Transform Business Models with Smart Building Innovation

Owners of commercial and residential properties are looking to the Internet of Things (IoT) to transform the way people live and work. Now, CommScope makes it easy to integrate Smart Building IoT applications into residences and workplaces, and make them safer, greener and more comfortable. With a growing suite of building automation solutions, all running on the RUCKUS® IoT platform, property owners and operators can build a flexible foundation for a world of new IoT experiences.

The Challenge

Building automation can make properties more efficient, secure, and highly attractive to the people living and working in them. Across all property types—hospitality, commercial and residential real estate, university residence halls and more—owners are looking to bring IoT innovation to their residents, tenants and guests. By implementing new Smart Building solutions, they hope to:

- Increase comfort and convenience for residents and guests with solutions like smart lighting, window shades, climate control and more

- Enhance safety and security on the property with connected surveillance, door entry and emergency systems

- Optimize resources and operate "greener" facilities with intelligent HVAC, energy and water management

Unfortunately, current models for implementing solutions like these are often complex and expensive. Building automation applications tend to be highly fragmented, relying on multiple wireless connectivity protocols. Smart lighting infrastructure, for example, might use Bluetooth, while connected environmental systems run over Wi-Fi, while smart door locks run over yet another protocol like Zigbee. Each connected application typically functions as a self-contained system—requiring its own dedicated wireless network and management infrastructure. When organizations have to pull cable and add new infrastructure for every new IoT application, the costs add up quickly. Worse, the technology environment becomes so complex, it becomes even harder to add new capabilities in the future.

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SOLUTION BRIEF

The Solution

All owners of commercial and residential properties are looking to the Internet of Things (IoT) to transform the way people live and work. Now, CommScope makes it easy to integrate Smart Building IoT applications into residences and workplaces, and make them safer, greener and more comfortable. With a growing platform of building automation solutions, all running on our RUCKUS IoT Suite, property owners and operators can build a flexible foundation for a world of new IoT experiences. The solution includes:

- **Smart Building applications:** Draw on advanced solutions for everything from smart lighting to surveillance to green energy monitoring from premier IoT partners like Telkonet, Assa Abloy, TraknProtect and others.

- **CommScope and IoT connectivity:** The RUCKUS IoT Suite brings industry-leading Wi-Fi connectivity and wired switching, along with a versatile platform that connects IoT devices using multiple wireless protocols over a single infrastructure.
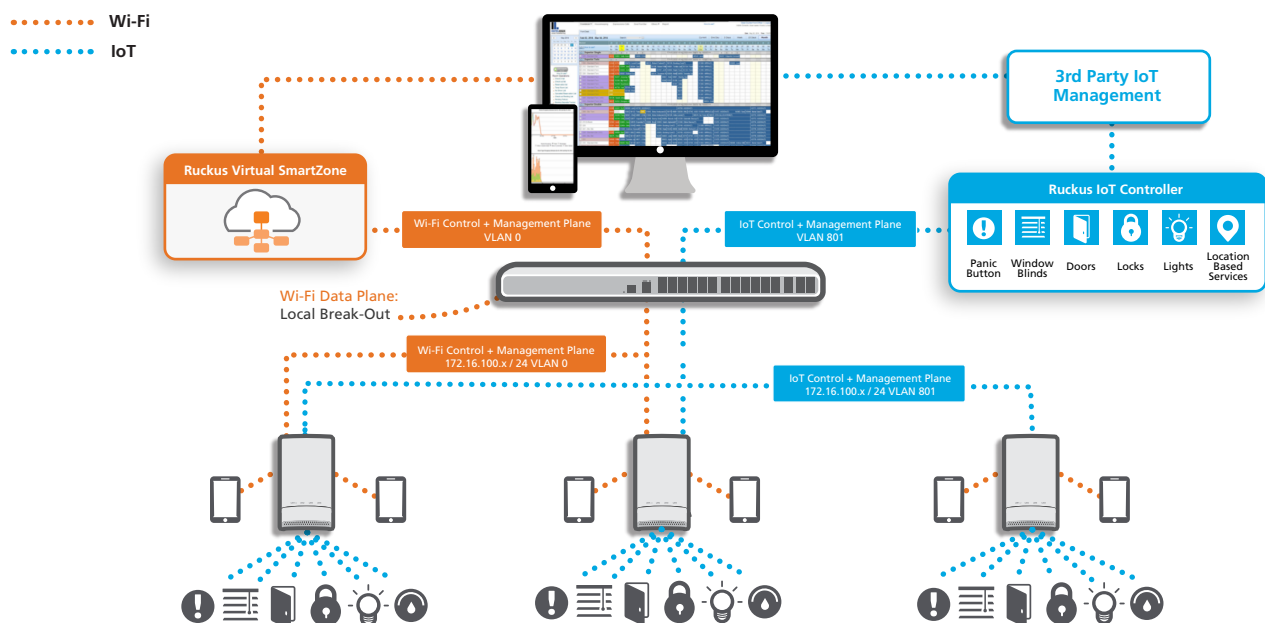
With the combined solution, property owners can deploy partner Smart Building solutions to optimize comfort and convenience, safety and security, and resource management in their venues. They can add solutions using multiple IoT wireless protocols and technologies and have them all run over the same converged RUCKUS wireless network, connecting over a single IoT gateway. All of a sudden, it becomes much simpler and less expensive to launch new IoT experiences and innovations.

