Vigor3300V+ Multi-WAN Security Router ไม่มีวันล่ม

▶ 4 WAN รองรับ Load-Balance ได้กุกรูปแบบ Auto Weight, Fail-over, According Speed ... ฯ

- VLAN 802.1q ช่วยแยก Subnet และ Gateway ออกจากกัน เพื่อความปลอดภัยสูงสุดของข้อมูล
- พังก์ HA (High Availability) ทำงาน 2 ตัวพร้อมกัน แม้ตัวหนึ่งล่ม อีกตัวที่เหลือจะทำงานในทันที (ไม่มีวันล่ม)
- ลำดับความสำคัญในการส่งข้อมูล (QOS/Quality of Service) อันแสบแยบยล ทั้งแบบ Port, IP หรือกลุ่ม IP
- ▶ VPN แบบ Site-to-Site ถึง 200 Tunnel (IPSec, L2TP, L2TP over IPSec) และเชื่อมต่อ FXS/FXO ตามต้องการ

The Vigor3300V+ series serve as multi WAN solutions and professional VPN gateway to take care of SMB's HQ and remote sites at the same time.

For HQ / Main office:

With four WAN/DMZ ports which can be configured as either an Internet-facing WAN interface or as a LANfacing physical DMZ, the combination of WAN interface ports can let you use multiple Internet connections to provide greater total bandwidth capacity or fault-tolerance.

For remote sites:

Employees in remote sites would need to have VPN connection with their HQ to execute their daily job. Most single teleworkers can use the VPN capabilities embedded inside iPhone/PC/notebook. The branch offices/small offices can make use of other Vigor routers (or other brand VPN) for the VPN termination.

Utilization of Multiple WAN

VLAN & Multiple LAN subnets

The Vigor3300V+ provides Ethernet port based VLANs, where each of the four LAN (RJ45/Ethernet) ports can be defined into distinct or common groupsi.e. isolated or joined to each other. That would provide SMB the flexibility to either secure corporate confidential data or escalate information sharing between teams/Depts. Moreover, the Vigor3300V+ supports up to four independent LAN-side private IP subnets, with the Vigor providing each with its own **Dood Isatabeting**

Vigor3300V+ distributes WAN traffic requests evenly in basic load-balancing mode. Two LAN users can download at 256Kb/s simultaneously if you have two 256Kb/s feeds. You can select traffic preferences for the load balancing, selecting specific Internet feeds for choosing types of traffic (e.g. VPN, VoIP), by

Backup

Vigor3300V+ can intelligently switch to secondary/backup Internet feed to remain SMB's productivity once the primary Internet feed drops. Those WAN ports of Vigor3300V+ can also be configured to back up the primary Internet feed and only activate while the primary Internet feed drops. The backup WAN port will go idle again once the primary Internet feed is restored.

Integration of FXO/FXS/ISDN interface module

The Vigor3300V+ is equipped with rich-featured supplementary call-handling facilities which facilitates you to make and receive VoIP calls as well as transfer calls around the office. You can select different interface modules dependant upon your communication needs.

FXO interface module:

If you have an FXO interface module, you can also access your analogue lines or connect to PSTN PBX.

ISDN interface module:

You will be able to integrate the ISDN MSN (multiple The Vigor3300V+ hence converges the PSTN, ISDN, Voice-over-IP, and robust firewall to leverage your existing networking infrastructure.

Prioritize your bandwidth for versatile applications

Bandwidth Management & QoS

The administrators can set Quality of Service (QoS) preferences to utilize bandwidth efficiently for essential applications.

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For example, the Vigor3300V+ grants highest priority to Voice-over-IP (VoIP) telephony so that VoIP calls can be made with crystal-clear quality. In contrast, administrators set a maximum percentage of your bandwidth for P2P (e.g. movie downloading) or FTP downloads for remaining your valuable bandwidth.

Security without compromise

The enterprise-level CSM (Content Security Management) embedded in Vigor3300V+ enables users to control and manage IM (Instant Messenger) and P2P (Peer to Peer) applications more efficiently. The CSM hence prevents inappropriate content from distracting employees and impeding productivity. Furthermore, the CSM can keep office networks threat-free and available. With CSM, you can protect confidential and essential data from modification or theft.

