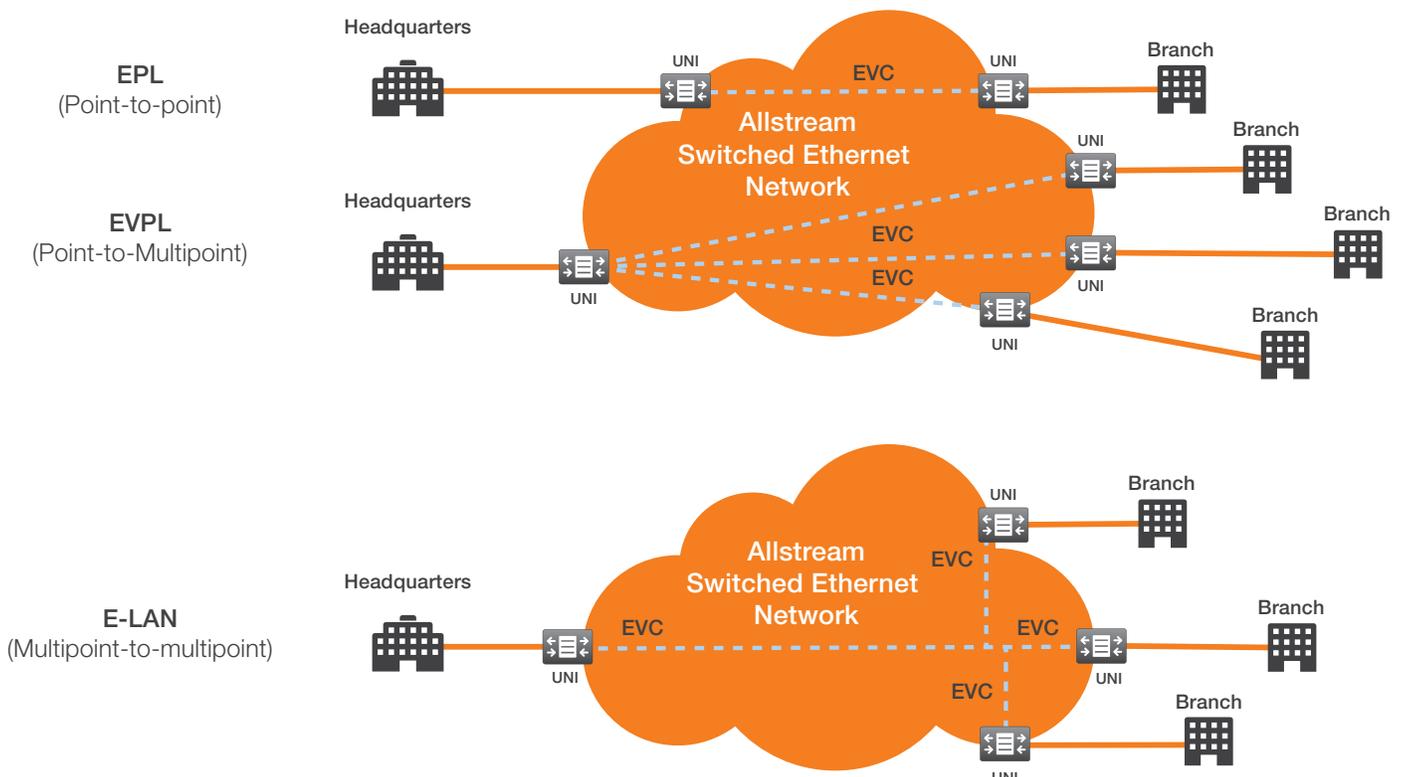


# Switched Ethernet

Your network is at the heart of your business. It's the nerve system that enables communications and applications that run your business, and most importantly empowers you to service your customers. That's why you need a network that meets the strictest standards. Allstream's Switched Ethernet is a Metro Ethernet Forum (MEF) certified Carrier Ethernet 2.0 service. It features a private, secure and efficient network solution that makes it easier to share data and control network resources, while providing scalable bandwidth options that support voice, video and data over our national fibre optic network.



This world class network solution supports various MEF standardized services which can be combined to meet your precise business needs.

- Our Ethernet Private Line (EPL) service provides a point to point solution for businesses with two locations.
- The Ethernet Virtual Private Line (EVPL) service enables point to multipoint networking for businesses with a central office and multiple branch locations.

- Whereas, our Ethernet Local Area Network (ELAN) service provides both port and VLAN aware solutions for businesses that need to connect all of their offices on a single network, while still allowing for the segregation of traffic between business units.

All of our flexible delivery models provide your team with the ability to control your network and adapt to changing business needs as they happen. With the support of multiple Classes of Service (CoS), you can ensure that your most critical applications are always prioritized. CoS is enabled throughout our national fibre optic network, all the way to the User to Network Interface (UNI) demarcation at your location. Allstream Switched Ethernet provides a cost effective single access point to each of your locations for secure, high bandwidth connectivity. And you can rest assured that you're never alone. Our Managed Service capability gives you the peace of mind that Allstream, your valued partner, supports you at all time.

