLICATION CONTROLLERS
Small I/O Tasks
SENSORS & I/O MODULES
BACnet
Network Encryption
Building Canvas
enteliCLOUD
Cloud Hosted
Building Management
MQTT
REST API
3rd Party Cloud Services, FDD,
Energy Analytics, Storage
The CLOUD


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MS/TP
enocean
O3 EDGE
Red5-EDGE
Red5-EDGE-VAV (T1L)
enteliZONE Network Thermostat
Red5-FIELD
Red5-FIELD-VAV
Red5-PLUS-ROOM
Red5-EDGE LIGHT-RELAY
Red5 BUS



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Ecosystem

Management Software

Sensing Technology

Native hardware & software



I/O Control

Access Control

Lighting Control

HVAC Control

Energy Management

Access Control Within the Ecosystem

BACnet Native. Modular. Interoperable



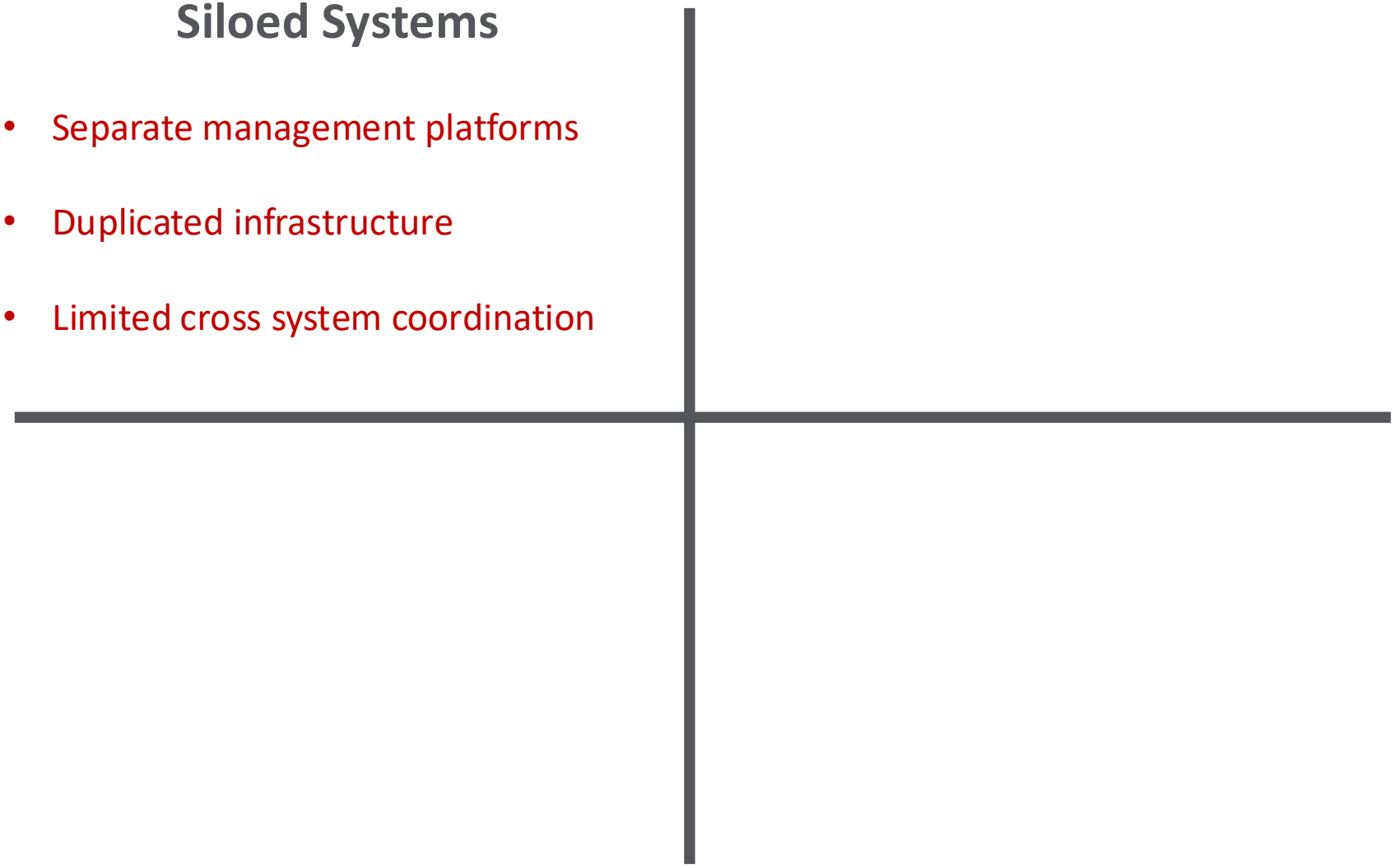
ASHRAE BACnet™

OSDP™

Common Access Control Challenges

Siloed Systems

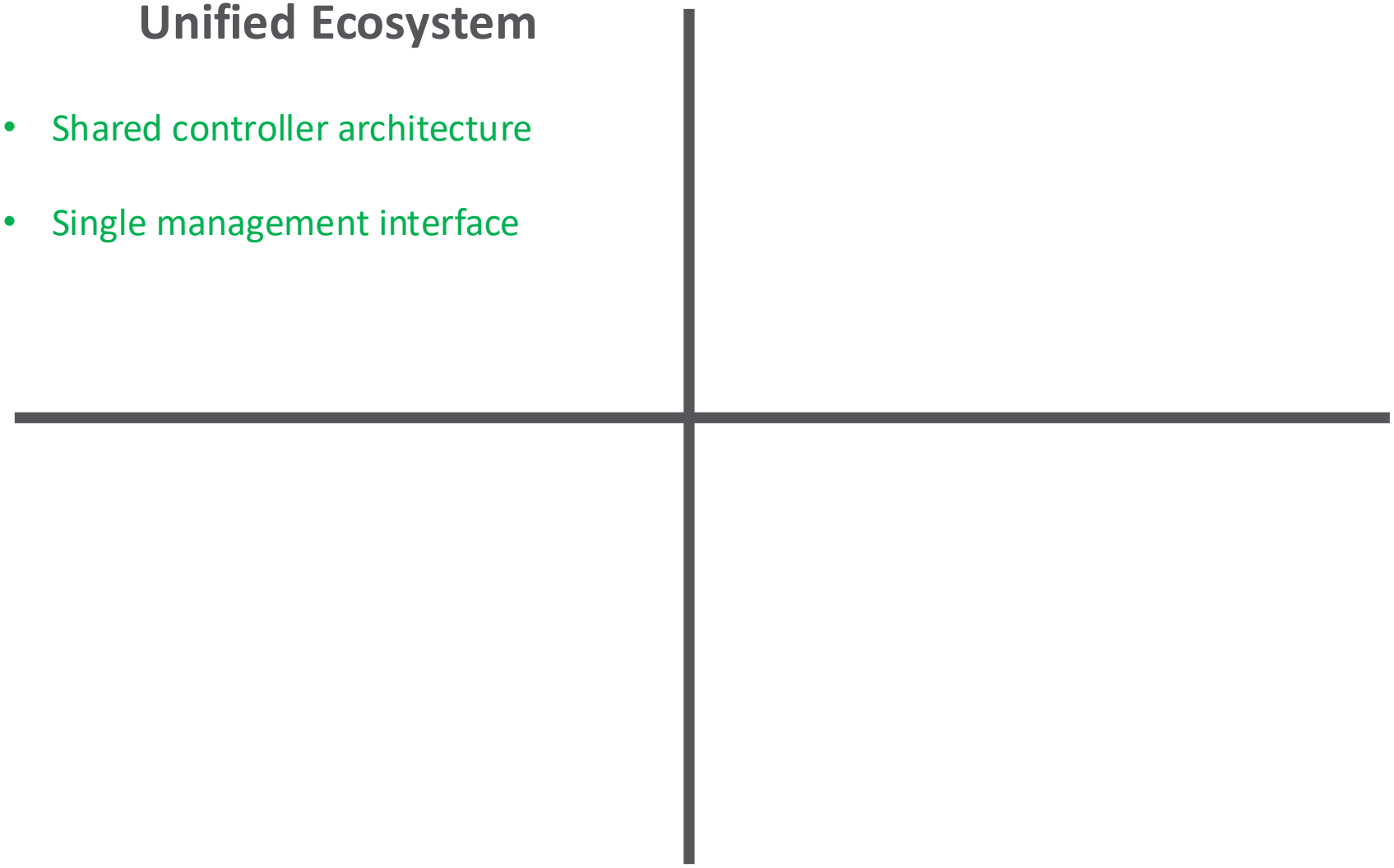
- Separate management platforms
- Duplicated infrastructure
- Limited cross system coordination



