

Inter-City backhaul



Think Smart • Get Connected

SAF CFQ offered a high capacity startup option - 155Mbps, with a clear upgrade path to Gigabit Ethernet.

Mr. Shane Ward
Fast Data Solutions Ltd.

SAF CFQ systems provide the following services for NetSmart:

- Backbone and last mile for Internet

Advantages:

- Range of comprehensive products and solutions
- Cost effective solutions
- Full service through local partner

Customer: Fast Data Solutions Ltd.
End-user: NetSmart
Location: New Zealand
Industry: ISP
Challenge: Create new inter-city backhaul network

Solution: SAF CFQ systems

About Net Smart

NetSmart is a regional Internet Service Provider (ISP) offering broadband, Ethernet circuits, hosting and other data centre services. NetSmart uses SAF products for backhaul and also for last mile connections to certain key customers. Increasing inter-city backhaul capacity requirements and the need for greater redundancy led to this project - to build a backhaul network, capable of scaling to Gigabit Ethernet.

NetSmart operates the network and sells capacity to anyone requiring high capacity backhaul between Auckland and Tauranga.

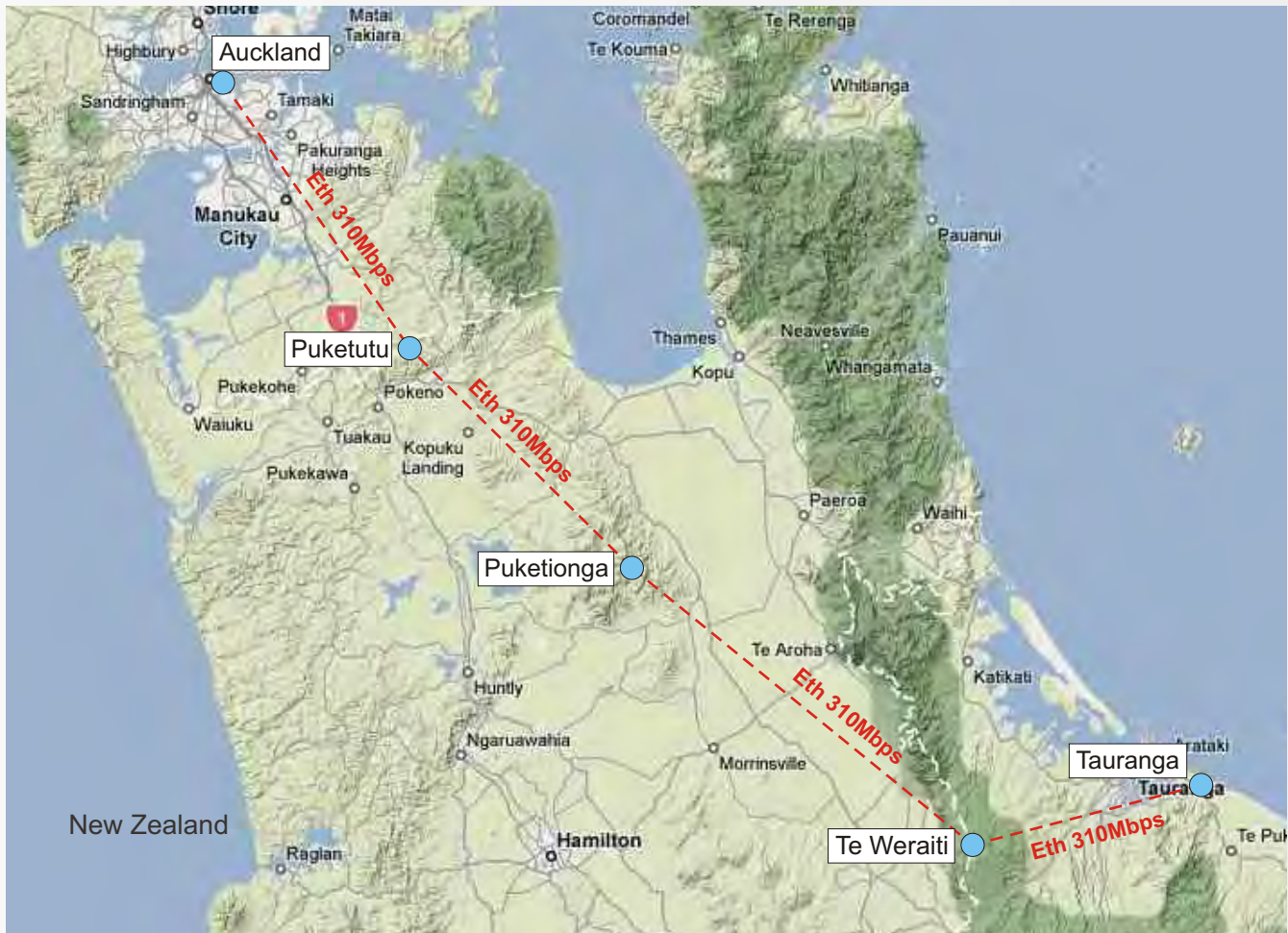
Challenge

Prior to starting the project very few options existed for high capacity linking between Tauranga and Auckland. The capacity was rented from other Telcos who own networks between Tauranga and Auckland however this was not a cost effective solution. The cost of building new capacity with SAF equipment was a fraction of the rental cost for existing options.

Solution

The new network between Tauranga and Auckland was implemented with use of SAF CFQ radio systems with high capacity rate 310Mbps. The main network traffic is Ethernet, however SAF CFQ also provides the option to transport E1 voice traffic which has proved to be a useful bonus for future requirements.

Auckland - Tauranga network topology



Auckland - Tauranga network details

- Total distance: 200km
- Link distances: up to 50km
- SAF equipment used:
CFQ-IDU & CFQ-ODU (155Mbps)
- Frequency: 7Ghz
- Capacity: up to 310Mbps



■ CFQ backhaul site (Te Weraiti, New Zealand)