



uecomm ethernet VPN

is your network holding you back?

In today's data-dependent world, network speed and reliability are paramount. For many businesses, competitive advantage goes hand-in-hand with the time-saving and cost-reducing business applications made possible through fibre broadband networks.

More than ever, new-generation networking underpins the drive for improved productivity, enhanced customer service levels and managed growth. Yet designing, implementing and managing a data network can be complex, time consuming and costly, particularly for organisations that lack the necessary internal resources. This is why businesses turn to Uecomm.

introducing uecomm ethernet VPN

Uecomm's Ethernet Virtual Private Network (VPN) is purpose-built for mid-sized businesses. It provides a flexible, scalable, resilient and cost-effective layer 2 managed Ethernet service for businesses who want to link their business sites, converge their data, voice and video networks and share information with stakeholders and customers.

Our Ethernet service combines the reliability and scalability of optical fibre with the simplicity, utility and price/performance benefits of Ethernet. By utilising Uecomm's simple, fast and reliable networking infrastructure, businesses can take advantage of high-bandwidth, mission-critical services like VoIP and other business applications.

Uecomm Ethernet VPN is ideal for connecting multiple offices and sites, whether they are down the street or across the country. Access services, including fibre, E1, SHDSL and ADSL, connect each customer site to Uecomm's core Ethernet network, catering for differing customer needs and geographic availability.

enhanced network performance without the cost

As Uecomm Ethernet VPN is a layer 2 service, customers retain control of their network including how their traffic is routed. Changes can be made quickly and easily and customers are not required to use certain protocols, thereby reducing the need for significant IT resources and skills.

The advantages of combining voice, data and multimedia traffic onto a single multi-purpose network:

- Lower total cost of ownership of the network
- Enhanced productivity
- Simplified network management
- Reduced infrastructure costs
- Ability to implement a host of new and powerful applications.

the benefits of a ucomm ethernet VPN solution

scalable	<p>With Ucomm's extensive range of access services, customers can upgrade their sites with minimal impact and cost as their business grows, generally without equipment or network changes.</p> <p>Customers who choose Ucomm fibre to connect their sites can also take advantage of our Bandwidth on Demand facility.</p>
simple	<p>Featuring simple, well understood protocols and technology, Ucomm Ethernet VPN can reduce training costs and allows customers to keep IT staff focussed on internal matters while we focus on their network connectivity. Traditional data solutions can drain IT resources. By combining Ethernet access services, Ucomm's network solution delivers the same benefits with much less effort and cost.</p> <p>Ethernet is "plug and play". All the customer needs is an RJ45 interface for services up to 100Mbps, or either an RJ45 interface or a standard fibre connection for higher speeds. There is no need for routers or circuit configuration, or specialist training for staff.</p> <p>Data is transmitted at layer 2 rather than through routers, so there is no need for IP addresses. This eradicates the complexity of IP and legacy networks.</p>
reliable and secure	<p>Ucomm's Ethernet VPN is suitable for even the most mission-critical applications. The extreme reliability of our Ethernet VPN is demonstrated by the integration and performance of Ethernet and IP protocols in LAN environments. Reliability is also inherent in our switched fibre optic network.</p> <p>Ucomm network solutions keep your traffic on our network, improving performance and reliability with lower latency. Security is also enhanced as customer data traffic never touches the public internet.</p>
performance	<p>Ucomm implements an "active congestion avoidance" policy for Ethernet VPN services. We design our core network to avoid congestion (based on existing traffic patterns and the links to be added). We also continuously monitor the network.</p> <p>Ucomm offers a range of Service Level Agreements for customer peace of mind.</p>
risk mitigation	<p>Ucomm Ethernet VPN uses proven, reliable technology. Ucomm's core network has diverse redundant fibre paths to ensure continuity. Redundant customer solutions can be designed to reduce the risk of individual service failure.</p>
geographic coverage	<p>Ucomm owns and runs one of Australia's largest optical fibre networks. Owning our own infrastructure means Ucomm can deliver network solutions cost-effectively and efficiently. It also enables us to carefully control traffic – including systems to ensure that all links are running at traffic levels sufficiently low to avoid congestion.</p> <p>Our Ethernet VPN service is delivered over this state-of-the-art network, which now spans the CBDs of Sydney, Melbourne and Brisbane. The network extends through metropolitan areas in these cities and from Brisbane to the Gold Coast. National and international access is achieved via agreements with trusted third party network providers.</p>

about uecomm ethernet VPN

Uecomm Ethernet VPN automatically enables many-to-many connectivity, allowing customers to connect any number of sites with no extra configuration effort. It also delivers identical technology over all your networks and protocols in the LAN, MAN and WAN. Each customer site is connected to Uecomm's core Ethernet network via an access service. Data is transferred between sites using one or more VLANs.