Red5 Access Control Approach

Unified Ecosystem

- Shared controller architecture
- Single management interface



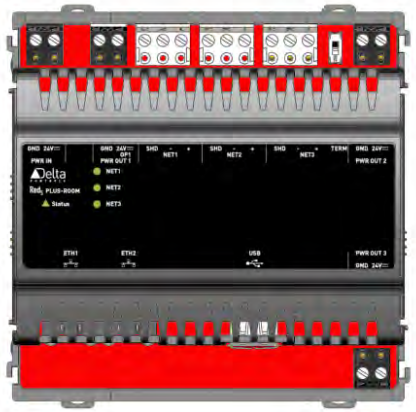
System Architecture

Management & Configuration



BACnet/SC

Door Modules



BACnet Native Controller



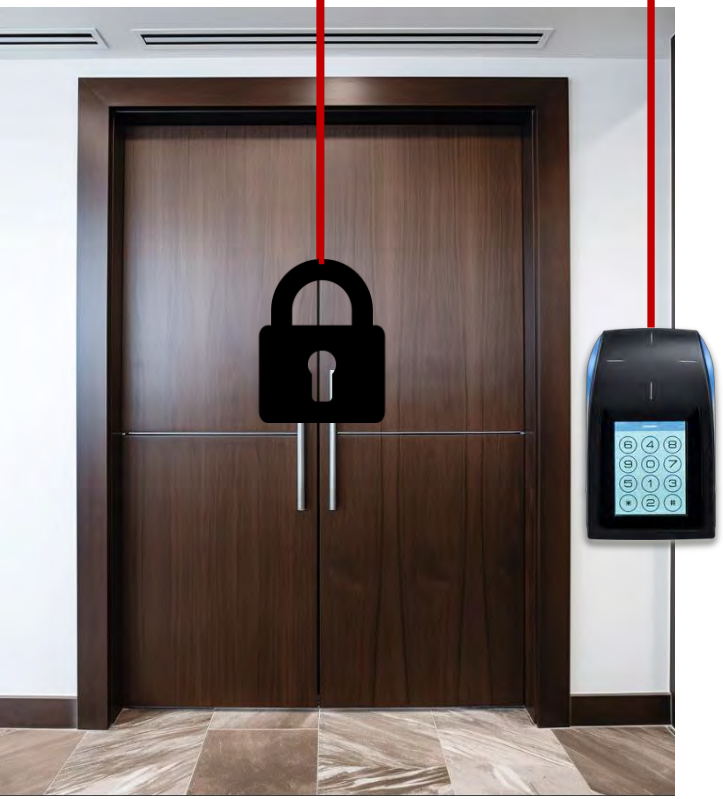
Modular Door Expansion

OSDP™



Secure Reader Communication

Capacity & Scalability



