

Vigor3300 Series

Enterprise Multiservice Security Router

The Vigor 3300 series of routers deliver enterprise-level security router services for small and medium sized companies. These products combine Virtual Private Network (VPN) enhancement with robust firewall, web content filtering, bandwidth guarantee, management and secure administration capabilities to meet the increasing reliable, security demand for broadband business services.

The enterprise-level security router provides further IPSec VPN to achieve the objectives of high scalable, confidential e-business, branch office interconnection and remote access applications. By using hardware-based accelerator of DES/3DES/AES/HMAC-SHA-1/HMAC-MD5 encryption, Vigor 3300 series of routers support low latency and high performance IPSec VPN for business application.

Robust firewall features provide rich security services including stateful packet inspection, access control, packet filtering, securing against intruders/attackers and Denial-of-Service (DoS). Integrated content filtering function can block inappropriate web contents for child protection at home or on campus, as well as monitor and avoid prohibited web contents for employees.

The Vigor3300V provide optional 4/8-port integrated VoIP module to connect to PBX or phone to minimize the voice operation cost. It provides similar voice quality, reliability as the traditional telephone service and security conversion to business users.

The QoS(Quality-of-Service) function provide better services for selected network traffic over various technologies. The primary goal of QoS is to provide priority including dedicated bandwidth, controlled jitter and latency, and improve packet-loss characteristics. At the same time, these products ensure that providing priority for one or more flows does not make other flows fail.

The load balancing and high availability applications improve the network performance, scalability, reliability in Internet network and infrastructure utilization.

The SNMP-based of Element Management System (EMS) is the management software offers an easy way to remotely set up configurations, update system status, display alarm events, monitor system behaviors, perform diagnostics and download firmware and email attacking alert. For installation, status monitor, and management of Vigor 3300 series of routers, it will be easily accomplished through a built-in Web user interface or Telnet command line interface.

Benefits

- ◆ Robust firewall for securing against intruders/attackers and Denial-of-Service (DoS).
- ◆ High performance hardware-based VPN device for small and medium level business companies.
- ◆ DHCP over VPN IPSec.
- ◆ Remote secure access VPN for supporting e-commerce, mobile user, and telecommuting applications.
- ◆ Web content filtering to block inappropriate or non-productive contents.
- ◆ Bandwidth-guaranteed for VoIP and online game applications as well as critical business networking-zone.
- ◆ 3(3300B+)/4(3300/3300V) WAN interfaces for load sharing and load balancing.
- ◆ Configurable DMZ (De-Militarized Zone) ports for isolated security zones.
- ◆ Easy installation, configuration, and management through user-friendly WEB interface.
- ◆ QoS function provides the best service for accessing traffics in Internet.
- ◆ Load Balancing solution ensures high availability for network and applications.
- ◆ EMS management for configuration management, deployment management, topology management, security management, fault management and back-end storage management.
- ◆ High availability provides a non-stop and reliability network access devices.
- ◆ Fail-over provides a backup service for users to Internet.

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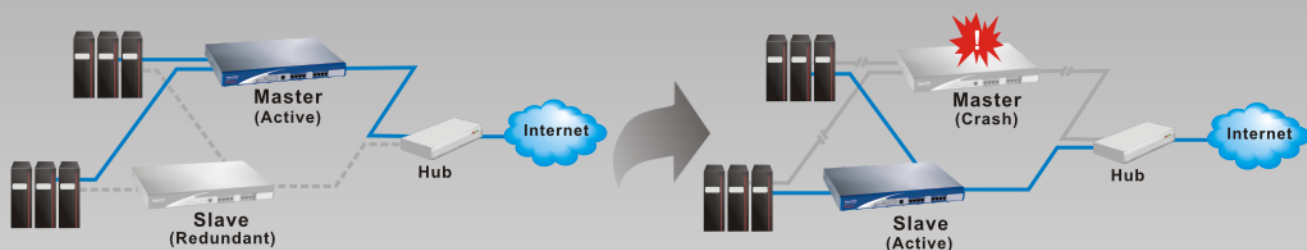


