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McAfee UTM Firewall

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With network attacks on the rise—from both inside and outside the organization—companies need to put security first. Key to doing so are comprehensive, integrated solutions that help protect business networks.

McAfee Unified Threat Management (UTM) Firewalls provide a single multifunction network security appliance that does it all. Whether a company is looking for comprehensive web protection with content filtering or malware detection, or just a network security firewall, UTM Firewall appliances are up to the task. These appliances are designed for small and mid-size businesses, as well as large enterprise branch offices, retail locations, and remote facilities.

UTM Firewall appliances are very reasonably priced and come fully integrated with anti-malware, intrusion prevention, network protection, TrustedSource reputation ratings, and Web filtering to protect against known and unknown threats. Each appliance can be deployed as a firewall, a VPN gateway, or UTM security appliance—or as a complete office network-in-a-box Internet appliance with all the necessary wide area networking tools.

IT and security staff appreciate UTM Firewalls for their easy management of policies and updates, and their comprehensive monitoring and reporting capabilities. Compliance officers value these appliances for their ability to provide the information they need to meet regulatory requirements and simplify audits.

Leverage Enterprise-Friendly Features and Set up Your Distributed Environment
• High availability and automatic VPN initialization
• Load balancing and the ability to leverage multiple Internet service providers
• Token-based authentication available
• A complete UTM appliance that provides web filtering, mail filtering, intrusion detection and prevention, anti-malware, anti-virus, and more
• Secure remote VPN access for your mobile staff

Figure 1: Enterprise-class security solutions tailored for the distributed environment and the small and medium-size enterprise.

SG310—The McAfee UTM Firewall SG310 is a compact, feature-rich network security appliance that is perfect for securing small networks and remote workers. The onboard 4-port 10/100 Ethernet switch and serial ports connect the network to the Internet via broadband (ADSL, cable, SHDSL, and others) or narrowband (modem and ISDN) connections.

Create an Instant and Secure Office Network with UTM Firewall

McAfee UTM Firewall is a complete office network-in-a-box Internet security appliance for SMBs. It features wide area networking tools that you would normally only see with enterprise-class devices. Because the last thing SMBs need is another single-purpose security appliance to add to their network.

Use your UTM Firewall as your all-in-one solution for networking office PCs to each other, giving them secure connectivity to the Internet and the corporate WAN, and servicing all remote access VPN needs. UTM Firewalls handle it all for you easily and at low cost. It works by converging all networking, firewall, intrusion prevention security, and remote access requirements into one high-speed, highly reliable, small form-factor appliance. You are empowered to easily set up your small business office with:

• A local network of PCs (wired or wireless, including DHCP and all LAN-routing functions)
• Internet connection with policy-based content filtering
• Seamless LAN to WAN connectivity
• A complete perimeter security solution (firewall, VPN, IDS/IPS, anti-virus, mail and Web content filtering)

Just pick the UTM Firewall model that fits your business requirements and power it on. No additional routers, switches, DHCP servers, wireless devices, or failover devices are needed. That's why we call our McAfee UTM Firewall products the complete office network-in-a-box Internet security appliance.

SG560, SG560U and SG560D—Developed for slightly larger offices where higher performance is needed than the SG310. It includes a metal case, hardware encryption acceleration for better VPN performance and port based VLAN capability. Both SG560U and SG560D models include a USB port for 3G wireless support, and the McAfee UTM Firewall SG560D includes an internal ADSL2/2+ modem.

SG565—With the adoption of wireless LANs (WLANs), organizations of all sizes benefit from the ability to access information when away from a desk. The McAfee UTM Firewall SG565 extends the capabilities of the SG560 to include 802.11b/g WLAN support and two USB host ports. USB ports allow you to expand on-board storage, or even provide 3G network access through USB 3G wireless modems—either as a primary connection or a high-availability option. The SG565 also offers IDS/IPS, and web caching.

SG580—The McAfee UTM Firewall SG580 consolidates firewall, intrusion prevention, and secure VPN access. Its networking capabilities enable small offices and branch offices of large enterprises to safely and easily connect their networks of PCs, PDAs, web and application servers to the Internet via broadband circuits from T-1 to T-3 and xDSL, or narrowband connections (modem and ISDN). Includes up to five separate security zones, link failover and Internet session load balancing, and built-in web proxy cache.

Create A Secure Distributed Office Environment with McAfee UTM Firewall

As organizations deploy anti-malware engines, anti-spam solutions, and application layer firewalls at their corporate offices, security staff want their remote users covered by the same type of protection technologies. One of the best ways to accomplish this is to implement a scaled-down, more cost-effective solution at the remote locations, and route all traffic through the corporate office via a secure tunnel.

