

It classifies, secures  
and routes your traffic  
It's the intelligent  
network.



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\*Class of Service flat rate varies by port speed.

- Lower operating costs.
- Secure network access.
- Faster application deployment.
- Network-based intelligence. Reap the benefits of IP convergence.

With XO®IP-VPN, you get a network-based WideArea Networking (WAN) solution that connects multiple locations with more bandwidth for the dollar, faster application deployment and lower network operating costs than traditional circuit-switched networks. The XO private IP network—helps protect your data from the congestion and security risks of the public Internet. Plus, you reduce costs by consolidating your voice, data, and video networks onto a single IP-based platform. The intelligence that routes your application traffic resides in the XO network. The network segregates, secures and routes your traffic with the latest MultiProtocol Label Switching (MPLS) technology, universal site-to-network connectivity, and access options ranging from T-1s to Mid-Band Ethernet. So there's no need to purchase, update and maintain expensive equipment to enjoy the benefits of an XO IP-VPN.

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## Four classes of service. One flat rate.\*

XO IP-VPN offers a Class of Service option at a single flat rate. You get four Classes of Service (CoS) to easily prioritize your network traffic. Each class has access to all available bandwidth, with no additional charges based on your traffic mix. So, you can manage your critical business traffic, like voice, data, and point of sale applications, without guessing about bandwidth allocations or trying to predict how much you'll spend.

### Class of Service Options

Class of Service	Priority	Application Sensitivity to Jitter/Latency	Application Examples
Real Time	1 (Top)	Very sensitive	VoIP and Citrix
Critical	2	Tolerates bit higher latency and jitter	Video
Priority	3	Needs some special treatment	Databases
Standard	4 (Lowest)	Tolerates moderate to high variations in latency or jitter	Email and web browsing

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## IP-VPN adds up for financial services firm

A Colorado-based, financial services firm, with locations in five Midwest states, wanted to build an advanced network that would link all of its branch locations, protect sensitive data, and prioritize application traffic. To minimize disruptions to day-to-day operations, the firm required a solution that would allow it to deploy a network without forcing branch offices to change their existing LAN and WAN access methods. Another challenge was to preserve the security of branch office Intranet traffic. The solution: XO IP-VPN delivered over the XO MPLS-enabled IP network.



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## How MPLS IP-VPN stacks up against ATM and Frame

XO IP-VPN provides the security of traditional ATM and Frame Relay services, but allows you to deploy critical business applications and provision service even faster. And unlike ATM, Frame Relay, and do-it-yourself alternatives, XO IP-VPN provides universal site-to-network connectivity and flexible bandwidth ranging from T1 to 100 Megabit per second Ethernet service. In fact, XO IP-VPN customers can get Mid-Band Ethernet access across our broad national footprint in more locations than ever before.

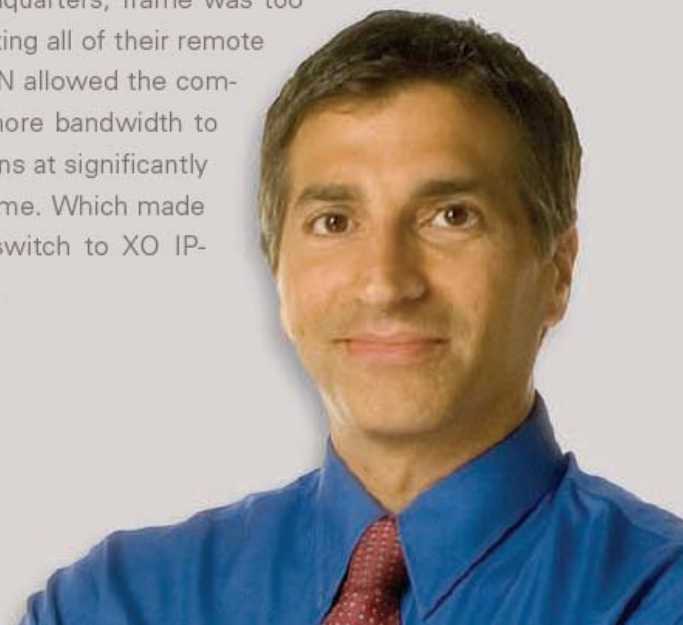
Requirement	Frame Relay	ATM	MPLS IP-VPN
Low, Per Site, Access/Connection Cost	?	?	✓
Efficient Voice/Data Utilization of Bandwidth	?	?	✓
Scalable IP Voice/Data	?	?	✓
Speedier Application Deployment	?	?	✓
Broad Selection of Access Options	?	?	✓
Integrated IP Network Management for Voice/Data	?	?	✓

