

## Upgrading WLAN Coverage at University of Canterbury with TamoGraph® Site Survey

### Case Study

#### Wi-Fi Network Expansion

The Operations and Infrastructure Department of Learning Resources at the University of Canterbury in Christchurch, New Zealand, is responsible for managing the wireless network on campus. Originally, the university WLAN was deployed only in key teaching and learning areas; the new goal was to have complete building coverage across campus. To perform such an expansion, the Operations and Infrastructure team had to determine current coverage and identify the best locations for new access points. This task required the use of a professional site survey tool.



#### Site Surveying with TamoGraph

In the past, identifying holes in Wi-Fi coverage has been a time-consuming job for the University of Canterbury IT staff. This process involved measuring signal strength on an AP-to-AP basis and manually recoding the readings, while walking the building near each AP. With TamoGraph Site Survey, the IT staff could walk a whole building in a short time; TamoGraph recorded signal strength and other important WLAN metrics automatically, completely eliminating manual data input.

Many of the buildings surveyed were multistoried; this created a challenge with signal overlap from adjacent floors. TamoGraph could “see” the signal from APs below and plot them on the floor plan. This allowed the surveyors to move the AP, do a quick walk to resurvey the area and see how moving a few meters to the other side of a concrete beam or hallway would affect coverage. Previously, a tool that provided only the signal strength for one AP was used; TamoGraph could plot many APs simultaneously. This ability is a must where an existing network is being surveyed for coverage holes.

After the data was collected, the results were visualized on a floor-by-floor basis back in the Operations and Infrastructure office. "This is a huge time saving and improves the accuracy and confidence of the survey, while also providing a historical record," says Aaron Evers, Network Consultant at the Operations and Infrastructure department. The data analysis in TamoGraph provided an accurate picture of the existing WLAN and helped Aaron Evers and his colleagues to complete the deployment of new Wi-Fi infrastructure.

## About TamoGraph

TamoGraph is a powerful and user-friendly wireless site survey software tool for collecting, visualizing, and analyzing 802.11 a/b/g/n Wi-Fi data. Wireless network deployment and maintenance requires the use of a professional RF site survey tool that facilitates otherwise time-consuming and very complex tasks, such as ongoing analysis and reporting of signal strength, noise and interference, channel allocation, data rates, etc. By using TamoGraph, businesses can dramatically reduce the time and costs that are involved in deploying and maintaining Wi-Fi networks and improve network performance and coverage in all kinds of environments: office buildings, airports, cafes, malls, or open space areas.

## About TamoSoft

TamoSoft develops cutting-edge security and network monitoring software for the Internet and Local Area Networks, providing clients with the ability and confidence to meet the challenges of tomorrow's technology. Keeping pace with industry trends, TamoSoft offers professional tools that support the latest standards, protocols, software, and hardware in both wired and wireless networks.