



## THE FIBRE ALTERNATIVE

MOUNT WAVERLY'S VISION WAS TO PROVIDE ALL STUDENTS WITH EASY AND RELIABLE ACCESS TO WEB BASED LEARNING ACTIVITIES VIA LAPTOPS AND TABLETS. VERTEL DELIVERED HIGH CAPACITY INTERNET SERVICE OVER CARRIER GRADE FIXED WIRELESS ACCESS TECHNOLOGY THAT MEETS ALL OF THEIR CURRENT AND FUTURE BANDWIDTH AND PERFORMANCE REQUIREMENTS.

Mount Waverley Secondary College is a large Victorian co-educational state high school located 20km east of the Melbourne CBD. The school has had a very progressive approach to e-Learning for many years and in mid-2012 began to look at rolling out a new BYOD program after several members of the IT department attended an iPad implementation course and were impressed by what it could deliver to the school's 1,900 students.

### THE CHALLENGE

Although Mount Waverley Secondary College had a 50Mbps Department of Education fibre connection, a separate dedicated and uncontended circuit was required that would give the school the confidence in having Internet bandwidth available when it was needed and also provide data path redundancy. The installation and monthly usage costs being quoted by traditional fibre providers did not appear to be an option.



MOUNT WAVERLY HAD A PROGRESSIVE APPROACH TO E-LEARNING FOR MANY YEARS AND WAS LOOKING TO ROLL OUT A NEW BYOD PROGRAM.





Mount Waverley Secondary College required a network that would:

- Deliver an uncontended, reliable carrier-grade Internet connection.
- Provide unlimited and unmetered Internet access with guaranteed SLAs.
- Be highly scalable to cope with increasing bandwidth demands.
- Work within the constraints of a public school budget.

## OUR APPROACH

Working with the incumbent integrator (Honeylight Consulting) we consulted with the school's IT department to determine their current and future broadband requirements.

With a vision to provide all students with easy and reliable access to web based learning activities via laptops and tablets, they rapidly determined that the cost of installing additional fibre to the school along with the varying prices being quoted for monthly metered access was going to be prohibitive and well outside their budget.

The alternative was Vertel's Netconnect Internet service delivered over carrier-grade microwave access and an MPLS fibre backhaul core. This scalable, fully managed service would deliver unmetered and unlimited Internet access with 99.95% service availability coupled with strict performance SLAs. Installation costs and lead times would also be significantly lower than those of fibre.

## THE SOLUTION

To meet their immediate requirements Vertel installed an uncontended 50Mbps service that would cater for the school issued laptops and 700 iPads. The link will be upgraded to 100Mbps in December 2013 to accommodate for an additional 900 iPads being introduced for the 2014 school year. When complete, the school's network will be comprised of over 4,000 network connected devices.

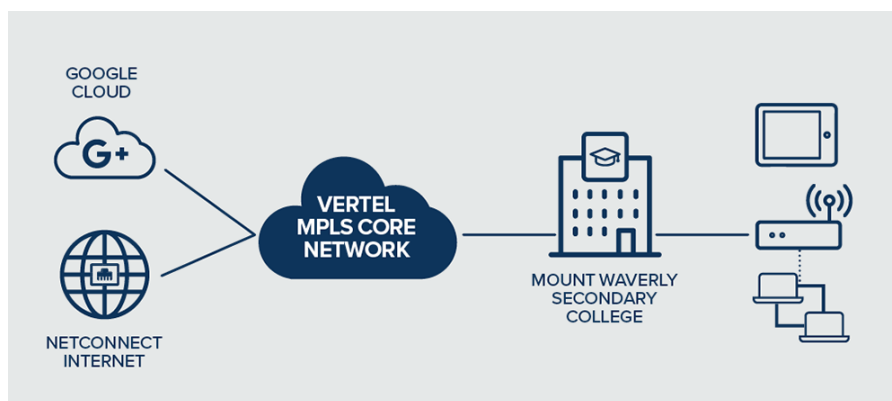
“WE ARE VERY CONFIDENT THAT WE NOW HAVE A NETWORK THAT PROVIDES US WITH ALL THE FLEXIBILITY AND CONTROL REQUIRED TO MEET THE DEMANDS THAT THE MIGRATION TO A DIGITAL WORLD WILL PLACE UPON US IN THE YEARS AHEAD.”

**IT Manager**

Mount Waverley Secondary College

OUR VISION WAS TO PROVIDE ALL STUDENTS WITH EASY AND RELIABLE ACCESS TO WEB BASED LEARNING ACTIVITIES VIA BYOD DEVICES. WE NEEDED A NETWORK THAT PROVIDED UNLIMITED, UNCONTENTED HIGH CAPACITY IP TRANSIT TO ENABLE THIS PROGRAM.

- HIGH PERFORMANCE IP TRANSIT DELIVERED OVER MICROWAVE ACCESS AND MPLS FIBRE BACKHAUL.
- FULLY MANAGED AND SCALABLE.
- STRICT SLAS AND QOS PERFORMANCE GUARANTEES.
- 1:1 UNCONTENDED SERVICE WITH UNLIMITED AND UNMETERED INTERNET ACCESS.
- 24/7/365 SUPPORT.



## THE RESULTS

Mount Waverley Secondary College now has a carrier-grade Internet connection that meets all of their current and future bandwidth and performance requirements. The whole project, from design to commissioning was done within two months, just in time for the 2013 school year.

Multimedia and other high bandwidth subjects that were limited in their scope prior to the network upgrade are now fully integrated into the curriculum and the move to eBooks, now accounting for 50% of all textbooks used in the school, has also been accelerated.

The school's enhanced IT capabilities will enable it to continue to be recognised as an established learning community, locally nationally and internationally.

## ABOUT US

We are an Australian licensed telecommunications carrier specialising in the design, build and operation of next generation critical communications network infrastructure and associated services. We have over 40 years' of experience delivering critical network services to Government, Enterprise and Service Provider organisations. We specialise in delivering carrier grade and alternate telecommunications infrastructure in non-metro, regional and remote Australia.

We have offices across the country with a national network operations centre (NOC) in NSW that proactively monitors our networks 24/7/365.

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