

# COMMSCOPE®

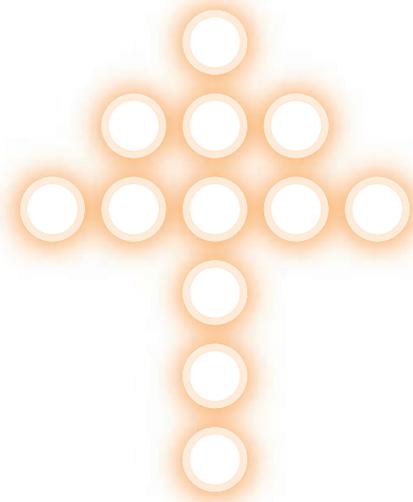
See operational efficiency in a whole new light

The Redwood® intelligent lighting network solution from CommScope®



Intelligent Building Solutions

# Efficiency opportunities are as close as your ceiling



Data centers and office buildings face a real challenge: managing energy and space. Costs for both continue to rise, and supporting growing trends like hot desk, bring-your-own-device (BYOD), Power over Ethernet (PoE) and high-performance Wi-Fi drive up expenses even more.

Finding efficiencies depends on a deep understanding of where your resources are going. Without that insight, costs keep rising, technology advances without a plan and you find yourself over budget and in the dark.

One smart opportunity may be right under your nose. Or rather, right above your head: your lighting system. Traditional light fixtures may illuminate the server room, but they don't shed any light on your operations.

LED lighting is a much more efficient choice. But suppose your LED lighting system could show you where you're wasting energy, space and money? That's a bright idea CommScope has already brought to life in our Redwood intelligent lighting network.

## The Redwood solution reveals opportunities you never knew existed.

CommScope's Redwood solution is a high-density network of sensors that track motion, temperature and light coupled with low-voltage dc LED lights.

This combines the long-term cost savings of LED lighting with an intelligent, open API software-based platform that enables you to:



**Increase energy efficiency and reduce costs.** The solution decreases your Power Usage Efficiency (PUE) ratio with automated controls, scheduling policies, daylight harvesting, smooth dimming and preset timeouts. These capabilities reduce non-computing electrical overhead and cut your maintenance and replacement expenses. It can even help you pursue LEED certification.



**Optimize space.** Sensors detect motion, which can be used to discern room occupancy and monitor heavy traffic routes. Based on usage data, the platform can help you develop optimal floor plans and manage conference rooms dynamically. And because the platform uses low-voltage cabling over existing data raceways, you can deploy for less and make fast changes as needed in software.



**Integrate systems and remove network guesswork.** The solution integrates with other building systems through an open API making it agile, customizable and secure. Data from the sensor network can be used to leverage efficiency opportunities across the building — including data, HVAC and security systems.



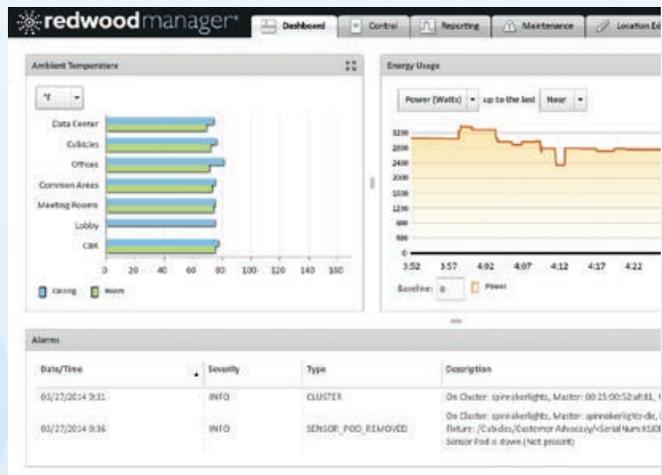
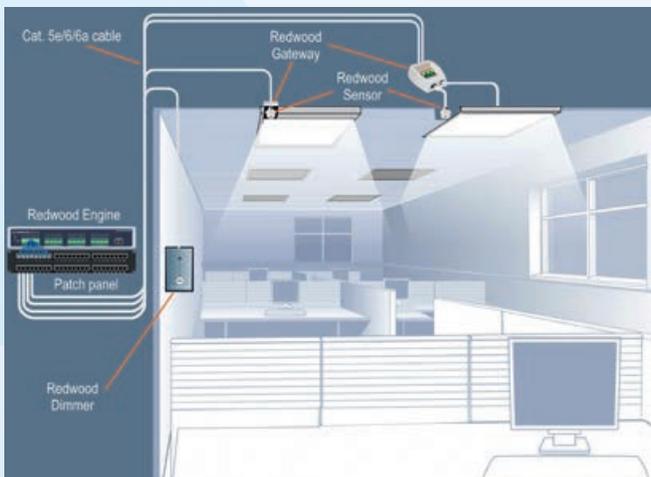
## Redwood integration delivers intelligent insight

Here's how CommScope's Redwood intelligent lighting network solution comes together to improve operational efficiency and inform better long-term planning:

- **THE REDWOOD ENGINE** PROVIDES CENTRALIZED POWER, COMMUNICATIONS AND CONTROL FOR UP TO 48 LIGHT FIXTURES. THE DIRECTOR IS THE HARDWARE THAT CONTROLS MULTIPLE ENGINES.
- **THE REDWOOD MANAGER** IS A WEB-BASED PLATFORM THAT TRACKS LIGHTING USAGE, MOTION COUNTS AND ENVIRONMENTAL TEMPERATURES TO PROVIDE GREATER INSIGHT ABOUT HOW YOUR BUILDING USES ENERGY AND SPACE.
- **REDWOOD SENSORS** AND SWITCHES MONITOR LIGHT, TEMPERATURE AND MOTION TO CONTROL DIMMING AND ON/OFF SETTINGS. SWITCHES FIT INTO ANY STANDARD WALL BOX AND INCLUDE EMBEDDED SENSING CAPABILITIES.
- **THE REDWOOD OPEN APPLICATION FRAMEWORK** ALLOWS USERS TO INTEGRATE WITH BUILDING SYSTEMS, WRITE THEIR OWN APPLICATIONS VIA AN OPEN API, AND TAKE FULL ADVANTAGE OF SENSOR DATA.

