



Multi-channel voice linking for New Zealand Police

New Zealand Police

With 10,000 officers to connect in the field, fast and resilient communications systems are mission critical for New Zealand Police.

A recent communications expansion and upgrade project saw the deployment of Mimomax Tornado radios to support Police communications at sites spread across the country.

CHALLENGE

“We were at a point where we needed to expand our multi-channel linking equipment and also replace aging and unsupported analogue backhaul equipment in our network,” said Richard Hutchinson, New Zealand Police Radio Engineer.

With some links as long as 45 kilometers, hilly terrain and some non-line-of-sight paths to manage, the project required careful path planning prior to deployment to ensure high availability for the network.

“The combination of low audio latency and high spectral efficiency, even running at QPSK, were key requirements for our system.”

RICHARD HUTCHINSON | RADIO ENGINEER - NEW ZEALAND POLICE





SOLUTION

New Zealand Police is one of the first customers in New Zealand to deploy the 50kHz variant of Tornado radios in their Analog Land Mobile Radio network.

The radios operate within the Police's current UHF linking band with 400MHz offering greater tolerance to path obstruction and fading. "Furthermore, the fact the radios offer a wider power supply voltage range meant we had less complexity at the sites where they were being installed and a reduction in the number of spare radios we needed to stock," said Mr Hutchinson.

In addition to supplying the radios and antennas, Mimomax also provided in-depth training for the New Zealand Police communications team prior to deployment. The first phase of the Mimomax links are now installed with the next phases of deployment underway.

ABOUT NEW ZEALAND POLICE

Location: New Zealand

Industry: Public Safety

Services: Provides policing services across land, sea & air

About Mimomax

Headquarters: Christchurch, New Zealand

Regional offices: Phoenix, Arizona and Portland, Oregon

Mimomax develops wireless communications solutions for narrowband channels which enhance visibility and control - right to the edge of our customer's networks.

Our award-winning radios utilize Multiple Input, Multiple Output (MIMO) technology combined with full duplex communications and ultra-low latency to provide our customers with communications solutions which optimize data throughput and provide rapid feedback and control of their mission-critical assets.

Winner of the 2018 UTC IMPACT Award for Mimomax Tornado Radio.

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