UTM Firewall's high availability and VPN failover capability enable you to ensure users always have secure, seamless connections to resources at corporate headquarters. UTM Firewall detection services can identify if a connection is down and automatically bring up a secure VPN tunnel until the primary connection is available again—completely transparent to end users.
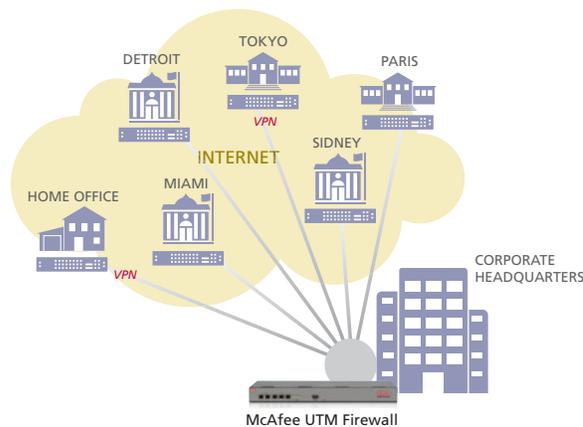

Figure 2: Hub and spoke architecture

McAfee UTM Firewall Family Benefits, Features, and Advantages

Enterprise-class

McAfee UTM Firewall's configurable firmware is based on embedded Linux. This design provides a virtually unlimited range of precise tuning options for such elements as Quality of Service (QoS), traffic shaping, VPN tunnel topology, routing, and fine-grained firewall rule sets.

UTM Firewalls support both business- and consumer-grade broadband, ADSL, dedicated circuits from T-1 and up, narrowband modems, Wi-Fi, and 3G wireless options. Advanced networking features include support of port- and tag-based VLAN, OSPF, BGP, RIP, RIPv2, RAS, RADIUS, TACACS+, MS-CHAP V2, and more. Web and DNS caching is also available.

Failover and Load Balancing

In addition to the ability to leverage 3G wireless networks for high availability and failover solutions, McAfee UTM Firewall family products are also equipped with a serial port to ensure uninterrupted connectivity. If the broadband Internet connection is lost, UTM Firewall products can automatically create a new narrowband connection using an external ISDN or analog modem. The SG560, SG560U, SG560D, SG565, SG580, and SG720 appliances support multiple broadband ports to ensure uninterrupted WAN access and maximum bandwidth.

Virtual Private Network (VPN)

Whether connecting site to site or with mobile users, UTM Firewalls support the most popular types of VPN technology, including PPTP, L2TP, GRE, and IPSec. Even the smallest UTM Firewall security appliances include a robust IPSec VPN solution for securely interconnecting multiple offices across the public Internet without investing in a dedicated wide area network. The UTM Firewall VPN configurations support 3DES, AES, and other popular commercial encryption algorithms. Unique technology called "VPN offloading" allows multiple UTM Firewall appliances to load balance and act as a VPN concentrator, managing any number of VPN tunnels.

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SG640—The McAfee UTM Firewall
SG640 is a cost-effective firewall/
VPN/IDS/IPS solution packaged on
a PCI card for desktops and critical
servers. By offloading this processing
from the host computer, the SG640
ensures high performance and
throughput with the convenience of
remote management and simplified
installation. The UTM Firewall SG640
eliminates the cabling, space, and
power requirements of an external
appliance while not having to rely on
the host operating system to manage
your security requirements.

SG720—With nearly 200 Mbps
throughput, two gigabit Ethernet
ports, and three VLAN 10/100 ports,
the ICSA-certified SG720 is an excellent
solution for branch offices of larger
organizations as well as central offices
of small to mid-size enterprises (SME).
With its rich feature set and rack-
optimized form factor, the SG720 is
a compelling enterprise-class firewall
solution at a mid-market price.

Custom Appliance Program
A unique offering from the McAfee
UTM Firewall group is the custom
appliance and OEM program that
has developed tens of thousands of
security appliances typically for larger
customers and partners looking to
meet their unique needs. It's very
likely that you have already used
McAfee UTM Firewall technology,
probably without even knowing it.
Maybe at your local coffeehouse for
Internet access, at the gas station for
transmitting credit card transactions,
or possibly during a trip to the
diagnostic imaging lab for an MRI. A
place like the imaging lab would use a
UTM Firewall device to ensure HIPAA
regulations were followed while
securely transmitting encrypted data
to the analysis center.

Organizations with a need for a
personalized device should formally
request information on the custom
appliance program from the UTM
Firewall team. Please see our website
for details. www.mcafee.com.

