

# **wiSCAPE™**

WIRELESS OUTDOOR LIGHTING SYSTEM

**HUBBELL®**  
Control Solutions



**HUBBELL**  
Lighting





## Monitor, Manage and Measure Outdoor Lighting Wirelessly

Hubbell Control Solutions' wiSCAPE® wireless outdoor lighting management platform provides insight into the operation of entire sites. Whether used for an office parking lot, a university campus, an airport parking structure, or an entire city, wiSCAPE has the software and hardware solutions needed to monitor, manage and measure the success of the project.

### Infrastructure

The wiSCAPE system provides a fully integrated system of control modules, gateways and enterprise servers that are designed to meet energy codes and reliability standards.

### Enabled Luminaires

Hubbell Lighting's portfolio of wiSCAPE enabled luminaires deliver quality illumination while reducing energy consumption and total cost of ownership for wiSCAPE installations.

### Software & Controls

Hubbell Control Solutions' wiSCAPE system delivers intelligent controls, intuitive user interfaces and scalable wireless technology that enables a highly configurable, enterprise software solution with analytics.

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# Safety First

Keeping outdoor areas safe is paramount to communities. Well-designed and well-maintained luminaires are costly and important assets for any outdoor or public installation. Without maintenance, lighting can become a liability. In the past, expensive labor and equipment were needed to ensure safety, beyond just energy costs. Using the Manage, Monitor and Measure concepts, the wiSCAPE® wireless outdoor lighting control system builds on the energy and maintenance savings of an LED lighting installation by reducing money wasted on “lights out” calls, maintenance crew sweeps, as well as control strategies that exceed today's code requirements.



## Versatile Operation with Peace of Mind

wiSCAPE's enterprise software suite offers real-time asset management using customizable maps and dashboard-driven pages, to get immediate visual confirmation of safe operation status, energy savings, and peak efficiency.



## Invaluable Insights

Data generated by wiSCAPE's advanced energy management tools, utility-grade metering and 24/7 diagnostic reporting with configurable alert notifications, can be used to improve the bottom line by managing key lighting control strategies.



## Unparalleled Scalability and Flexibility

wiSCAPE provides the ability to monitor, manage, and meter a vast number of lighting assets creating an optimized, resilient lighting infrastructure.



## Open Connectivity

wiSCAPE uses a highly secure wireless network to ensure critical data is locked down. The software can be reliably integrated with 3rd party systems to combine technologies when needed.

# wiSCAPE's Core Capabilities

## Manage

Setup and code compliance are simple using the wiSCAPE software suite. Lights with wireless nodes are placed on maps or site plans and configured to meet code.

## Monitor

No more calls about a luminaire being out – you know it first. The wiSCAPE system provides 24/7 monitoring of each luminaire with alarm notifications via SMS or email.

## Measure

Commercial-grade metering enables you to determine just how much energy is being consumed by individual luminaires, sites or an entire city.









# wiSCAPE® Express and Enterprise Software

Managing site lighting operations is easier with the wiSCAPE Express and Enterprise lighting control and management software. Using map, satellite or imported site plans, users can gather crucial operating status and energy usage data. Projects of any size can be configured and managed using the wiSCAPE Express software. Large and multi-site properties will also benefit from the comprehensive reporting and energy dashboard tool in the wiSCAPE Enterprise suite.

## wiSCAPE Software Capabilities

wiSCAPE software efficiently meets stringent energy codes and improves safety and performance over time. Using visual tools, including site maps, icons, and navigation tools, wiSCAPE can remotely and securely manage multiple sites from anywhere. The hardware at each light is minimal, and uses industry-standard plug modules and rugged gateways.