How it Works

In the integrated solution, partner Smart Building applications—such as smart lighting infrastructure, connected door locks and surveillance systems, smart HVAC controls, and more—connect over their own wireless protocols. For example, Assa Abloy door locks can connect over Zigbee network, while smart thermostats and energy monitoring tools could connect over standard Wi-Fi. Endpoint devices can all connect to RUCKUS IoT-enabled Wi-Fi access points, which support multiple wireless protocols simultaneously, and the RUCKUS IoT suite. And, operators can manage the wireless infrastructure for the entire consolidated IoT environment using the RUCKUS SmartZone wireless controller.

The solution eliminates the need for separate hubs and networks for each system and wireless protocol, dramatically reducing the costs and complexity of building automation. At the same time, it makes it far easier for property owners to manage and continually expand innovative IoT capabilities for their residents, tenants and guests.

Building Automation in Action

With the RUCKUS IoT Suite, property owners can build a versatile IoT platform to optimize property and resource management, while delivering amazing new experiences for residents and guests. And, they can do it with much less effort, at a much lower cost than standard multi-network IoT approaches. The solution enables:

- **More personalized comfort and convenience:** People can live and work in an environment that automatically adapts to their needs and wants. For example, smart lighting, connected window shades and climate control systems can all automatically adapt to the preferences of residents and guests. These state-of-the-art IoT capabilities create a more comfortable and convenient environment— and make a property dramatically stand out from the crowd.

- **360-degree safety and security:** New building automation solutions include connected surveillance cameras, smart door locks, connected emergency buttons, smoke detectors and more. Solutions like these help keep residents and guests safer, while protecting investments in property and assets.

- **Improved resource management and "greener" operation:** Property owners can use state-of-the-art IoT applications to automate control of HVAC systems, energy and water management, lighting and more. For example, an entire office building, residence hall, or hotel can employ distinct energy and climate "profiles" for different times of day to reduce costs. At the same time, solutions like these help properties run much more efficiently and sustainably, making it easier to comply with green initiatives and mandates.

Get Started

Improving building efficiencies—and delighting residents and guests—shouldn't have to mean taking on high costs and technical complexity. With CommScope, building owners can use their existing Wi-Fi infrastructure to support a full range of Smart Building applications. And they can do it much more quickly and easily, at a much lower cost.

Contact us today to learn more.

CommScope pushes the boundaries of communications technology with game-changing ideas and ground-breaking discoveries that spark profound human achievement. We collaborate with our customers and partners to design, create and build the world's most advanced networks. It is our passion and commitment to identify the next opportunity and realize a better tomorrow. Discover more at commscope.com

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