*Not available in all regions

Intrusion Detection and Threat Mitigation

All McAfee UTM Firewall security appliances include technology to disrupt conventional scanning and network layer denial of service (DoS) attacks. All UTM Firewall models also include some form of active intrusion detection and prevention or blocking system to proactively monitor network events and alert network personnel when there is suspicious activity. UTM Firewall devices with IDS/IPS systems have an enterprise-class signature set traditionally only available for larger organizations. All McAfee UTM Firewalls can leverage cloud services to provide enterprise class Web content filtering, anti-malware, anti-spyware and anti-virus services.

Deploy Content Filtering for Employee Outbound Access

Control and report on how your employees use their web access. UTM Firewall appliances enable you to optionally subscribe to the McAfee Web Protection Service* to provide URL content filtering, anti-malware, anti-spyware and anti-virus capabilities. This application provides in-the-cloud filtering with web usage and user-based reporting included. One-year-increment subscriptions are available for each UTM Firewall appliance. McAfee Web Protection Service is yet another award-winning and market-leading, enterprise-level security feature set that UTM Firewall customers are able to leverage. There is no better Web content filtering engine available.

## TrustedSource Email Filtering – Global Intelligence Reputation System

McAfee TrustedSource is a global threat correlation engine and intelligence base of global messaging and communication behavior, including reputation, volume, and trends for email, web traffic and malware. It works by analyzing and characterizing Internet traffic to make it understandable and actionable. By accumulating data from tens of thousands of sensors located in 82 countries, TrustedSource creates a profile of all sender activity on the Internet and watches these patterns for deviations from expected behavior. It then generates a reputation score based on multiple protocols, which is then incorporated into the McAfee UTM Firewall to enable them to quickly and accurately identify and reject unwanted traffic. McAfee UTM Firewall is the only SMB network security appliance providing a global enterprise reputation system.

Appliance Management (One-to-One and One-to-Many)

Easily and securely manage all McAfee UTM Firewall appliances via any web browser. You can also manage UTM Firewalls through a feature-rich command line interface, using the SSH network protocol. Optional enterprise-class centralized monitoring and management is available via the McAfee UTM Firewall Control Center for all appliance models as well. A centralized management system is critical to larger distributed environments, as it allows network administrators to manage hundreds or even thousands of UTM Firewall appliances with a click of the mouse, including upgrades, policy changes, and other configuration tasks. SG560D

Model	Typical Deployment	Throughput	VPN Tunnels
SG310	Securing telecommuters and satellite offices	25 Mbps	40
SG560/ SG560U/ SG560D	Feature-rich security and WAN connectivity for small and mid-size businesses including a 3G wireless option via USB 3G modems and the SG560D contains an internal ADSL2/2+ modem	100 Mbps	100
SG565	All-in-one wireless Internet appliance with intrusion prevention system, and other unified threat management features for branch offices or small to mid-size enterprises	110 Mbps	150
SG580	Ideal for enterprise branch offices or medium-size businesses seeking a powerful, fully-integrated UTM firewall, VPN, intrusion detection and prevention solution at a fraction of the cost of multiple point products	160 Mbps	200
SG640	Securing critical servers and desktop systems with an internal firewall, VPN, and intrusion prevention system	80 Mbps	150
SG720	Securing mid-size business networks and multiple office-to-office connections with firewall, VPN, IPS, and all UTM feature options	180 Mbps	500
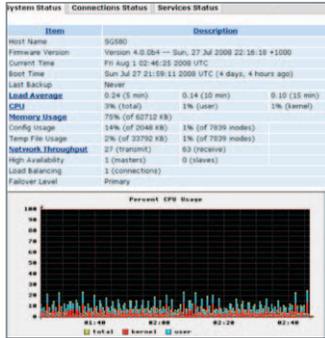
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Understand the status of your network in an instant with the McAfee UTM Firewall dashboard.
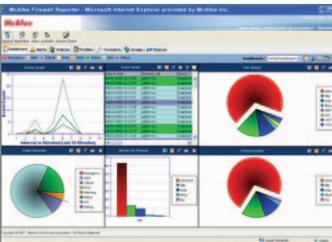
View all your UTM Firewall appliances from one console. McAfee Firewall Reporter includes standard reports to help with compliance initiatives such as PCI DSS.

Drilldown capabilities directly within the interface allow administrators to quickly identify what the issue is, how severe it is, and where it is coming from.

