



# WESCO Provides Customized Solutions for Your Digital Transformation When it comes to meeting customer requirements and providing customized solutions for digital infrastructures, WESCO's highly experienced Data Communications, Security, Lighting, and Power Teams are the only resources you need. Our combined expertise makes WESCO ideally suited to recommend the smartest digital building solution every time.

#### The Digital Building

As the world rolls forward toward "smarter" Internet of Things (IoT) devices, companies are leading the way with digital building technologies, which combine innovations in IoT devices and sensors with Power over Ethernet (PoE) products. These Digital Buildings combine various disparate building systems—energy, management, safety, security, communications, lighting—into a converged infrastructure that optimizes building systems, operations, and maintenance. The digital building will help you reduce operational costs, improve workplace productivity and optimize space utilization.

# WESCO Digital Building and Network Solutions Expertise:

- Dedicated Data Communications, Security, Lighting and Power Solutions Experts
- Network of Trusted Data Communications Contractors,
   Electrical Contractors, Security Integrators and more
- Lighting, Energy, Security, and Infrastructure Assessments
- Upgrades and Retrofits
- Operational Efficiency Maximization
- Supply Chain Optimization
- Regulation Compliance and Utility Rebates



## Why Digital Buildings Are a Smarter Path Forward

Modern building operators are trying to reduce costs, increase efficiency, and simplify operations. To achieve this, you need easier ways to manage all of a building's assets. Today, data is everywhere and IoT will reshape how buildings are managed, how they interact with the occupants, and how they affect the communities that surround them.

Digital Building solutions help maximize the effectiveness of any application by converging the building systems into a single accessible network, integrating a wide range of sensors and controls, and then applying analytics to the data collected to improve performance. Migrating devices to the PoE network will reduce the need to install the typical electrical distribution infrastructure — enabling campus-wide access networks and eliminating the need for a power outlet at every endpoint.

# WESCO Digital Building Solutions include:

- Converged data wired/wireless networks
- Lighting devices and controls
- Access control systems
- Video surveillance
- Building automation devices and controls
- HVAC, fire alarm and protection
- Vertical transportation, digital signage, clocks, window shades, etc.

### Benefits of a Digital Building Solution

- Reduced Energy and Increased Sustainability
- Optimized Space Utilization
- Increased Productivity, Performance, and Safety
- Simplifies moves, adds and changes
- Improved Employee Engagement and Retention





#### Installation Simplicity

High-density sensors are easy to use and install with simple PoE deployments and an intuitive mobile app for configuration.

#### Seamless Security

Advanced sensor solutions can provide comprehensive security intelligence, including access control and usage analytics.

#### Sustainable Savings

Save on energy and operating expenses to meet environmentalprotection standards.



#### Light a Path to Savings

According to the US Department of Energy (DoE), lighting accounts for 30% to 50% of a commercial building's energy use. Standard fluorescent fixtures are limited in controls and intelligence. For building managers looking to reduce energy costs and improve building intelligence, a networked lighting solution is a great place to get started toward a complete Digital Building system.

An Intelligent Lighting Network Solution delivers the energy efficiency of LED lighting, with a sensor network that reports motion and illumination levels. The LED fixtures are powered over a standards-based PoE network using UTP cabling. The sensor data can be used to support smarter facility policies and, through an open API (application programming interface), can put those policies to work for you.