Vigor3300 Series

Application

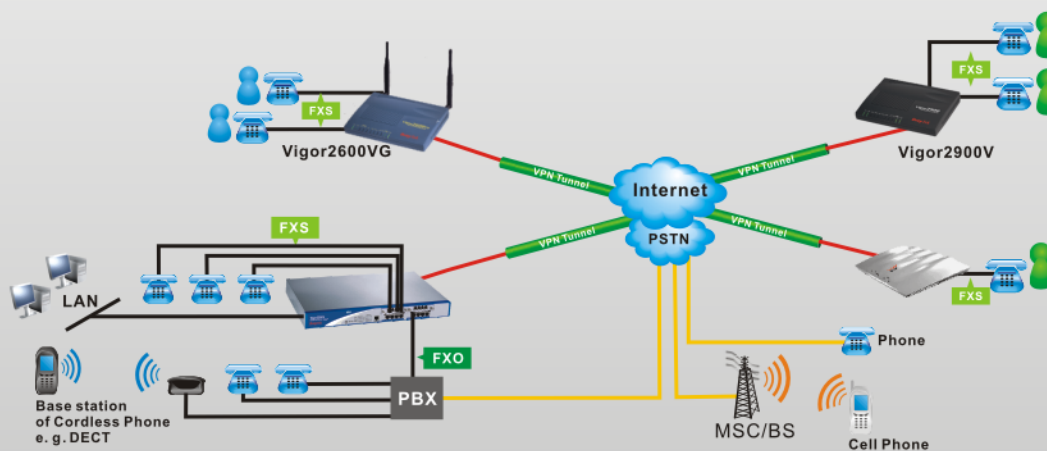
High Availability

This feature provides a non-stop and reliability network access devices. The cluster system contains two same Vigor3300s. If the master is failure, the slave will take over the master's job.



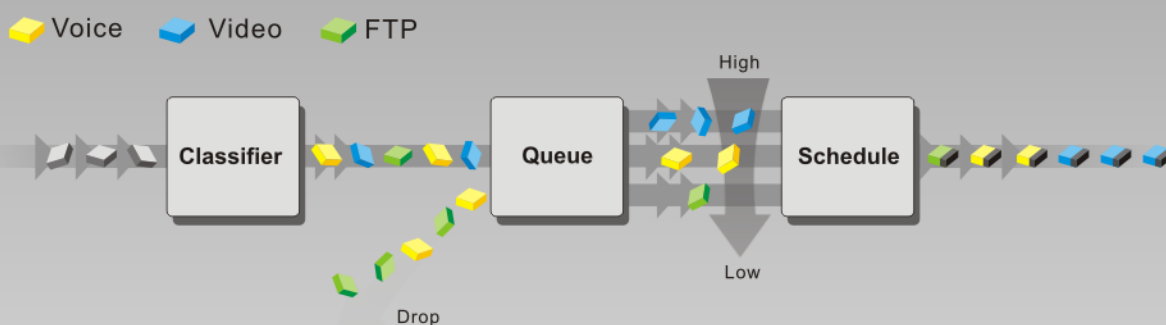
Modulized VoIP Slots

The Vigor3300V provide two VoIP Slots, and you can choose FXO or FXS module flexibly. SIP and MGCP VoIP protocols are available. The VoIP quality is guaranteed by QoS feature. It's easy to integrate to your PBX system and save your telephone fee.



QoS

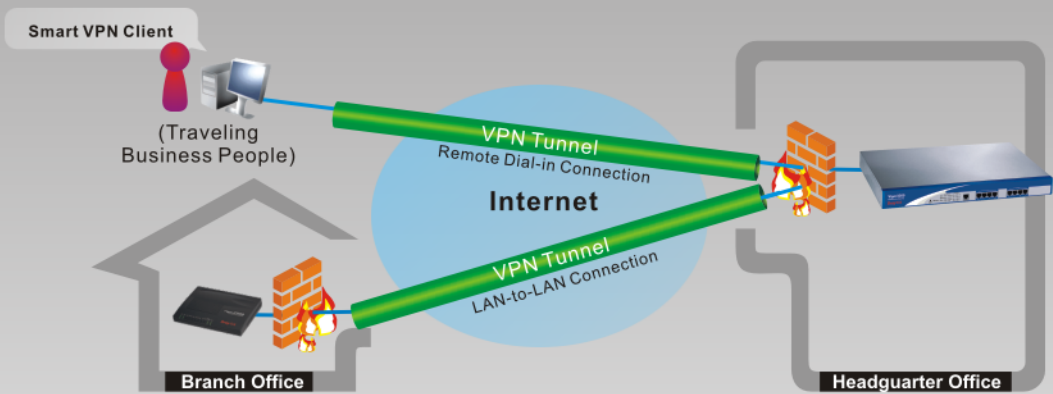
This feature allows the network administrator to monitor, analyze, and allocate bandwidth for various types of network traffic in real-time and/or for business-critical traffic.