Industry-Leading McAfee UTM Firewall Support Offerings

No other organization offers such an outstanding standard support and warranty program as is available with your UTM Firewall purchase. All McAfee UTM Firewall models automatically include a full year of 24/7 technical phone support, along with a one-year hardware warranty. Support and warranty extensions are available on an annual basis, with extensions up to five years. Please see our website for details. www.mcafee.com

Feature	SG310	SG560	SG560U/ SG560D	SG565	SG580	SG640	SG720
Market & Specs							
Market	SOHO	SMB/ROBO	SMB/ROBO	SMB/ROBO	SMB/ROBO	Desktop/ server card	SMB/ROBO
Support & warranty included	1 yr 24x7 support and hardware	1 yr 24x7 support and hardware	1 yr 24x7 support and hardware	1 yr 24x7 support and hardware	1 yr 24x7 support and hardware	1 yr 24x7 support and hardware	1 yr 24x7 support and hardware
Size/dimensions	7"x4.6"x1.7"	6.5"x4.5"x1"	6.5"x4.5"x1"	8.1"x4.7"x1"	6.5"x4.5"x1	PCI card	1U rackmount
Memory: Flash/RAM	8/16 MB	8/16 MB	128/32 MB	16/64 MB	16/64 MB	16/64 MB	256/256 MB
Ethernet interfaces	1-10/100+ 4-port switch (5 total)	1-10/100+ 4-port switch (5 total)	1-10/100[1]+ 4-port switch (5 total)	1-10/100+ 4-port switch (5 total)	1-10/100+ 4-port switch (5 total)	1-10/100	3-10/100 + 2-10/100/10000
Wi-Fi 802.11 b/g or 3G via USB			3G	3G and Wi-Fi			
H/W crypto-acceleration		X		X	X		X
Internal ADSL2/2+ Modem			X[1]				
Performance							
VPN – PPTP tunnels	10	10	10	25	80	80	100
VPN – IPSec tunnels	40	100	100	150	200	150	500
Stateful inspection throughput	25 Mbps	110 Mbps	110 Mbps	110 Mbps	160 Mbps	80 Mbps	180 Mbps
VPN – PPTP RC4 (128-bit)	4 Mbps	7 Mbps	7 Mbps	7 Mbps	10 Mbps	7 Mbps	8 Mbps
VPN – IPSec 3DES (168-bit)	2 Mbps	32 Mbps	32 Mbps	32 Mbps	44 Mbps	5 Mbps	40 Mbps
VPN – IPSec AES (256-bit)	4 Mbps	32 Mbps	32 Mbps	32 Mbps	44 Mbps	12 Mbps	40 Mbps
Network Features							
VLAN (802.1q)		X	X	X	X	X	X
VLAN (port-based)		X	X	X	X		X
Failover/load-balancing		X	X	X	X		X
DHCP client/server/relay	X	X	X	X	X	X (no relay)	X
Web cache (squid-nontransparent)				X	X	X	X
Traffic shaping/QoS	X	X	X	X	X	X	X
SIP proxy		X	X	X	X	X	X
Routing	X	X	X	X	X	X	X
RAS (dial in)	X	X	X	X	X		X
RIP/RIPv2	X	X	X	X	X	X	X
BGP, OSPF	BGP	BGP	X	X	X	X	X
Security Features							
TrustedSource mail filtering[3]	X	X	X	X	X	X	X
ICSA-certified firewall	X	X	X	X	X	X	X
Anti-intrusion	X	X	X	X	X	X	X
L2TP & GRE	X	X	X	X	X	X	X
IPv6 gateway	X	X	X	X	X		X
IDS & IPS	IDB	IDB	IDB	IDS/IPS	IDS/IPS	IDS/IPS	IDS/IPS
On-box Antivirus				X	X	X	X
Policy enforcement (NASL scripts)				X	X	X	X
URL Filtering[3]	X	X	X	X	X	X	X
URL white lists & black lists	X	X	X	X	X	X	X
Host white lists & black lists	X	X	X	X	X	X	X
McAfee Web Protection Service for UTM Firewall[2,3]	License	(15 users)	(30 users)	(30 users)	(40 users)	(75 users)	(30 users)	(130 users)

McAfee Web Protection Service for UTM Firewall[2,3]		SG310	SG560	SG560U/SG560D	SG565	SG580	SG640	SG720
	License	(15 users)	(30 users)	(30 users)	(40 users)	(75 users)	(30 users)	(130 users)
	Anti-virus	X	X	X	X	X	X	X
	Anti-malware	X	X	X	X	X	X	X
	URL filtering	X	X	X	X	X	X	X
	Anti-spyware	X	X	X	X	X	X	X

1 The SG560D is the only model with an internal ADSL2/2+ modem (RJ 11) and is not available worldwide, please ask your reseller or McAfee account manager
2 Available in North America only
3 Offered as an annual subscription