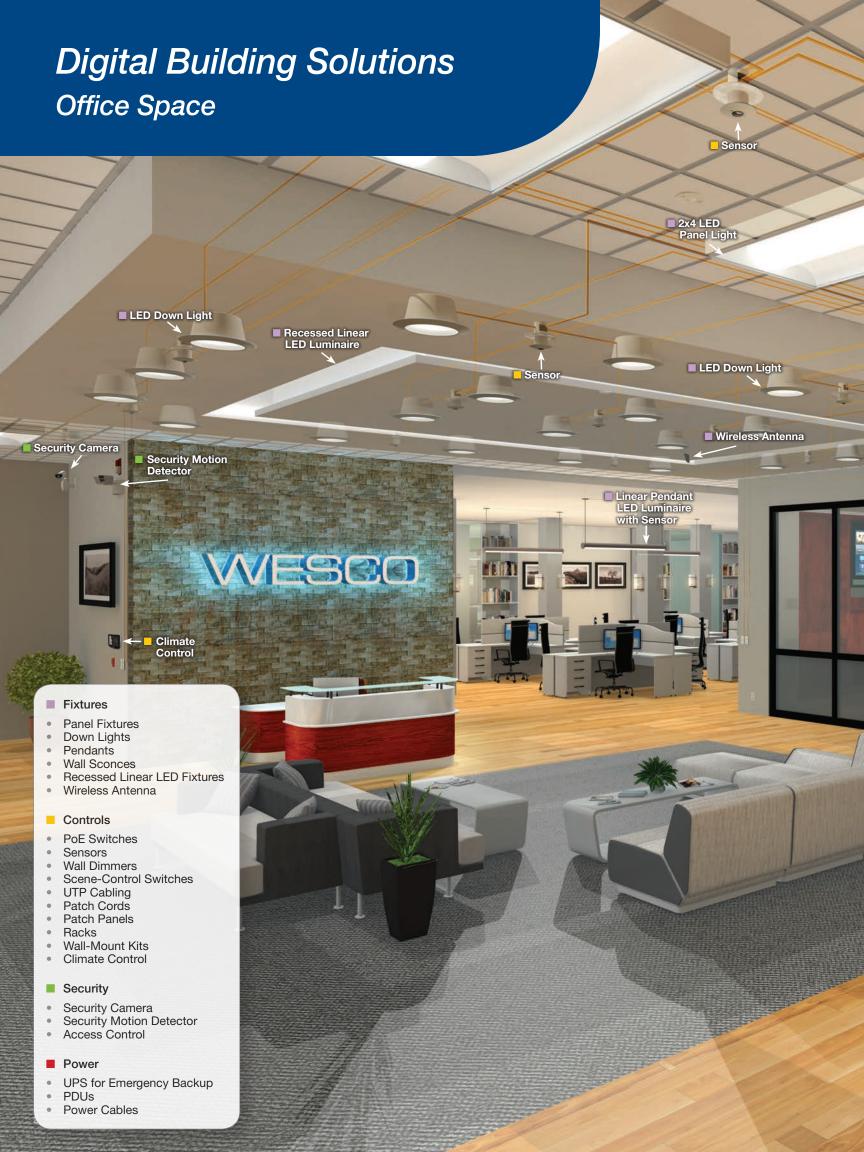


#### Open API, Open for Innovation

Each fixture in an Intelligent Lighting Network
Solution is controlled through a local sensor,
managed by web-based applications accessible
on or off-site. These applications allow you to set
lighting policies based on light levels, time-outs,
daylight harvesting, and motion. But that's just
that beginning of this solution's capabilities.

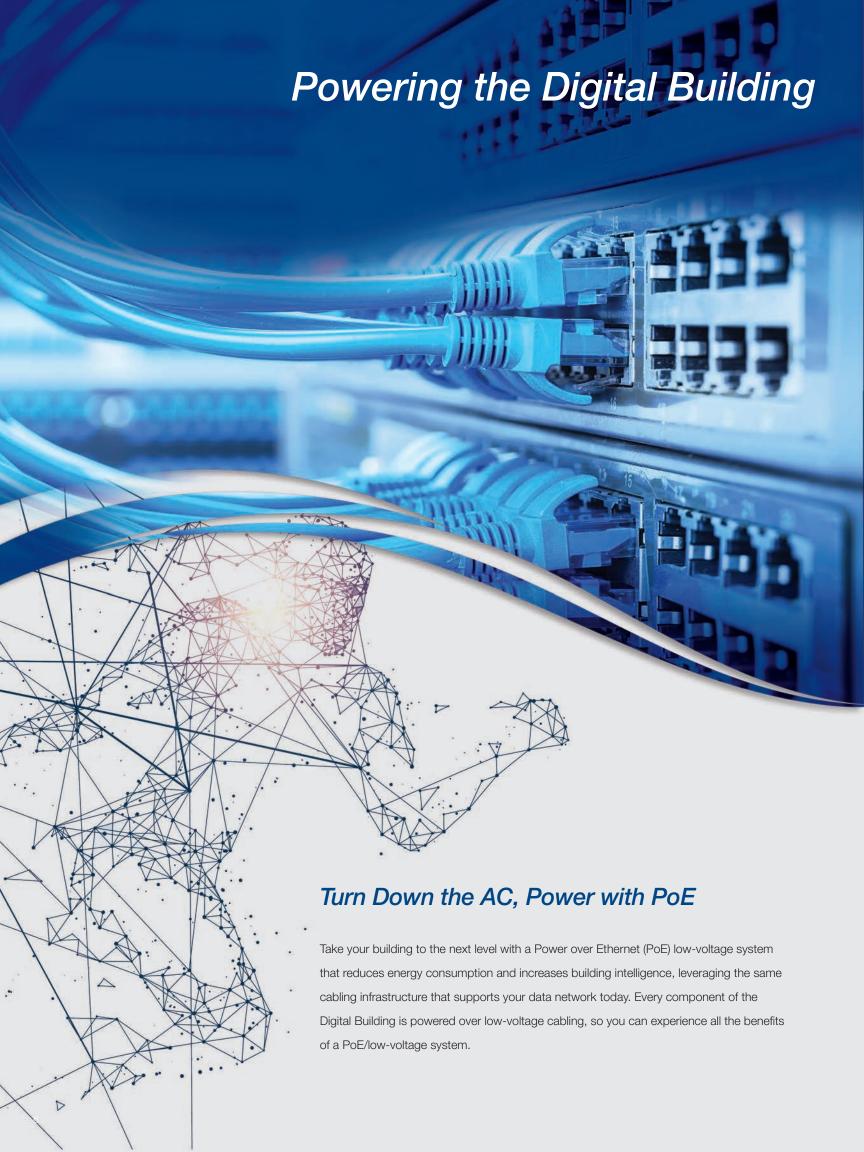
The ubiquitous sensor coverage, combined with an open API, enables innovative applications and integrations that can improve space utilization, productivity, temperature, color mapping, and even security.