Red5-PLUS-ROOM - Max 24 doors per controller

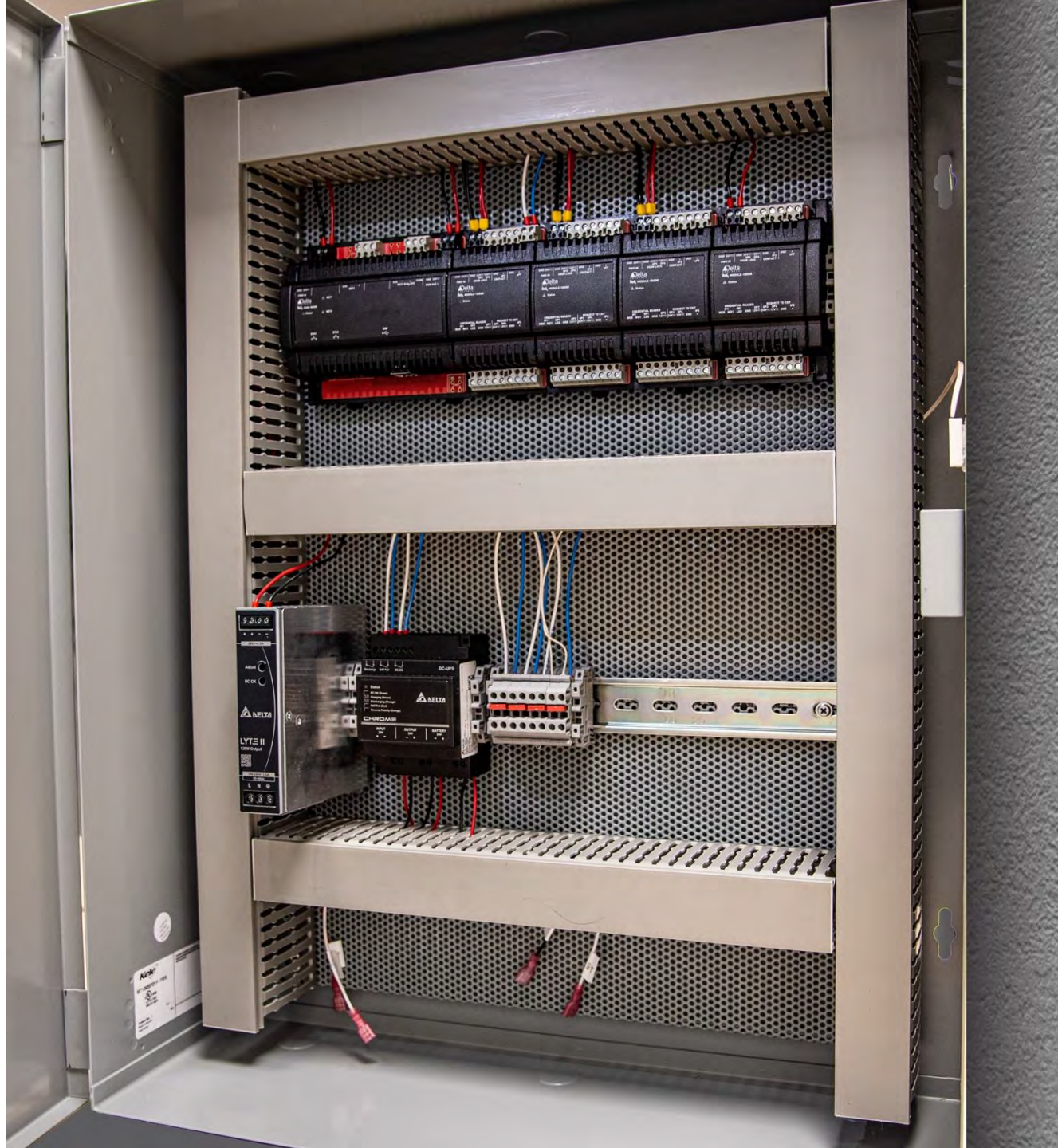


Red5-EDGE-ROOM - Max 4 doors per controller

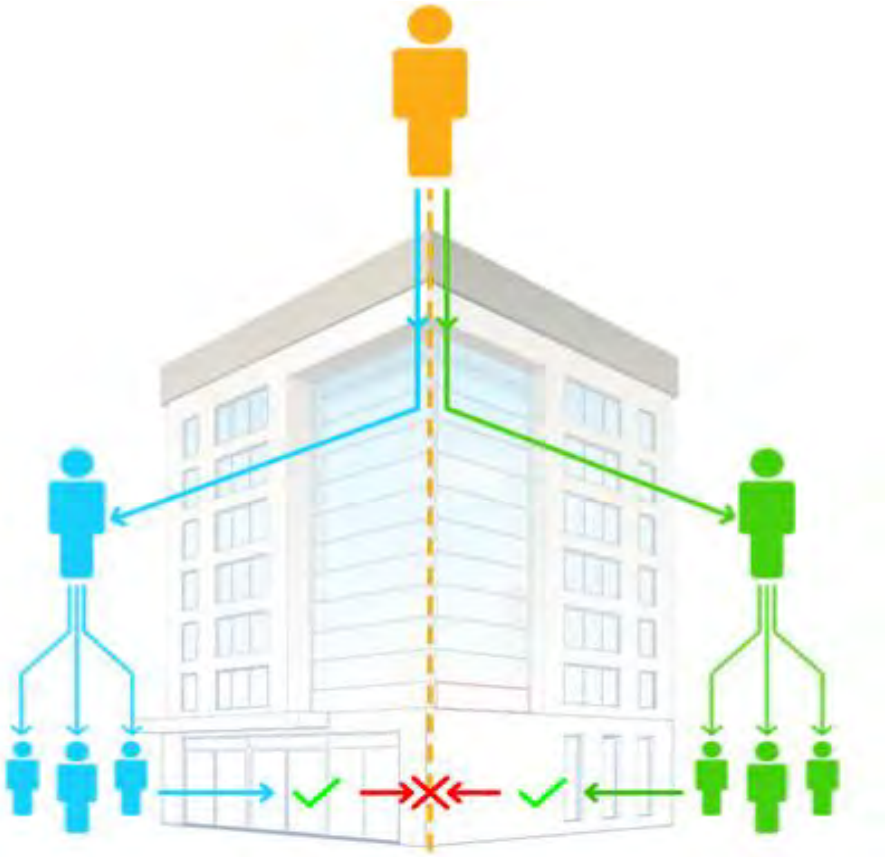


Simplified Deployment

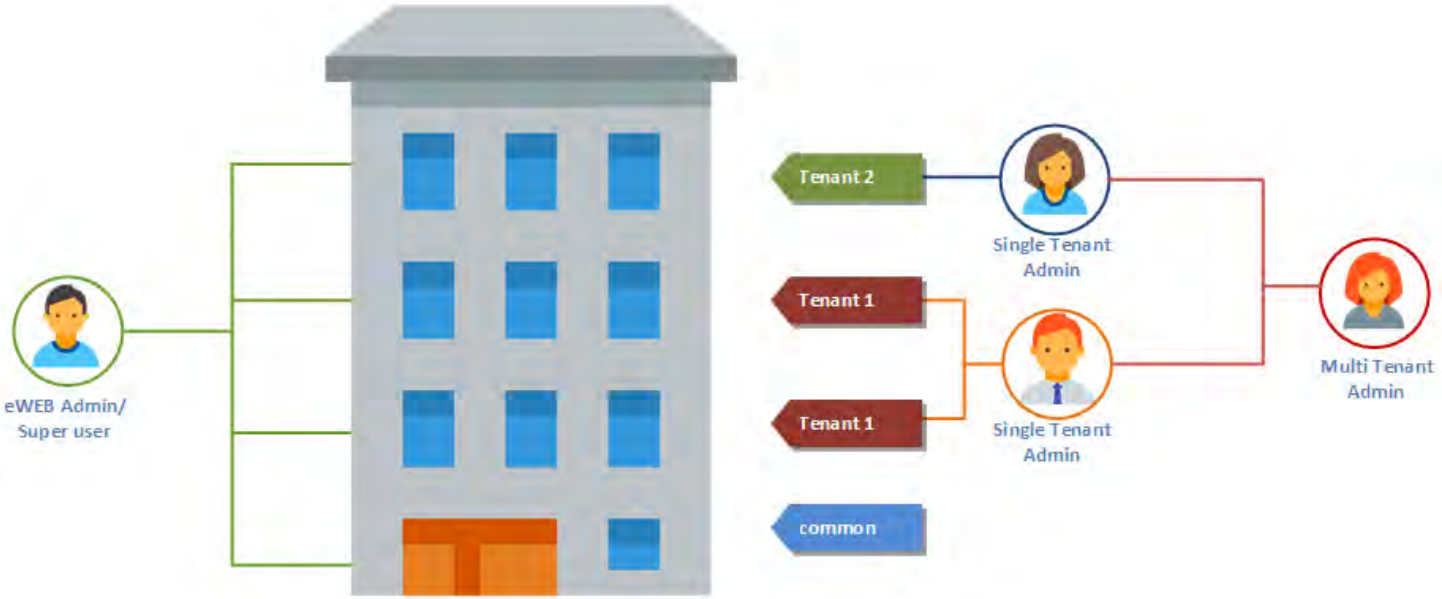
- Pre-built & pre-wired solution
- Integrated controller, modules and power
- Reduced installation time
- Door wiring & power connection only



