Barracuda

Barracuda **NG Firewall 5.4.x**

Product Overview

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About Barracuda Networks, Inc (NYSE: CUDA)

Barracuda Networks, Inc. combines premises-based gateways and software, virtual appliances, cloud services, and sophisticated remote support to deliver comprehensive content security, data protection and application delivery solutions. The company's expansive product portfolio includes offerings for protection against email, web and network-intrusion threats as well as products that improve application delivery and network access, message archiving, backup and data protection.

Protecting users, applications, and data for more than 150,000 organizations worldwide, Barracuda Networks has developed a global reputation as the go-to leader for powerful, easy-to-use, affordable IT solutions. The company's proven customer-centric business model focuses on delivering high-value, subscription-based IT solutions for security and storage.

THE BARRACUDA NETWORKS DIFFERENCE

Barracuda Networks continues to gain wide acclaim from customers, media, and analysts by offering exceptional customer service and top-notch products. Companies and organizations of all sizes rely on Barracuda solutions for six key reasons:

- **Rapid deployment.** Our advanced, integrated solutions are uniquely easy to install and configure.
- **No specialized expertise required.** All Barracuda products feature intuitive interfaces that ensures easy, centralized product management with no need for specialized training.
- **Multiple deployment options.** Available in hardware, virtual, cloud-based, and hybrid configurations, Barracuda products are ideal for a wide variety of network infrastructure types.
- **No support phone trees.** Specially trained Barracuda support technicians are available 24x7 to answer customer calls and provide live support.
- **Automatic product updates.** Every Barracuda solution is backed by Barracuda Energize Updates, which automatically ensure continuous protection against the latest threats.
- **Low total cost of ownership.** Barracuda Networks solutions are easy to scale for performance and increased capacity as organizations grow, protecting your investment and keeping total cost low.

Barracuda Labs and Barracuda Networks Technical Support

Every Barracuda Networks product is backed by world-class services and technical support. To keep systems maintenance-free, Barracuda Energize Updates ensure that Barracuda Networks products are kept up-to-date to mitigate the latest security threats. Barracuda Energize Updates are backed by Barracuda Labs, a 24x7 operations center where engineers monitor the Internet and the industry for the latest threats, applications, websites, and trends.

Barracuda Networks Technical Support is staffed with IT experts ready to solve technical issues. With technical support centers across the globe, Barracuda Networks is staffed 24x7 to provide immediate help without phone trees. Barracuda Networks Technical Support is available in three levels, with the highest Premium Support level providing a dedicated account manager and technical support personnel familiar with an organization's IT environment.

All Barracuda Networks appliances are built on hardened, industrial-strength equipment. Beyond the standard warranty, Barracuda Networks Technical Support offers the Instant Replacement program, where Barracuda Networks will ship replacement units within one business day to keep organizations up and running.

REFERENCES

Barracuda Networks has thousands of customers ranging from small and medium business to Fortune 1000 companies that span all industry verticals. Below is a sample of Barracuda Networks' expansive Barracuda NG Firewall customer portfolio.

> *Within the first two months of deployment we had already realized dramatic cost savings per location as well as increased network traffic bandwidth. In addition we have secured a solution that allows for traffic prioritization and routing in case of a connectivity loss. Barracuda Networks is a highly reputable company throughout the world, known for its security expertise. We are convinced that with Barracuda Networks as the company behind our firewall infrastructure, we will be well-served and supported for many years to come.*
>
> RHI
>
> *CIO,*
> *RHI AG*

> *As a company with internationally distributed facilities, the centralized management concept particularly impressed us – Barracuda Networks therefore quickly became our partner of choice.*
>
> odlo
>
> *Manager of IT Service and Infrastructure Technology,*
> *ODLO Sports Group AG*

SAMPLE CUSTOMERS

Aimar group
CIDACOS
GRIMALDI LINES
antenne BAYERN
CITY OF PALO ALTO
infront SPORTS & MEDIA
ARZ
CUMULUS
MPOB
blum
dm
odlo
CALZEDONIA
EADS European Aeronautic Defence and Space Company
RHI
CBCX BETTING TECHNOLOGIES
Erwin Müller
SECOURS POPULAIRE FRANÇAIS
Central PARKING
G4S
tilak Unternehmen Gesundheit

Barracuda **NG Firewall**

Application & Identity-Aware Protection for Distributed Network Environments

AVAILABLE AS
Virtual Appliances
see page 27

The Barracuda NG Firewall is a family of hardware and virtual appliances designed to protect network infrastructure, improve site-to-site connectivity and simplify administration of network operations. Beyond its powerful network firewall and VPN technologies, the Barracuda NG Firewall integrates a comprehensive set of next-generation firewall technologies, including identity-aware Application Control, intrusion prevention, web filtering, antivirus, anti-spam, and Network Access Control.

The Barracuda NG Firewall features intelligent site-to-site traffic management capabilities that optimize both availability and performance of the Wide Area Network (WAN). Administrators can control application-level routing and prioritization of traffic across multiple links, tunnels, and traffic conditions. Supported link types include dedicated lines, xDSL, 3G/UMTS wireless mobile networks, and any other link types presented as a copper or optical Ethernet link.

