

NevITM

Defining Gateway Security

NevITM family of devices from Nevis are Unified Threat Management security appliances which uniquely integrate large amount of Security, Connectivity and Networking features to protect the enterprises from ever growing threat landscape from the external world.

NevITM devices from Nevis are a family of complete United Threat Management appliances that combine several network functionalities. These appliances are multi-service enterprise edge gateways designed to leverage the potential of the Internet and are suitable for a network that can support between 50 to 500 users. Nevis' NevITM appliance is a single powerful device that combines multiple functionalities such as security, connectivity to provide a simple, cost effective solution that enhances productivity.

Enterprises can connect their entire branch network using VPN over an inexpensive Internet. The network administrators can securely connect to the Internet either using site to site VPN or client to site VPN over IPSec, SSL or PPTP.

A deep packet inspection firewall along with an intrusion prevention engine inside NevITM keeps the internal network isolated from the external hackers and intruders.

Incoming content is inspected by an in-line anti-virus for http, ftp and Email traffic. A powerful anti-spam engine further prevents all the bogus emails from entering the network.

Undesirable web site access is blocked as per categorized blocking of websites such as gaming, music, video, news, adult, political and so on. Enterprises can have further restrictions by having file type blocking or through download quota restrictions.

Users are required to authenticate using LDAP based or through an external directory structure and then the group based access permissions apply.

User activity monitoring can provide detailed view of an internet access and usage based upon the applications. This information can be used for further forensics and analytics.

Multi-Link WAN management with ISP failover feature ensures continuous availability of crucial internet connectivity to the enterprise.

NevITM's intuitive web-based GUI helps the administrator to configure the complex network options remotely. Optional centralized management software can help the administrator manage multiple branches from a single console.

NevITM also provides secure remote desktop connectivity for troubleshooting, diagnosing and fixing user related problems.

Benefits

Improves Organizational Productivity and Security

Keeps users away from an unwanted content and web sites. Managed through extensive monitoring and reporting. Keeps malware and spam contents away to protect information.

Ensures the Internet availability

Multi-Link WAN ports for multiple ISPs provide automatic failover or load balanced links to ensure Internet is continuously available.

Cost Effective Connectivity

Multiple branches can connect to have a single seamless organizational network using inexpensive broadband links.

Provides cost-effective and easy deployment

GUI based simple and easily manageable.

Specifications

Maximum Performance and Capacity¹

Firewall performance (UDP)	5750 Mbps
Firewall performance (TCP)	3500 Mbps
AV performance	775 Mbps
VPN performance AES 256+SHA-1	425 Mbps
VPN performance 3DES +SHA-1	340 Mbps
Concurrent sessions	800000
Sessions per second	28000
Firewall rules and policies	Unlimited
Number of users	500

Interfaces

Ethernet 10/100/1000 ports	Upto 6
Dialup ports, including CDMA dialup	Upto 2
Serial console port	Yes

Networking

PPPoE / Static / DHCP client	Yes
WAN Encapsulation: PPP/MLPPP, HDLC	Yes
LAN support	Yes,4096
DHCP, DNS support on per VLAN and zone basis	Yes
Policy-based routing	Yes
Multi-ISP auto-failover	Yes
Load balancing	Yes
Static routing	Yes
Multicast routing	Yes
Internet Group Management Protocol (IGMPv1, v2)	Yes
PIM single mode	Yes
Multicast inside VPN tunnel	Yes
Network Address Translation (NAT)	Yes
Port Address Translation (PAT)	Yes
Virtual IP (VIP)	Yes
Dynamic DNS support per WAN interface	Yes
Public DNS server	Yes

Firewall

Firewall zones (WAN, LAN, DMZ etc)	8
Access policies and rules on per zone basis	Yes
DoS and DDoS protection	Yes
Port/service blocking, forwarding and load balance	Yes
Block TCP/UDP flood, WAN/LAN ping	Yes
Brute force attack mitigation	Yes
SYN cookie protection	Yes
Zone-based IP spoofing	Yes
Malformed packet protection	Yes
Proxy ARP for transparent firewall	Yes
Time and schedule based rules	Yes