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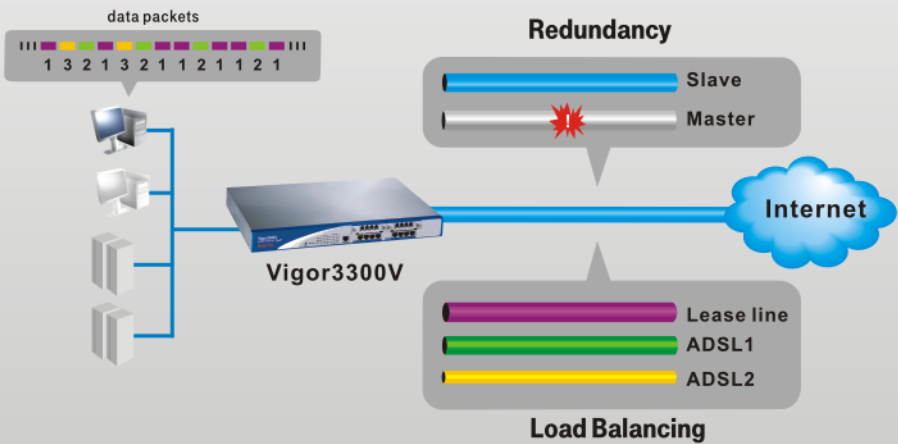
Robust VPN

It supports 200 IPSec VPN tunnels simultaneously. Hardware-base DES/3DES/AES / HMAC-SHA-1/ HMAC-MD5 encryption provide high performance VPN connections. It can put on the central office and co-work with other Vigor CPE routers in the branch offices



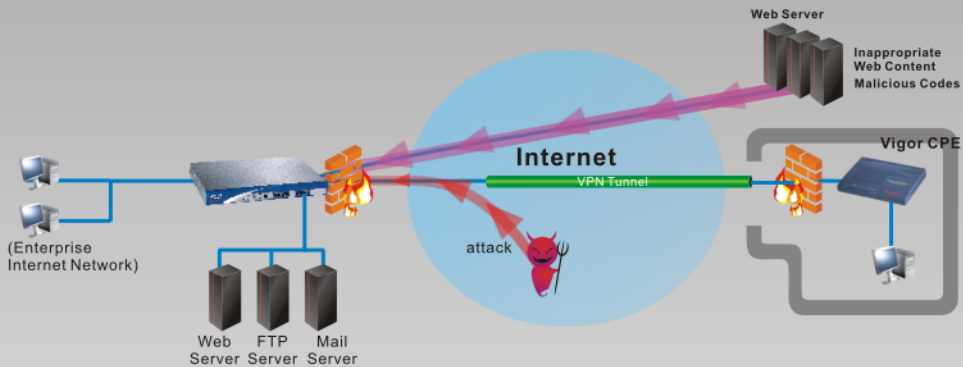
Load Balancing & Redundancy

Users can choose "Load Balancing" or "Redundancy" for a reliable Internet access. The bandwidth can be increased and traffics can be shared by multi-WAN connections in the Load Balancing feature. Redundancy provides a back-up using for users to Internet. When the Master WAN failed, the Slave WAN would take over Master immediately.



Firewall Security

The default security policy within a firewall appliance is preventing outside parties (hacker or intruder) from accessing internal LAN resources. Vigor 3300 series of routers provide such a protection in a network environment. It also support technologies of stateful packet inspection, access control, packet filtering, securing against intruders/attackers and Denial-of-Service (DoS) to provide rich security services. All packets passing through the firewall are analyzed against the state of these trusted connections to determine if they are allowed to pass through or denied.





