

Real-Time Visibility & Control Across Multi-Sites

- Centralized Wireless Lighting Control
- Communication Across All Stores
- Real-time Lighting System Visibility
- Significant Energy Reduction
- Enhanced Security

CASE STUDY



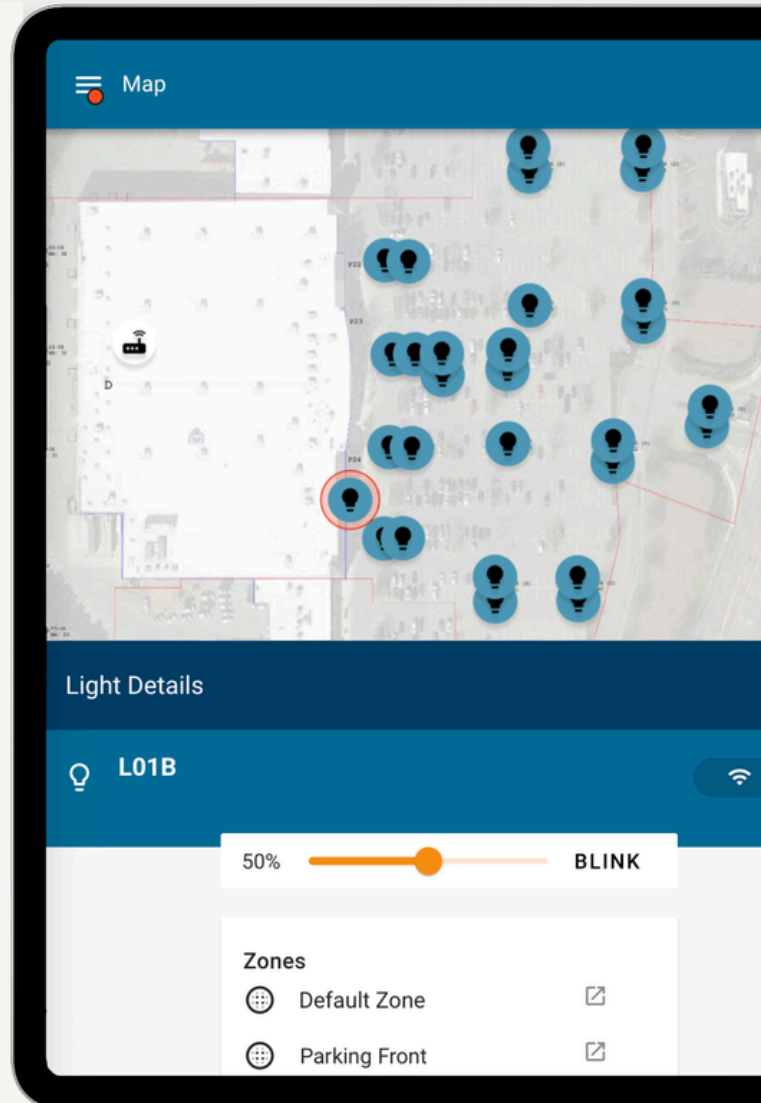
PROJECT SUMMARY

The Challenge

A leading national retailer with hundreds of stores needed a standardized way to manage parking lot and parking garage lighting across its portfolio.

Their legacy approach lacked centralized visibility and control, making it difficult to monitor multiple locations. Store teams required the ability to manage exterior lighting from inside the building, but traditional wireless solutions did not provide sufficient range or reliability to support this requirement.

Energy savings and security were also top priorities, requiring a zone-based occupancy sensing system to optimize lighting and enhance safety. Their requirements included an on-premises-only solution for data security, BACnet integration with their building management system, custom API integration for sensor data integration, and the ability to control additional elements like signage. The ultimate goal was to implement a scalable solution that could be remotely commissioned their stores online seamlessly.





The Solution

SimplySnap was deployed as a standardized wireless lighting control platform across their parking lots and garages. Wireless lighting controllers provide dimming, occupancy sensing, and long-range SNAP mesh networking, enabling zone-based occupancy control that ensures lights operate at full output when needed while reducing energy use during vacancy periods.

Each site utilizes an on-premises SimplySnap site controller to meet its data security requirements. Integration through BACnet enables communication with the building management system, while a custom API provides access to sensor data, power consumption metrics, controller status, and software management functions.

To support enterprise-scale deployment, Synapse developed a remote commissioning process that allowed them to efficiently bring hundreds of stores online while consolidating parking lot and garage lighting management into a single, easy-to-use interface for store teams.

The Results

The implementation delivered measurable operational and energy benefits across a national retailer's portfolio.

- **Centralized Visibility:** Store managers gained real-time monitoring and control of parking lot and garage lighting through BACnet integration.
- **Energy Optimization:** Zone-based occupancy sensing reduced energy consumption while maintaining required foot-candle levels for safety and compliance.
- **Improved Maintenance Response:** Automated outage alarms generated work orders for store maintenance teams, reducing response time to lighting failures.
- **Enterprise Data Access:** Through API integration, they now collect daily power consumption data from all controlled luminaires and monitor the health and status of each SimplySnap site controller.
- **Scalable Deployment:** Remote commissioning enabled rapid onboarding of more than 1,300 stores while minimizing field labor and disruption.
- **Security Compliance:** The fully on-premises architecture met the retailer's stringent IT and data security requirements.

By standardizing on SimplySnap, the retailer consolidated parking lot and garage lighting management into a secure, scalable platform that improves energy performance, enhances safety, and simplifies enterprise-wide operations.

BENEFITS

- Centralized control across all stores via BACnet
- Real-time visibility into lighting system status and operations
- Extended-range wireless network for in-store management
- Energy reduction through zone-based occupancy sensing
- Enhanced security due to optimized lighting behavior
- On-premises-only architecture met strict data-security
- Simplified operations w/custom API integration
- Consolidated signage & connected systems control
- Scalable remote commissioning
- Automated work-orders triggered by light-outage alarms, enabling faster maintenance response and reduced downtime