### **Allstream Switched Ethernet ensures less network complexity and more performance certainty through:**

#### **Seamless connectivity across the Wide Area Network**

Establish reliable and secure connectivity between two or more local area networks, with the ability to prioritize your applications to ensure a steady and predictable experience for all of your users. It offers both port based and Virtual LAN (VLAN) aware configurations to meet the demanding but specific needs of each business.

#### **Cost effective solutions**

The UNI allows for a hand-off between Allstream's network and your LAN. This interconnection point is transparent to most (layer 3) routing protocols enabling you to leverage your existing equipment, thereby saving you the costly expense of replacing these devices.

#### **Network performance**

Allstream Switched Ethernet offers up to four distinct Class of Service (CoS) levels that can be assigned to different types of traffic in order to optimize the throughput of your most critical applications.

#### **High throughput**

With bandwidth capability of up to 10 Gbps, you can ensure sufficient capacity for business critical activities. These can range from 1 Mbps to 10 Gbps, all of which are guaranteed ensuring you will always have your prescribed bandwidth available.

#### **Service guarantees\***

From installation to ongoing performance, you demand the highest levels of quality and reliability. At Allstream, we've developed our service guarantees to match your needs, guaranteeing both on-time delivery and availability. Once the service is properly installed and operational, we offer a site availability guarantee of up to 99.9% and a Mean-Time-To-Restore (MTTR) of four hours in the event of an outage.

Allstream Switched Ethernet offers four service speed options: E10, E100, E1000 and E10G. The following table details some of the key features available with the service:

Feature**	Details and Availability
User Network Interface (UNI)/Port Speeds/ Ethernet Virtual Connection (EVC) Bandwidth	<ul style="list-style-type: none"> <li>• E10 Service – 10 Mbps/Up to 10 Mbps</li> <li>• E100 Service – 100 Mbps/Up to 100 Mbps</li> <li>• E1000 Service – 1000 Mbps/Up to 1000 Mbps</li> <li>• E10G Service- 10 Gbps/Up to 10Gbps</li> </ul>
Supported LAN Interfaces	<ul style="list-style-type: none"> <li>• Fast Ethernet (RJ-45) for E10/E100</li> <li>• Gigabit Ethernet (RJ-45 and/or Optical) for E1000</li> <li>• 10 Gigabit Ethernet (Optical) for E10G</li> </ul>
Service Topologies E-Line (EPL, EVPL) E-LAN (EP-LAN, EVP-LAN)	<ul style="list-style-type: none"> <li>• Point to Point</li> <li>• Point to Multipoint (Hub and Spoke)</li> <li>• Multipoint to Multipoint (Any to Any)</li> </ul>
Frame Tags Untagged (null) Frames at UNI	Supported
802.1Q Tagged Frames at UNI	Supported
Class of Service (CoS) Options	Supported – Up to 4 classes of service: <ul style="list-style-type: none"> <li>• Real-time (highest)</li> <li>• Video</li> <li>• Priority</li> <li>• Best effort</li> </ul>
Customer Edge (CE)-VLAN CoS Preservation	Supported
CE-VLAN ID Preservation	Supported
Maximum Frame Size	Up to 9022 bytes
Layer 3 Transparency	Supported
Optional High Availability Access Designs	Supported
Management Option	Available (includes proactive monitoring, notifications and reports)
Service Level Agreements	Supported
Certifications	Metro Ethernet Forum (MEF) CE2.0 E-Line (EPL, EVPL) & E-Access (A-EPL, A-EVPL) certifications

## The difference Allstream Switched Ethernet will make to your business

### MEF Certified Carrier Ethernet 2.0

Allstream Switched Ethernet offers you a smooth upgrade path to future evolutions of Ethernet technology. As a certified MEF 2.0 carrier and proud member of the Metro Ethernet Forum, our service is fully compliant with all existing and planned standards – meaning your investment in this solution is protected.

### Low network overhead

The ability of Allstream Core Ethernet network to carry “jumbo frames” of up to 9022 bytes, well in excess of the standard 1522 byte Ethernet frame size reducing the quantity of Ethernet service frames resulting in more efficient data transmission across your network.

### National reach

Allstream’s Service area includes 98% of Canadian businesses via our diversified Access strategy. This means we can reach you and your customers’ locations in practically any part of the country.

### Peace of mind

Allstream Switched Ethernet can be combined with a Managed Service option that will ensure effective maintenance and optimum performance. This option allows you to focus on your core business tasks while we take care of the routine and time-consuming activities like proactive monitoring and notification, as well as operational and performance reporting.

\*\* Ability to support certain features may depend on the access technologies available at a specific location. For more details, please contact your Allstream Sales Representative.

## Why Allstream?

Allstream is the only national communications provider working exclusively with business customers. Our focus is helping you simplify IT operations to improve productivity, maximize performance and manage costs. Our solutions are delivered on a fully managed, fully secure national fibre optic network and backed by our industry-leading commitment to customer service: The Allstream Service Guarantee.

Whether your business needs to network 2 sites or is a global enterprise, Allstream Switched Ethernet has the flexibility to handle all your needs, now and in the future.



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For more information on Switched Ethernet, please visit [allstream.com/switched-ethernet](http://allstream.com/switched-ethernet)

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