

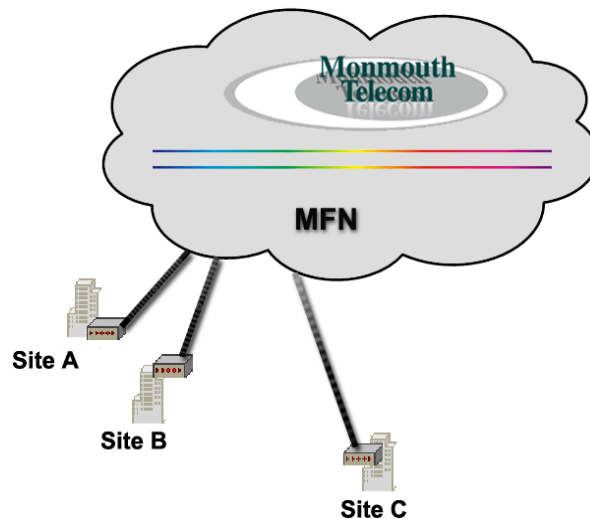


Full Service  
Telephony & Internet

## Multi-location Dynamic IVAD

**Multi-location Dynamic IVAD uses MPLS (Multi-Protocol Label Switching) Technology to enable secure interconnection for Voice, Private Data and Internet among multiple customer locations.**

### Virtual Connectivity



### Monmouth Customer Site-to-Site MPLS VPN

Multi-Protocol Label Switching (MPLS) is the fastest growing wide area networking (WAN) technology and is widely used by leading carriers around the world. That's because it provides the performance and privacy of legacy WAN technologies, like frame relay, combined with the flexibility and cost advantages of packet-based IP networks, like the Internet. So, if you're looking to augment or replace your legacy WAN with one that can support new applications and deliver more value, you should consider an MPLS private network.

Monmouth MPLS Private Network service delivers the premium performance and privacy that are essential for any mission-critical enterprise network, with greater flexibility and savings than any service in its class. Dynamic IVAD from Monmouth Telecom allows us to offer the 'best fit' and lowest cost connectivity for each site. By leveraging the enhanced performance and QoS (Quality of Service) functionality of our MPLS network, we can tailor a solution to handle all of your IP data and voice communications requirements.

## Network Performance Starts In The Core

As with any WAN solution, the strength of Monmouth Telecom MPLS Private Network service starts with the underlying core network - and, Monmouth Telecom all-digital MPLS network is engineered to out-perform all others. **Redundant OCx links and a fault tolerant POP architecture ensure maximum uptime and reliability, and state-of-the-art MPLS routing technology delivers your data with exceptionally low latency and packet loss.** This advanced technology enables your data to traverse the entire network in a single "hop," eliminating the performance degradation and loss associated with memory-intensive routing decisions. MPLS routing also creates fully meshed network architecture with multiple paths between any two sites (versus a hub-and-spoke topology) and automatically forwards your data via the optimal path. So, your traffic gets delivered fast, without any bottlenecks or single points of failure.

## Monmouth Telecom Quality of Service (QoS)

If you rely on critical software applications to conduct business, how can you prevent non-critical applications from consuming all of your bandwidth? The answer isn't spending more money on bandwidth -- it's gaining more control over your bandwidth. With Monmouth Telecom Quality of Service (QoS), we prioritize your network traffic to prevent vital applications, such as Voice over IP (VoIP) and credit card processing, from failing due to network congestion and spikes in utilization.

### Designed for Your Network, Managed for Your Convenience

To overcome these network challenges and maximize your productivity, Monmouth Telecom uses a technical discovery process to determine which applications are the most important and how to classify your network's bandwidth usage. Routers are configured at both ends of each access circuit to detect, mark and prioritize the different network flows (only for on-net circuits). By deploying a managed CPE, Monmouth Telecom enables QoS on "on-net" and "off-net" circuits. Through the Monmouth Telecom QoS functionality of our **all-optical** MPLS network, traffic is prioritized. On-net circuits prioritize traffic bi-directionally between the CPE and the Monmouth telecom network, while off-net circuits prioritize upstream traffic to mitigate issues associated with uplink congestion.

- Enables the prioritization of business-critical applications
- Gives you control over how your bandwidth is used
- Ensures consistent, interruption-free network performance
- Prevents critical applications from failing due to network congestion

## Convergence Creates Value

In addition to the performance benefits, our MPLS routing technology also enables Monmouth Telecom to create separate label switched paths reserved for performance sensitive applications, like Voice Over IP (VoIP). By prioritizing different types of traffic on your customer premise routers and across our MPLS network, we can engineer a solution to converge all of your applications without compromising performance. This means you no longer have to incur the costs of deploying and managing separate networks for each application - all of your voice and data communications share a single, cost-effective WAN infrastructure.

### Simple, Easy and Fully Managed

Since Monmouth Telecom MPLS Private Network service is a managed network-based solution, you don't have to hassle with encryption devices and complex routing schemes that make a Do-It-Yourself

VPN so complicated and time-consuming. We take care of everything from initial design and deployment to 24/7 monitoring and customer support. Our skilled engineers and field technicians will configure your CPE, install it at your locations, provision all necessary circuits and ensure that your entire MPLS network is implemented correctly and on time. Once your service is up and running, our NOC technicians will proactively monitor your MPLS connections and CPE, so if there's ever an issue they can diagnose and resolve it quickly to minimize any service impact. We'll even repair or replace any non-operational CPE on-site, as a part of our Managed CPE service. And, to demonstrate our commitment, we guarantee the performance of our MPLS Private Network service with a comprehensive set of end-to-end Service Level Agreements (SLAs).

## **Benefits**

Monmouth Telecom MPLS Site-to-Site VPN Network service delivers an unmatched combination of performance, privacy and flexibility that make it the best solution for augmenting or replacing your legacy frame relay or ATM WAN.

**Privacy** – MPLS routing technology provides network privacy comparable to frame relay or ATM. By using only private IP address space and private routing domains, Monmouth Telecom can ensure that your mission critical traffic is segregated from any other enterprise or public Internet traffic.

**Performance** – Monmouth Telecom all-optical MPLS network uses labeled switched paths instead of traditional IP routing, so customer traffic traverses the network with minimal delay and packet loss. This is ideal for customers with performance-sensitive applications, such as VoIP and video conferencing.

**Flexibility** – Monmouth Telecom Dynamic IVAD allows us to tailor a solution that best fits each site's specific bandwidth and redundancy requirements. We can also seamlessly integrate other site-to-site and remote access VPN and security services to tailor a solution that addresses all of your communication requirements.