Stable Connectivity Empowering Education

Challenge

DUNMAN HIGH SCHOOL IS ONE OF
Singapore's few prestigious institutions with an attached student hostel. In mid-2016, Dunman needed a first class WiFi connectivity solution to provide complete, high-capacity coverage required for data and file transfer, streaming video, and social media for its two buildings - used by over 350 students, faculty, and staff throughout a combined 14 floors of dormitories, faculty offices, canteens, and common areas.
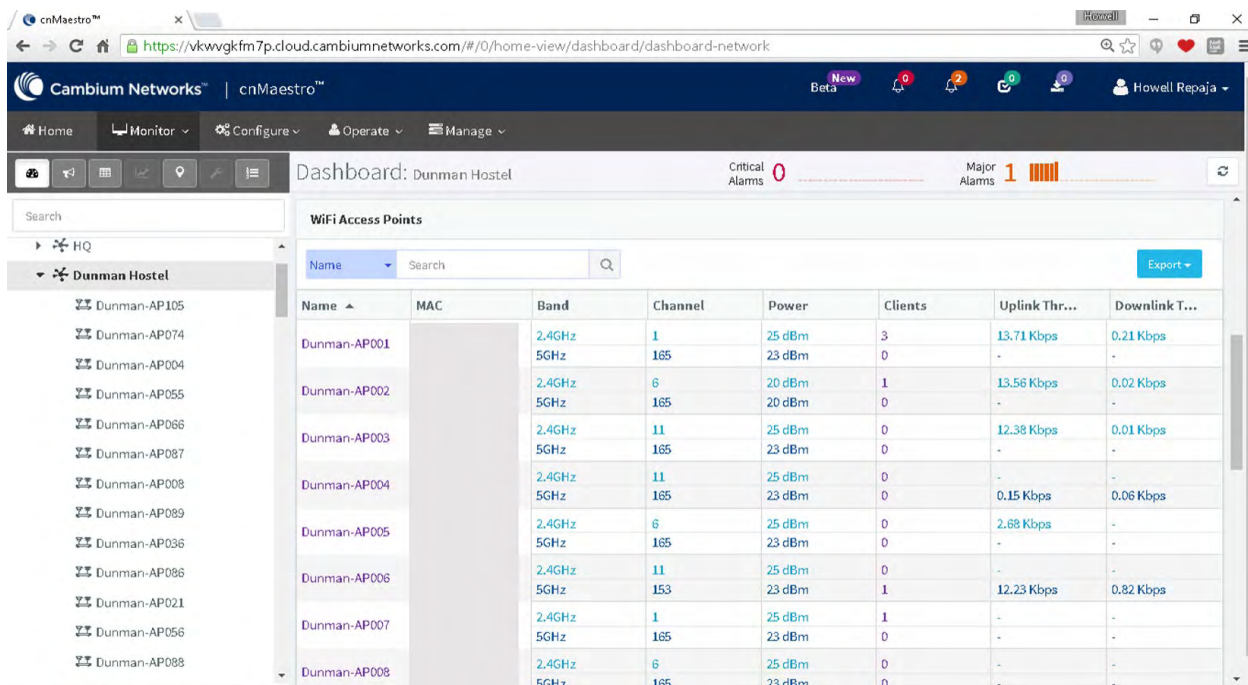

"Young people demand the most from WiFi, especially students *cn*Pilot provides them the streaming video and file transfer they need, while also pleasing the school finance team who wants an affordable solution with a low total cost of ownership."

