

FMP Alliance Case Study: Fault Managed Power Brings Safety, Energy Efficiency and Sustainability to Luxury Resort

PROJECT OVERVIEW

A $2 billion luxury resort in the U.S. Mountain West is combining world-class hospitality with sustainability and connected experiences to create an “approachable luxury experience.” The multi-phase development uses Fault Managed Power (FMP) as the backbone to power its guest facilities, lighting, and networking systems. FMP Alliance members Belden and VoltServer and partnered closely with the project team to design the technology-first infrastructure and develop a comprehensive technology roadmap for future phases.

CHALLENGE

The project presented multiple challenges during planning and construction including:

- Project leaders wanted to create a one-of-a kind guest experience, while building an infrastructure capable of supporting evolving technologies for years to come
- Tight construction schedules, expanding project scope and the need for customized solutions required infrastructure partners to develop both immediate and long-term technology strategies

SOLUTION

The project roadmap includes multiple phases, with targeted completion in 2029. Key project milestones include:

- Utilized FMP to power everything from guestroom lights to communications and IoT systems, ensuring safety, intelligence and control while offering lower energy costs compared to traditional electrical installation
- Single-mode fiber backbone and optical LAN architecture, powered by FMP, allows the resort to handle requirements for greater connectivity density, more bandwidth and faster network speeds

RESULTS & IMPACT

Phase 1 opened successfully in 2024 with its hotel and golf course operating on schedule. The technology-first infrastructure has positioned the resort to attract guests ranging from professional sports organizations to vacation travelers while creating a scalable foundation for future innovations such as property-wide 5G, RFID-enabled services and advanced security capabilities.

Rather than treating connectivity as a supporting utility, the resort made it a competitive advantage. By combining FMP, fiber networking and scalable infrastructure planning, the development is creating a flexible platform capable of supporting new guest experiences and operational technologies for years to come.