

# Qwest iQ Networking Service—Make The Move From Frame Relay

## Support Your Critical Business Applications More Effectively

It's not a matter of if - it's *when*. The need for a multi-protocol label switching (MPLS) intelligent network to support the growing use of your mission-critical applications is imperative. Frame relay service has its limitations and will continue to lose ground steadily to MPLS technologies.

## Leave Behind the Limitations of Frame Relay

Frame relay has a proven track record of providing reliable and economical transport. Frame relay has limitations, including:

- Frame relay is limited to DS-0, Fractional DS-1, DS-1 and DS-3 access speeds. Many customers now need greater than DS-1, but less than DS-3 bandwidth and MPLS offers it (e.g., 3.0, 4.5, 6.0 Mbps).
- Many frame relay networks use a hub and spoke configuration, requiring traffic to traverse a single interface twice. With Private Port, the ability to connect sites in a mesh offers more efficient use of existing bandwidth. This becomes critical when converging voice and data networks.
- Frame relay equipment interface costs are higher than equipment interfaces used for a layer 2 (VPLS) and layer 3 (MPLS) VPN. Keeping track of locally administered permanent virtual circuits (PVCs) is no longer required in a VPLS and MPLS virtual private network (VPN) environment.

## Description

Qwest iQ™ Networking Service is a converged networking service based on leading technologies. You can build comprehensive networks using a customizable variety of legacy ATM and Frame Relay protocols, as well as advanced Internet protocol (IP)-centric, multi-protocol label switching (MPLS) and virtual private LAN service (VPLS)-based solutions. Qwest iQ Networking simplifies complex data communications by uniting your mission-critical business applications with our OC-192 application-aware networking environment. Qwest constructs flexible solutions that transcend the underlying technologies, and permit universal access to a converged networking environment. Qwest iQ Networking service is designed around your specific needs, and backed by an industry-leading service level agreement (SLA).

## Advantages of Qwest iQ Networking Service

- Private Port is a reliable private IP VPN.
- Private Port uses layer 2 (VPLS) or layer 3 (MPLS) to create a fully meshed, any-to-any VPN.
- Flexible quality of service (QoS) to meet your increasing demands for IP-based content delivery. QoS includes four queues and four bandwidth allocation options per queue which gives priority to time sensitive applications and allows the convergence of multiple networks into one.

- Converge all your communications onto a single network to increase reliability and reduce your total cost of ownership.
- Reduced complexity.
- Network intelligence rather than premises intelligence.
- Flat-rate and usage-based billing options.
- Disaster recovery built into the network.
- Qwest implements the RFC4364 “BGP/MPLS VPNs” standard which specifies use of multi-protocol border gateway protocol (MP-BGP) for carrying VPN-v4 routing information between private edge (PE) routers for layer 3 VPNs and RFC 4762 - Virtual Private LAN Service (VPLS) Using Label Distribution Protocol (LDP) Signaling for layer 2 VPNs.

### **Why buy from Qwest?**

***Q: Does Qwest provide a flexible, Private Port solution that reaches domestically and internationally?***

**A:** Yes. Qwest offers a MPLS platform that provides private port and Internet port service domestically and internationally. Our customers have the ability to layer features for on-demand intelligence.

***Q: Does Qwest provide a dedicated account team of telecommunications experts with a single point of contact for national and international locations?***

**A:** Qwest provides a dedicated account team of telecommunications experts with a single point of contact for national and international locations.

***Q: Does Qwest offer assistance with the investment associated with transitioning to Private Port services?***

**A:** Yes. Qwest has a transition offer that can provide project management at no charge and up to two months bill suppression with a 38-month term agreement to assist you with the investment in transitioning your service.

***Q: Do I have access to my configurations, performance monitoring, trouble ticket submissions and tracking through a Web-based portal that can be accessed anywhere in the world?***

**A:** Qwest provides the Qwest Control<sup>®</sup> network management platform portal at no additional charge that can be accessed anywhere the Internet is available.

***Q: Do I have the ability to converge network environments by bringing together Layer 2 environments such as Asynchronous Transfer Mode (ATM) and Frame Relay with the latest IP-centric and MPLS technologies?***

**A:** Yes. Qwest gives the flexibility to converge Layer 2 and Layer 3 environments onto one network with one bill.

**Q: Does Qwest offer the ability to combine Layer 2 and Layer 3 networking with a Private Port offering?**

**A:** Yes. Qwest offers the ability to combine Layer 2 and Layer 3 networking with a Private Port offering.

**Q: How does Qwest differ from other carriers when it comes to customer service?**

**A:** Our goal at Qwest is very simple – we want to be your long term communications provider by differentiating ourselves through our *Spirit of Service*<sup>®</sup>.

**Q: Does Qwest continue to invest in future technologies?**

**A:** Yes. Qwest is a pioneer in sophisticated new generations of IP services, and Qwest has consistently remained an area of strategic investment.

***Qwest delivers value-driven performance, price and reliability. Your business will experience bottom-line benefits, maximum communications performance with competitive SLAs, dedicated account support and personal accountability. All supported by Qwest's Spirit of Service in Action***<sup>®</sup>.

**\* Qwest International Private Port solution is layer 3 MPLS.**

Qwest iQ Networking solutions provide a suite of WAN services with domestic and international availability dependent upon locations and services selected. Recurring fees vary based on services ordered. Additional equipment may be required.