NetEqualizer 5000 Series Data Sheet



The NetEqualizer 5000 Series is our powerhouse bandwidth shaping solution for businesses ready for the next generation in networking. Designed for massive deployments, it is a rack-mountable unit capable of handling up to 60,000 network users on internet links of up to ten (10) gigabits.

Just like all of our NetEqualizer models, the NE5000 performs QoS through our proprietary "equalizing" technology, utilizing algorithms to achieve fairness across network users. Our NetEqualizer product family optimizes critical network bandwidth resources for any organization that purchases bandwidth in bulk and then redistributes or resells that bandwidth to disparate users with competing needs.



NetEqualizer 5000 Features:

- Affordable. Low-cost, available factory-direct with inhouse engineering support.
- Equalizes up to 10 gigabits traffic (full duplex).
- Ethernet connectivity standard via 10 gigabit single mode or multi-mode fiber.
- Built-in management port.
- Failover standard. Built-in bypass ports take over upon failover. Standard redundant power supply.
- Shared or individual bandwidth limits can be defined by individual IP, Class B or Class C subnets, VLANs, Pools, or MAC address.
- QoS implemented via behavior-based bandwidth shaping. "Fairness" algorithms give priority to latencysensitive applications, such as VoIP, web applications, web browsing, chat and e-mail over large file downloads and video that can clog your network.
- Supports up to 20,000 simultaneous bandwidth rules.
- Built-in Dynamic Real-Time Reporting (RTR) provides traffic monitoring in real-time for both IPv4 & IPv6.
 Sortable & searchable reports include active connections, top 10 flows, and penalized flows.
- Trend analysis and graphs included via RTR Traffic History. Traffic History graphs bandwidth usage by IP, Pool, VLAN, or your network using up to four (4) weeks of data. Export data for longer analysis.
- Turn-key behavior-based control and containment of all common encrypted and unencrypted Peer-to-Peer (P2P) applications using Connection Limits by IP or

- subnet. P2P Locator reports provide visibility to suspected P2P traffic so that you can contain it.
- CALEA Compliant. Acts as a CALEA Probe via packet capturing & forwarding.
- *NEW* Use DDoS Monitor to identify suspicious, potentially malicious activities. Optional DDoS Firewall can be used to contain suspected DDoS attacks, protecting your network from wide-scale brownouts, traffic storms, and worms.
- Plug-n-play, low maintenance solution. Quick and easy set-up, usually within hours. Configure via NetEqualizer GUI or command-line interface. Define four key parameters for out-of-the-box equalizing.
- Ability to create and enforce individual bandwidth quotas by customer IP or subnet. User Quota API toolkit provides custom configuration, monitoring/alarming, and reporting capabilities.
- Acts as a Transparent Bridge on your network.
- NetEqualizer Caching Option (NCO) available as an add-on module. NCO caches all port 80 traffic file sizes from 2MB to 40MB, including YouTube videos. When NCO is activated, a squid proxy server and web cache daemon are loaded, along with proprietary NetEqualizer Caching configuration and integration software and an internal solid-state drive (SSD).
- Reasonably-priced, yearly software upgrade and support contracts (NSS) available in 1 year to 4 year increments.
- Hardware warranties (NHW) available to protect your hardware investment, for up to 4 years.

NetEqualizer Series Specifications

etEqualizer Model	NE3000	NE4000	NE5000
apacity		1	
Number of Users	20,000	40,000	60,000
Connections/Flows per Minute		3,000,000	5,000,000
Maximum Number of Rules	10,000	20,000	20,000
Throughput	20Mbps to 1Gbps	1Gbps	10Gbps
(full duplex)	(20Mbps, 50Mbps, 100Mbps,	5Gbps	
	150Mbps, 350Mbps, 500Mbps, 750Mbps, 1Gbps)		
Latency	< 1 millisecond (ms)		
Pools / VLANs / Subnets	250	250	250
nterfaces			
Network Interfaces	2 - copper 10/100/1000	2 - copper 10/100/1000	2 - fiber 10,000
(in/out) (internal/external)	Fiber optional: 1Gbps single	10 Gbps copper optional	Failover bypass ports standard
,	mode (SM) or multi-mode (MM)	Fiber optional: 1Gbps or 10Gbps	Choose 10Gbps single mode
	,,	single mode (SM) or multi-mode	(SM), multi-mode (MM)
		(MM)	
Device Management	Dedicated management port stan	dard.	
Interoperability	SNMP MIB		
eatures			
Equalizing	Yes. Behavior-based shaping via	"fairness" algorithms gives priority t	o latency-sensitive applications
_4		reb browsing, & e-mail over bandwice	
Bandwidth Shaping & QoS	By IP, subnet, MAC, VLAN, and Bandwidth Pools		
Bandwidth Limiting	1) Hard Limits by IP (with optional Bursting), subnet, or MAC address		
Danawigin Limiting	Shared Bandwidth Pools or VLANs		
DOD Control & Contributor	3) User Bandwidth Quotas by customer IP or subnet		
	Yes. Equally effective on both encrypted and unencrypted P2P. Implemented via Connection Limits.		
P2P Control & Containment	Yes. Equally effective on both end	rypted and unencrypted P2P. Imple	emented via Connection Limits.
(encrypted & unencrypted)			
Streaming Video Prioritization	Yes. Available for internally or extension	emally hosted video servers.	
Caching	ves (optional NCO).		
DDoS Monitor & Firewall	A 1 - 1	os Eirovall available (entional)	
	yes. DDoS Monitor standard. DDoS Firewall available (optional). 1) Failover: Use STP mode on your own switch. Built-in. Failover bypass ports		
Failover			standard.
	 Failover: Install a third-party sw APconnections). 	vich in STP mode (available from	standard.
	·		
Full Redundancy	Install Secondary NetEq in active:	passive mode; hot swappable via S	TP.
Redundant Power	no	no	yes, standard.
Reduirdant i Owei	110		yos, standard.
		1	
Logging	Yes All shaping activities monitor	red and reported via NetFqualizer L	na
Logging Dynamic Real-Time Reporting		 red and reported via NetEqualizer L able you to see what is going on in t	
Logging Dynamic Real-Time Reporting (RTR)	Active Connections Reports en	red and reported via NetEqualizer L able you to see what is going on in age your network usage. Active Cor	your network at this moment, in
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About APconnections

APconnections is an innovation-driven technology company that delivers best-inclass network traffic management solutions to give our customers faster networks, with zero maintenance, at the best prices.

We design and develop
NetEqualizer bandwidth
shaping appliances that solve
Internet congestion issues
while remaining easy-to-install,
affordable, and low
maintenance. We built our
behavior-based "equalizing"
technology to optimize critical
network bandwidth resources.

APconnections is based in Lafayette, Colorado, USA. We released our first commercial offering in July 2003, and since then thousands of customers all over the world have put our products into service. Today, our flexible and scalable solutions can be found in Fortune 500 companies, major universities, Internet providers, small businesses, non-profits, military, and government agencies on six (6) continents.

About the NetEqualizer Product Family

NetEqualizer appliances are behavior-based traffic shaping appliances designed to optimize your Internet connection, while giving priority to your important business and data applications. Our flexible, scalable, and affordable bandwidth shaping products can be deployed in both corporate and Internet provider networks.

NetEqualizer is available in a range of configurations from 20Mbps up to 10Gbps.