Connected to the corporate IT network via Ethernet:
The Wireless Area Controller connects to the corporate network via PoE switch or power injector and must have Ethernet access. This is required for certain features such as BACnet® integration or future smart building integration features.
- This can also accommodate setting up separate networks for your lighting control or building systems than your business information network such as a VLAN.
- Wi-Fi is used for communications from the smart device to the Wireless Area Controllers for programming, configuration and personal control through the use of the WaveLinx mobile application
- The available Wi-Fi access point in the Wireless Area Controller is automatically disabled as soon as it is connected to the Ethernet and receives an IP address from the corporate network.

Dedicated WaveLinx Network:
The Wireless Area Controller does not connect to the physical corporate IT network at all. This means the Wireless Area Controller is setup as a Wi-Fi access point and the WaveLinx mobile application connects directly to the Wireless Area Controller using WPA2 wireless encryption and secure network username and password.

- The Wireless Area Controller uses AES 128-bit encryption for all device to device network communications.
- Wi-Fi is used for communications from the mart device to the Wireless Area Controllers for programming, configuration and personal control through the use of the WaveLinx mobile application
- The available Wi-Fi access point in the Wireless Area Controller is automatically disabled if it is connected to the Ethernet and receives an IP address from the corporate network.
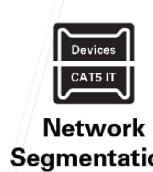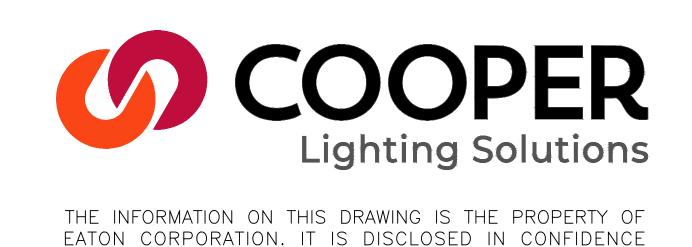
Diagram 1 labels

- BACnet/IP Public (REST) API
- Desktop/Laptop with web browser (hardware provided by user)
- Trellix Core
- Third Party system (hardware provided by others)
- BACnet Router¹ (hardware provided by others)
- Building LAN
- WaveLinx Mobile App used for system setup and personal control
- Area or Room (15 + 1 construction area)
- PoE Power
- Touchscreen
- Wireless Area Controller
- Area or Room (15 + 1 construction area)

Area or Room (15 + 1 construction area)
- 347V and 20A Dimming Relay
- Room Based Occupancy Sensor
- Controlled Receptacle
- Scene Wallstation
- WaveLinx-Integrated Ambient
- WaveLinx-Integrated Outdoor
- Wireless Controlled Lighting ready devices (up to 150 per WAC)

KEY
- Wi-Fi Signal
- IEEE 802.15.4

Note:
Trellix Core Pro shown in this illustration. Trellix Core hardware can be either Pro, Enterprise or Virtual.

¹ BACnet Router only required if Trellix Core and third party BACnet client are on differenet subnets.

Diagram 2 labels

- 120V Power
- WaveLinx Mobile App used for system setup and personal control
- PoE Injector
- Wireless Area Controller
- Network Switch
- **KEY** — Wi-Fi Signal — IEEE 802.15.4

Area or Room (15 + 1 construction area)
- 347V and 20A Dimming Relay
- Room Based Occupancy Sensor
- Controlled Receptacle
- Scene Wallstation
- WaveLinx-Integrated Ambient
- WaveLinx-Integrated Outdoor
- Wireless Controlled Lighting ready devices (up to 150 per WAC)

WaveLinx 7-layer security assurance

- Physical Security
- Customer Security
- Device Security
- Network Security
- Network Segmentation
- OTA Update Security
- WaveLinx COE Assurance