Unified Threat Management

Protocol anomaly detection	Yes
Stateful protocol signatures	Yes
Intrusion Detection and Prevention System (IDS/IPS)	Yes
Proxy support for HTTP/S, mail, FTP, IM	Yes
Inline Anti-virus/Anti-spam	Yes
Automatic scanning of HTTP, FTP, SMTP/POP/IMAP	Yes
Optional Kaspersky AV Engine integration	Yes
Integrated URL filtering, including for HTTP/S	Yes
Object filters-Malware, Cookies, Java Applets	Yes
Mime based object filters	Yes
Built-in Web cache, with cache clear option	Yes
Bypass proxy and Anti-virus scans	Yes

Virtual Private Network (VPN)

VPN types: SSL, IPsec, and PPTP (simultaneous)	Yes
Split and Full tunnel support, with validity period	Yes
Key management and certification authority	Yes
Encryption: DES, 3DES, AES, Blowfish	Yes
Message integrity: MD-5 and SHA-1	Yes
Message integrity: MD-5 and SHA-1	Yes
VPN clients for Windows, Linux and MAC	Yes
DNS and route push for VPN clients	Yes
IPsec Network Address Translation (NAT) traversal	Yes

User Authentication and Access Control

Built-in (internal) database - user limit	Unlimited
Integrated service management for users	Yes
User self-service	Yes
External LDAP, ADS integration	Yes
Web-based authentication	Yes

Traffic Management- Quality of Service (QoS)

Guaranteed bandwidth	Yes
Maximum bandwidth and bandwidth management	Yes
Incoming load balance	Yes
Outgoing load balance	Yes
Ingress traffic policing	Yes

Administration

Role based administration access	Yes
Automatic and scheduled backup of configuration	Yes
SNMP	Yes
Nevis VirtualPresence single console administration	Yes
Automatic patch, signature and software updates	Yes
NevisCare remote administration	Yes

Monitoring and Reporting

Multi-function dashboards with live reports	Yes
Self-monitoring (links, services, usage)	Yes
Third-party device monitoring (agent)	Yes
Event history and database search	Yes
Alerts on events (SMS, Email, RSS)	Yes
Daily digest email reports (unlimited users, schedule)	Yes
Web usage history, with group and no-report support	Yes
Port, interface and application level usage history	Yes
Live system status reports, with network map	Yes
XML API for all reports and status	Yes
Live logs and historical log access	Yes
Live network statistics	Yes
History of configuration changes	Yes

IT Inventory Management

Support for hardware inventory with make and manufacturer names, ports, add-on cards	Yes
Software inventory with name and version	Yes
Separate ID per subnet for each - easy tracking / reporting	Yes
Duplicate entry check and elimination	Yes
Alert on change in configuration in the PCs / Servers	Yes
Auto tracking of hardware / software across the network	Yes
Manual entry of IT assets for warranty tracking	Yes
Multiple OS support: Windows/Linux/Solaris/Mac OS	Yes

Windows Primary Domain Controller

NT4 compatible (Win XP & above)	Yes
Control spreading of virus via USB drives in the network by applying policies for users/groups in a domain	Yes
Multiple user profiles support with different security profiles Custom "ADM" file support	Yes

¹ Parameters tested with Intel Quad Core Xeon processor 2 GHz, with 4096MB RAM

Add on Modules

Mail server

Anti-virus /Anti-Spam:	Yes
Anti-spam with	
Bayes/Pattern/SPF/FuzzyOCR/pyzor/RBL/ RHSBL.	
Scan based on subject prefix and disable scanning for selective users. Option to quarantine/delete/forward/alert postmaster/notify sender for infected mail.	
Block mails based on attachments type/name/size/ number of attachments and message size.	
Custom rules, Black-list, White-list and Grey-list support.	
Performance Tuning:	Yes
Configure response delay time, error count for delay & rejection for remote SMTP client. Limit concurrent connections and number of delivery requests from clients.	
Relay support:	Yes
Relay Transport/Fallback Transport/ User Relay Restrictions	
Security:	Yes
Reject mails with noncompliant SMTP HELO, non-FQDN and invalid/unknown hostname	
Web Mail with user configurable display/folder & auto-response and forward-to option	
User Management:	Yes
User based Transparent Mail Forwarding (BCC) and distribution list	