Besides, Vigor3300V+ series feature high-security firewall options with both IP-layer and content based protection. The DoS/DDoS prevention and URL/Web content filter strengthen the security outside and inside

More extendability

The Vigor3300V+ can establish VPN tunnels across the public Internet. The tunnels can be to remote networks, or from a single dial-in teleworker, needing to access your headquarters' LAN where DrayTek Vigor3300V+ is installed. With a dedicated VPN co-processor, the hardware encryption of AES/DES/3DES and hardware key hash of SHA-1/MD5 are seamlessly handled, thus maintaining maximum router performance. For remote tele-workers and inter-office links, the Vigor3300V+ supports up to 200 simultaneous VPN tunnels (such as IPSec/PPTP/L2TP protocols).

High user-friendliness and efficiency

Its well-structured Web User Interface offers userfriendly configuration and make the net-admin job become an easy task. For instance, the WUI provides IP layer QoS (Quality of Service), NAT session/bandwidth management to help users control and allocate the bandwidth on networks.

More benefits

The platform of Vigor3300V+ is able to let you choose 4-port ISDN BRI card (4 ISDN TE or 2 TE/2 NT interface card) in terms of your voice environment. The ISDN phone can connect to NT -interface of 2 TE/2 NT interface card. The ISDN line can be connected to TEinterface. If you have ISDN PBX, you can connect one of internal extension to TE-interface of 4-port ISDN TE card. The call routing of Vigor3300V+ will enable ISDN MSN mapping to IP extensions for forming compound extensions.



Off-Net via ISDN Network



Technical Specification

VoIP		
	 Protocol:SIPv2(RFC3261), MGCP, RTP / RT 	CP • Supplemental services :
	 Multiple SIP proxies registrars 	Internal call
	• Jitter buffer (125ms)	Call hold/retrieve
	G.168 line echo-cancellation	Call waiting
	Automatic gain control	Call waiting with caller ID
	Packet loss concealment	Call transfer
	Outbound proxy	Call forwarding (always, busy, answer)
	FXO-PIN code	Call barring (incoming / outgoing)
	NAT traversal (STUN, RFC 3489)	DND (do not disturb)
	Voice codec:	Hotline
	G.711 A/u laws, G.723.1, G.726, G.729 A/B,	 Incoming call barring
	VAD/CNG	 FXS incoming/outgoing preset number
	 Tone generation and detection: 	• Feature phone*
	DTMF, dial, busy, ring back, call progress	Dial plan :
	DTMF Tone :	Phone book
	Out band (RFC-2833), SIP Info	Digit map
	FAX/Modem support :	Call barring
	Tone detection	Regional
	G.711 pass-through	Caller ID support: bellcore, ETSI, NTT,
	T.38 FAX relay, T.30 transparent	DTMF-based(nor-europe)
	 Modem support rate up V.92. (G.711 only) 	
		*Future releas
ISDN Features		
	ISDN Failover (Loop through) [available on	2 TE/NT (S0) interface module].
	ISDN On-Net/Off-Net	
	10MSN (Multiple Subscriber Numbers) on e	-
	 Signaling compliance: ITU-T Rec. Q. 920, C 	1921, Q930, Q931.
WAN Protocol		
Ethernet	 PPPoE, PPTP, DHCP client, static IP, L2TP, 	BPA
ISDN	DSS1 (Euro ISDN), PPP, ML-PPP(64/128Ki	ops)
Multi WAN		
Outbound policy based	Allow your local network to access Internet	using multiple Internet connections with
load balance	high-level of Internet connectivity availability.	
	 4 dedicated Ethernet WAN ports (10/100Mb/s). 	
	WAN fail-over or load-balanced connectivity.	
	Redundancy	
	By PC clients	
	By WAN interfaces traffic volume	
	By destination IP address range	
	By fixed VPN connection	
	By fixed Vi N connection By fixed Vi P packets	
	Robust detection mechanism	
	IP aliasing	
	Auto-detect line status	
Bandwidth on demand	Service/IP based preference rules or auto-w	veight
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VPN