	ENERGY CODES			wiSCAPE SOLUTIONS	
	IECC 2015	ASHRAE 90.1 2016	Title 24 Part 6 2016	 Modules	 Site
O U T D O O R					
Astronomical Timeclock	C405.2.5(2)	9.4.1.4 (b)	130.2 (c) 2	✓	✓
Setback	C405.2.5(3)	9.4.1.4 (d)	130.2 (c) 3 B	✓	✓
Daylight OFF	C405.2.5(1)	9.4.1.4 (a)	130.2 (c) 1	✓	✓
Demand Response				Contact Closure	BACnet
BMS Integration				Contact Closure	BACnet



**Astronomical Timeclock**  
Controls light levels based on sunrise/sunset and project location



**Setback**  
Automatically turns lights down to a reduced level after all occupants leave the area



**Daylight OFF**  
Automatically turns the lights off based on the amount of daylight



**Demand Response**  
A defined temporary reduction of lighting load or load shedding in response to a request from an energy authority such as a utility or regional transmission operator



**BMS Integration**  
The data exchange for control and monitoring from a facilities Building Management System or Energy Management System using a common protocol such as BACnet®



# wiSCAPE® Delivers Solutions for Any Outdoor Application

The wiSCAPE platform offers lighting control solutions for virtually any outdoor application. From parking lots to smart cities, wiSCAPE's proven robustness and scalability provides cost-effective and flexible solutions that meet application requirements and energy codes, maximizes energy savings and simplifies outdoor lighting operations.



## Parking Lot

- Astronomical time-clock scheduling
- Scheduled-based dimming with motion control
- Supports high/low trim settings



## Parking Deck

- Motion sensor controlled zones/levels
- Photocell control of perimeter zones
- Entry adaptation zone lighting control



## Smart City Lighting

- Supports very large scale networks
- Provides integration of other device types - water & sewer meters, gun shot detectors, etc.
- Supports and responds to external signals (e.g. Demand Response)



## Roadway Lighting

- Automatic notification of luminaire issues (e.g. Day burners, outages)
- Astronomical time-clock scheduling
- Failsafe internal photocell control



## Outdoor Area Lighting

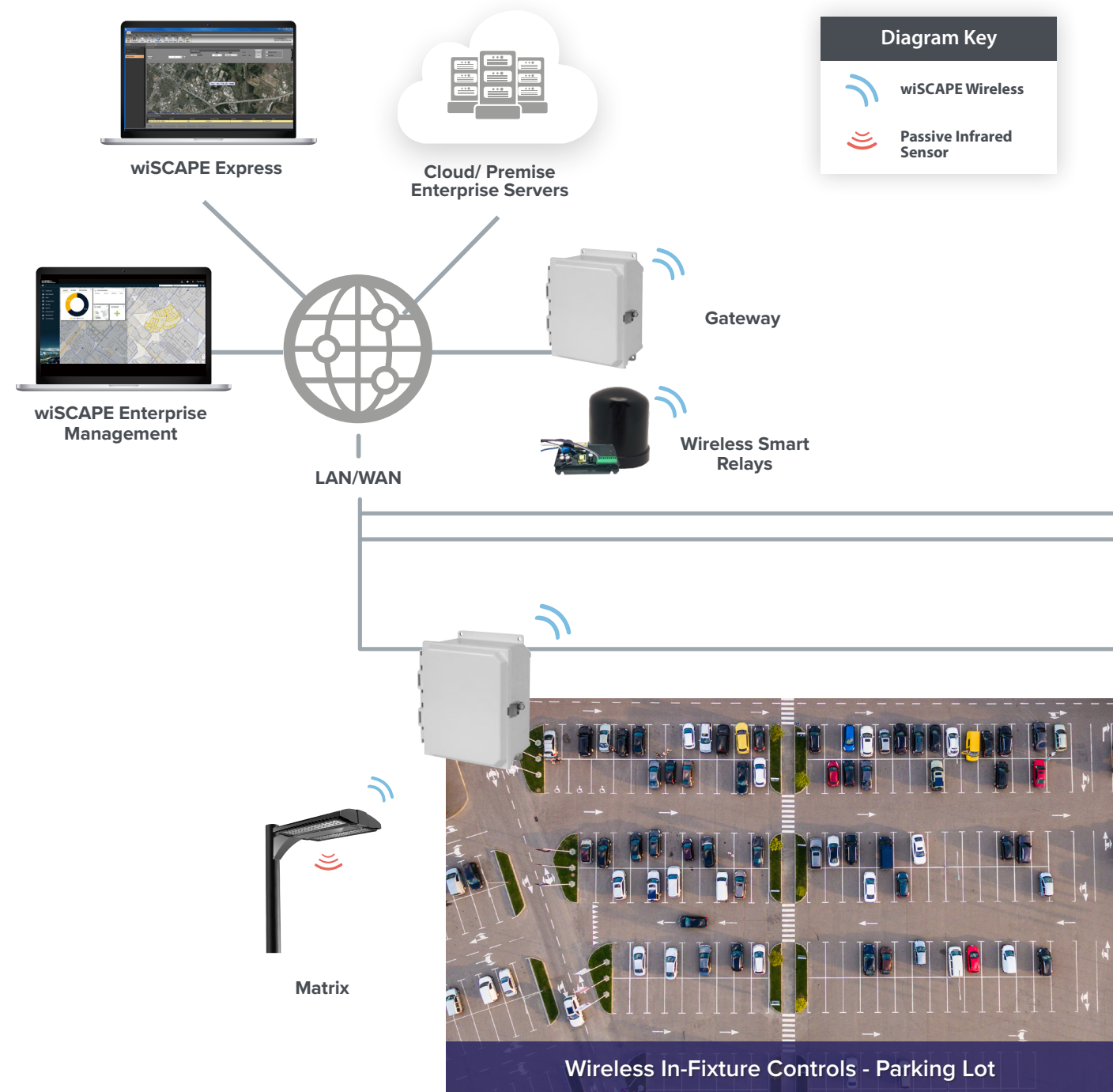
- Large scale, multi-site management with dashboard analytics
- Commercial grade energy metering
- Automatic generation of energy usage reports





