



Enhancing Wireless Network Coverage for a Landmark Public Observatory

Reliable Connectivity for Uninterrupted Visitor Engagement

Case Study



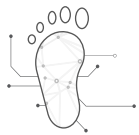
THE CLIENT

Griffith Observatory, an iconic cultural and scientific landmark in Los Angeles, has been inspiring generations since 1935. It has been welcoming visitors from across the globe to explore the cosmos through its exhibits, telescopes, and educational programs.



INDUSTRY

Science Education and Cultural Tourism



FOOTPRINT

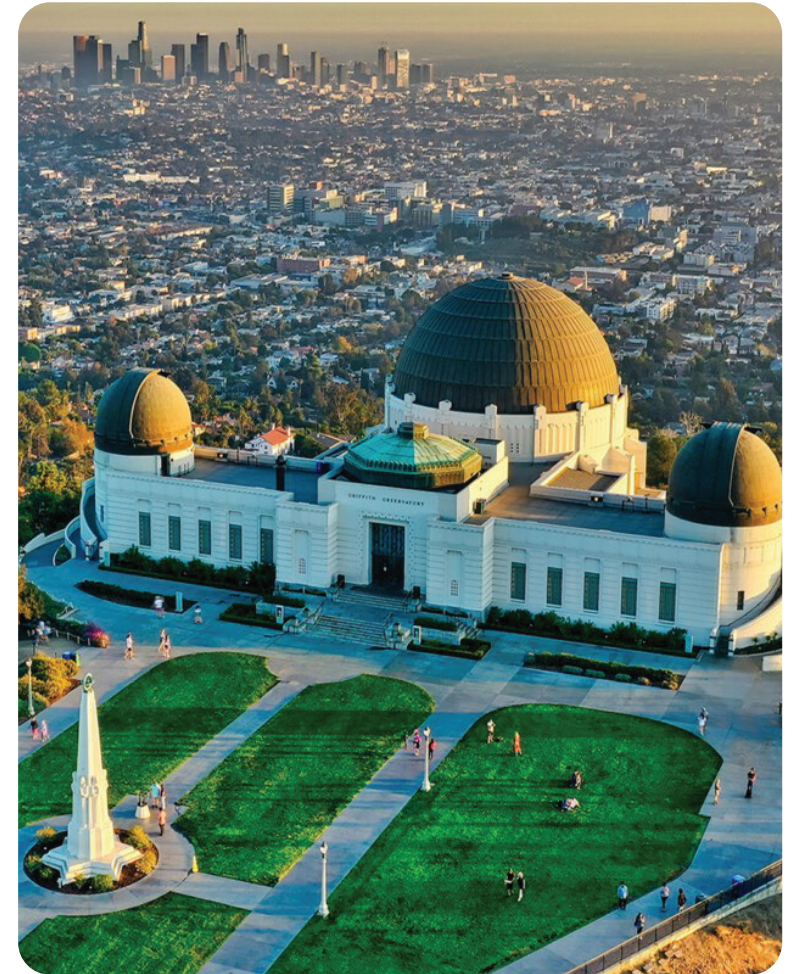
Griffith Observatory, renowned for its public astronomy and science education programs, sought to extend its reach and engagement. This led to significant advances, including welcoming millions of global visitors annually, expanding exhibition space, and enhancing capacity to deliver the best events.



OPERATIONAL OVERVIEW

SUPPORT CHANNELS: Public Visitor Services, Education Programs, and Event Management

OPERATIONS: Daily Planetarium Shows, Public Telescope Viewing, Scientific Exhibits, School Field Trips, Virtual and In-Person Astronomy Events.



CHALLENGES

The Observatory was operating on legacy infrastructure, presenting the following challenges:

- Legacy network and lack of initial site survey limited coverage and reliability.
- Building materials and retrofit constraints made signal consistency difficult.
- Installations needed to avoid visitor disruption, restricting operational flexibility.



Coverage Limitations

No prior network survey led to poorly placed equipment, leaving some visitor zones underserved.



Structural Constraints

Retrofit difficulties with building materials and layout prevented uniform wireless strength.



Operational Restrictions

Required daytime installations meant work was scheduled around visitor activities, impacting timelines.

SOLUTION

To address these challenges, our team implemented a disruption-free deployment plan.

- Designed and implemented a high-performance wireless network upgrade plan tailored to key visitor and operational areas.
- Strategically scheduled installation activities to avoid disruptions during business hours.
- Integrated advanced network equipment, structured cabling, and enhanced security appliances for long-term performance.



Onsite Survey

A comprehensive survey assessed facility layout and signal propagation to optimize access point placement.



Equipment Integration

Indoor and outdoor APs, switches, Cat6 structured cabling, and Fortinet security appliances were deployed for reliable connectivity.



Disruption-Free Deployment

Installation work was scheduled to maintain continuous visitor experience and observatory

EQUIPMENT USED

- Indoor Ruckus Access Points
- Outdoor Ruckus Access Points
- Switches
- Fortinet Security/Firewall Appliance
- Cat6 Patching Cable



RESULTS

A horizontal bar with three segments in blue, green, and orange.

The upgraded wireless network at Griffith Observatory delivered measurable improvements in coverage, connectivity, and security.

95%

Wireless coverage achieved across targeted areas with signal strength of -65 dB or better.

100%

Seamless internet experience for staff operations and interactive guest exhibits.

1 Network

Modern security with enhanced switching, firewall, and wireless management for robust protection and scalability.

100%

Strong infrastructure foundation that is scalable for future capacity as technology evolves.