PFS (DH Group)	
Prevent Replay Attack	
Protocols	PPTP, IPSec, L2TP, L2TP over IPSec
Up to 200 sessions simultaneously	 LAN to LAN, remote access (teleworker-to-LAN), dial-in or dial-out.
VPN trunking	• VPN load-balancing and VPN backup.
VPN throughput	• 50Mbps
NAT-traversal (NAT-T)	VPN over routes without VPN pass-through.
PKI certificate	Digital signature (X.509)
IKE authentication	Pre-shared key; IKE phase 1 agressive/standard modes & phase 2 selectable lifetimes.
Authentication	Hardware-based MD5, SHA-1
Encryption	MPPE and hardware-based AES/DES/3DES
RADIUS client	Authentication for PPTP remote dial-in
DHCP over IPSec	 Because DrayTek add a virtual NIC on the PC, thus, while connecting to the server via IPSec tunnel, PC will obtain an IP address from the remote side through DHCP protocol, which is quite similar with PPTP.
Dead Peer Detection (DPD)	• When there is traffic between the peers, it is not necessary for one peer to send a keep-alive to check for liveness of the peer because the IPSec traffic serves as implicit proof of the availability of the peer.
Smart VPN software utility	Provided free of charge for teleworker convenience (Windows environment).
Easy of adoption	No additional client or remote site licensing required.
Industrial-standard interoperability	Compatible with other leading 3rd party vendor VPN devices.

Content filter	
URL keyword blocking	Whitelist and Blacklist.
	 Java applet, cookies, active X, compressed, executable, multimedia file blocking.
Web content filter	Dynamic URL filtering database.
Time schedule control	Set rule according to your specific office hours.
Firewall	
Stateful Packet Inspection (SPI)	 Outgoing/Incoming traffic inspection based on connection information.
Multi-NAT	 You have been allocated multiple public IP address by your ISP. You hence can have a one-to-one relationship between a public IP address and an internal/private IP address. This means that you have the protection of NAT (see earlier) but the PC can be addressed directly from the outside world by its aliased public IP address, but still by only opening specific ports to it (for example TCP port 80 for an http/web server).
Port redirection	 The packet is forwarded to a specific local PC if the port number matches with the defined port number. You can also translate the external port to another port locally.
Open ports	 As port redirection (above) but allows you to define a range of ports.
DMZ host	This opens up a single PC completely. All incoming packets will be forwarded onto the
	PC with the local IP address you set. The only exceptions are packets received in response
	to outgoing requests from other local PCs or incoming packets which match rules in the
	other two methods.
	The precedence is as follows :
	Port Redirection > Open Ports > DMZ
Policy-based IP packet filter	• The header information of an IP packet (IP or Mac source/destination addresses; source /destination ports; DiffServ attribute; direction dependent, bandwidth dependent, remote-site dependent.
DoS/DDoS prevention	• Act of preventing customers, users, clients or other computers from accessing data on a computer.
IP address anti-spoofing	 Source IP address check on all interfaces only IP addresses classified within the defined IP networks are allowed.
Object-based firewall	Utilizes object-oriented approach to firewall policy.
notification	• E-mail alert and logging via syslog.
Bind IP to MAC address	Flexible DHCP with 'IP-MAC binding'.
WDS security	• The use of authentication and encryption techniques on a Wireless Distribution System (WDS) link between compatible access points.

