



Put brighter ideas to work.

Drive improvements in energy consumption and operations with Verizon Intelligent Lighting.

Street lights can use a lot of power and maintaining them can be time consuming. That's why many municipalities, utilities, and businesses are upgrading their aging outdoor lighting infrastructures with energy efficient LEDs. By adding smart controls, you can create additional opportunities for energy and maintenance savings, gain insights into lighting assets and address public safety.

Gain new control, capabilities and valuable insights

With Verizon Intelligent Lighting, you can remotely operate street lights in near real time or program them, either individually or by group, to turn on and off or dim on a schedule or on-demand. The Light Sense node, Verizon's smart networked lighting controller, transmits data back to our Central Management System (CMS) where you can monitor the status of your lights, perform troubleshooting, receive alerts of anomalies, and view reports. You'll have access to actionable data to manage your energy consumption and reduce maintenance costs, and more detailed asset data to track valuable assets - all while addressing public safety concerns by ensuring lights are on at night.

Experience the combined power of three smart lighting control components

The Verizon Intelligent Lighting solution includes three interacting components—networked lighting control nodes (NLCs), a communications network and the Central Management System (CMS)—working together as a managed offering.

Light Sense networked lighting control nodes

Installed in a National Electrical Manufacturers Association (NEMA) socket on a street light, our Light Sense node contains hardware and embedded software that function together to control and remotely monitor luminaires.

Get full-featured lighting control capabilities

The Light Sense node provides essential lighting control capabilities at a competitive price point. Enjoy gateway-free installation with embedded LTE Cat-M cellular connectivity and auto commissioning. Installation is easy with plug-and-twist mounting to the luminaire via the existing NEMA socket. The device enables full on, off and dim scheduling capabilities, universal support for both 0-10 V and DALI fixtures and includes a 10-year limited warranty.

Future-proof with cellular networks

Cellular networks are already in place throughout communities. This makes installing lighting controls easier, as the nodes simply connect to the existing cellular infrastructure. Outdoor street lighting managers now have the flexibility to add controls as they wish, either by blanketing whole areas or targeting specific light poles. Utilities can enjoy faster deployment times while avoiding the hidden costs they face when building and maintaining a new network. In addition, cellular carriers are responsible for the upkeep of their networks, which makes it an easier solution for you to maintain in the long term.

Choosing a cellular networked lighting control solution allows for expanded smart cities solutions. When lighting managers choose cellular-enabled solutions, they are investing in a future-proof strategy.

Intelligent Lighting communications network

Each Light Sense node comes embedded with Verizon LTE Cat-M connectivity. The Verizon cellular network enables secure communications between our nodes and CMS without requiring any gateways or additional networking equipment. You also get the added benefits of:



Easy and efficient setup

The Verizon network is already in place, so setting up new lighting controls is simplified, and the nodes easily connect to existing cellular infrastructure.



No hidden system costs

Connectivity is included in the service fee for Intelligent Lighting, so there are no separate charges or hidden fees for data transport and backhaul.



Long-term cost-effectiveness

Networked lighting control nodes simply connect to the existing cellular network, which means you don't need to build out or incur costs for an additional network.

Adding more controls to the Intelligent Lighting platform is easy, so you don't have to worry about expanding or updating a dedicated network.



Easier pairing of multiple smart city applications

Choosing a lighting solution rooted in a cellular network allows you to connect and expand with other smart city solutions using the same network in the future.



A clear growth plan for cellular advancements

Verizon maintains a strong leadership position in Internet of Things (IoT) technology and solutions with a history of providing customers with many options to meet their needs. That includes nationwide deployment of and our ongoing commitment to 4G LTE, LTE CAT-1 and LTE CAT-M1 networks, as well as the Verizon Narrowband (NB) IoT network. In addition, our 5G Ultra Wideband network is enabling a smarter and more connected world due to higher speeds and lower latency. We're preparing for tomorrow's even faster and more powerful networks.

Intelligent Lighting Central Management System

Our smart networked lighting controls solution features the Intelligent Lighting Central Management System (CMS), a cloud-based platform that allows you to monitor your smart lighting infrastructure. Intelligent Lighting is a fully managed, highly available and scalable application that you can access through a standard web browser. The application helps you reduce energy and maintenance costs, and quicker lighting repairs create a safer environment for residents.