**PoE Switch** — Converts AC power to low-voltage DC power.



#### Benefits of PoE

- Low-voltage PoE infrastructure can eliminate the need for pipe or conduit, resulting in a solution that's easier to install and maintain
- PoE LEDs cut energy and maintenance costs by running cooler and longer than fluorescent
- The Digital Building can extend the energy savings of LED fixtures through configurable controls from daylight harvesting to time-outs and motion activation
- Standards-based, PoE-enabled infrastructure simplifies full-building automation, driving cost savings through a converged network
- Sensor grid network enables collection of granular data, viewable on a sophisticated software platform for valuable analytics

#### Connecting the Digital Building

### Cabling and Connectivity Considerations

The Digital Building connects many networks within a building—including lighting, heating, cooling, and video—to one network platform.

By bringing together the systems, as well as sensors and actuators, on a single platform, the solution improves building efficiency and sustainability and enables building owners to manage and control them more effectively. Building occupants can use the platform to control the lighting, heating, and cooling systems where they reside, whether it's a cubicle or an apartment within the structure.

The cabling for this system must support the power throughput and additional heat generated by delivering power over it. Similarly, connectivity must be robust, durable and provide power headroom for current-carrying capacity.



Your One Source for Digital Building Solutions

As the world becomes even more connected through the Internet of Things (IoT), end users are looking for ways to drive more value from their investments. WESCO leverages our massive suite of WESCO digital building solutions and specialized technical support personnel to provide the latest in next-generation technologies and assist your digital transformation.

WESCO's expertise in data communications, security, lighting, and power enable us to deliver holistic solutions that maximize the productivity and efficiency of your networks, your facility, and your business.



### Digital Building and IoT Technical Support Team





World-Class Supplier Relationships

Education and Training

Project Management and Supply Chain Solutions

Data Communications, Security, Automation, Lighting and Electrical Specialists









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WESCO International, Inc. (NYSE: WCC), a publicly traded Fortune 500 holding company headquartered in Pittsburgh, Pennsylvania, is a leading provider of data communications, security, electrical, industrial, maintenance, repair and operating (MRO) and original equipment manufacturers (OEM) product, construction materials, and advanced supply chain management and logistic services. 2013 annual sales were approximately \$7.5 billion. The company employs approximately \$9,200 people, maintains relationships with over 18,000 suppliers, and serves over 65,000 active customers worldwide. Customers include commercial and industrial businesses, contractors, government agencies, institutions, telecommunications providers, and utilities. WESCO operates nine fully automated Distribution Centers and approximately 475 full-service Branches in North America and international markets, providing a local presence for customers and a global network to serve multi-location businesses and multi-national corporations.