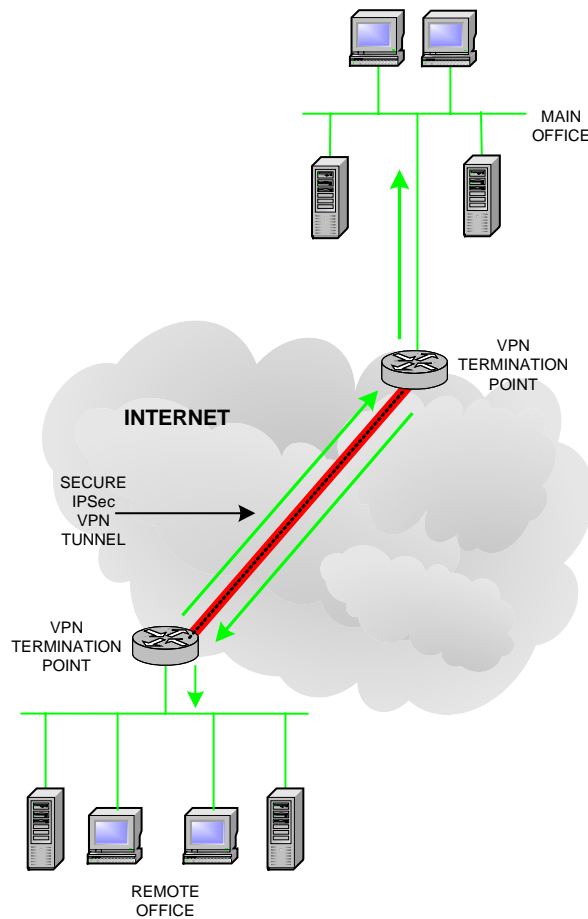


## ONDOSECUREVPN MANAGED VPN SERVICES OVERVIEW



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## **ONDOSECUREVPN SUMMARY**

This solution is designed to connect remote routers to a central location via an IPSec VPN tunnel.

Features of this solution include:

- NAT
- VPN Session Authentication
- IPSec (IP Security) Data Encryption

In this solution, private IP addresses are not reachable from the Internet and can be statically assigned to servers such as a file server, E-mail server, etc.

By implementing NAT (Network Address Translation), hosts behind the routers that have been assigned non-routable private IP addresses can connect anywhere on the Internet simultaneously. Security is achieved easily because none of the internal hosts with private IP addresses can be reached via the Internet without specifically mapping private IP addresses/port[s] to a public IP address or addresses/port[s].

IPSec is used to establish a secure end-to-end VPN tunnel between two endpoints (in the previous diagram, the branch office and the remote site). In this solution, the remote office router sends all of its outgoing traffic to the branch office after establishing a secure VPN tunnel. The router at the branch office then uses

the information in the destination field of the packet to determine whether it should be forwarded to its Ethernet segment or to its default gateway. Once the decision is made, Internet traffic is routed towards the Internet and internal traffic is routed to the Ethernet segment behind the router.

IPSec is a key technology component in the Standard IPSec VPN solution, as well as the next two solutions in this document. Customers who use IPSec will be able to secure their network infrastructure without costly changes to every computer. Customers who deploy IPSec in their network applications gain privacy, integrity, and authenticity controls without affecting individual users or applications. Application modifications are not required, so there is no need to deploy and coordinate security on a per-application, per-computer basis. This scenario provides great cost savings because only the infrastructure needs to be changed.

IPSec provides an excellent remote user solution. Remote workers will be able to use an IPSec client on their home PCs or laptops to connect back to the enterprise network. The cost of remote access is decreased dramatically, and the security of the connection actually improves over that of dialup lines.

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