



Cisco: Virtual Private Networks (VPN)

VPNs Connect Offices, Users, and Partners

Overview

With SSL and IPsec virtual private networks (VPNs), businesses can securely connect remote offices and remote users using cost-effective, third-party Internet access.

VPNs provide the highest possible level of security through encryption and authentication technologies that protect data traversing the VPN from unauthorized access.

Organizations can take advantage of the easy-to-provision Internet infrastructure to quickly add new sites or users, dramatically increasing the reach of their networks without significantly expanding infrastructure.

SSL and IPsec VPNs have become the primary solution for connecting remote offices, remote users, and business partners, because they:

- » Provide secure communications with access rights tailored to individual users
- » Enhance productivity by extending corporate network and applications
- » Reduce communications costs while increasing flexibility

Types of encrypted VPNs

Site-to-Site IPsec VPN

This alternative to frame relay or leased-line WANs allows businesses to extend network resources to branch offices, home offices, and business partner sites.

Deliver reliable transport for complex mission-critical traffic, such as voice and client-server applications, without compromising communications quality. Cisco's site-to-site VPN solutions integrate advanced network intelligence and routing for network designs ranging from traditional hub-and-spoke to "any-to-any" intersite connectivity. They also help streamline provisioning and minimize ongoing operational tasks.

Integrated network features such as routing, QoS, and multicast support deliver any traffic type, including latency-sensitive voice/video and terminal services, while preserving transport reliability and quality over Internet-based VPNs.

- » **IPsec VPN** - This popular site-to-site VPN solution for connecting remote locations to headquarters provides advanced encryption to secure information in transit and is the premier solution for permanent VPN connections.
- » **Easy VPN** - This cost-effective solution is ideal for remote offices with little IT support or large CPE deployments where it is impractical to individually configure multiple remote devices.
- » **Dynamic Multipoint VPN** - When branch locations want to communicate directly with each other over the public WAN or Internet, Dynamic Multipoint VPN is the optimal solution.
- » **Group Encrypted Transport VPN** - When your enterprise has a private WAN network, and remote locations need to communicate with each other directly, Group Encrypted Transport VPN (GET VPN) provides optimum bandwidth efficiency while securing communications.

Remote Access VPN

This type of VPN extends almost any data, voice, or video application to the remote desktop, emulating the main office desktop.

The Secure Remote Access solution gives IT administrators a single point of control to assign granular access based on both user and device. It provides both full and controlled client-based network access to web-based applications and network resources for a highly secure, flexible remote access deployment.

Benefits include:

- » Web-based access without preinstalled desktop software:
 - » Facilitates customized remote access based on user and security requirements
 - » Reduces desktop support costs
- » Threat-protected VPN access:
 - » Protects against viruses, worms, spyware, and hackers by integrating network and endpoint security in the Cisco Secure Sockets Layer (SSL) VPN platform
 - » Eliminates the need for additional security equipment and management infrastructure
- » Simple, flexible, cost-effective licensing:
 - » Requires a single license; no per-feature licenses to purchase or manage
 - » Starts with 10 users and scales as your needs change
- » Multiple VPN support from a single platform:
 - » Supports both IP Security (IPSec) and SSL connectivity
 - » Supports unified management of remote access and site-to-site VPN services to help reduce costs and management complexity

For more information about Cisco VPN, please contact your sales representative.



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