# Take Control of the Outdoors, Enhance Safety and Improve Operational Efficiencies

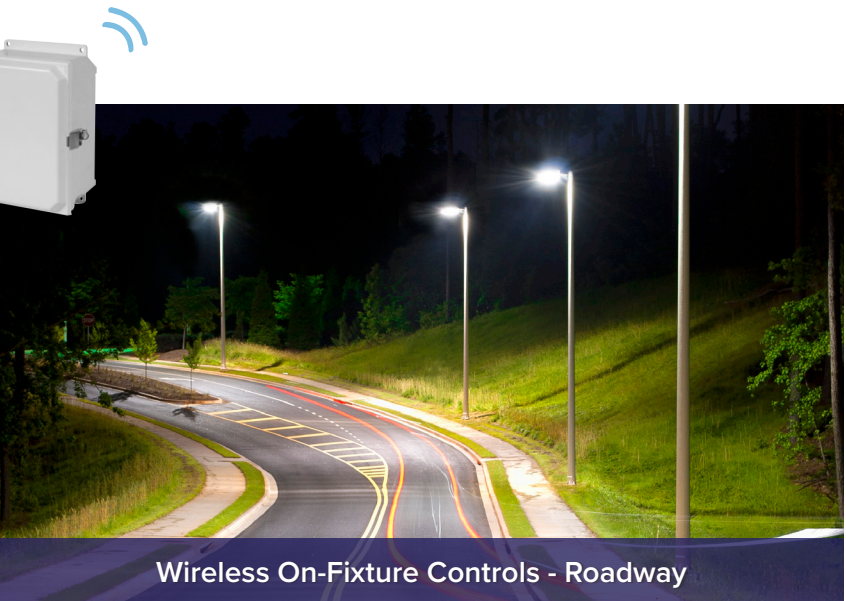
wiSCAPE™ provides a seamless, code compliant lighting control solution using wireless technology. Wireless modules control the luminaires and communicate over the air to a wiSCAPE Gateway. The wiSCAPE Gateways monitor the health of the modules and retrieve metering information. The wiSCAPE Enterprise Server retrieves information from the Gateways over a standard Ethernet/Cellular network and presents that information in a customized dashboard.



