

EduNet Access and EduNet InterNet

Fixed Cost Ultra Fast Broadband (UFB) for Education



EduNet is a high-speed fibre network that provides unmetered access to educational resources for schools and other educational institutions in the Auckland area.

With its combination of on-net educational content at 100 Mbit/s, collaboration between EduNet schools at 1 Gbit/s, and EduNet InterNet at up to 100 Mbit/s, EduNet breaks new ground for schools to collaborate and access knowledge without the meter running.

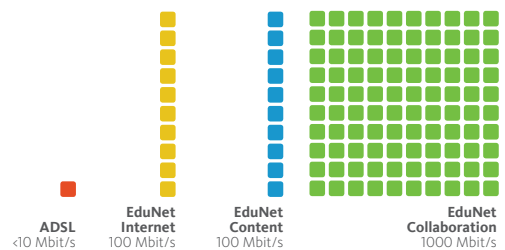


Fig 1: Bandwidth comparison

How it works

EduNet is delivered using the established VectorFibre MetroEthernet service and offers completely open connectivity for educational institutions and their users.

With access speeds of up to 1 Gbit/s, EduNet connects educational institutions and Content Providers to each other for rapid, cost-effective collaboration. Content Providers include libraries, universities, TV3, TVNZ, e asTTle, eCast and data centres in the Auckland region at up to 100 Mbit/s*.

Content is delivered purely over VectorFibre, not using legacy technologies such as copper. Fibre's outstanding throughput moves the goalposts for audio visual delivery, and at the same time reduces the overall bandwidth costs which Vector passes back to schools.

EduNet InterNet offers schools a choice of flat-rate internet bandwidth up to 100 Mbit/s, with no limit on the volume of data traffic, giving schools full use of the public Internet.



This service is delivered over VectorFibre MetroEthernet, which is internationally certified for performance and reliability by the Metro Ethernet Forum.

*Correct at time of printing. Peered services may change from those stated here.

Benefits

Unlimited learning

Flat-rate access to the Internet and educational content ensures learning programmes can be run the right way, without the fear of budget blow-outs.

Ultra high-speed

EduNet gives schools unmetered access to rich content and educational services at an unparalleled 100 Mbit/s, with EduNet InterNet connections at up to 100 Mbit/s.

Collaboration

EduNet schools and learning institutes are directly connected with one another for seamless collaboration and knowledge sharing.

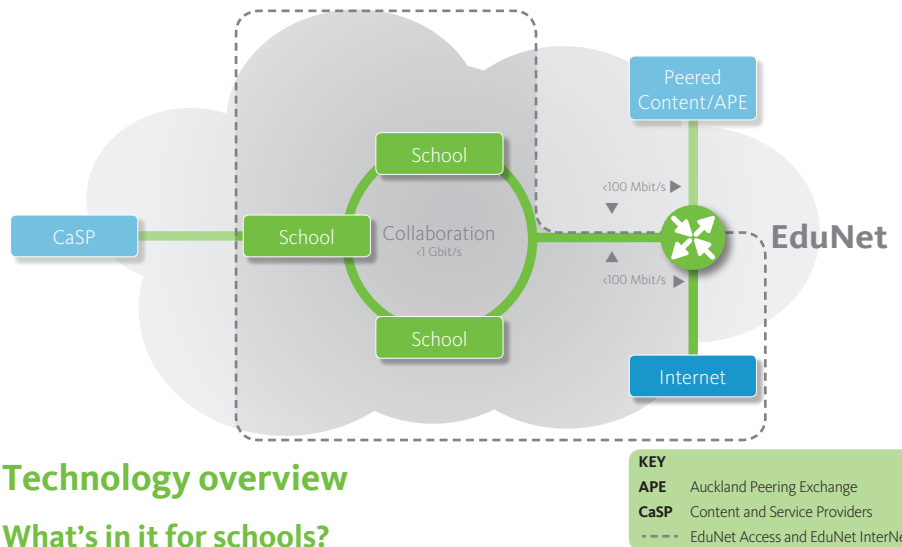
Complements other Networks

EduNet works alongside other Education Networks, which means connecting EduNet now does not prevent your school adding other education networks as they come on-stream.

ICT savings

Schools can control their ICT spend with flat-rate charging, and have the option to effectively outsource ICT services to the Cloud for further savings.

EduNet Access and EduNet InterNet technical diagram



Technology overview

What's in it for schools?

EduNet schools with EduNet InterNet get unmetered access to EduNet content, other schools and to the Internet.

Bandwidth options

	Name	Service	Options
For schools	EduNet	Access	100 Mbit/s, (up to 1 Gbit/s for collaboration)
	EduNet InterNet	Internet	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100 Mbit/s

Service Attributes	
Customer Connections	Copper (RJ45 connector): <ul style="list-style-type: none"> • 100Base-TX (100 Mbit/s) • 1000Base-T (1 Gbit/s) Fibre (SC or LC Connection): <ul style="list-style-type: none"> • 1000Base-SX/LX/ZX (1 Gbit/s)
Mode	Full duplex
MAC Layer	IEEE 802.3
Interface Speed	100 Mbit/s, 1 Gbit/s
IP Address Management	Vector Communications will allocate IP address space to the customer for link addressing purposes. Should additional IP addresses (or address space) be required, customers need to submit a formal request including a basic network topology diagram and address utilisation plan.

Network Security

Vector Communications cannot guarantee the content and sources of IP data coming via the Internet. It is vital that customers run their own security systems to protect their networks, equipment and business. Threats from external networks may include Denial of Service attacks or hackers. There may also be internal security breaches caused by viruses, trojans or insufficient security precautions.