

## GLOBAL CROSSING IP VPN SERVICE™ – CARRIER SERVICES

One connection, a million possibilities.



### THIS WAY TO THE FUTURE

The next generation of networking is here with Global Crossing IP VPN Service™. Take advantage of economical, real-time, multimedia capabilities to collaborate with employees, customers, and partners. Lower your overall costs and eliminate the complexities of multiple networks and providers. Get the ubiquity of the Internet, the security of a private network, and the economy of a shared network. Global Crossing IP VPN Service allows you to deploy intranets and extranets quickly, without interoperability issues. All from one company. All from Global Crossing.

### MORE THAN NETWORKING IT'S YOUR BUSINESS' FUTURE

Get the services you need to compete and win globally. With increased flexibility. Rapid scalability. Greater efficiencies. And guaranteed performance. Consolidate your voice, video, and data networking. Leverage the reach of our worldwide network. Experience the power of our application and industry expertise for streamlined solutions. All with Global Crossing IP VPN Service.

### FEATURES & BENEFITS

- **Premier worldwide network – over 100,000 miles of digital optical fiber**
- **Worldwide connectivity – interact with offices, peers and customers regardless of location or applications**
- **Provider Interconnect – multi-carrier interconnect supports IP-, MBLs-, ATM- or Frame Relay-based VPNs**
  - Cost-effective way for carriers to extend network globally to better serve their local customers with global sites
  - Ideal for re-sellers, white label programs and multi-national companies with regional do-it-yourself VPNs
- **Unlimited capacity – scale up for increased traffic, pay for the bandwidth you need when you need it**
- **Forward-looking technology – converged MPLS backbone**
- **Global Support – one account team, multi-lingual customer support**
- **Cost effective – consolidate applications on our secure, private network**

### UNPRECEDENTED FLEXIBILITY

#### → Global Crossing IP VPN Service

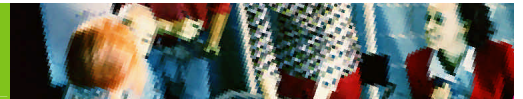
Combines the traditional benefits of VPNs – security, with the benefits of IP – scalability, flexibility and improved economics, with the benefits of ATM/Frame Relay (ATM/FR) – performance (Class of Service (CoS) with Quality of Service (QoS)) – an ideal solution for your networking needs – as either a primary network or as a fully-provisioned, always-on, back-up network.

Leverage MPLS network technology to create private, secure, tunnels across the Global Crossing IP backbone for your VPN, improve traffic flow management and minimize risk of congestion. This means lower costs and higher levels of performance for your customers. With speeds from DS0 to OC-48/STM-16 and GigE, Global Crossing IP VPN provides the ultimate in bandwidth scalability for your dynamic traffic volumes. And, now choose from three billing models – flat-rate, usage-based, and commit plus usage. Leverage our usage-based billing option so you only pay for the bandwidth you use.

#### → Class of Service Differentiation

Global Crossing IP VPN Service offers multiple CoS and differentiated QoS over Global Crossing's MPLS-enabled IP network core. MPLS technology speeds the flow of data from point A to point Z by adding a series of labels (to the data) and delivering it across a pre-determined path.

With the addition of three classes of service over true IP enabled MPLS – Basic, Enhanced and Premium – carriers gain unprecedented choice for the transmission of their data traffic based on application and traffic usage requirements. Common service application uses include Basic, for time insensitive applications such as email and file transfers, Enhanced, for data delivery applications where packet loss is minimized, and Premium, for real-time applications such as voice and video where jitter must be tightly controlled. Each class of service is backed by Service Level Agreements that include latency, packet loss, jitter MTTR and service availability. And, all of these traffic types – voice, video, and data, can be handled on one port over a single connection.



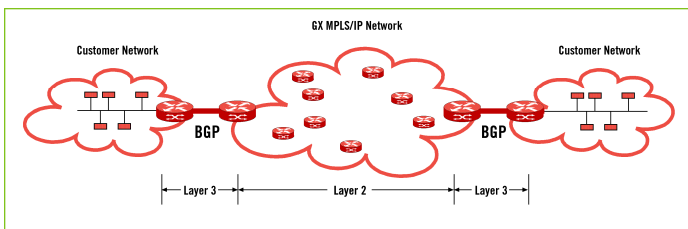
## → Unprecedented Flexibility

Global Crossing IP VPN Service provides users with integrated Layer-2 and Layer-3 capabilities supporting HDLC, PPP, frame relay and ATM and Ethernet encapsulations for Layer-2 VPNs, and GBP, OSPF, RIP and static routing protocols for Layer-3 VPNs. These features, when combined with Global Crossing Remote VPN Access Mobility or Site options, single integrated loop Dedicated Internet Access, or Secure Internet Access, comprise a highly scalable, multiple connection MPLS-based IP VPN network at speeds up to OC-48/STM-16

## APPLICATIONS

The Global Crossing IP VPN Service is a network-based solution and supports both Layer-2 and Layer-3 applications – enabling a customer to carry all of their network traffic – legacy and IP – over one network. Network speeds from sub-rate T1/E1 up to GigE and OC-48/STM-16 with scalable bandwidth over our DWDM network. Aggressive service level agreements (SLAs). Flexible transport options support voice, video, and data on a single connection. Specific carrier applications include:

- **Virtual Private Lines (backbone)**
- **Usage-based backbone for IP, IP Video, VoIP Termination and backup services**
- **Full or partial IP VPN mesh connecting PoPs and data centers**
- **Reseller solutions:**
  - DS0 - DS3 IP VPNs
  - Virtual Private Lines - eliminates the need for dedicated local access



## OPTIONAL SERVICES

The Global Crossing IP VPN Service provides carriers with a host of additional network options to choose from when considering IP VPNs. These services allow a carrier to differentiate their service offering if they decide to then to re-brand and sell the IP VPN service. Optional services include:

## → Remote VPN Access – Mobility and Site options

- Mobility – Software-based client, single laptops/desktops – for remote and mobile users
- ISite – hardware-based (CPE), multiple PCs (LAN) – for remote sites and small offices

## → Secured Internet Access - leverages network firewalls

## → Dedicated Internet Access - single loop connection

## → IP Videoconferencing application available

## → VoIP Termination service available

- VoIP Termination provides IP interconnection, transport and call completion of packet-based voice traffic over Global Crossing's integrated VoIP and TDM platforms
- IP VPN is the access/transport medium of choice for VoIP termination

And, support all of the above services and applications over a single connection.

## NON-STOP, WORLDWIDE SUPPORT

Network Operations Centers monitor and manage the Global Crossing network and switching systems 24/7, providing real-time problem diagnosis and resolution. Our multi-lingual Customer Care Centers deliver convenient, one-contact resolution for any network service issues.

Add to this a single service provider with intimate knowledge of the Carrier industry, and a dedicated account team and you'll realize that Global Crossing provides more than a high-quality network. We also provide consistent, high-quality global service.

## UCOMMAND®. YOU CONTROL.

An industry-leading online account management tool gives you access to the information you need securely, instantly. Access your account 24 hours a day to manage your network, services, obtain invoices, order services, interact with customer service and more. Visit <http://net.globalcrossing.com/tools.html> to learn more about uCommand features and availability.

**For more information on Global Crossing Carrier Services contact a Global Crossing Account representative or visit us online at [www.globalcrossing.com](http://www.globalcrossing.com)**