

# New Zealand Police

## New Zealand

### Case Study



#### THE CUSTOMER

The New Zealand Police (NZP) employs more than 10,000 staff around the country and uses a variety of vehicle types to police across a huge land area with different types of terrain.

#### SITUATION

The NZP radio network needed to be upgraded from their dated conventional analogue network to a trunked digital solution while also enabling the Police to continue doing their jobs effectively.

The NZP must always have the ability to communicate with emergency services providers and other government agencies, so the introduction of new secure radio system required a considerable amount of work to both plan and implement. It involves not only replacing the radios that officers use, but also replacing the backbone equipment which runs the NZP radio network nationwide.

The network consisted of 250-300 different VHF sites in the 70 MHz band (490 MHz UHF in the cities) transitioning to a similar number of 140 MHz trunked sites, and 490 MHz trunked sites for cities. Many of these sites are relatively inaccessible, so installation planning and the remote monitoring capability of the TB9100 is important.

**“Through this process, we selected Tait’s P25 solution. Tait won the contract for Police’s new radio network by proving that they had the right people, technical expertise and reliable equipment to provide the full solution.**

**We are now working together as partners to ensure emergency services get the best possible radio technology to support their work.”**

Murray Mitchell - Police ICT Manager  
New Zealand Police

## RESPONSE

A working group comprising Police, Fire, Ambulance, Customs, State Services Commission, Ministry of Economic Development, Fisheries and others had earlier selected the P25 standard, under the e-Government Interoperability Framework, as the most suitable for the New Zealand environment.

Starting with the replacement of their still-live analogue network to a TaitNet trunked P25 network in the main urban centers, the NZP gradually extended their network across the country. The Tait Communications P25 digital radios can successfully communicate in analogue mode, so the NZP could migrate to digital at a pace that suited them.

NZP's specialist groups nationwide were successfully migrated to the new digital network in late 2008. The Wellington region was the first area to get secure digital radio in June 2009, followed by Canterbury and Auckland by end of 2010.

## OUTCOME

The new NZP network is simple and open; deploying off-the-shelf components for greater value and ease of support. Project management and Tait Communications services ensured that milestones were aligned and that their return on investment was maximized.

The new encrypted digital trunked network means that no one can use scanners to find out the intentions or whereabouts of police frontline staff. This not only increases officer safety, but also the security and reliability of the NZP's radio communications network and gives more flexibility for special police operations. Security can also be better managed because of the advanced encryption on the TP9155/60 and TM9155s.

The new APCO P25 portable radios are more robust than the NZP's previous radios and have better audio quality with less interference. The portables include the TP9155s and TP9160s with Intrinsically Safe batteries, intelligent power management and a variety of accessories. The TM9155 mobile radios installed in police cars, vans and motorbikes include a mix of remote, fixed and hand-held control heads. The portables and mobiles share the same interface, so they are easy to use.

## MORE INFORMATION

For news, product specifications, comprehensive technical information and contact details of your nearest Tait service facility, please visit [www.taitradio.com](http://www.taitradio.com)

## CUSTOMER PROFILE

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## APPLICATIONS

- ▶ P25 trunked digital network
- ▶ P25 digital portables and mobiles
- ▶ P25 digital base stations and encryption solutions

## BUSINESS BENEFITS

- ▶ Secure communications improve NZP officer safety and their impact on crime
- ▶ More flexibility for special Police operations that require communications between units
- ▶ Better audio quality with less interference
- ▶ More robust radio terminals
- ▶ Shared design and install services: coverage testing through to training
- ▶ Backwards compatible and distributed infrastructure deliver value and network resilience
- ▶ Coverage across varied terrain: P25 delivers the best value digital quality and security
- ▶ Audio clarity and tough portables/mobiles provide accurate and reliable communications
- ▶ Ongoing partnership ensures excellent return on investment



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