Outdoor Intelligent Lighting Control System

American Precision Assembler

Case Study

American Precision Assemblers (APA), a well-established manufacturer of wire harnesses, cable assemblies, electrical and mechanical sub-assemblies, is dedicated to implement the best energy infrastructure to ensure energy efficiency as well as safety and sustainability in the entire organization.

The company has converted old / traditional technology lighting to 100% LED lighting over the last five years. As a result the monthly electrical consumption has been reduced by over 53%, generating over $120,000 in energy expense savings. The next goal is to achieve 85 % energy saving by implementing additional energy technologies. This will be done by combining the implemented LED technology with a control system. The company is advancing into the next generation intelligent lighting control system. This will allow them to monitor and control the responsible use of energy.

The first step in this next generation is to replace all 12 existing 50W, parking lot LED fixtures which were installed 5 years ago with equivalent 40W, LED fixtures. The new fixture is equipped with an integrated wireless control/ monitoring system to automatically turn the light ON/OFF, or dim UP/DOWN depending upon the level of natural light available, combined with motion detection to further augment the energy usage.

The system is simple and straight forward to setup. The light can be controlled, monitored and managed from a laptop, smartphone, or tablet- basically anything with a browser. The system continously monitors the wireless network and generates alerts on any issues.

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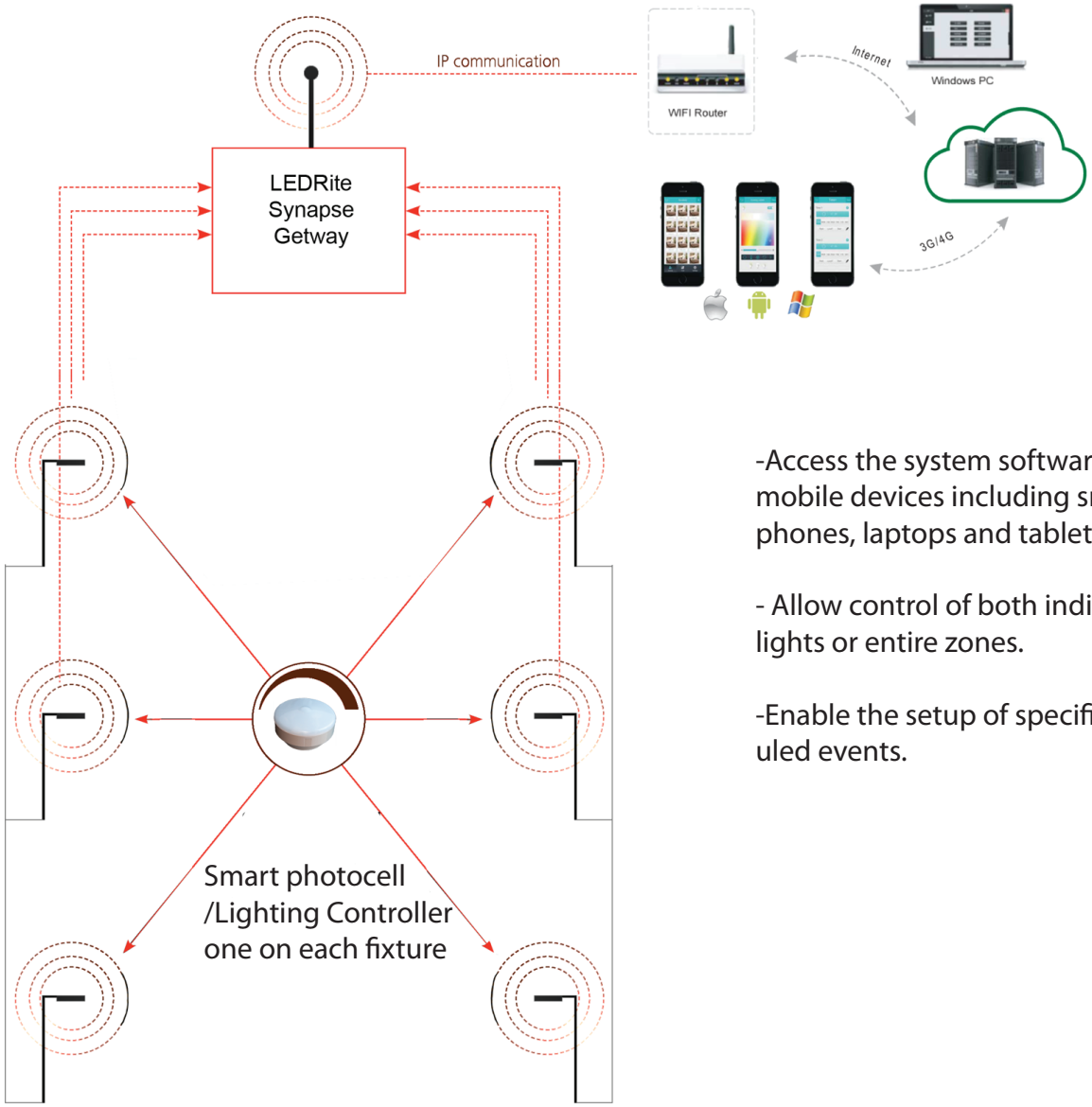
How the System Works



-Access the system software through mobile devices including smart phones, laptops and tablets.

- Allow control of both individual lights or entire zones.

-Enable the setup of specific scheduled events.

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