Multi-tenant Access Management

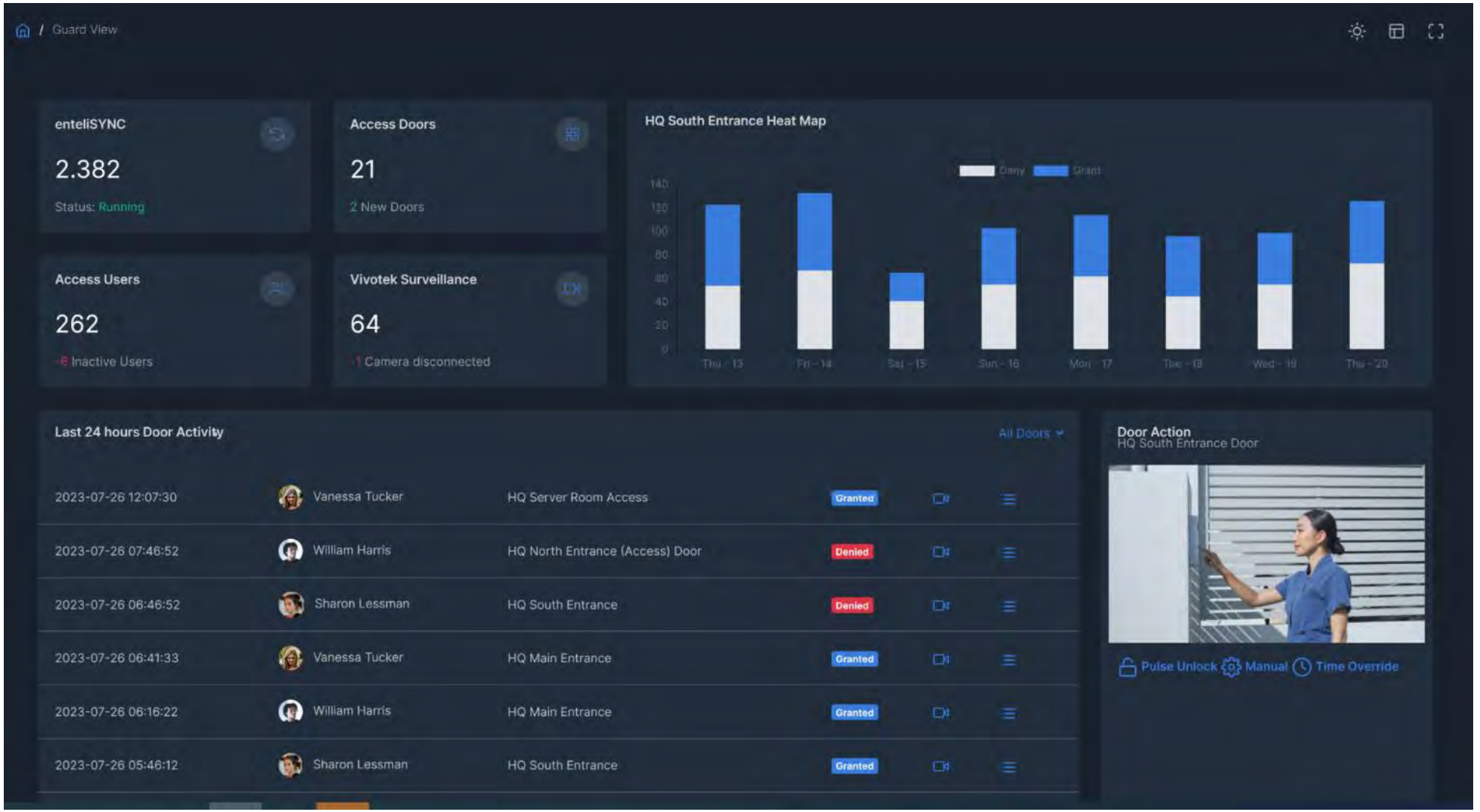


Physical Access Segmentation



Administrative Role Segmentation

Purpose Built Security Interface



Integrated Mobile Credential Management



Bluetooth™

NFC
Near Field Communication

Fully Integrated Management

- Create, revoke, & delete from within management interface

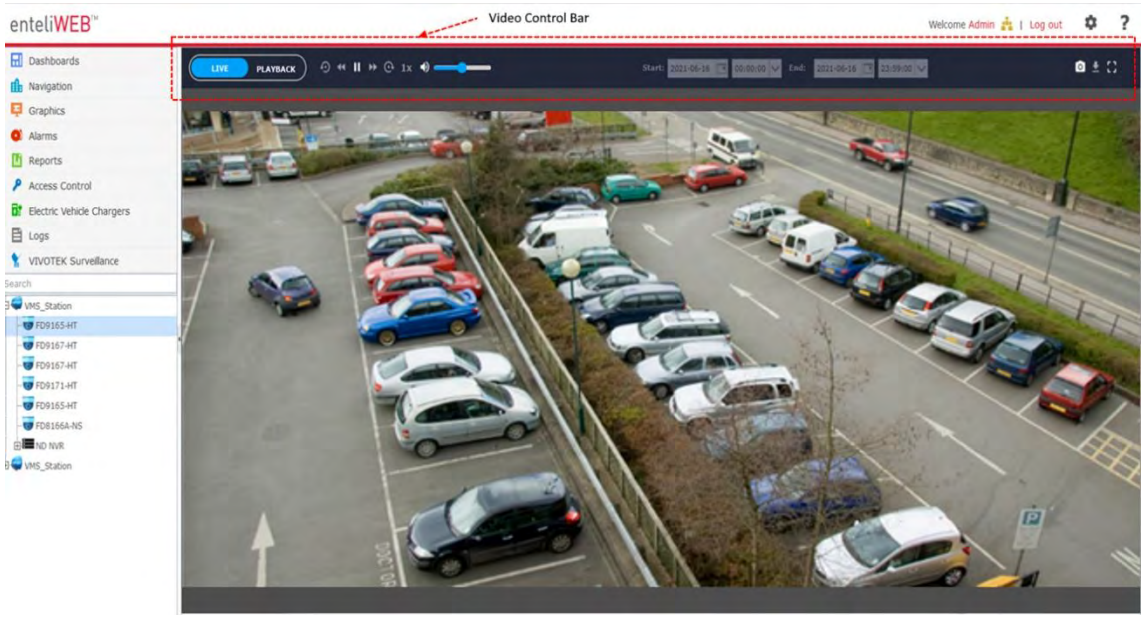
Efficient Licensing Model