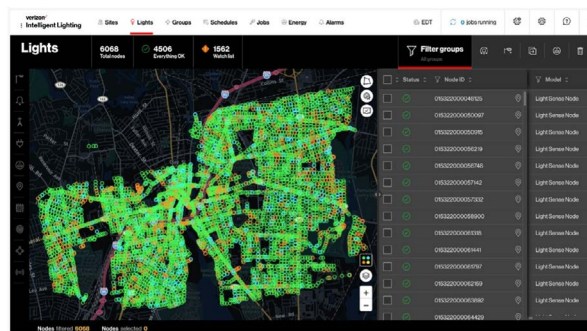
There's also little to no impact on your IT resources. Software feature updates and firmware upgrades are delivered seamlessly through the cloud to provide enhanced functionality. And it's easy to integrate with third-party applications and send data into back-office systems using our robust Application Programming Interface (API).

Key features of the Intelligent Lighting platform include:



Asset management

Store and view, either in list form or map view, key asset information for poles, luminaires and lighting control devices.



Scheduling and dimming

Create and apply lighting schedules, including on/off functions and dimming levels with up to six different set points. Set schedules for a single light or group of lights and for certain days of the week or for special events. And all schedules can be manually overridden when required.



Energy reports

Access energy consumption data for luminaires measured in kilowatt hours (kWh) that can be filtered by fixture, group and time frame.





Alerts and notifications

Be notified via SMS or email if nodes are disconnected or operating outside of expected parameters.



Status and diagnostic reports

View the current and historical status of lights to assist in troubleshooting and operations planning.

Improve operational efficiency, asset management and maintenance

The Intelligent Lighting CMS provides management, monitoring, diagnostics and alerting, as well as utility-grade energy consumption reporting. You won't have to be reliant on residents calling in to report malfunctioning lights or send crews out to the field to audit inventory, which saves time and money. Verizon's Light Sense nodes are easy to install and commission. Plus, the network and CMS are managed by Verizon, freeing up your IT staff to focus on other priorities.

Reduce energy consumption with remote on/off and dimming control

It's easy to remotely regulate light levels to meet your specific needs. Simply program lights using smart features like scheduling and photo control, and apply individually or by group. You can quickly make lighting schedule adjustments for individual lights or groups, including on/off timing and dimming levels. And schedules can be based on photocell, sunset and sunrise, time of day and special events.

Address street safety and engagement

Get alerts via email or SMS from the Intelligent Lighting platform so you know when power or connectivity issues occur or when lights are operating outside of expected parameters. This leads to safer streets by helping to ensure that issues are resolved quickly and lights are on when and where they're needed. Also, reduce resident calls by proactively fixing light-related issues and, in some cases, doing so remotely without a truck roll.

Managed services help deliver added cost controls, efficiency and agility

Verizon offers Intelligent Lighting software licenses with flexible term lengths and transparent, predictable payment options. Our services include:



Device connectivity with no separate data charges or hidden fees



Cloud hosting of the Intelligent Lighting CMS so there are no servers or dedicated IT infrastructure for you to maintain



Software enhancements and over-the-air firmware updates applied automatically



Ongoing technical and customer support



Access to an open API for integration with no separate fees or volume-based charges

Our skilled Support team makes system startup painless with project management, installation training for field crews, and portal training for operational users.

Why Verizon

We offer America's most reliable 5G network¹, as well as a tightly integrated ecosystem of IoT and wireless network technologies.

We help public- and private-sector planners increase economic development, drive citizen engagement and promote sustainability with our suite of Internet of Things solutions.

Plus, we can deploy at any level. From end-to-end, citywide solutions to individual business projects, we'll match our Intelligent Lighting solution to your needs—and your budget.

Learn more:

To find out more about how Verizon Intelligent Lighting can help you conserve energy and reduce maintenance costs, contact your Verizon Business Account Manager.

<https://www.verizon.com/business/products/internet-of-things/iot-applications/intelligent-lighting/>

1. Based on RootMetrics(R) United States RootScore(R) Report: 1H 2025. Tested with best commercially available smartphones on three national mobile networks across all available network types. Your experiences may vary. RootMetrics rankings are not an endorsement of Verizon.