FTP Server

Supports FTP, FTP over SSL/TLS (FTPS) and SSH FTP	Yes
Powerful Site Manager and transfer queue. Supports resume and transfer of large files over 4GB	Yes
Built-in user management with access control at user and group level	Yes

Wi-Fi Hotspot

Multiple usage plans - Pre-paid / Post-paid / Data Usage.	Yes
Usage / time based voucher and invoices.	Yes
Detailed bandwidth and browsing usage.	Yes
Monitor & report Wi-Fi and internet links for uptime	Yes
Alert administrator when Wi-Fi access points go down	Yes
User management: WPA/RADIUS based authentication and accounting and browser based authentication	Yes
VPN bypass supported	Yes
Invoice generation support	Yes
Walled garden support	Yes
Multiple internet connections with seamless failover and load balance	Yes
Multiple login pages for different SSIDs	Yes
JSON based custom login interface	Yes
Hotel Management System (HMS) integration	Yes

Chat Server

User management with AD/LDAP integration	Yes
Profile and nickname support	Yes
Multi-user chat rooms with moderator and admin control	Yes
Comprehensive chat logging & archiving	Yes
Based on standard XMPP protocol	Yes
Supports Windows, Linux, and Mac	Yes

VRRP Hardware Redundancy and High Availability support

VRRP support	Yes
Interworking with third-party VRRP capable devices	Yes
Load-balancing and failover for incoming traffic through DNS	Yes

Hardware Specifications

System

Processor	Supports Intel® Core 2 Duo, Pentium®, Celeron® series processor in LGA775, with 800/1066MHz FSB
Chipset	Intel® 945G + ICH7R
Memory	Supports 2 x 240-pin DIMMs, up to 4GB of dual-channel DDR2 667/800 system memory
Hardware Monitor	Monitors system status, voltage, temperature and fan speed
Watchdog Timer	1~255 sec./min. timer system reset or interrupt, setup by software
Expansion Interface	One x8 PCI Express slot and one PCI slot

Storage

IDE	1 x Ultra ATA 66/100 interface, available interface of 1 x 44-Pin header on board
Serial ATA	4 x Serial ATA 300MB/s interface, Supports RAID 0, 1, 5 10
CF	1 x Compact Flash socket, Type I/II

I/O Interface

USB	4 x USB2.0 Ports, available interface of 1 x 9-pin header on board and 2 x USB in I/O panel
Serial Port	2 x RS-232 Ports, available interface of 1 x RJ-45 in I/O panel and 1x 9-Pin header on board

Display

Chipset	Integrated Intel® GMA950 graphics controller
Display Interface	1 x VGA, available interface of 1 x 16-Pin header on board

Ethernet

Chipset	6 x Intel® 82573E Giga Ethernet controller
Speed	10/100M/1000Mbps
Connector	6 x RJ-45 with Link and Active indicator
Bypass Function	Optional one pair of bypass or two pairs of bypass

Mechanical and Environmental

Dimensions	300mm x 200mm
Operating Temperature	-5°C ~ +65°C
Storage Temperature	-25°C ~ +75°C
Operating Humidity	5% ~ 90%, non-condensing

Power

Power Supply	Supports ATX power supply
Power consumption	Typical 82.6W(Processor: Intel® Core 2 Duo E7400 2.8GHz, RAM: 2* 2GB DDR2 800 memory)

Operating System

Supported OS	Windows, Linux
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Nevis Networks (India) Pvt. Ltd
3, Vishwakalyan
S.No.149/3, Off ITI Road
Aundh, Pune 411007
Maharashtra, India.
Tel: +91 20-25880071
Email: nevitmsales@nevisnetworks.com