- Credentials issued using credit model
- Reclaim credits upon credential revocation
- Eliminates re-purchase costs

Modern, Secure User Experience

- Supports Bluetooth & NFC
- Reduced risk of credential sharing
- Lower replacement cost

Video Integration







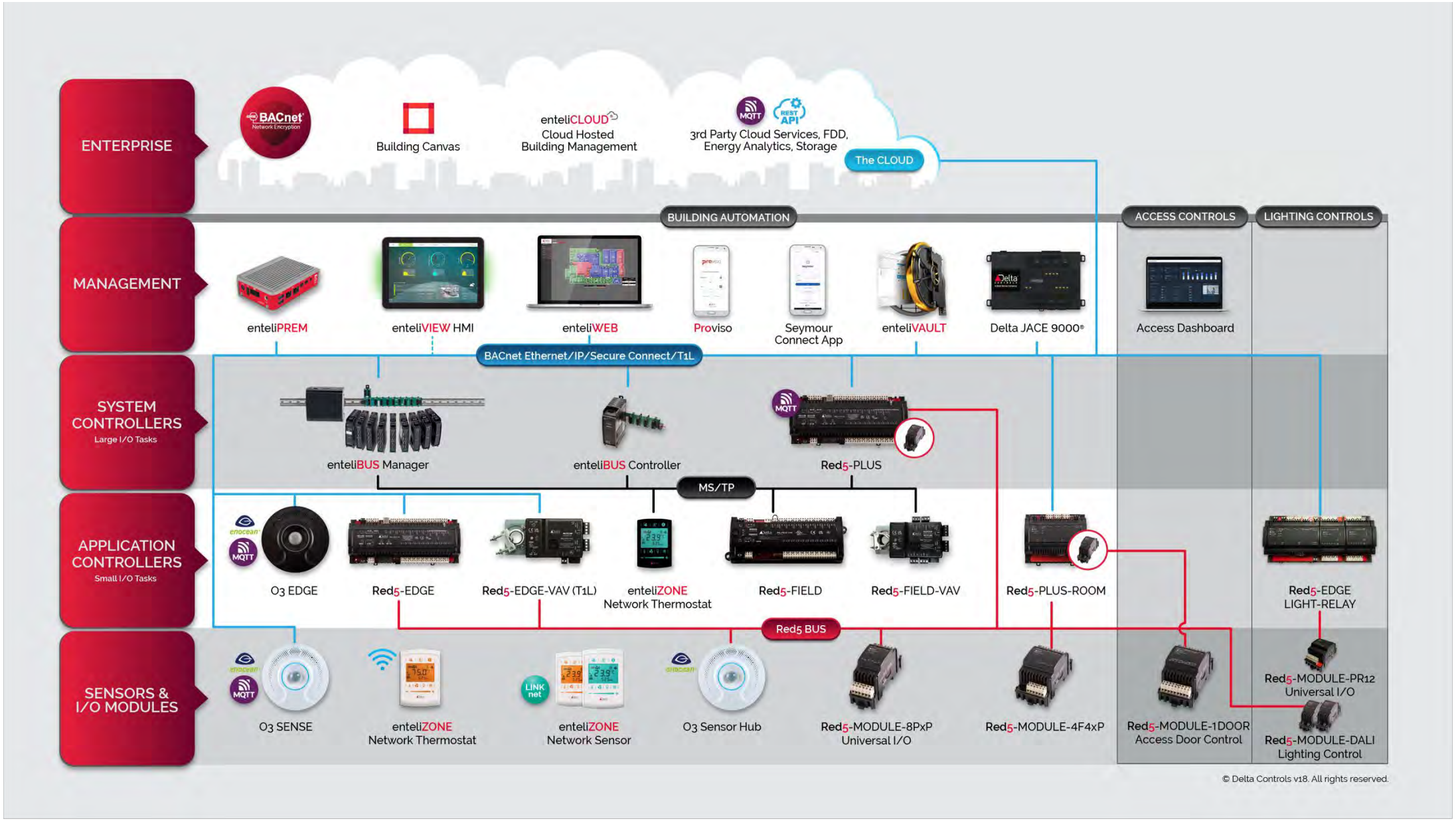


Custom Logic with GCL+

- Custom logic beyond predefined workflows
- Cross system automation scenarios
- Event driven building responses




