

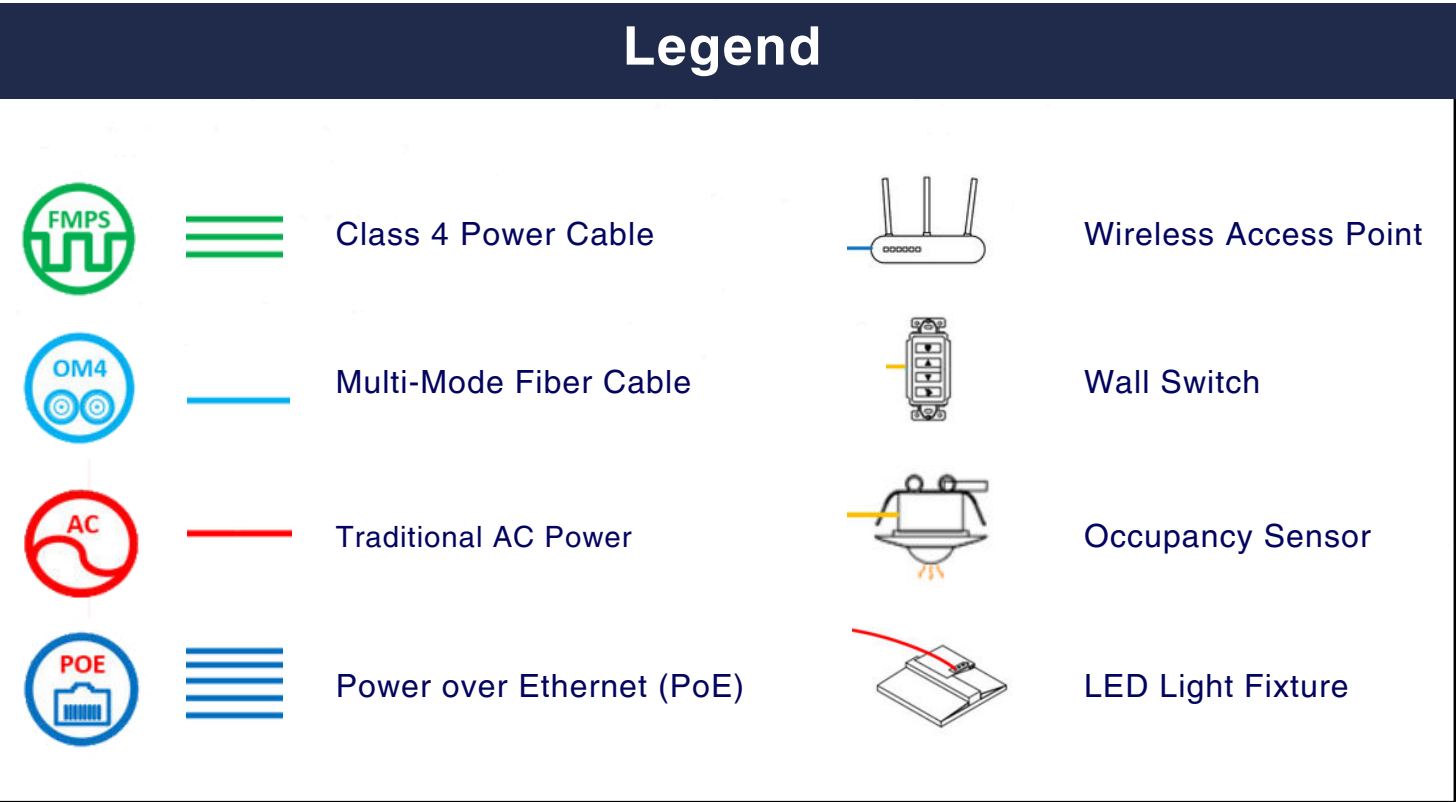
Reference Architecture

Fault Managed Power Systems (FMPS) & PoE

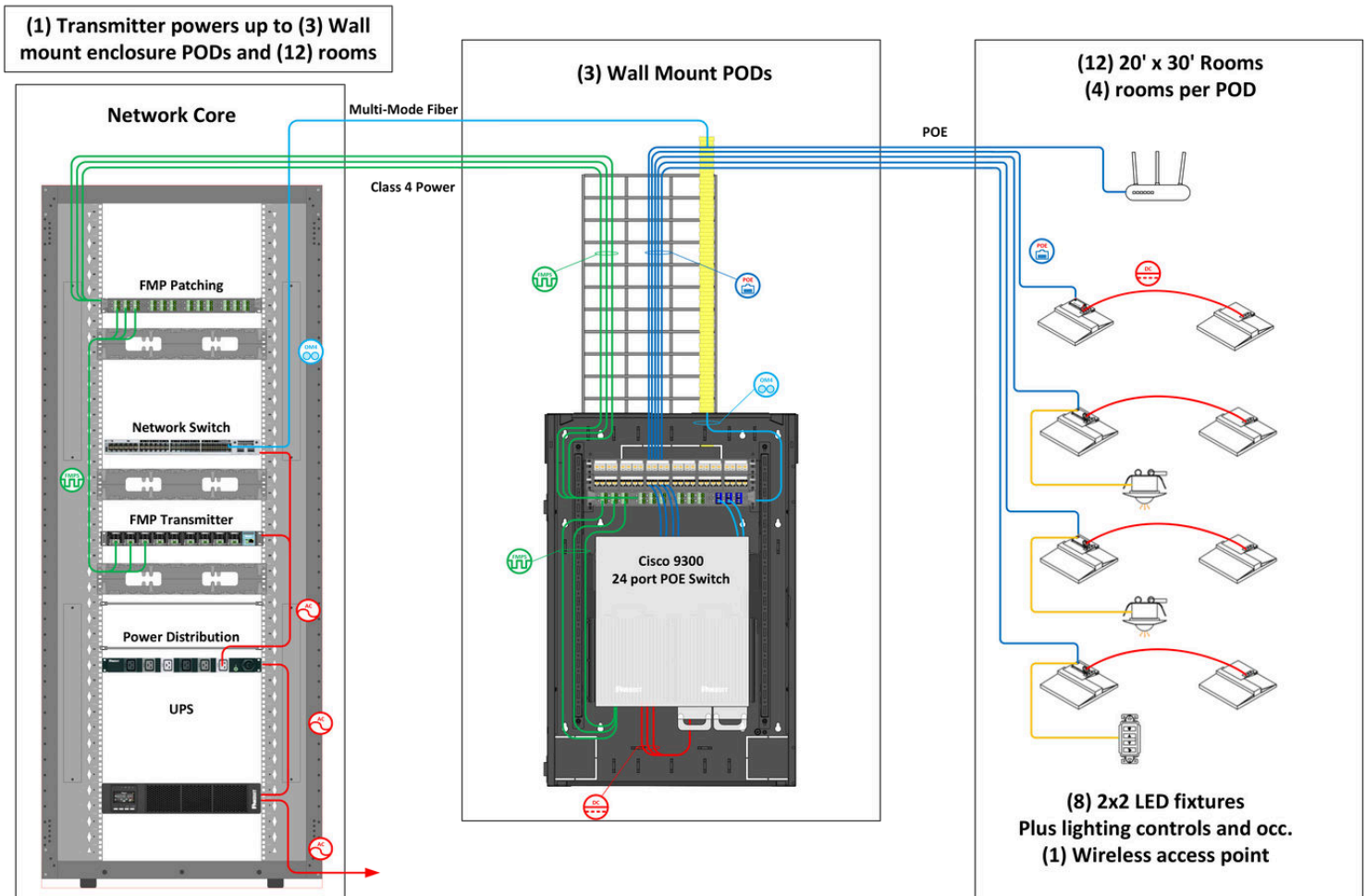
This reference architecture illustrates how Fault Managed Power Systems (FMPS) and Power over Ethernet (PoE) can be deployed across K–12 school campuses to create a safe, energy-efficient, and future-ready smart building infrastructure.

As schools modernize to support digital learning, enhanced safety, and sustainable operations, this architecture provides a clear framework for delivering both high-voltage and low-voltage DC power to distributed systems. FMPS, standardized under UL 1400-1 and NEC Article 726, enables the long-distance, high-power delivery required for large campuses—while maintaining low-voltage installation benefits and intelligent fault protection.

Combined with PoE, which powers smart lighting, automated shades, sensors, and signage, this design supports adaptive environments, centralized control, and cost-effective deployment strategies for both new builds and retrofits.



Fault Managed Power Systems (FMPS) & PoE Reference Architecture Scenario 1



Fault Managed Power Systems (FMPS) & PoE Reference Architecture Scenario 2

