



## Wireless Security Protects Multi-Site Campus

### CASE STUDY SUMMARY

#### CUSTOMER:

A CALIFORNIA SCHOOL DISTRICT

#### INDUSTRY:

EDUCATION

#### GOAL:

PROVIDE SAFE AND CLEAN WIRELESS CONNECTIVITY FOR TEACHERS, STAFF, STUDENTS, AND GUESTS

#### PROJECTS:

- SURVEY OF WIRELESS LANDSCAPE
- CISCO NAC WIRELESS DESIGN AND IMPLEMENTATION

#### BENEFITS:

- SECURITY-THE DISTRICTS SENSITIVE AND PRIVATE INFORMATION INCLUDING STAFF AND STUDENT PERSONAL INFORMATION
- PROVIDING CONNECTIVITY TO OVER 3,000 STUDENTS ACROSS 20-SCHOOL CAMPUS NETWORK

#### TECHNOLOGIES:

- CISCO NETWORK ACCESS CONTROL (NAC)
- CISCO CLEAN ACCESS MANAGER (CAM)
- CISCO ACCESS CONTROL SERVER (CSAS)
- CISCO SECURE SERVICES CLIENT (802.1X)
- CISCO 6500 WIRELESS SERVICE MODULES (WISM)
- OSPF
- MICROSOFT ACTIVE DIRECTORY

**A California Public School District leveraged C2 Company's expertise to ensure a wireless network was accessible, yet safe.**

Campus networks utilize wireless networking to provide convenient connectivity to staff, students, and guests. But without proper security, a wireless network could make sensitive school and private information vulnerable. A California Public School District, after experiencing a compromise of their computer systems through their open wireless network, utilized C2 Company's expertise of Cisco's Network Admission Control (NAC) technology to secure their wireless network and prevent unauthorized access.

### The Solution

C2 Company engineers conducted a detailed wireless survey of the school district's existing wireless network - discovering and analyzing the existing wireless infrastructure. Additionally, the C2 Company technical engineer worked with the school district's technical personnel, gathering important data such as the current security policies in place, current Authentication, Authorization, and Accounting (AAA) method, as well as reviewing all network topologies, IP Schema, routers and switches (IOS versions).

Upon completion of the discovery process, C2's technical engineer designed and built configurations for secure wireless accessibility. The solution included the enabling of 802.1x on switches to accommodate user roles (i.e. Teachers, Students, Guests, Quarantine, etc.) and the configuration of Active Directory to Accommodate user roles. (continues)

**"Harry Haramis is the best engineer I've worked with from a security perspective and he also ranks among the top in routing and switching. His knowledge of firewalls is phenomenal. Add his IPSec, DMVPN, IPS, IDS along with others makes him my first choice any chance I get."**

Omar Abuabara, SE, Cisco Systems

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## The Solution (continued)

C2 Company technical engineers installed six (6) appliances in high-availability pairs and configured for in band mode. Cisco Trust Agents and Cisco Secure Services Client (802.1x supplicant) were installed on the clients scattered across over 20 schools. With C2 Company's engineering, support and knowledge transfer, the district is providing secure wireless always-available connectivity to over 3,000 users.

## We Can Help

C2 Company architects, builds, protects and maintains the networks and systems that enable enterprises to:

- Accelerate IT's speed and business impact
- Minimize costs and risks

To learn more about how we can help you too, contact us at 650.357.0100 or [info@c2company.com](mailto:info@c2company.com).