



From Step A to Z: Providing a Department of Homeland Security Agency With A Wi-Fi Infrastructure Upgrade



THE CHALLENGE:

The Department of Homeland Security (DHS) agency faced challenges with unreliable internet connectivity, hindering agency operations. They sought to implement a secure and reliable Wi-Fi network accessible to employees and guests while maintaining air-gapped security from the internal network.



SCOPE OF WORK:

Presidio Federal undertook a comprehensive project to design, install, and configure the new Wi-Fi network. The scope included equipment provision, training, and deliverables such as design diagrams, testing documents, and as-built documentation.



SOLUTION IMPLEMENTATION:

PHASE ZERO

Kick-off: Our team initiated the project with a kickoff meeting to gather stakeholder requirements, security considerations, and engagement processes.

PHASE ONE

Planning and Design: Conducted planning meetings and site walkthroughs to understand technical requirements and site-specific details. Provided initial high-level design drawings for stakeholder review.

PHASE TWO

Predictive Wireless Site Survey: Performed predictive wireless site surveys using floor plans to recommend access point (AP) locations. Generated site survey reports highlighting any deviations from the original design.

PHASE THREE

Equipment Procurement and Pre-Staging: Acquired and provisioned equipment in Presidio Federal's integration lab. Coordinated with Level 3 for internet circuit delivery and drop-shipped pre-staged equipment to the deployment site.

PHASE FOUR

Deployment: Installed equipment according to the site plan, minimizing disruption to existing DHS operations. Updated stakeholders on progress and conducted testing to ensure network functionality. Created as-built documentation including technical workbooks, AP location lists, and test plans.

PHASE FIVE

Closure: Conducted a demonstration of the network to DHS leadership, ensuring functionality and usability. Completed operational hand-off to Presidio Federal Managed Services for ongoing remote support and maintenance.



VALUE:

The upgraded Wi-Fi infrastructure provided DHS staff with reliable and secure internet access, enabling more efficient execution of agency operations. Presidio Federal's solution preserved labor hours and reduced costs while improving overall connectivity for DHS's employees and guests.

Through effective project management and engineering expertise, Presidio Federal successfully addressed connectivity challenges and delivered a robust Wi-Fi network solution tailored to the agency's needs. infrastructure.