Wireless In-Fixture Controls - Campus



Viper



Wireless On-Fixture Controls - Roadway



AIRO



Wireless In-Fixture Controls - Parking Deck



Orbeon



# wiSCAPE Modules and Gateways



External Fixture Module

- On/Off control with full-range dimming
- Compliant with ANSI C136-41 (7 & 5 pin) twist-lock receptacles
- Internal photocell for out of the box operation



Internal Fixture Module

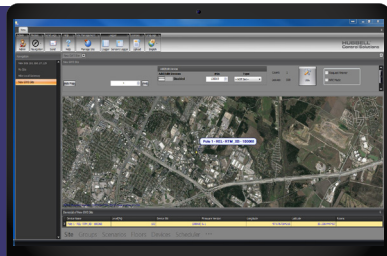
- On/Off control with full-range dimming
- 3 Digital inputs for motion sensors, photocells, and low voltage switches
- 2 Dry contact outputs for driving external contractors



Gateway3

- Autonomously manages up to 1000 modules
- Astronomical & fixed time scheduling
- Supports network connectivity via Ethernet connection or optional cell modem.

## wiSCAPE Software Suite

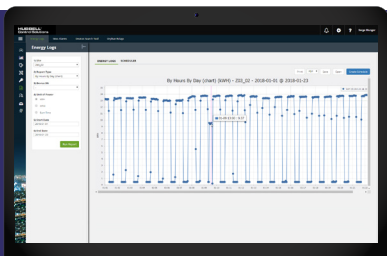


### wiSCAPE Express

wiSCAPE Express - Intuitive and easy to use Windows® based GUI application for managing devices, device groups, scenarios and schedules on a wiSCAPE Gateway. wiSCAPE Express displays device status in real time on geographical maps or plan layouts. Using wiSCAPE Express, you are able to remotely access any wiSCAPE Gateway on your network.

### wiSCAPE Enterprise

A powerful server solution that can handle a vast, city-wide network of nodes. Enterprise conveniently combines the information from multiple gateways to provide network-wide data analytics on energy usage and system activity. The wiSCAPE Enterprise Server software features an easy-to-use, web browser-based GUI interface with customizable dashboard, and the server software can be installed on premise or made available as a hosted Software as a Service (SaaS) solution.



Features		wiSCAPE Express	wiSCAPE Enterprise
Manage	Devices, Device Groups, Scenarios/Presets	✓	✓
	Schedules (Astronomical & Time-based)	✓	✓
	Windows® based GUI Application	✓	
	Web Browser based GUI Application		✓
	Customizable Security Roles, Users and Rules		✓
Monitor	Real Time Status of Devices on Maps / Plans	✓	✓
	Customizable Dashboard with Multi-Site Status		✓
	24/7 Alarm Notifications via SMS & Email		✓
Meter	Commercial-grade Device Metering	✓	✓
	Customizable Energy Reports with Graphs		✓

wiSCAPE®-enabled luminaires provide you the breadth and flexibility to address all your project requirements today and in the future. For a complete list of luminaires with integrated wiSCAPE options please visit [www.hubbellcontrolsolutions.com](http://www.hubbellcontrolsolutions.com)



# Comprehensive Support Options to Meet Project Needs



## Phone and Online Support

While it is our goal to provide you with intelligent, simple and scalable control solutions, customer experience level and project complexity may necessitate additional support during the design development, construction and post-occupancy stages of a project.

The Hubbell Control Solutions support team is available for consultation to evaluate multiple control scenarios to identify the ideal lighting control device or system to meet energy code requirement and customer criteria. Additionally, our team of friendly and experienced professionals is enabled to assist on-site personnel, such as installation contractors, third party integrators, certified field technicians and facilities personnel, to quickly resolve issues and provide additional support.



## Design Service

Our team of lighting control system design professionals are available to provide sensor layouts, networked system design services and third party integration support for new and retrofit projects. Our goal is to provide you with on-time and accurate delivery of design deliverables optimized for your specific application, compliant with local building codes and project specifications.



## On-site Support

Hubbell Control Solutions offers on-site support service to ensure your project goes smoothly. While Hubbell Control Solutions products are designed with simplicity in mind, some projects may benefit from a Certified Field Technician to perform an on-site pre-installation walk-through, after-hours and remote startup assistance, occupant training, sensor tuning, preset programming and other pre/post-occupancy services.



## Warranty

Hubbell Lighting provides a 5-year limited warranty for LED luminaires and Hubbell Control Solutions devices.



Technical Service Center:  
(800) 888-8006

<sup>TM</sup>  
wiscare





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**Control Solutions**

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