

# CenturyLink Network-Based Internet Protocol Virtual Private Network Service

## Networkx Service Overview

### Meeting the stringent demands

CenturyLink's Network-Based Internet Protocol Virtual Private Network Services (NBIPVPNS) ensure that your Agency's traffic remains isolated from the public Internet and traverses a secure and reliable IP VPN. CenturyLink's NBIP-VPNS deliver wide area networking based on Multi-Protocol Label Switching (MPLS). CenturyLink's NBIP-VPNS creates a fully-meshed, any-to-any VPN, and offers your Agency a flexible Quality of Service (QoS) portfolio to meet increasing demands of VoIP and critical data delivery needs. These features make CenturyLink's NBIP-VPNS ideal for the seamless integration of your Agency's service delivery point sites with a broad range of bandwidth requirements and wide variety of access architectures. CenturyLink offers a full array of industry leading features, capabilities and interfaces for Networkx NBIP-VPNS customers.

### Features

- Highly reliable solutions using industry-leading, state-of-the-art, carrier-quality integrated NBIP-VPNS devices
- High-quality services derived from a stable, proven network platform

### Benefits

- A state-of-the-art global NBIP-VPNS backbone—no backbone congestion.
- OC-192 IP backbone network global reach
- Supports Layer 1 and multiple Layer 2 access types
- Integration of secure Internet gateways for Extranet and Intranet internetworking
- Robust NBIP-VPNS QoS to prioritize time-sensitive traffic such as VoIP and video streaming
  - Four priority queues
  - 14 percentage templates
  - Four queuing methods
- Termination at CenturyLink's MPLS NBIP-VPNS edge routers using FIPS standard IPsec tunnels with AES and 3DES
- Multiple VPN tunneling standards: include Layering 2 Tunneling Protocol, Transport Layer Security (TLS) formerly SSL, Internet Protocol Security, IP-in-IP, MPLS and Generic Routing Encapsulation
- Optional network design and engineering services are available
- PBIP-VPN integration for public-to-private MPLS networking
- Any-to-any connectivity with multiple access types
- Reliable, performance-based Acceptable Quality Levels (AQLs)
- Expert support to design, install and manage networks
- Easy to manage CenturyLink Control Networkx Portal
- Ability to burst to port speed
- Redundant world-class Network Operations Centers (NOCs) and Operation Support Systems

### 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)



## Service Quality

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

- CenturyLink consistently meets or exceeds the Network contract's Acceptable Quality Level (AQL) metrics
- CenturyLink's NBIP-VPNS are 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 Network Portal.

## Geographic Availability

CenturyLink's NBIP-VPNS are global in reach, and provides the features discussed above for CONUS, OCONUS and non-domestic traffic, where available commercially. CenturyLink has partnered with multiple international providers, such as BT Infonet®, British Telecommunications®, and Equant® to deliver CenturyLink's NBIP-VPNS across the globe.

## How it Works

CenturyLink uses cutting edge MPLS-based VPN, Label Switched Path Routing and QoS technology based on RFC-4364 standards defined by the Internet Engineering Task Force. CenturyLink's NBIP-VPNS support Border Gateway Protocol dynamic routing or static routing as requested by your Agency. CenturyLink's NBIP-VPNS network uses route reflectors that exchange route information on a private out-of-band network. Route information is only exchanged between authorized sites that are members of a VPN. VPN policy control is via the CenturyLink Network Secure Network Operations Center. CenturyLink's security management system includes all necessary parameters for each VPN profile.

CenturyLink's NBIP-VPNS provides flexible access solutions for Agencies with DS-0, Fractional T-1, full T-1, fractional T-3 and higher bandwidths through OC-192c port speed requirements. CenturyLink's NBIP-VPNS support a variety of access types including Dedicated Access, Ethernet and SONET. CenturyLink's NBIP-VPNS also supports multiple Remote Access interfaces including Dial Access, Digital Subscriber Line, Broadband Wireless, Multimode Wireless LAN, ISDN, and Satellite.

CenturyLink's NBIP-VPNS offers Service Enabling Devices (SEDs) that function as a multiplexer, router, hub or Ethernet switch. SEDs can be purchased separately from NBIP-VPNS, but must conform to industry standards and not deviate from CenturyLink's NBIP-VPNS interface-mandated SEDs.

## Why Buy from CenturyLink?

At CenturyLink, NBIP-VPNS is more than a service; it is an integral link in our long tradition of providing exceptional quality services. CenturyLink's network design allows your Agency site connectivity to Asynchronous Transfer Mode Service, Frame Relay Services, Synchronous Optical Network Services, Ethernet Services, or Internet Protocol (IP) Agency sites. This any-to-any approach, and worldwide reach, allows your Agency flexibility and reliability today, along with the confidence that CenturyLink can address your Agency's needs in the future.

## Contract Vehicle

### Network Universal & Enterprise

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

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