

# CenturyLink Layer 2 Virtual Private Network Service

## Networkx Service Overview

### High Bandwidth, High Reliability and Self-Service Functionality

CenturyLink's Layer 2 Virtual Private Network Services (L2VPNS) are provided via a high capacity IP/MPLS core network. Several CenturyLink services, including L2VPNS, are converged under a unified IP/MPLS service suite. CenturyLink's L2VPNS are supported using Virtual Private LAN Service (VPLS), allowing Ethernet Layer 2, fully-meshed, secure connectivity across a metropolitan area network or wide area network. VPLS is the implementation of a LAN or bridged network environment between multiple locations.

### Features

CenturyLink's L2VPNS include a host of valuable features and capabilities. The following are examples of some of the features and capabilities available through CenturyLink:

- Quality of Service (QoS)
- Multiple Ethernet Virtual Connections per UNI
- Variable bandwidth profiles
- Multiple UNI type support and access arrangements
- Higher layer protocol transparency

### Benefits

CenturyLink's L2VPNS offer significant benefits to your Agency:

- High bandwidth and reliability
- Self-service feature functionality
- Added benefits specific to each type of Ethernet. For example, since VPLS is a Layer 2 service and runs transparently to the higher layer protocols, your Agency can carry any protocol over VPLS that standard Ethernet is capable of supporting. L2VPN provisioning also allows for each SDP to be automatically associated with the appropriate EVC in a full mesh, thus providing a degree of connection simplicity.

### Service Quality

CenturyLink's L2VPNS are highly reliable solutions. CenturyLink uses industry leading, state-of-the-art carrier quality integrated L2VPN devices. Your Agency will benefit from high quality services derived from CenturyLink's stable, proven network platform.

- CenturyLink consistently meets or exceeds the Networkx contract's Acceptable Quality Level (AQL) metrics
- CenturyLink L2VPN is proactively monitored 24x7x365
- CenturyLink offers the additional capability of reporting statistical and alarm information directly to Agencies via our Web-based reporting service, the CenturyLink Control Networkx Portal

### Geographic Availability

CenturyLink's L2VPNS are currently offered in the 48 contiguous United States plus the District of Columbia.

### Contact your CenturyLink Representative today!

Visit [GSANetworkx.com](http://GSANetworkx.com) and click on "Locate your Account Manager".

Or contact the CenturyLink Customer Support Office: 866-GSA-NETWorx (866-472-6389) Email: [federal@CenturyLink.com](mailto:federal@CenturyLink.com)



## How it Works

CenturyLink's L2VPNS work via implementation of VPLS and EVCs on CenturyLink's IP/MPLS backbone. No explicit configuration is required on the part of your Agency to add new locations into the VPLS. At the CenturyLink POP, Provider Edge devices create EVCs for each unique Agency enterprise. The EVC does not have any geographical boundaries, compared to a physical LAN switch, allowing CenturyLink the flexibility to refine and expand the scope of coverage as needed. The EVC creates a Closed User Group for each VPLS enterprise so the traffic from one Agency's EVC will not communicate with another Agency's EVC. Signaling protocols such as Label Distribution Protocol and Border Gateway Protocol auto-discover new locations based on implicit information that identifies a particular location as belonging to a particular EVC instance.

## Why Buy from CenturyLink?

- CenturyLink has a long and excellent track record of on-time delivery of services, with reliable service delivery intervals
- Effective transition allows your Agency to take advantage of next-generation services to achieve higher operational efficiency and lower unit costs
- CenturyLink takes complete end-to-end responsibility for the planning, engineering, provisioning, monitoring, and trouble management for all Ethernet access methods
- Your Agency can be assured of an integrated solution that will provide a reliable, virtually error-free data transport highway no matter what telephony, IP, or data services are used

## Other Products Available from CenturyLink

In addition to L2VPNS, CenturyLink has an array of other Services to meet your Agency's networking and security needs, including:

- Network-Based Internet Protocol Virtual Private Network Services
- Premises-Based Internet Protocol Virtual Private Network Services
- Ethernet Services
- Private Line Service
- Optical Wavelength Services

## Contract Vehicle

### Networkx Universal & Enterprise

- An overview of CenturyLink's contract is available on the CenturyLink Networkx Website at <http://www.gsanetworkx.com>

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