Technical Specification

		Vigor3300B+	Vigor3300	Vigor3300V
Interface	LAN (4-port 10/100 Base-TX switch)	V	V	V
	WAN/DMZ	3 ports	4 ports	4 ports
	Console	V	V	V
	VoIP Slot	-	-	2
Network Features	NAT Capability (DMZ / Port Redirection / Open Ports)	V	V	V
	Multi-NAT	V	V	V
	DHCP Server	V	V	V
	DDNS Client	V	V	V
	Call Scheduling for PPPoE/PPTP	V	V	V
	RADIUS Client Authentication for PPTP Remote Dial-in	V	V	V
	LAN-Port Mirroring	V	V	V
	DHCP Server - Relay Agent	V	V	V
	Port-based VLAN	V	V	V
	WAN-Port Mirroring	*	*	*
	Tag-based VLAN (802.1q)	-	*	*
Firewall	Physical DMZ	*	*	*
	Access Control	V	V	V
	Packet Filtering	V	V	V
	Denial of Service Prevention	V	V	V
VPN	Stateful Packet Inspection for TCP	V	V	V
	Stateful Packet Inspection for FTP	V	V	V
	IPSec VPN Tunnels	-	200	200
	Hardware-based DES/3DES/AES / HMAC-SHA-1/HMAC-MD5 Encryption	-	V	V
	PPTP for Remote Access and Control	-	V	V
	IPSec Authentication (MD5 and SHA-1)	-	V	V
	IKE/Pre-shared Key (PSK) Management	-	V	V
	LAN-to-LAN VPN	-	V	V
	VPN Pass-Through (IPSec)	V	V	V
	VPN Pass-Through (PPTP)	V	V	V
Content Filtering	PKI (X.509), CA	-	V	V
	DHCP over IPSec	-	V	V
	URL Blocking with Exception Handling	V	V	V
	Java/ActiveX/Cookies/Zip/EXE Blocking	V	V	V
	Content Blocking by User-defined Keywords	V	V	V
	Filtering based on URL Access List, Keywords, or Time of Day	V	V	V
System Management	Content Portal Authority - Surf Control	V	V	V
	Web User Interface	V	V	V
	Command Line Interface (Telnet)	V	V	V
	Command Line Interface (Console)	V	V	V
	Remote Firmware Upgrade	V	V	V
	Syslog for Logging and Monitoring	V	V	V
	SNMP- Basic MIBs	V	V	V
	SNMP- VoIP	-	-	V
	Configuration File Encryption	*	*	*
	Attack Alert by Email	*	*	*
VigorCMS	SNMP Agent - Firewall, VPN, Alarm	*	*	*
	Basic Configuration	*	*	*
	Performance Monitoring	*	*	*
	Topology	*	*	*
	Security	*	*	*
	Log	*	*	*
	Alarm	*	*	*
	Polling	*	*	*
	VPN/Firewall Configuration	*	*	*
	VoIP Configuration	*	*	*
Load Balance	Alarm for VPN/Firewall	*	*	*
	Redundancy	V	V	V
	By PC Clients	V	V	V
	By WAN Interfaces Traffic Volume	V	V	V
	By Destination IP Address Range	V	V	V
	By Fixed VPN Connection	-	V	V
	By Fixed VoIP Packets	-	-	V
QoS	Robust Detection Mechanism	V	V	V
	Incoming/Outgoing Bandwidth Guaranteed	V	V	V
	Service/Protocol Classification	V	V	V
VoIP	Eight Priority Queues for Classes	V	V	V
	FXS	-	-	(4/8)
	FXO	-	-	(4/8)
	MGCP	-	-	V
	SIP	-	-	V
	Codec G.711, 729A, 723.1, G.726	-	-	V
	VAD(Silence Suppression) & CNG	-	-	V
	G.168-2000 Echo Canceller, Jitter Buffer	-	-	V
	Packet Loss Concealment	-	-	V
	RFC2833 - Out of Band DTMF	-	-	V
	Gain/Attenuation Setting	-	-	V
	Modem Support Rate Up V.92	-	-	V
	Caller ID Support: Bellcore, ETSI, NTT, DTMF-Based(Nor-Europe)	-	-	V
	Line Polarity Reversal Generation	-	-	V
	QoS for B.W Reservation	-	-	V
	Hunt Group	-	-	V
	Call Holding	-	-	V
	Call Forwarding	-	-	V
	Outbound Proxy	-	-	V
	NAT Traversal (STUN) (RFC 3489)	-	-	V
	Incoming Call Barring	-	-	V
	T.38 Fax Relay	-	-	V
	VoIP over IPSec	-	-	V
	Call Forwarding	-	-	V
	Hot Line to Internet/PBX/PSTN	-	-	V
High Availability	FXO-PIN Code	-	-	*
	Multiple SIP Proxies Registering	-	-	*
	Call Transferring	-	-	*
	Incoming Call Barring by Schedule	-	-	*
	VRRP (RFC 2338)	V	V	V

*Future release

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