- CHONG WEN LOONG, SENIOR MANAGER, ROOTS COMMUNICATIONS

Solution

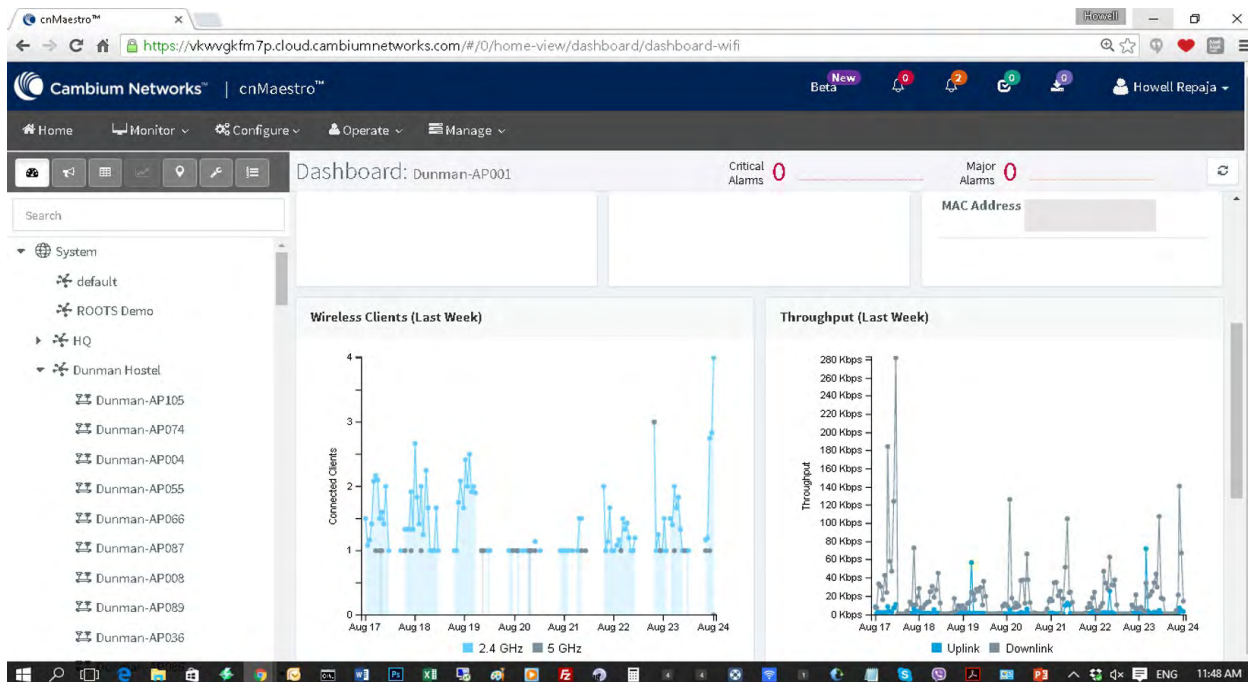**DUNMAN HIGH SCHOOL CONTRACTED ROOTS**
Communications, a leading Singapore wireless solutions provider, who used Cambium Networks' *cn*Pilot WiFi technology to design a system to fulfill the school's high-capacity needs while saving about 20% on the cost of equipment when compared with other WiFi access points.

*cn*Pilot™ E400 Indoor WiFi Solution	
WiFi Standard	802.11ac 2x2 MIMO
Frequency	Dual Band 2.4 and 5 GHz
Concurrent Clients	256
SSIDs	16

