



Go Wireless NZ



High capacity wireless network brings blast of colour to North Canterbury

About: Inspired by the traditional Indian Holi Festival, the Rangiora Festival of Colour focuses on bringing life and colour to our community and celebrate it's diversity and energy with music, food, dance & of course throwing colour over friends, family & strangers!

Need:

To blanket the area with a high capacity wireless network capable of hosting multiple clients.

Solution:

A number of Ubiquiti outdoor access points mixed with Ubiquiti point-to-multi-point wireless.

Requirements:

[UDM](#)

[AP-FlexHD](#)

[UWB-XG-Basestation](#)

[Switch XG 6 POE-1](#)

[LAP-120](#)

[NBE-5AC-GEN2](#)

Results:

An impressive network set-up with low latency and extremely high speed allowing multiple users to log on at once.



"This is the first-time we have had a professional Wi-Fi setup at one of our festivals. In the past we have had makeshift arrangements which simply haven't performed as we needed. At this years Rangiora Festival of Colour, the WiFi provided by Go Wireless NZ performed above expectations."

- Karl Horwarth, Event Manager.

Reasons for the product(s) deployment?

At events there is an expectation to supply the audience access to WiFi and at the Rangiora Colour Festival we were anticipating a crowd of 2500-3000 people. "It is to our benefit that users can log in, live stream and share photographs and footage from the day, tagging us on social media for fast spreading endorsements which instantly encourages larger attendance," says Karl Horwarth, Event Manager for the Rangiora Colour Festival.



What do you like about the product/service?

"As a networking engineer, the best feature of UniFi is the cloud monitoring that comes free in the UniFi Controller software when purchasing Ubiquiti UniFi Hardware," Explains Matt Wilson, Director of WiFi Guys Ltd who deployed the wireless network. This quality checking offers peace of mind when running an event and live statistics to offer a high quality service to the customer. The UniFi Controller also offers the capability to make configurations on the fly if required. Similar to the UniFi Controller, the UNMS (Ubiquiti Network Management System) offers rich monitoring and control of the PTMP (Point-to-Multipoint) network."

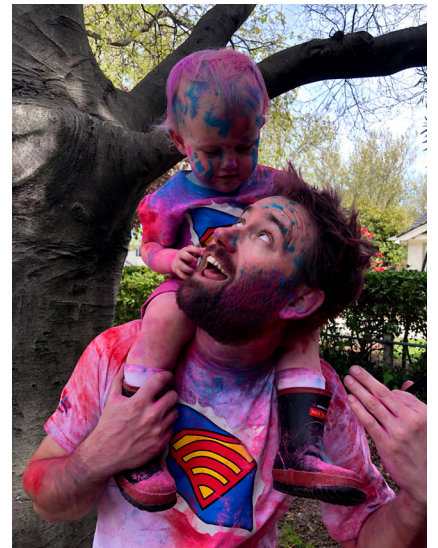


What do you dislike about the product/service?

"Nothing I can think of, it proved to be a reliable solution that did the job, the customer was happy with the results," Matt says. "The main challenges which we resolved with this installation was the ability to have line-of-site to the PTMP network, explains Matt. "We had to locate the repeater hardware in the correct location, get access to power while keeping the deployment secure and away from the public to eliminate the risk of vandalising or stealing of equipment." says Matt.

What business problems are you solving with the product and what benefits have you realised?

"This is the first-time we have had a professional Wi-Fi setup at one of our festivals," says Karl. "In the past we have had makeshift arrangements which simply haven't performed as we needed. At this year's Rangiora Festival of Colour, the WiFi provided by Go Wireless NZ performed above expectations. It was not only used by the public (which made posting photos and hashtags from the event much easier, a huge publicity benefit) but it also provided volunteers, event organisers and our infrastructure partners with a very useful tool. As organisers we were able to live stream, volunteers could also assist on social media, and our infrastructure partners could access the internet on their laptops to assist with broadcasting to the big screen - images, clips and sound," concludes Karl. "We were incredibly happy with the results."



Recommendations for others considering the product:

"We recommend Ubiquiti Networks hardware and software for event wi-fi. The monitoring and control provided by the free software makes for a stress free event and a high quality service to the customer," Matt suggests.

"By adding extra Nanobeams with PoE passive pass through and UniFi cameras to this deployment, you could have the option of additional live stream or security to an event like this for such areas as lost and found."

More information - Notes on setup:

Internet access was provided to The Rangiora Colour Festival by local WISP Amuri Net, while Matt Wilson of WiFi Guys deployed the solution which was terminated at the Town Hall using a UniFi Dream Machine.

A PTMP (point-to-multipoint) solution was created using a LAP-120 access point at the town hall, covering a 120° area where multiple NBE-5AC-GEN2 were connected as client devices for the festival.

Using a combination of UniFi Flex HD and UniFi BaseStation XG access points provided free wireless to clients. These were powered off a UniFi Switch XG 6POE.

