MW Connect

Commercial and Retail

Customer experience and energy efficiency wireless mesh controls

83% of retail and commercial buildings were without occupancy sensors and accounted for 54% of all floor space in the latest 2018 CBECS report.* Light scheduling, daylight harvesting, demand responsive lighting and plug load control were even less implemented.

Driving down operating costs, while enhancing the customer experience is challenging. Scheduling, grouping, and zoning for small or large spaces requires flexible and easy interfaces

*US EIA, "Commercial Buildings Energy Consumption Survey" 2018

Flexibility
Lighting scheduling and scene set ups can improve customer experiences. Simple interfaces make changes quick and easy.

Multi-Layered Control Options
Studies* show additional 10% energy saved, and increased retail activity combining combining daylight harvesting and dimming.
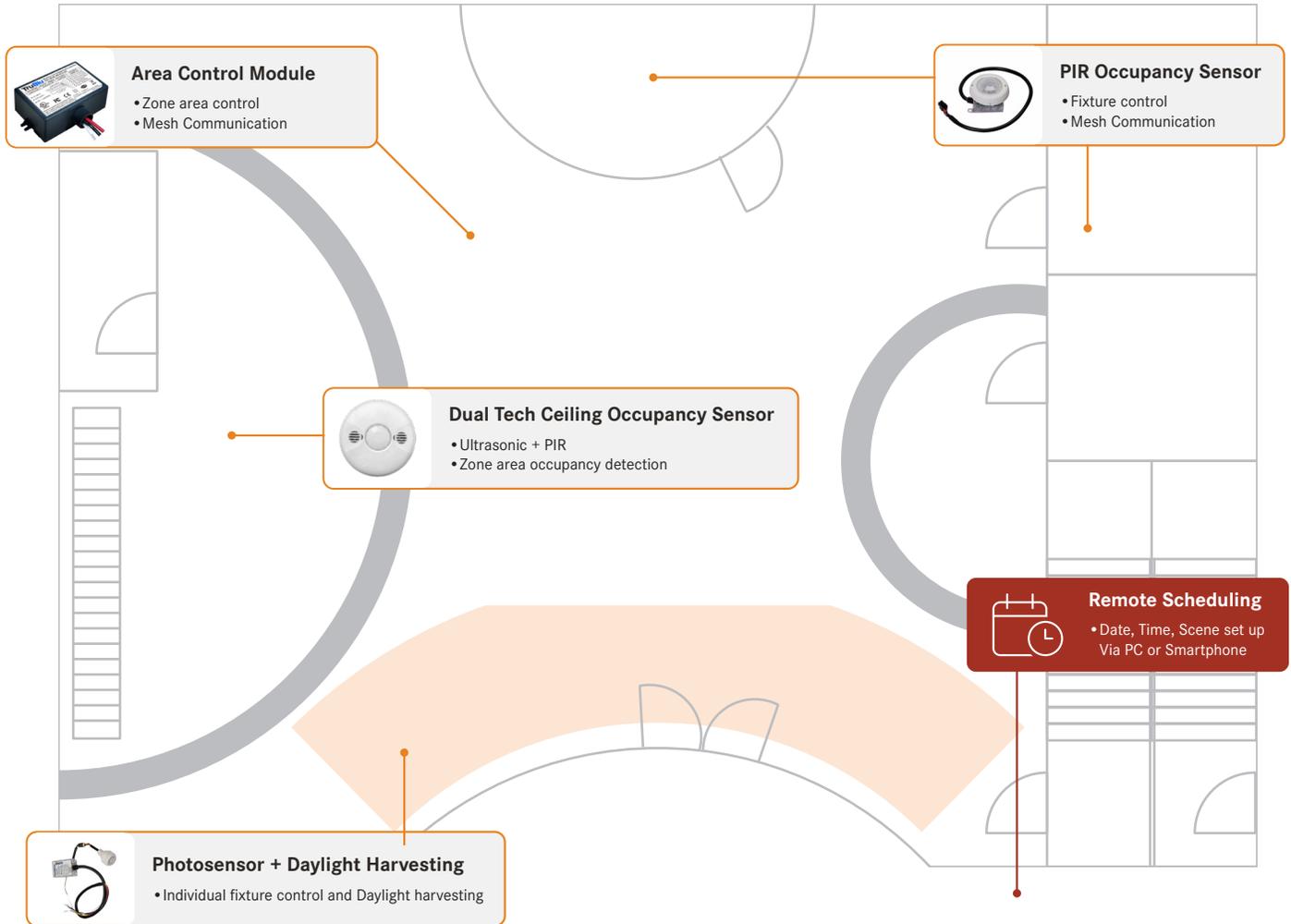
Proven Energy Efficiency
Integrating mwConnect lighting controls with HVAC systems for coordinated operation can multiply energy savings, and qualify for utility rebates.

App-based Design and Control
User-friendly control from smartphone apps streamlines design, start up, and future network adjustments

Controlled Lighting Unleashes Customer Experience

Area Control Module
- Zone area control
- Mesh Communication

PIR Occupancy Sensor
- Fixture control
- Mesh Communication

Dual Tech Ceiling Occupancy Sensor
- Ultrasonic + PIR
- Zone area occupancy detection

Remote Scheduling
- Date, Time, Scene set up
Via PC or Smartphone

Photosensor + Daylight Harvesting
- Individual fixture control and Daylight harvesting

TYPICAL CONTROL PROFILES

Zone	Scenario	Description
Retail Displays	Zone control	Light on during daytime, dimmed at night
Interior Storerooms	Occupancy sensor + ultrasonic control	Lighting on at 20%, increase to 80-100% with motion detection
Entrance and Display Window	Schedule time & light level for opening and closing. Set photocell sensitivity to dim.	Turn on at 8am, at 100% Turn off at 10pm. Reduce output 10% if lux>200
Forecourt	Schedule entrance and approach from dusk to close	On at 30% when lux level <30; 100% on when lux level <10; off at closing + 1 hr