

Introduction

Stealth Networks is a pioneering developer and provider of next generation VPN (Virtual Private Network) and network security solutions. Built with a "security first" philosophy, our integrated solutions provide customers with VPN, firewall, and IPS (Intrusion Prevention System) capabilities far superior to the current industry leaders at a fraction of their cost.

Stealth Networks provides 'easy-to deploy' software and hardware VPN products as well as "fully-managed" VPN and critical network security services.

The Need

The information revolution has dramatically changed the way the government operates. Under ever increasing pressure to "do more" with fewer people and smaller budgets, federal, state and local government agencies have moved critical processes to networked computers. The increased use of networked systems allows these government agencies to effectively share information with geographically distributed program partners such as manufacturing contractors, design facilities and field test labs. New technologies like videoconferencing and VoIP can greatly enhance the quality of information shared and drastically reduce issue resolution lead times.

However, recent geo-political events have compelled federal, state and local government agencies to re-evaluate their network communications security. Unauthorized intrusions and attacks on government networks can have serious consequences such as disrupting critical operations, loss of productivity, intellectual property theft or even loss of life.

Such security can be obtained via private networks - however these are uneconomical and offer a severe bandwidth restriction especially between the continents. Current IPsec based VPN solutions use the Internet somewhat reducing the bandwidth limitation but have exploitable security vulnerabilities. These solutions also impose significant network performance penalties such as high network latency and low bandwidth utilization.

To realize the full benefit of remote voice, video and data communications, government agencies require an Internet based highly secure data transfer solution that can optimally transport large quantities of data with minimum setup and management.

Why Stealth Networks?

Stealth Networks' Secure VPN solution enables government agencies to migrate highly confidential and sensitive voice, video and data communications such as secure teleconferencing, videoconferencing and large file transfers from private networks to the Internet. With minimal setup requirements and mobile functionality, the Secure VPN solution outperforms the competition in high volume and streaming data transfer environments. Our customers can achieve higher bandwidth utilization, lower latency at a low TCO through the following features of our secure remote data transfer solution:

Best-in Class Security

- AES 256 encrypted VPN with keys rotated every 60 seconds - the strongest encryption legally available
- No external visibility to your private network - invisible hence impenetrable
- Advanced firewall features that restrict buffer overflows, TCP collisions and data leaks
- Powerful Stateful Packet Inspection (SPI), DoS protection and complete IP NATing
- IPS "deny all" approach that blocks all malicious traffic through dynamic rule set loading
- TLS / SSL supported certificate based authentication with PKI compatibility

Enhanced Productivity and Cost savings

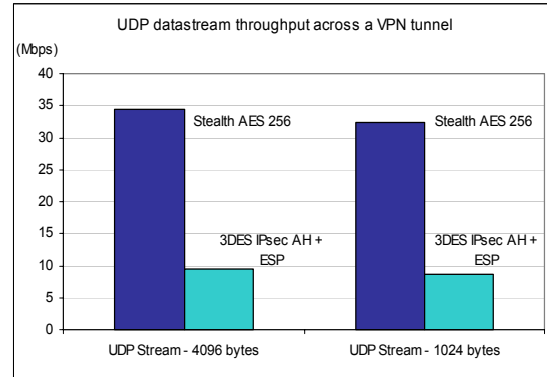
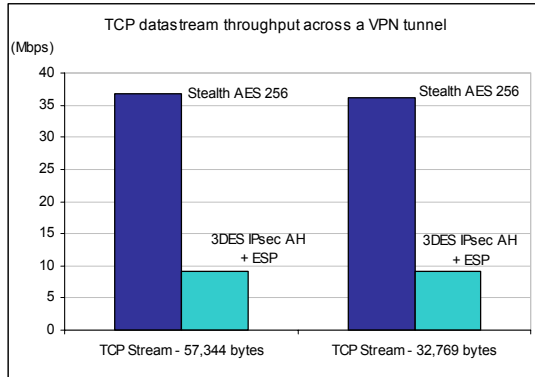
- Plug-and-play deployment, seamless integration with existing network infrastructure
- User-friendly, flexible and powerful administrator tools
- Reliable and scalable open standard hardware - reduced equipment costs
- End-user transparent, centralized configuration and upgrade management - reduced support costs – lower TCO

Superior Performance & Control

- 3-4X more encrypted data throughput at higher encryption levels (refer graphs below)

Stealth Networks

- Granular access management and control
- Fine-grained auditing and logging
- Multi-homing, active failover and clustering capabilities



Stealth Secure VPN Architecture

Stealth Networks' VPN solution can be deployed in site-to-site, remote access or a hybrid model. Site-to-site VPNs require Stealth Secure Gateways at each location while mobile secure access is enabled through a Stealth Software VPN client.

Stealth Networks' Secure VPN can be deployed in either of the two architectures described below. If required, a hybrid architecture in-between these two extremes can also be deployed.

- Hub and Spoke topology with "force-all tunnel" configuration - In this scenario all traffic from remote sites is forced into the VPN tunnel to the host / main site. Access between any two remote sites as well as Internet access for all sites is routed through the host site.
- Full Mesh topology with "split tunnel" configuration - In this scenario all sites can communicate with each other directly without going to the host / main site. Independent Internet access is also provided for each site.

Stealth Networks Secure VPN Architecture

