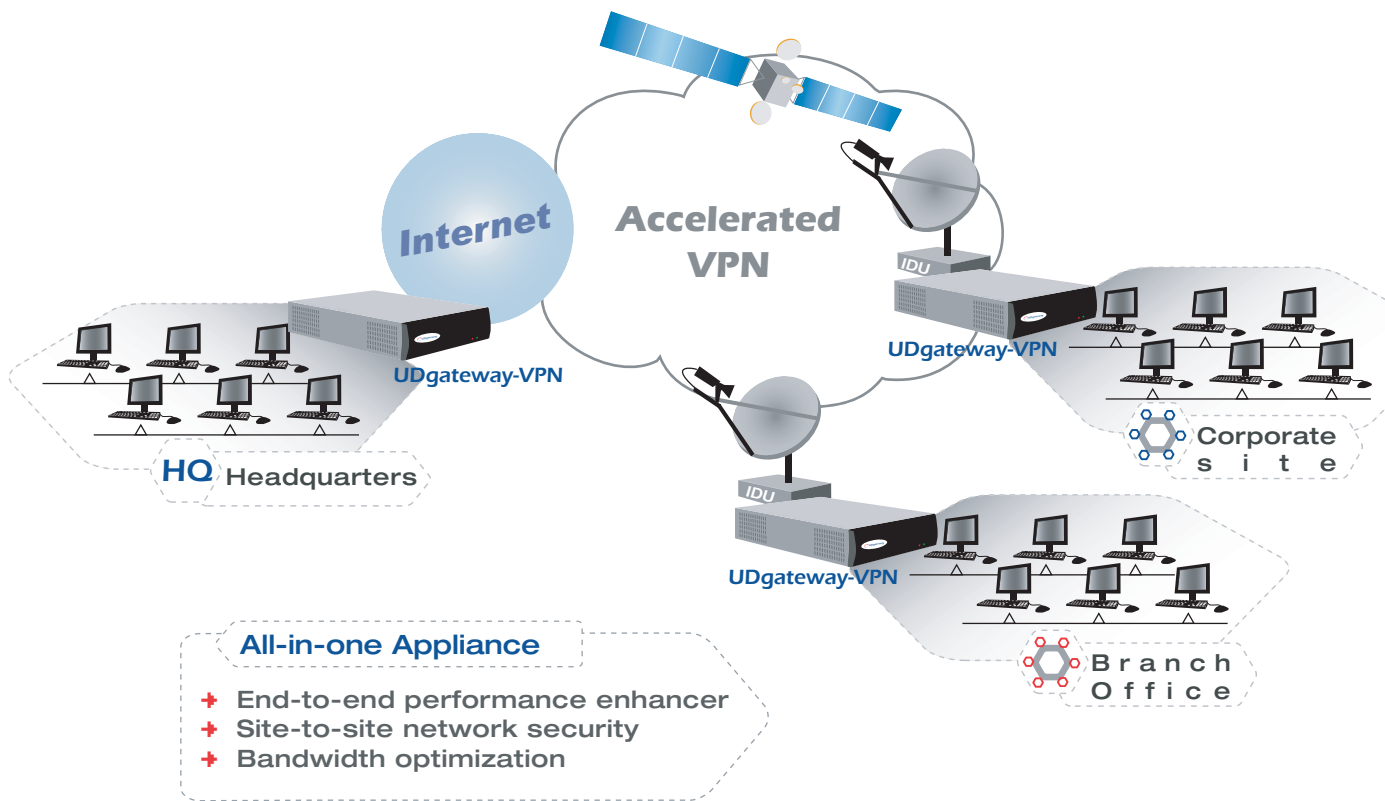


UDgateway-VPN

Enhanced VPN Appliance

- + Satellite based or hybrid VPN
- + Enterprise WAN foundation
- + Seamless integration



All-in-one Appliance

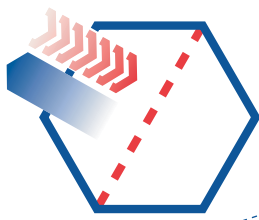
- + End-to-end performance enhancer
- + Site-to-site network security
- + Bandwidth optimization

01 Description

The **UDgateway®-VPN** is the first all-in-one appliance specifically adapted for a broadband satellite-based VPN - Virtual Private Network. All key IP features such as routing and QoS, security and tunneling, compression and caching are embedded in the appliance along with performance enhancement technology. UDcast's best-of-breed core technology provides an enhanced end-user experience, based on two-way TCP acceleration, QoS-based traffic differentiation, HTTP pre-fetching, as well as web and DNS caching.

