

Qwest Smart PVC

Cost-effective Frame Relay and ATM services to reduce IT and administrative costs

Qwest® Smart PVC is a cost-effective, network-based, IP-enabled Frame Relay and ATM service. It gives you all of the tools you need to incorporate business-critical applications into your existing networks. Smart PVC simplifies any-to-any connectivity and allows you to segment and prioritize data traffic, enabling your business to take advantage of bandwidth-intensive applications and expand your virtual enterprise.

With Qwest Smart PVC, you can reduce your IT and administrative costs and realize the advantages of a multi-protocol label switching (MPLS)-enabled IP infrastructure, without the need for a major network upgrade.

Description

Smart PVC is a network-based, IP-enabled Frame Relay and ATM service that gives you an efficient, scalable, high-performance way to incorporate business-critical applications into your existing Frame Relay and ATM service network.

Smart PVC Frame Relay and ATM service expands your connectivity via two capabilities:

- Simple any-to-any connectivity between all your locations is provided via a single permanent virtual circuit (PVC) at each location.
- Quality of service (QoS) to segment and prioritize your data traffic into different QoS classes.

With Smart PVC, you can enjoy the same level of network security as in traditional Layer 2 networks, without a major network upgrade. Smart PVC provides a new class of IP connection from the Qwest Frame Relay or ATM network into the Qwest IP/MPLS network.

Smart PVC creates a fully-meshed, Layer 2 permanent virtual circuit (PVC) network that requires one PVC per location. With traditional Frame Relay and ATM service, multiple PVCs are required for a fully-meshed network ($N \times (N-1) / 2$ PVCs). New locations can be added without changing configurations or customer premises equipment (CPE) at any of the other locations.

You purchase your desired peak bandwidth rate (PBR), and select either Priority Smart PVC or Best Effort Smart PVC. With Priority Smart PVC, you can segment the traffic into four QoS classes, ensuring that time-sensitive and mission-critical applications get proper prioritization in the network.

Features

- Easily incorporated into an existing Qwest Frame Relay or ATM network
- Any-to-any connectivity and point-to-point connectivity between customer sites supported on a single customer access link and port
- Flexible QoS functionality
- Data privacy within a private network
- Aggressive pricing
- Automatic rerouting in the event of a failure
- ATM bandwidth available from 8 Kbps to 622 Mbps
- Frame Relay bandwidth available from 8 Kbps to 45 Mbps
- Web-based customer tools
 - Qwest Control® for instant access to statistics, alarms management and configurations

Benefits

- Savings through reduced equipment and IT/administrative support costs
- Any-to-any connectivity via a single Smart PVC
- Seamless internetworking between Frame Relay and ATM
- Coexists with standard/traditional (Frame Relay Forum- and ATM Forum-defined) PVCs on the same access link and port
- Use your existing private or public IP addresses
- Capability for time-sensitive applications, through QoS, that can segment and prioritize traffic based on your business needs (Priority Smart PVC)
- Guaranteed performance through comprehensive service level agreements (SLAs)
- Transition from a fully meshed network to an IP enabled network

How it works

Smart PVC, an IP-enabled Frame Relay/ATM service, deploys advanced IP routing technology based on MPLS that integrates the capabilities of Layer 3 routing and Layer 2 switching. The packet routing across the network is based on the examination of the destination IP addresses of IP packets that are carried inside the payload of the Frame Relay frames or ATM cells. MPLS tags are used to maintain security and isolation across the IP network. With "IP routing" functionality, you receive direct any-to-any network connectivity without implementing switched virtual circuits (SVCs) or building a fully-meshed Layer 3 PVC-based network. The Smart PVC retains a Frame Relay/ATM user interface so you can keep your current routers.

Smart PVC creates a virtual, fully-meshed Layer 3 PVC network without requiring $N \times (N-1) / 2$ PVCs resolving the traditional Layer 2 scalability issues. Smart PVC requires only one PVC per location, and new locations can be added without changing configurations or CPE at any of the other locations.

Why buy from Qwest?

- Qwest has the industry's most scalable support infrastructure.
- Qwest support systems and architecture use a state-of-the-art set of tools and technology enabling Qwest to provide a competitive and enhanced service.
- The integration of Qwest Smart PVC with Qwest IP data solutions provides an innovative service capability to the marketplace.
- Qwest Smart PVC provides an efficient network service that eliminates complex "layered" network solutions and delivers value-added services.

Other products available from Qwest

In addition to Qwest Smart PVC, Qwest has an array of products to meet your networking needs, including:

- Qwest iQ Networking®
- Data CPE solutions
- Qwest Integrated Management
- Qwest Private Line
- Qwest OneFlex® VoIP

Qwest® Domestic ATM service is directly connected to the Qwest® fiber network in the United States. Qwest can also provide ATM service in over 30 countries worldwide. Service may require CPE purchase and minimum term of commitment.

Qwest Communications Corporation Domestic Frame Relay Service is directly connected to the Qwest® fiber network in the United States. Qwest can also provide Frame Relay Service internationally in over 60 countries worldwide. Service may require CPE purchase and minimum term of commitment.