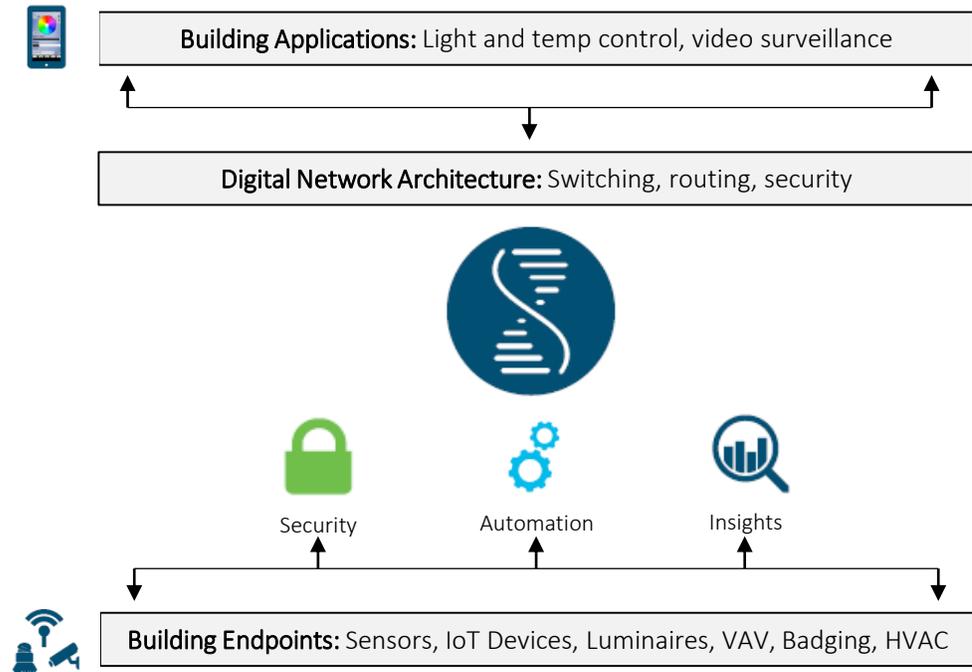# Digital Building Solution

The Digital Building Is More Than Just Connectivity

Open information exchange: Cisco has created an open model that enables interoperability by establishing a common language for devices and endpoints to communicate over the Constrained Application Protocol (CoAP).

Optimized network infrastructure: Cisco Catalyst switches are the backbone of the Cisco Digital Building. Catalyst switches deliver several optimizations including FastBoot, Perpetual Power over Ethernet (PoE), CoAP, PoE+ and Cisco Universal Power Over Ethernet (UPOE). Catalyst switches also have software enhancements to integrate with intelligent sensors (e.g., motion, light, temperature, infrared, humidity).

Boost efficiency and productivity and improve occupant experience by combining building systems such as light, air, and security onto a single IP network.

Building Applications: Light and temp control, video surveillance

Digital Network Architecture: Switching, routing, security

Security   Automation   Insights

Building Endpoints: Sensors, IoT Devices, Luminaires, VAV, Badging, HVAC

Why Choose a Cisco Digital Building Solution?

More efficient use of resources: Networked devices such as lighting, HVAC, and sensors can switch off when the space is not being used. This, combined with the ability to centrally manage systems and individual devices via the network, can lead to significant energy savings compared to traditional methods.

Improved worker productivity: Networked lighting can closely approximate natural light, and can be programmed to suit individual needs or task requirements using a laptop, a mobile device or a tablet mounted to the wall. This improves moods, productivity and health, and it gives workers more energy.

Automated environmental changes: Sensors placed throughout a building can detect when people enter a certain space, and then alert the HVAC system to pipe in more cool air from the network-connected variable air valve into that space, ensuring everyone remains comfortable.

Improved user/customer experience: A digital building can easily be modified to meet changing needs and to set certain moods. For example, the color and intensity of the lights can be increased to draw attention to a specific item or space simply by logging in via a tablet or smartphone and adjusting the color and direction of the lights.

30% Reduced energy use

16% Improved employee productivity with enhanced lighting

+5% Higher operating income and building asset value

Three Steps to Implementing a Digital Building

Step 1: **Converge the building infrastructure onto a single Ethernet network**. With Cisco's Digital Building, everything is connected over the Ethernet network, making it easier to install, manage and reconfigure specific endpoints in order to meet the tenant's needs.

Step 2: **Implement smart services with analytics**. A network-powered solution can provide data to help organizations analyze customer and employee behavior in order to better understand which workspaces are being underutilized and then modify the space to improve utilization rates.

Step 3: **Evolve to a digital workplace**. A digital workplace is the convergence of the physical workplace with virtual tools, and it creates better-engaged employees and promotes a more positive occupant experience. Collecting data from presence sensors, performing analytics, and monitoring key metrics such as occupancy and dwell times can continuously improve the workplace.

Cisco Partner Ecosystem

Cisco's Partner Ecosystem gives you access to leading vendors and technology partners that provide integrated solutions for lighting, analytics, building automation and more.

Prevalidated solutions:

Tested, validated and integrated solutions combined with a broad partner ecosystem bring critical pieces together, which can reduce deployment risk and speed up the time to value.

*See the complete list of partners at www.cisco.com/c/en/us/solutions/digital-ceiling/partner-ecosystem.html.