

Modernizing Network Infrastructure for a Department of Homeland Security Agency



THE CHALLENGE:

A Department of Homeland Security (DHS) agency faced the challenge of an outdated Cisco-based network infrastructure. They desired to upgrade their network topology to a more modern solution using Cisco Meraki hardware. The project involved significant planning, coordination, and technical expertise to ensure a seamless transition without disrupting operations.



SOLUTION:

Presidio Federal provided comprehensive project management and engineering services to address the agencies requirements and challenges:

PHASE ZERO

Kick-off: We initiated the project with a kickoff meeting to gather stakeholder requirements, security needs, and timeline objectives.

PHASE ONE

Planning and Design: Presidio Federal conducted detailed planning and design meetings to determine technical specifications and site-specific requirements. This phase resulted in an initial high-level design drawing for stakeholder approval.

PHASE TWO

Predictive Wireless Site Survey: Our team performed a predictive wireless site survey to determine optimal access point locations and identify any potential issues.

PHASE THREE

Equipment Procurement and Pre-Staging: We acquired and pre-staged all necessary equipment in their integration lab, ensuring proper configuration according to the design specifications.

PHASE FOUR

Deployment: The Presidio Federal engineering team coordinated the physical installation of the new infrastructure at the site, including mounting access points and switches. Throughout the deployment process, stakeholders were updated on progress and any site issues.

PHASE FIVE

Closure: Upon completion of deployment and testing, we conducted a thorough review meeting to deliver final project documentation and ensure stakeholder satisfaction. Additionally, we provided ongoing Operations and Maintenance (O&M) support for a period of three years after implementation.



BENEFITS AND A LOOK TO THE FUTURE:

- 1. Improved Network Performance:** The upgrade to Cisco Meraki hardware provided DHS with a modern, high-performance network infrastructure, enhancing overall connectivity and reliability.
- 2. Streamlined Operations:** Presidio Federal's project management expertise ensured efficient coordination and execution of the deployment, minimizing disruption to daily operations.
- 3. Enhanced Security:** The new infrastructure included security features provided by Cisco Meraki hardware, strengthening the network's defense against potential threats.
- 4. Long-term Support:** With ongoing Operations and Maintenance (O&M) support provided by PRESIDIO FEDERAL, DHS can rely on continued assistance and hardware replacement services for three years post-implementation, ensuring the longevity and sustainability of their upgraded network infrastructure.

