

Frequently Asked Questions



What is wiSCAPE®?

wiSCAPE is a wireless outdoor lighting management system that is designed to enhance safety and maximize energy savings for all outdoor lighting applications (e.g. parking lots, parking decks, roadway, remote sites, parks and smart cities).

What components make up the wiSCAPE System?

The system consists of internal and external fixture modules, gateways, enterprise server software and a two Graphical User Interface applications – wiSCAPE Express (Windows® client based) and wiSCAPE Enterprise (web-browser based).

Can the wiSCAPE external module connect to an ANSI C136-41 7-pin or 5-pin twist-lock receptacle?

Yes. When connected to a 7-pin receptacle, the external module provides On/Off and dimming control with support for an input device. When connected to a 5-pin receptacle, the module provides On/Off and dimming control.

What type of input devices can I connect to a wiSCAPE module?

Any low voltage device that can provide an input signal (e.g. motion sensors, photocells, switches, security cameras, lux meters, etc.) can be connected to a module. The internal fixture module supports up to three (3) inputs and the external fixture module supports one (1) input.

Do the modules have outputs for controlling other devices like lighting contactors?

Yes. The internal fixture module has two (2) outputs that can be used to signal other devices or systems.

Can wiSCAPE be used indoors?

Yes. wiSCAPE is suitable for large open indoor areas such as warehouses, gymnasiums and manufacturing floors. The wiSCAPE system is not suitable for offices, classrooms, breakrooms and other small areas.

What type of radios and what frequencies does wiSCAPE use?

The wiSCAPE devices use XBEE Pro radios and available in either 2.4GHz or 900MHz ISM (Industrial, Scientific and Medical) versions.

What is the max distance between wiSCAPE Radio Modules?

Up to 1000 sq. ft. (clear line of sight).

Are the wiSCAPE messages secure and encrypted?

Yes. The wiSCAPE devices use military-grade AES-128 (Advanced Encryption Standard) security. AES is a powerful encryption method used in many data security applications.

Can wiSCAPE Radio Modules be installed in areas where there are WiFi or Cellular networks?

Yes. Although WiFi and cellular network signals can overpower 802.15.4 signals on some channels, wiSCAPE radios can be adjusted to avoid these same channels and prevent interference.

Does wiSCAPE® use wireless meshing technology?

wiSCAPE uses a robust and reliable IEEE 802.15.4 wireless mesh network radio protocols to provide a secure peer-to-peer, self-organizing and self-healing mesh network. All devices are peers and act as repeaters, forwarding messages to ensure message delivery.

How Scalable is a wiSCAPE System?

The maximum number of nodes that the wiSCAPE Enterprise System can support is based on the maximum number of unique radio serial numbers supported = 2^{31} (should be superscript) or 2,147,483,648 nodes.

What is wiSCAPE Enterprise?

For most lighting applications, the wiSCAPE Gateway and modules will provide all of the management control that you will need. However, for lighting applications that require additional functionality including managing multiple sites, individual and multi-site energy reports with graphs, customizable site/device alarms with SMS/Email notifications, and customizable security user roles, then wiSCAPE Enterprise is the solution for you. The wiSCAPE Enterprise Server software can be installed on premise or hosted in the cloud. The Enterprise Server receives information from the Gateways and displays that information via its web-browser based application.

Can the wiSCAPE system alert me of issues with my luminaires?

Yes. wiSCAPE has a complete set of alarms that can be triggered with notifications sent via SMS or email to identified personnel based on a severity level. These alarms include fixture outages, fixtures on during the day, over/under voltage conditions, etc.

Can wiSCAPE generate energy usage reports?

Yes. Energy usage reports can be generated for a single luminaire, an entire site and for multiple sites. Reports can be automatically generated via a schedule and exported in many popular data formats - .pdf, .xls, .csv, .rtf, .jpg, etc. Energy reports can then be sent to identified personnel.

Does the wiSCAPE user interface have a dashboard that can summarize current status?

Yes. The wiSCAPE Enterprise web based application features a dashboard showing the status of all of the nodes across the enterprise. The dashboard is configurable, enabling you to add additional information including individual fixture status, metering data, etc.

Can the wiSCAPE system be used to manage multiple sites?

wiSCAPE Enterprise is specifically designed to manage multiple sites – either across a campus, or across a city, or across multiple cities.

Does the interface show maps of an area?

Yes. The wiSCAPE Express client application and the wiSCAPE Enterprise web-based application utilize mapping services to display maps and satellite images of areas with node locations identified on the maps.

If mapping services are not available (e.g. parking deck levels), can the interface import plans/layouts?

The wiSCAPE applications can import plans/layouts into the user interface.

Does wiSCAPE meet the requirements of the latest energy codes and standards?

Yes. The wiSCAPE system has been designed to meet the latest outdoor lighting codes and standards which include astronomical timeclock scheduling, dimming setbacks, daylighting, demand response and BMS integration.

Is the wiSCAPE[®] system certified by the Design Lights Consortium (DLC)?

Yes. Please visit our website for more information - www.hubbellcontrolsolutions.com.

Who programs/commissions a wiSCAPE system?

Depending on the system size, wiSCAPE systems can be commissioned by the installing contractor or by a Hubbell Control Solutions' Certified Factory Technician (CFT).

Are wiSCAPE components upgradeable?

Yes. wiSCAPE components are field upgradable and continue to function during the upgrade process.

Can wiSCAPE be integrated into Building Automation Systems?

Yes. The wiSCAPE Gateway has an optional BACnet[®] IP interface for the connection of BACnet enabled BAS systems.

What Hubbell Lighting fixtures can be wiSCAPE enabled?

Many Hubbell Lighting fixtures are already wiSCAPE enabled with more being added every day. Please visit our website for updates - www.hubbellcontrolsolutions.com.

Can wiSCAPE be used to control and manage non-Hubbell fixtures?

Yes. Any fixture with an ANSI C136-41 7-pin or 5-pin twist-lock receptacle can be managed by the wiSCAPE external fixture module. Please consult Technical Services for assistance with installation of the internal fixture module.

Can wiSCAPE be used for LED color tuning applications?

Yes. The wiSCAPE system includes wireless RGBW Constant Voltage and Constant Current 4-channel control modules for LED light sources. The four independent channels can be used for RGBW or any color or white LED combinations.

Does wiSCAPE feature any tools for maintenance personnel?

The wiSCAPE Enterprise system features a built in Service Crew Maintenance Ticketing System that can be used for tracking maintenance repairs.