System management	
Web-based user interface (HTTP)	 Integrated web server for the configuration of routers via Internet browsers with HTTP.
DrayTek's quick start wizard	• Let administrator adjust time zone and promptly set up the Internet (PPPoE, PPTP, Static IP, DHCP).
User administration	 RADIUS user administration for dial-in access (PPP/PPTP and ISDN CLIP).
CLI(Command Line Interface,	 Remotely administer computers via the telnet.
Telnet/SSH)	
DHCP client/relay/server	 Provides an easy-to configure function for your local IP network.
Dynamic DNS	 When you connect to your ISP, by broadband or ISDN you are normally allocated an dynamic IP
	address. i.e. the public IP address your router is allocated changes each time you connect to the ISP.
	If you want to run a local server, remote users cannot predict your current IP address to find you.
Administration access control	 The password can be applied to authentication of administrators.
Configuration backup/restore	• If the hardware breaks down, you can recover the failed system within an acceptable time. Through
	TFTP, the effective way is to backup and restore configuration between remote hosts.
Built-in diagnostic function	 Dial-out trigger, routing table, ARP cache table, DHCP table, NAT sessions table,
	data flow monitor, traffic graph, ping diagnosis, trace route.
NTP client/call scheduling	 The Vigor has a real time clock which can update itself from your browser manually or more
	conveniently automatically from an Internet time server (NTP). This enables you to schedule the router
	to dial-out to the Internet at a preset time, or restrict Internet access to certain hours. A schedule can
	also be applied to LAN-to-LAN profiles (VPN or direct dial) or some of the content filtering options.
Tag-based VLAN (802.1Q)	 By means of using a VLAN ID, a tag-based VLAN can identify VLAN group membership.
	The VLAN ID provides the information required to process the traffic across a network.
	Furthermore, the VLAN ID associates traffic with a specific VLAN group.
Firmware upgrade via TFTP/	Using the TFTP server and the firmware upgrade utility software, you may easily upgrade to the latest
HTTP	firmware whenever enhanced features are added.
Remote maintenance	• With Telnet/SSL, SSH (with password or public key), browser (HTTP/HTTPS), TFTP or SNMP,
	firmware upgrade via HTTP or TFTP.
Logging via syslog	Syslog is a method of logging router activity.
SNMP management	SNMP management via SNMP v2, MIB II
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Bandwidth management	
Traffic shaping	 Dynamic bandwidth management with IP traffic shaping.
Bandwidth reservation	• Reserve minimum and maximum bandwidths by connection based or total data through send/
	receive directions.
DiffServ codepoint classifying	 Priority queuing of packets based on DiffServ.
4 priority levels(inbound/outbound)	Prioritization in terms of Internet usage.
Individual IP bandwidth/session	 Define session /bandwidth limitation based on IP address.
limitation	
Bandwidth borrowing	 Transmission rates control of data services through packet scheduler.
User-defined class-based rules	More flexibility.

Routing functions	
Router	 IP and NetBIOS/IP-multi-protocol router.
Advanced routing and forwarding	• Complete independent management and configuration of IP networks in the device, i.e. individual
	settings for DHCP, DNS, firewall, VLAN, routing, QoS etc.
DNS	DNS cache/proxy.
DHCP	DHCP client/relay/server.
NTP	 NTP client, automatic adjustment for daylight-saving time.
Policy-based routing	 Based on firewall rules, certain data types are marked for specific routing, e.g. to particular remote sites or lines.
Dynamic routing	 It is with routing protocol of RIP v2. Learning and propagating routes; separate settings for WAN and LAN.
Static routing	• An instruction to re-route particular traffic through to another local gateway, instead of sending it onto the Internet with the rest of the traffic. A static route is just like a 'diversion sign' on a road.

Working with VigorCSM central management

 Basic configuration 	
Performance monitoring	
Topology	
Security	
• Log	
• Alarm	
Polling	
VPN/firewall configuration	
VoIP configuration	
Alarm for VPN/firewall	

High availability

• VRRP (RFC 2338)

Hardware	
LAN	 4 x 10/100M Base-TX LAN switch, RJ-45
WAN	 4 x 10/100M Base-TX WAN/DMZ switch, RJ-45
Console	• 1 x console, RJ-45
Reset	 1 x factory reset button
VolP	 2 x slots for FXS/FXO/ISDN S0,TE/ISDN all TE

Support	
Warranty	 2-year limited warranty, technical support through e-mail and Internet FAQ/application notes.
Firmware upgrade	Free firmware upgrade from Internet.

Declaration of conformity

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