The VPN can be created over a satellite only infrastructure or over a mix of two-way satellite with terrestrial backhaul. The satellite and/or terrestrial site connections can be based on any IP access service such as basic Internet access. Site to site communication is kept private throughout using strong IP traffic encryption. UDcast's unique technology enhances upload and download performances, by compressing IP traffic and accelerating TCP-based applications end-to-end.

The **UDgateway®-VPN** appliance functions with any two-way satellite system. When located on a satellite-based access, it sits between the indoor unit and the local area network, and handles all VPN access traffic coming from the corporate site. When located on a terrestrial based central site, the **UDgateway®-VPN** is integrated in any location near the Internet access, generally in a DMZ - De-Militarised Zone. Designed to be easily installed, configuration is done via a web-based interface. A wizard automates the setup process, requiring the input of just a few parameters.



UDgateway-VPN

02 Features / Benefits

- + **End-to-end performance enhancement**
 - . Delivers true broadband quality, to guarantee customer satisfaction
 - . Accelerates TCP both ways whilst encrypted end-to-end
- + **Site-to-site security**
 - . End-to-end IP traffic strong encryption
 - . Full Internet access protection for the entire VPN
- + **Bandwidth optimization**
 - . Bandwidth saving through compression and caching
 - . QoS-based traffic differentiation
- + **Two-way systems adaptation**
 - . Bandwidth usage control
 - . Return path optimization

03 Enhanced end-user experience

- + **Two-way TCP acceleration**
 - . Reduced data upload and download times
 - . Full utilization of valuable bandwidth capacity
- + **HTTP Pre-fetching**
 - . Parallel downloads of all embedded frames/objects for each web page
 - . Instantaneous web page display
- + **Caching**
 - . Get once, local reuse of frequently accessed web pages
 - . Single DNS name for address resolution, to be then shared locally
- + **Mail relay**
 - . Immediate user mail delivery to local SMTP relay
 - . Background mail forwarding on return link

04 Specifications

- + **IP features**
 - . NAT with port forwarding
 - . Kernel based stateful inspection firewall
 - . Two-way TCP accelerator
 - . IP compression
 - . HTTP pre-fetching
 - . HTTP and DNS cache
 - . SMTP mail relay
 - . DHCP proxy or server
 - . QoS: weighted fair queuing - DiffServ compliant
 - . Multicast forwarding
- + **VPN features**
 - . IPsec - ESP tunnel mode
 - . AES 128 bits or 3DES media encryption
 - . Optional: meshed topology
 - . Split tunneling (VPN with direct Internet access)
 - . NAT Traversal
 - . IP compression within tunnels
- + **Network interfaces**
 - . 2 Ethernet 10/100 BaseT (1 for LAN switch and 1 for two-way IDU or DMZ LAN)

- + **Administration features**
 - . Secured web-based management
 - . Save/restore configuration
 - . Setup wizard with auto configuration
 - . SNMP/MIB support
 - . Tunnel and traffic monitoring
 - . Diagnostic tools

- + **Hardware Specification**
 - . 3rd generation Intel® Processor
 - . Hard Disk: 40 GB
 - . Memory: 256 MB
 - . Power supply: 100-127/200-240 VAC
 - . Weight: 14.3 lbs (6.5 kg)
 - . Dimensions: 3.43" (H) x 12.2" (L) x 14.4" (W)
87 mm x 310 mm x 365 mm
 - Optional: Rack-mountable hardware

- + **Operating environment**
 - . Temperature: +10°C to 40°C
 - . Humidity: 10 to 80%
 - . Atmosphere: 20-95%
 - . Safety: FCC, UL, CUL, BSMI, CB, NEMKO, TUV, CCC
 - . MTBF: 40.000 h at 25°C