

Digital Spine for Airports



Connect, protect, and optimize airport operations

Airports are becoming connected, energy-intensive, data-rich campuses. Passenger processing, baggage handling, HVAC, lighting, access control, power distribution, lounges, retail, and airport operations centers all depend on reliable digital infrastructure. But many airports still run these systems in silos, creating blind spots, cyber risk, energy waste, and slower incident response.

The Digital Spine for Airports gives you a secure, scalable IT/OT foundation for modern airport operations. Cisco provides secure connectivity, segmentation, cybersecurity, wireless, workplace experience, Cisco Unified Edge, and Splunk operational intelligence. Schneider Electric provides power infrastructure, building automation, energy management, microgrid capabilities, Secure Power, APC edge infrastructure, and EcoStruxure software. Together, the solution helps you connect systems, protect critical operations, process data locally, and optimize energy and performance across your airport campus.

Benefits

- Improve airport cyber resilience with an IEC 62443-aligned architecture using Cisco Industrial Threat Defense, Cisco Cyber Vision, Cisco Secure Firewall, Cisco ISE, Duo MFA, Cisco Secure Equipment Access, and Splunk.
- Run airport intelligence closer to operations with Cisco Unified Edge, helping you process data locally across terminals, baggage areas, plant rooms, lounges, cargo buildings, and airside facilities.
- Reduce energy waste and carbon impact by combining Cisco Spaces occupancy insights with Schneider Electric EcoStruxure Building Operation, Power Monitoring Expert, Microgrid Advisor, and building controls.
- Create unified airport visibility by using Splunk to correlate IT logs, OT telemetry, BMS alarms, power data, wireless events, vendor access activity, and operational insights.
- Modernize campus connectivity with Cisco Catalyst switching, Cisco wireless, Software-Defined Access, Cisco Catalyst Center, and secure segmentation across users, devices, systems, and buildings.

“Cisco secures and connects the airport. Schneider Electric powers, automates, and optimizes the airport. Cisco Unified Edge brings airport intelligence closer to operations.”

What It Does and How It’s Different

Turn siloed infrastructure into shared intelligence

The Digital Spine helps you move from isolated airport systems to a secure, open, data-centric operating model. It connects airport buildings, users, assets, systems, and applications through a common architecture while keeping critical environments segmented by function, tenant, building, and security zone. The solution enables you to:

- Apply IEC 62443-aligned zones and conduits across OT environments.
- Use Cisco ISE, Secure Firewall, Software-Defined Access, and Duo MFA to enforce identity-based access.
- Place Cisco Unified Edge nodes close to operational systems for local processing, telemetry collection, analytics, and resilience.
- Integrate Cisco Spaces occupancy insights with Schneider Electric EcoStruxure automation to adjust HVAC, lighting, and energy use based on real demand.
- Use Splunk as a shared operational intelligence layer across IT, OT, energy, security, wireless, and airport operations.

Unlike point solutions, the Digital Spine is designed for multibuilding airport scale.

For additional information on *Digital Spine* refer to the following:

<https://www.cisco.com/site/us/en/solutions/global-partners/schneider-electric/index.html>