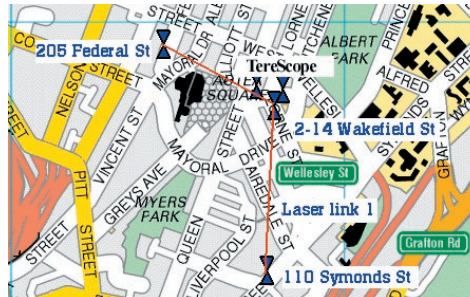


CASE STUDY

## Academic Colleges Group TereScope 155 Protocol Select



ACG College with 100Mbps laser links shown in red



Remote optical wireless link detail



Indoor mounted TS155PS (without hood)

Location: Auckland, New Zealand	Company: Academic Colleges Group (ACG)
Protocol: Fast Ethernet	Rate: 100 Mbps
Environment: City center	Mounting: Outside corner of structures and behind windows

Academic Colleges Group (ACG) is a leading private educational institute based in Auckland, consisting of English- Senior-Junior- and International College. ACG experiences spectacular growth, which in turn requires additional classroom space to keep up with student numbers. Within Auckland, ACG College operates from remote locations such as 205 Federal St and 110 Symonds St (see above map).

### The Solution

All host computer resources are located at 2-14 Wakefield St, nearby buildings in Queen St and Lorne St and connected via fiber cable.

Fiber was not really an option for 110 Symonds St and 205 Federal St building whilst high-speed broadband services from a carrier were too expensive.

ACG's IT Manager Ben Statham searched which other communications options were available to him and choose a optical wireless link by MRV, TereScope 155PS (model TS3303) for 110 Symonds St.

This link operates at a rate of 100 Mbps (Fast Ethernet) and has been operational since October 2001. The 2<sup>nd</sup> link is a TereScope 155PS (model TS4400) and runs to 205 Federal St. It initially carried 100 Mbps data traffic with Voice (2Mbps E1 channel) added via a 3<sup>rd</sup> party multiplexer.

The MRV links ensure that students at the remote

locations have fast access to the Internet and Intranet, email (via MS Exchange) whilst tutors and admin staff have access to the school database.

Computer resources are all located at a central location but made available at the remote sites at 100 Mbps.

### Conclusion:

The flexibility of mounting the equipment both indoors and on rooftops, without radio licensing and with user selectable speeds (34 Mbps, 100 Mbps and 155 Mbps) means that the same equipment can be used in a wide variety of applications.

No additional servers are required at the remote locations and no monthly expenses for high speed leased lines.

The ROI time was around 6 months, which is also appreciable.