From Access to Lighting

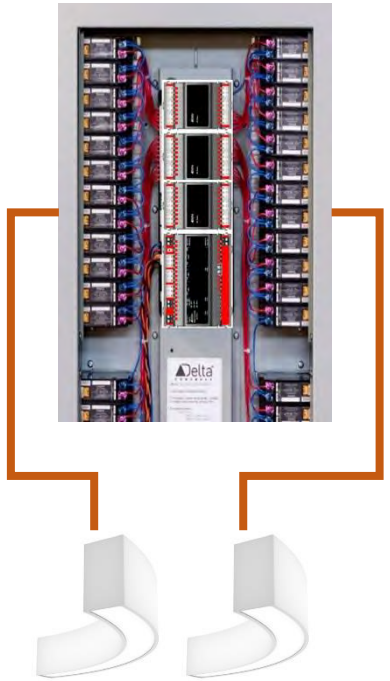


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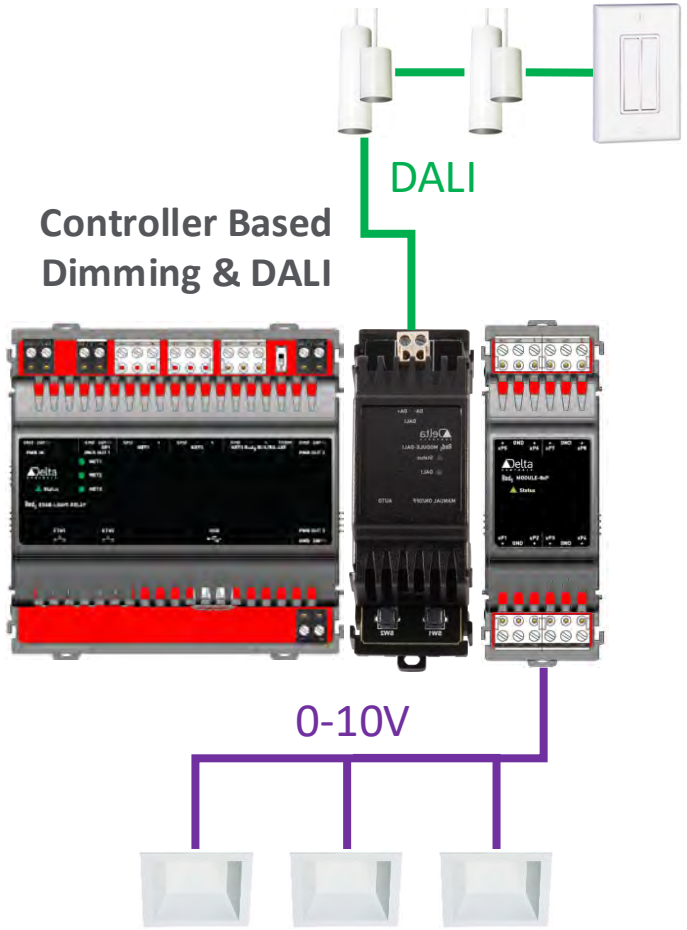
Lighting Control Architectures Within the Ecosystem

BACnet Native. Modular. Interoperable

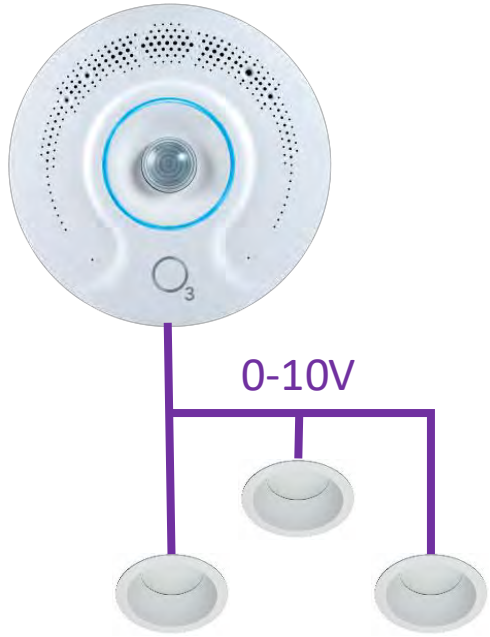
Centralized Relay Lighting



Controller Based Dimming & DALI



Distributed Zone Lighting



ASHRAE BACnet™

Programmable Lighting Logic



Credential Reader



After Hours



Occupancy



Lighting Zone

If access granted

- Turn On Zone Lighting
- Start HVAC Override
- Monitor Occupancy

Zone Active While Occupied

- Maintain Lighting
- Maintain HVAC

No Occupancy Timeout

Restore Schedule

- Turn Off Lights
- End HVAC Override

Operational Impact of Programmable Lighting



Energy Efficiency

- ✓ Lighting active only when occupied
- ✓ HVAC override automatically expires
- ✓ Eliminates after hours energy waste
- ✓ Automatic return to schedule