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## IP-VPN drives savings with auto parts company

To save money and connect its widely scattered locations, an auto parts manufacturer turned to an XO IP-VPN solution. While the Virginia-based manufacturer relied on frame relay to connect its West Coast sales offices to corporate headquarters, frame was too costly for connecting all of their remote offices. XO IP-VPN allowed the company to deliver more bandwidth to its remote locations at significantly less cost than frame. Which made the decision to switch to XO IP-VPN an easy one.



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## Competitive performance

XO offers competitive Service Level Agreements (SLAs) on packet loss and jitter. You get 100% availability, 99.8% packet delivery and Latency rates of 65 milliseconds. Our SLAs also provide for fault resolution within four hours.

### Secure

- Secure communications for multi-site networks, delivered over the XO private, MPLS-enabled IP backbone.
- Your data is segregated from other customers and the public Internet.

### Intelligent

- Routing intelligence resides in the XO network, not in on-site customer equipment.
- More flexible routing.
- Applications prioritized for Class of Service.

### Managed

- Customized management levels to meet your specific business requirements, including options for full management and customer premise equipment (CPE).
- XO configures, deploys, monitors, and manages CPE at each of your network sites.

### Flexible

- Scalable bandwidth (access) options from DS1 to OC48.
- Broad range of Ethernet options, from 10 – 100 Mbps Ethernet.
- Any-to-any, fully-meshed topology.

### Cost effective

- One network platform for all application traffic.
- Better utilization of existing bandwidth.
- Run VoIP and data applications over same circuits.
- Select bandwidth options to match requirements of each location.
- Reap the benefits of IP convergence from XO. XO makes it easy to deploy integrated voice and data solutions for your remote sites and branch locations. With the XO portfolio of VoIP solutions, you can integrate the award-winning XOptions® Flex bundle of voice, data and web hosting services with your IP VPN, and take advantage of a cost effective, easy to manage converged solution.

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## Ad agency gets creative with IP-VPN

A large national advertising agency wanted to replace an aging ATM network, and provide more network access options for clients and end users. This network upgrade included leveraging communications technology and the Internet to expand their menu of client services for all 10 offices in 10 states. The agency turned to XO IP-VPN, which provides Mid-Band Ethernet access for seven locations, Fast Ethernet for headquarters, and DS3 access for the remaining two locations. It also allows the agency to present new campaigns on the agency network.



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## We'll customize your IP-VPN solution to your needs.

XO will configure, deploy, and manage your network. Or if you prefer, we'll provide limited network management assistance or simply help with network performance tracking and fault notification services. We can customize an IP-VPN solution to meet the needs of your business, including your specific Class of Service and bandwidth requirements.

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## The XO Evolution

The XO IP-portfolio offers solutions for businesses of all sizes and at any stage of the VoIP evolution.

### XOptions® Flex

Lets you combine voice and data traffic on a single circuit, while keeping the phone equipment you already have, and managing your services through an Internet portal.

### Network-Based IP-VPN Services

Network-Based MultiProtocol Label Switching (MPLS) - Enabled IP VPN – a wide area networking solution with site-to-network connectivity for multi-location businesses that require secure T-1 or higher services; and that offers more bandwidth for the dollar, multiple classes of service for improved application performance, and lower network operating costs than traditional Wide Area Networking or Customer Premise Equipment-based VPNs.

### XO One Managed iPBX

XO provides connections to the Internet and Public Telephone Network, along with a state-of-the-art IP-enabled PBX, and phones that are installed, and managed by us. Customers pay a monthly fee that includes network access and the cost of installing, managing, maintaining and replacing the equipment.

### SIP Trunks Available 2007

Session Initiation Protocol (SIP) trunks are used in lieu of traditional telephone digital trunks for connection to a premised-based IP-enabled PBX that combines voice and data services.

### Hosted IP-PBX Available 2007

Provides the benefits of using IP-phones, and an IP-enabled PBX, without the need to buy and manage a PBX. Instead, the functions normally associated with a PBX are "hosted" in the service provider's network. Customers access and control their features through an Internet portal.

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