The Challenge:
Redwood Gen 2. solution had been installed previously at the data center. After Commscope acquired Redwood, it decided to shut down the Redwood division. This means that when Redwood engines began to fail at the data center, there was no support and no replaceable parts available in the market. When a Redwood engine failed, up to 40 lighting fixtures could be affected at one time. This resulted in significant lighting outages in critical parts of the data center. The data center invested significantly in PoE technology and wanted to reuse as much of their existing solution as possible, both out of cost and sustainability considerations.

The Solution:
After approaching Igor with these challenges, Igor proposed a solution that leveraged much of the existing infrastructure:

- All 1'x4' troffers could remain and be controlled by Igor’s technology instead of Redwood engines and drivers
- Removing Redwood sensors and put in place non-proprietary sensors at a 1 sensor per 4 fixtures ratio to reduce redundancy
- All cabling remain and be reused with Igor’s technology

Igor’s solution also provided the data center future flexibility by being a high-tech solution that opened the door to future technology and options:

- The latest 90W linear nodes were used to power two fixtures per node
- Connected devices (wall switches, occupancy sensors, and luminaries) are now outside of the proprietary wall and can be easily replaced or switched in the future
- All emergency lighting in the facility uses Igor’s UL924 certified emergency lighting solution in the 90W linear node form factor

Additionally, the plan proposed by Igor avoided any lighting outages by coordinating work on the normal lighting components in alteration with the emergency lighting.
The Basic Network Layout:

The network layout to the right shows a simplified version of the fundamental set-up of a PoE network in a data center. The network supports intelligent PoE lighting, and can include additional smart building features such as sensors, access controls, people counting, and asset tracking. Integrating these additional IoT devices creates opportunities for automation beyond intelligent lighting.

The Results:

Lights are back on at the data center and the Igor gateway software is in their command center to allow for clear, real-time data feedback on the lighting levels and connected devices.

This retrofit was achieved with minimal waste products, reusing as much existing materials as possible to avoid the landfill. This had a benefit to the company and to the environment.

The open platform, and manufacturer-agnostic benefits of Igor’s technology mean that the data center will not face the same supply issues for connected technologies again. The system is now significantly less proprietary than it was previously, and is designed for future flexibility.

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