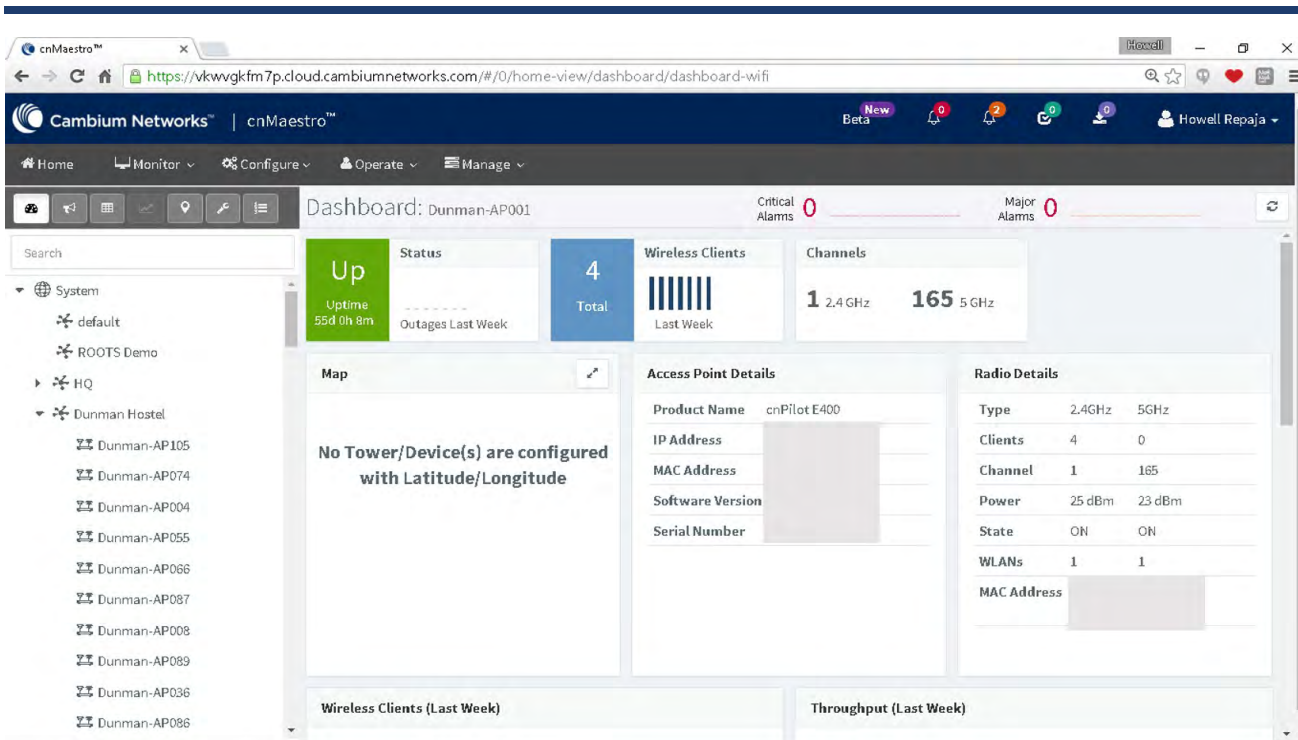| *cn*Maestro™ Network Management System	
WiFi Standard	802.11ac 2x2 MIMO
Frequency	802.11ac 2x2 MIMO

WiFI AP inventory view

View WiFi Clients and Throughput

Results

THE SIMPLE, RAPIDLY INSTALLED WIFI EQUIPMENT IMMEDIATELY PROVIDED THE LIVING AREAS WITH
connectivity needed to support file transfer and streaming video applications, earning rave reviews for reliability and speed from students and faculty members.

View WiFi Network Status

With fewer user complaints and noticeably less downtime than the former system, the cnPilot WiFi's performance also satisfies the IT team.

"We would like to thank Cambium Networks for their prompt and dedicated support during the implementation of the project," says Chong Wen Loong, Senior Manager with ROOTS Communications.

Next Steps

DUNMAN HIGH SCHOOL'S QUICK AND SUCCESSFUL deployment galvanized System integrator ROOTS to seek other opportunities for high-performance wireless connectivity, such as school stadiums and out-buildings, hotels, and public hotspot locations.

About ROOTS Communications

www.rootscomm.com

Headquartered in Singapore, ROOTS Communications specializes in wireless engineering and systems, providing telecommunications solutions to industrial, government, and service provider organizations.

Why Dunman High School Chose Cambium Networks

http://www.dunmanhigh.moe.edu.sg/

• **Reliable WiFi connectivity** for Internet access, and streaming video.

• **Ease of Deployment** to rapidly connect living areas with no disruption.

• **Complete coverage across the entire campus** including classrooms, administrative offices, dormitories, and common areas.

• **Low total cost of ownership** to have affordable high-speed connectivity.