CommScope's Redwood lighting solution combines power, communications, and control over low-voltage category cable. This simpler, lower-cost option turns the lighting system into a scalable, reliable, and flexible platform for building intelligence.

The Redwood Manager enables simple and secure Web access from a PC or smartphone to commission, control, and report on the lighting and sensor network. The dashboard report below shows temperature by building zone, overall power usage, and maintenance alerts through a secure connection.



## Big efficiencies, informed by big-picture thinking

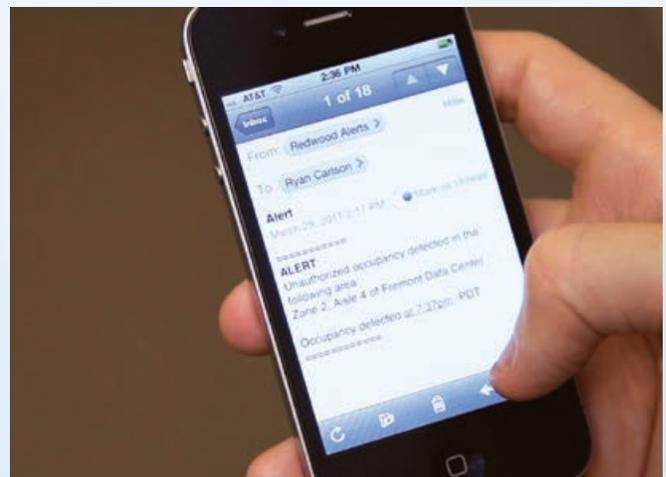
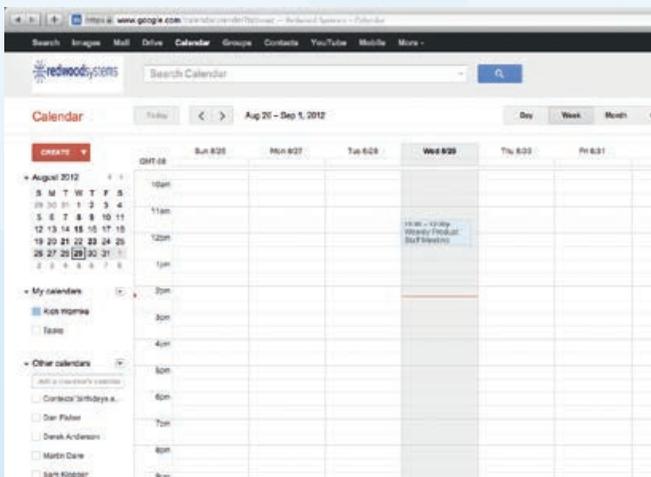
CommScope's Redwood solution delivers a holistic view of the built environment through the lighting system. Lighting can now be used to ensure that heating and cooling of a space occurs only when it's occupied, determine if conference rooms are available, or assess how well space is being utilized overall.

The solution provides customers with insights to intelligently operate their facilities and enhance employee productivity, helping you realize big gains in efficiency across your operations, built on reliable big-picture thinking.



The Redwood solution enables access to real-time occupancy information which can give facility managers insight into whether conference rooms that were booked using calendar systems are actually being used to help better plan space utilization.

A network of high-density sensors is embedded in the lighting system to measure motion and temperature, providing useful information such as alerts for out-of-range temperature or security breaches.



## Innovative illumination, delivered with CommScope-level confidence

The world's most successful companies anticipate and adapt to change quickly and efficiently. CommScope helps customers stay ahead of the technology curve so their IT infrastructure can adapt just as quickly and efficiently. We call this approach Living Infrastructure.

Living Infrastructure is a way of looking at your network as a constantly changing opportunity for success. This portfolio of solutions enables you to view your network holistically, manage it intelligently and think ahead of change rather than simply reacting to it.

## The PartnerPRO™ Network advantage

Because intelligent lighting network solutions are from CommScope, you have access to the PartnerPRO Network. These uniquely qualified professionals can install or retrofit these lighting solutions reliably and quickly.

Specially trained and CommScope certified, PartnerPRO Network professionals deliver the high level of integrity and global consistency that comes from working with CommScope.





## Turn operational costs into your next operational opportunity

Every dollar spend is an opportunity to save, and intelligent lighting network solutions from CommScope can show you how to leverage those opportunities.

**See how CommScope's Redwood portfolio can help you see your operation in a whole new light.**



# We're proud to be a part of your network's story

Here at CommScope, we embrace our role as a trusted resource, partner and facilitator. We create the infrastructure that connects the world and evolves with every advance in technology. By investing all of our capabilities, resources, relationships and products into your toughest challenges, we continue our long history of solving problems together — paving the way for new ideas and fresh ways of thinking.

We're a trusted resource and partner around the world because we're invested in you: your people, your networks, your success. It inspires us to build relationships and infrastructure ... connect people and technologies across protocols, oceans and time zones ... and share what we learn along the way.

**This is our promise to you.  
This is CommScope.**

## COMMScope®

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