

NETASQ F5500

Peak Performance



F5500: Optimized performance, active intrusion prevention

Security, performance and availability are the mainstays of the F5500, which benefits from security features such as a stateful firewall, real-time intrusion prevention system, IPSec VPN hub with SSL VPN portal, internal PKI and content filtering system (antispam, antivirus and URL filters), all while maintaining throughput of 2.5 Gbps. Furthermore, this appliance offers a significant level of availability thanks to, among other things, its redundant power supply and RAID disk system.

Using the F5500 is simplified significantly by the NETASQ Global Administration software that provides a wealth of administration, reporting and log management features.

NETASQ's offers a product range with an elevated added-value from a technology point of view and is distributed by highly regarded, certified partners. These solutions offer the maximum level of security, functionality and performance. NETASQ's F2500 provides all the requisite characteristics for integration into complex network infrastructures – high performance, upgradeability of the hardware configuration, and mechanisms enabling interoperability with external solutions (compatibility with ICAP, IPSec, LDAP, RADIUS, Active Directory and SAM).

Main advantages of NETASQ solutions

Characteristics	Advantages	Benefits
Simplified product range	Every NETASQ product is pre-loaded with the same high level of security functionality.	No unpleasant surprises or hidden costs in upgrading to another level of security.
Leading solution in the IPS field	ASQ is NETASQ's patented innovative intrusion prevention engine which allows for the anticipation and prevention of most attacks through the intelligent combination of different, yet complementary analyses.	The risk of the enterprise falling victim to an attack is greatly reduced because current and future attack methods are already anticipated.
Comprehensive and intuitive administration suite	A suite of administration tools is provided with any product in the NETASQ range. This intuitive software suite allows the installation, configuration, maintenance and supervision of any NETASQ product.	These easy-to-use and intuitive graphical interfaces enable a quick installation and configuration as well as a coherent administration, thereby increasing the ability to implement a policy.

Features supported on the NETASQ F5500 UTM appliance

Network and Filtering Features

- Routed, translated, bridged and hybrid mode
- Routing by interface
- Support for up to 256 VLANs
- Built-in Dialup router (PPTP, PPPoE, PPP)
- Address Translation (NAT, 1 to 1, PAT and Split)
- Time Scheduling
- Policy rule (NAT, filter, URL) compliance checker
- xDSL High Availability and Load Balancing
- Support for up to 12 xDSL or Dialup modems
- Quality of Service management (Stateful QoS)
- Dynamic routing (RIP, OSPF, BGP)
- Alias IP support (multiple IP addresses per interface)

Intrusion Prevention System (ASQ)

- ASQ Real Time Intrusion Prevention
- ASQ Plugins (HTTP, FTP, DNS, RIP, H323, EMule, SSL, SSH, Telnet, SMTP, POP3, IMAP4, NNTP, generic, etc.)
- Attack prevention in VPN tunnels
- Multi-layer analysis (protocol, connection, session and application layers)
- Blocks known and unknown attacks with or without context
- Flooding protection (ICMP, UDP and TCP)
- Blocks data evasion
- Protection from Trojan horses/backdoors
- Protection from OS detection
- Session hijack protection
- Contextual Signatures with automatic updates
- Dynamic blacklisting
- Permanent and temporary quarantining
- P2P and Instant Messaging application filters

IPSEC Features

- Up to 256 bit encryption supporting DES, 3DES, AES, CAST128 and Blowfish
- SHA-1 & MD5 Authentication
- Authentication by pre-shared keys, X509 certificates or static
- Hub & Spoke VPN
- Gateway – Gateway VPN tunnels
- Client - Gateway VPN tunnels
- VPN Keep-alive
- Dead Peer Detection
- NAT-Traversal (UDP 500 and 4500)

PPTP VPN Features

- Supports up to 64 PPTP VPN clients

SSL VPN features

- Clientless SSL VPN access supported
- WEB Mode: access to web servers
- Full Mode: access to applications via JAVA applets
- User profile management

High Availability

- Active / Passive
- Configuration synchronization
- Session replication
- Detection of technical failures

⁽¹⁾ Requires a compatible USB key.

Antivirus Features

- Embedded Kaspersky Antivirus (SMTP, POP3, HTTP)
- SMTP Proxy forwarding
- HTTP Proxy forwarding
- Automatic updates

Antispam

- DNS Blacklisting
- Combination of heuristic analyses

Authentication

- Single-Sign-On supported
- LDAP Authentication (Internal and External)
- Windows Authentication (NT4 – NTLM and WIN2K Kerberos)
- Radius
- Internal PKI CA & CRL
- External PKI compatibility
- Web enrolment (creation of users and certificates)

Services

- HTTP Proxy - URL filtering
- ICAP support for URL filtering
- SMTP Proxy
- POP3 Proxy
- DynDNS
- DNS Cache Proxy
- SNMP v1, v2 and v3
- NTP support
- Internal DHCP Server
- Automatic update of the firmware and administration software
- Secure configuration ⁽¹⁾

Logging / Monitoring

- E-mail notification
- SNMP v1, v2 and v3
- Real Time Monitor
- Syslogging
- Internal Log Storage
- Historical Reporting
- Packet Dumping

Management

- Firewall Manager, Monitor and Reporter
- Global Administration for 5 appliances
- Syslog, SSHv2, Console

Options

- Optenet URL filtering
- Kaspersky Antivirus
- Additional network adapters

Optional software suite

- NETASQ Global Administration unlimited version



Specifications and performance for the NETASQ F5500 UTM appliance

IPS-Firewall performance	3 Gbps
AES VPN performance	332 Mbps
100 Base T Interface (copper)	n/a
1000 Base T Interface (copper)	6
Simultaneous connections	1,500,000
Max. no. of filter rules	16,384
IPSec VPN tunnels	15,000
SSL VPN Tunnels	1,024
Max. no. of users	Unlimited

Hardware Specifications

Max no. of Ethernet ports	24
Max no. of Gigabit ports	24
Max no. of interfaces	24
Storage	2 x 147 GB RAID 1, SCSI Drive
Dimensions (mm)	452 x 610 x 178, 4U / 19"
Weight (kg)	32
Power supply (W)	3 x 760 (redundant)
Cooling Subsystem	6
Control connection	RS-232C serial port VT100 Emulation Mini-din keyboard + VGA screen

Environment

Operational temperature	5° to 35°C
Non-operational temp	-30° to 65°C

Certifications

Common Criteria	EAL 2+
ICSA Labs	v4.0