Uecomm offers three types of VLAN

- **Data VLAN** – ideal for connecting two or more sites belonging to the same customer.
- **Internet VLAN** – connects the customer site to Uecomm's internet Point of Presence when the customer purchases Uecomm internet.
- **Community VLAN** – designed to connect sites belonging to different customers for the purpose of sharing information.

multiple VLANs

Having multiple VLANs on a single connection enables a customer to securely separate traffic on their own network. For example voice versus data traffic or head office versus branch traffic.

bandwidth on demand	Bandwidth on Demand (BoD) is available on Uecomm fibre services and enables customers to temporarily increase their bandwidth for specific business requirements. For example, a customer may need to perform a weekly data backup to a data centre. BoD lets them significantly reduce the time taken to perform the backup.
monitoring and management	<p>Uecomm provides reactive monitoring with all services. When a defined event occurs, it is logged in Uecomm's reactive management queue and National Operations Centre (NOC) operators address the queue when time permits.</p> <p>Uecomm also offers proactive management on specified access services. With a proactive service, the Uecomm NOC monitors critical links and receives an alarm when a fault condition occurs. Once the alarm is raised, the NOC automatically notifies the customer of the fault. In many instances, the issue is resolved before the customer is even aware of it.</p>
reporting	<p>Uecomm's reporting service gives customers access to important information and statistics on their network performance via a web portal. This service assists customers to plan for future application deployment and accurately dimension their network.</p> <p>Two types of reporting are offered:</p> <ul style="list-style-type: none">• Basic reporting provides performance statistics on the access service and uses the existing functionality in the customer's NTU. It is not available on all access services.• Enhanced reporting provides end-to-end network performance for each site that has the service enabled. It is suitable for customers using real-time applications such as video conferencing, VoIP and time critical applications like Citrix.

choice of access services

Uecomm is a single source national provider of secure multi-site managed data networks and dedicated internet access for businesses and communications carriers.

Coordinating multiple providers to create one network can be difficult and time-consuming. Working with a single provider offering a data networking solution to suit their budget, speed requirements and office locations offers important advantages for businesses.

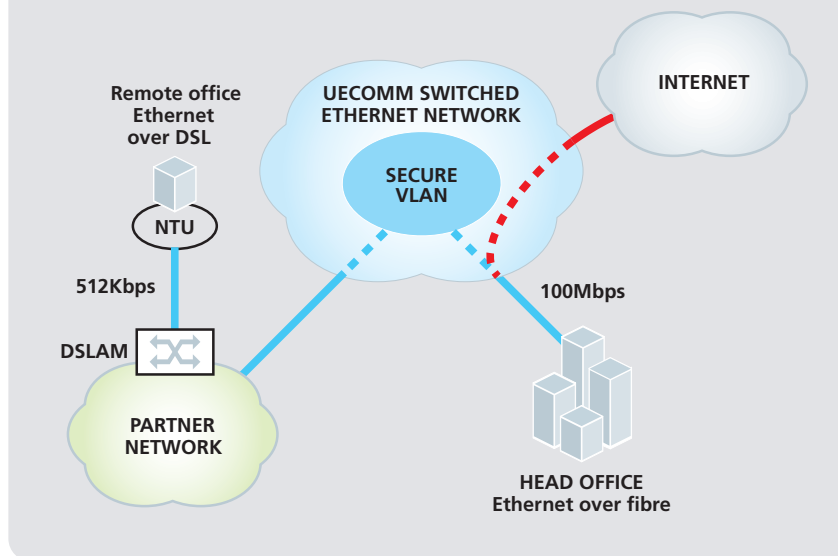
Each customer site must be connected to the Uecomm core Ethernet network using an access service. The choice of access method will depend on geographic availability, price and bandwidth requirements.

Due to the dedicated bandwidth and performance of Uecomm's network, fibre is the first choice of access for customers using, or planning to deploy, real-time and mission critical applications or wishing to use multiple VLANs. Network speeds range from 1Mbps to 1Gbps. Access service options include:

E1

Ethernet over E1 is ideal for areas where fibre access is not available. E1 is a 2Mbps, clear channel connection suitable for real-time applications and is widely available across Australia including all metropolitan areas and a large number of regional centres. It allows customers to extend their enterprise WANs effectively to distributed sites or branch offices.

example of uecomm ethernet VPN



DSL

Ethernet over DSL is suitable for areas where fibre access is not available, or where customers simply require lower bandwidth. It is a layer 2 Ethernet bridged service.

Ethernet over SHDSL is a symmetric service (downstream and upstream traffic travel at the same speed) and is suitable for real-time applications.

Ethernet over ADSL is an entry-level product suitable for connecting small or remote offices to the Uecomm Ethernet VLAN network at an affordable price. It is an asymmetric service, which means that the speed of traffic downstream (to the customer's computer) is greater than the speed of traffic upstream.

The three DSL service grades are differentiated by the level of contention on the network:

- **Corporate** – Offering 1:1 contention, this service grade is ideal for real-time data applications such as video conferencing and VoIP.
- **Business** – With varied contention ratios, this service grade is suitable for some real-time applications, provided that customers only rely on the guaranteed part of the bandwidth.
- **Office** – With varied contention ratios, this is a best efforts service with no guaranteed bandwidth. This grade is suitable for non real-time applications such as internet connectivity.

service level agreements

Uecomm Service Level Agreements (SLAs) cover the installation, availability and performance of our network services. A standard SLA is provided with all services, while an optional premium SLA (Star) is available with specified access services.

contact us

For more information on Uecomm Ethernet VPN, contact your Business Account Manager, call Uecomm on 1800 832 666 or visit our website at www.uecomm.com.au