Operational Simplicity

- ✓ No manual reset of overrides
- ✓ Unified lighting & HVAC logic
- ✓ Reduced service calls
- ✓ Centralized management

ASHRAE BACnet™



Enhanced Security & Visibility

- ✓ Access triggered lighting zones
- ✓ After hours activity tracking
- ✓ Improved tenant accountability

Lighting Control Roadmap



Today



In Development

Today

Centralized & Distributed Control

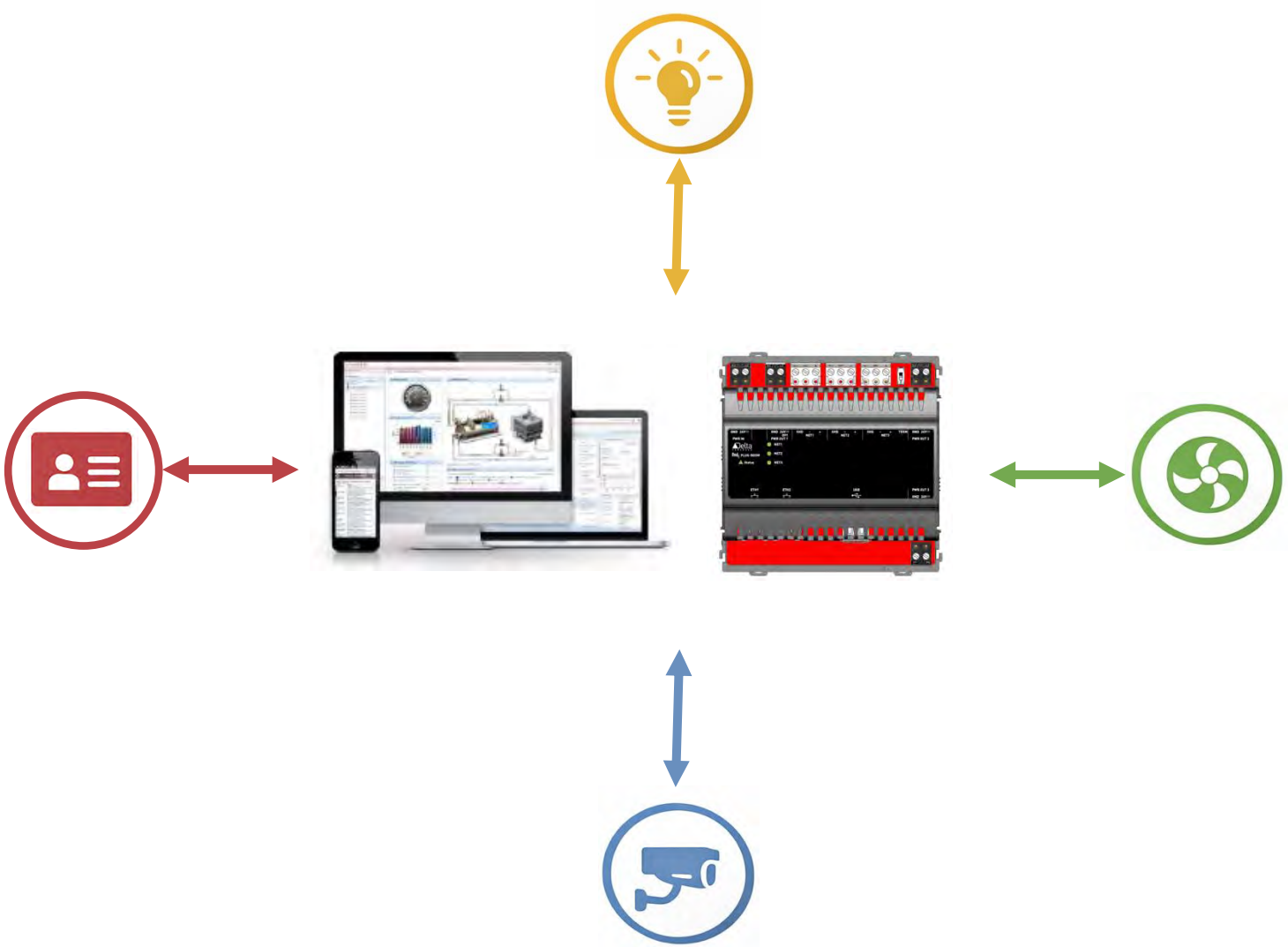
- ✓ PR12 - centralized relay lighting control
- ✓ O3 Sensor Hub & I/O modules – 0-10V lighting control
- ✓ DALI Module – DALI lighting control

In Development

DALI2 Integration

- ✓ DALI2 compliant architecture
- ✓ Comprehensive DALI2 device support (drivers, sensors, input devices)
- ✓ Enhanced commissioning capabilities

Unified Building Intelligence



- ✓ Reduced System Silos
- ✓ Faster Deployments
- ✓ Lower lifecyle costs
- ✓ Programmable flexibility
- ✓ Future-ready architecture

PROGRAMMABLE UNIFIED FUTURE-READY



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