

MPLS VPN Configuration Overview

MPLS VPNs are very secure – The equivalent of having a point-to-point leased line or a frame relay circuit.

- 100% of the traffic stays within the private network, never exposed to Internet-based issues such as attacks, delays, and packet loss
- Private address space is supported- No pingable public addresses
- Label switching is similar to having a dedicated end-to-end PVC within a carrier's network.

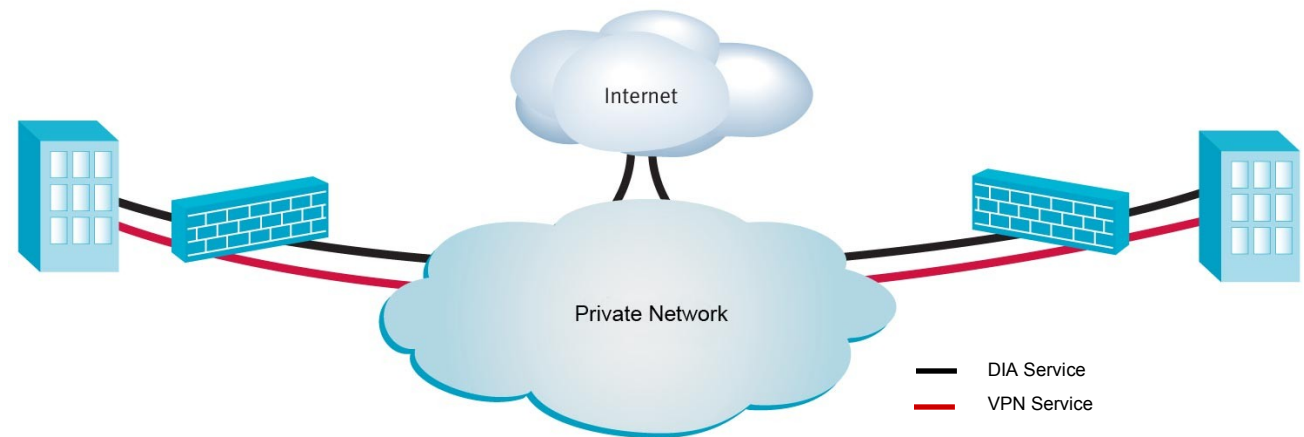
Available Configurations:

- Site to Site, site-to-multisite, multisite to multisite
- DIA (Dedicated Internet Access) option at each site

VPN AND DIA SERVICES PER SITE.

In the example shown in Figure 1, each office has a VPN connection and a dedicated Internet access (DIA) connection (four physical circuits). Each location has independent DIA and VPN service. This type of business may have a branch office that uploads and downloads large files (e.g., architectural drawings) to clients directly.

FIGURE 1. VPN AND DIA PER SITE



SHARING INTERNET CONNECTION BETWEEN SITES.

In the example shown in Figure 2, the main office location has both a VPN connection and a DIA connection. The branch office has a VPN connection but does not have Internet access. Customer needs to configure a local area network (LAN) to inter-connect the VPN and DIA customer premises equipment (CPE).

FIGURE 2. MULTIPLE VPN CONNECTIONS SHARING ONE INTERNET CONNECTION

