

Digital Spine for Buildings



Turn Buildings into Responsive Assets

Commercial buildings are under pressure to become more sustainable, secure, efficient, and adaptable. In Australia, owners and operators face rising expectations around NABERS energy performance, electrification, cyber resilience, and operational efficiency. At the same time, skilled facility resources are harder to access, and manual building operations are becoming more expensive.

Digital Spine for Buildings gives you a secure, converged IT/OT architecture for modern building operations. It brings together Cisco secure networking, Industrial IoT, edge computing, Cisco Spaces, Splunk, APC micro data centers, and Schneider Electric EcoStruxure Building Operation. Together, these technologies help your building sense, respond, and optimize in real time.

With Digital Spine, you can move from isolated systems to a connected, data-driven building foundation that supports sustainability, compliance, cyber resilience, and better occupant experiences.

Benefits

- Accelerate sustainability with intelligent edge-based automation that helps you reduce energy use and support NABERS 6.0 and all-electric building goals.
- Maximize building value by reclaiming net lettable area with compact APC-powered micro data centers that reduce the need for bulky equipment rooms.
- Reduce operating costs with remote OT diagnostics, predictive analytics, and automated insights that help cut unnecessary service visits.
- Strengthen cyber resilience with unified IT/OT visibility, micro-segmentation, and threat detection across building systems.
- Create smarter workplaces by using real-time occupancy and environmental data to automatically tune comfort, space, and energy performance.

“By moving intelligence to the edge, Cisco and Schneider Electric help transform buildings from passive energy consumers into active, high-yield assets.”

What It Does and How It’s Different

Secure, Automate, and Optimize from the Edge

Digital Spine connects your building systems over a secure IP architecture, so you can manage IT and OT as one integrated environment. Cisco Industrial Ethernet and Catalyst switches provide the resilient network foundation, while Schneider EcoStruxure SpaceLogic controllers execute building logic closer to where data is created. The solution helps you:

- Run local automation for HVAC, lighting, occupancy, and environmental systems.
- Isolate building systems from enterprise networks using Cisco SD-Access and Cisco ISE.
- Improve OT visibility and threat detection with Cisco Cyber Vision and Splunk.
- Use Cisco Spaces data to trigger smarter building responses.
- Deploy compact APC micro data centers to support distributed edge compute.

Unlike fragmented building systems, Digital Spine combines networking, security, power, compute, automation, and analytics in one validated architecture.