Leading next-generation firewall capabilities, industry-leading centralized management, highly resilient VPN technology combined with intelligent traffic management capabilities, allow customers to save line costs and increase overall network availability.

Inside the **Technology**

What are the immediate benefits of deploying a Barracuda NG Firewall?

Improved security posture - From a security perspective, organizations can improve their security posture by integrating previously disparate security functions, including web filtering, malware protection, email security, intrusion prevention, and Application Control into a single platform.

Achieve full application awareness - Application Control allows for accurately identifying a vast number of protocols and applications (BitTorrent, Skype, Instant Messaging, etc.) that are traversing the network. Even if they are using advanced obfuscation techniques, port-hopping, or encryption. Barracuda's Application Control can block the usage of unwanted applications, control and throttle acceptable traffic, and preserve bandwidth for business-critical applications to ensure business continuity.

Achieve full user-based visibility and control - The Barracuda NG Firewall provides seamless integration with all authentication methods (e.g., Active Directory, RADIUS, LDAP/s, etc.) to facilitate policy configuration based on the actual user and group information and not just IP addresses.

Corporate network optimization - From a global network management perspective, you can reduce administrative overhead through centralized management capabilities that serve thousands of nodes and reduce hard dollar costs by better managing WAN links and link bandwidth. State-of-the-art failover and bandwidth management capabilities make sure that your business-critical traffic receives the bandwidth it deserves, even in case of link-loss.

Accelerated troubleshooting - At a help desk and troubleshooting level, the Barracuda NG Firewall provides unprecedented levels of visibility into individual network flows, arming the network engineer with powerful tools to diagnose and maintain the network.

SOLUTION ADVANTAGE 1

Uncompromised Protection and Availability for Corporate Network Boundaries and Segmentations

The more important global communications are for a company, the more important it is to protect corporate network boundaries. After all, the perimeter is still the most important front line of defense against hackers and malicious code. The performance of security solutions at the Internet and VPN gateway levels will determine whether or not external attacks can penetrate your network or can be blocked at the outset.

As the most successful attacks mounted today are within the network, a single remote access link with an unsecured external PC or laptop is often sufficient to allow hackers and malicious codes to open a back door into the company. There are also hazards that arise as a result of intentional or unintentional misconduct by some employees. This threat cannot be mastered with perimeter protection alone, because attackers are already behind the network limits.

OUR SOLUTION FOR YOUR NETWORK SECURITY NEEDS

Crucial business processes run smoothly thanks to multi-gigabit firewall performance and integrated bandwidth management. By combining a stateful inspection firewall with intrusion prevention, denial-of-service protection, intelligent application-selective bandwidth, and multipath management plus VPN technology, guarantee constant availability and protection.

Protection is no longer limited to the perimeter and branches, but extends to all sensitive network areas. Flexible deployment and support for virtualized environments is crucial for successful realization of clean bit structures in your LAN.

FEATURE	BENEFIT
Combination of stateful inspection, application control, and intrusion prevention	Maximum network protection at all data traffic levels
Fully developed high availability functionality	Interruption-free availability for scheduled and unscheduled downtime
Secure VPN connectivity with traffic intelligence	Ultimate traffic optimization for the integrated VPN and external service level agreements (SLAs)
Central management	Allows organizations to uphold and improve internal and external service level agreements (SLAs)
Correlation of global and local rule sets	Allows a maximum of scalability for controlling and monitoring thousands of devices
Real-time monitoring, logging and statistics	Complete and immediate control of all company network processes
Complete reporting	Costs transparency for enterprises
Extendable by secure application gateways (SSH and SSL proxies)	Compliance with different regulations by maximum control of external network accesses
Extendable by secure web access, WAN protection, and optimization and network access control solutions	As the backbone of a highly scalable and flexible communication protection platform, the Barracuda NG Firewall enables companies to increase their corporate IT security

BUSINESS ALIGNMENT

Although IT security can hardly contribute directly to business success, security solutions can have the same enemies as the business. With Barracuda NG Firewalls IT security becomes a vital part of a business enabling environment.

COST EFFICIENCY

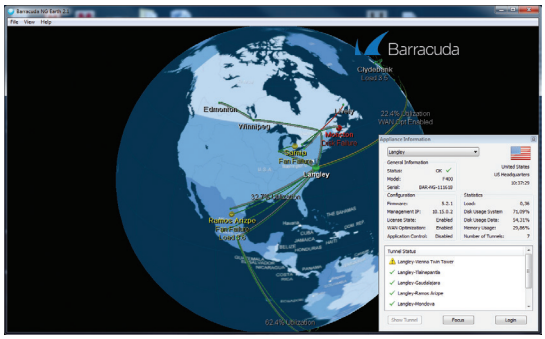
- **Lifecycle Costs** - Extendable Barracuda NG Firewalls offer companies sustainable investment protection. Central management covers centralized update management and comprehensive hardware replacement options.
- **Deployment Costs** - Unique management functions allow for quick and efficient roll-outs.
- **Operating Costs** - Central management saves significant time and effort.
- **License and Hardware Costs** - Unique license and appliances/server hardware combination achieves a maximum of flexibility and cost optimization.

SOLUTION ADVANTAGE 2

WAN Protection and Optimization

In a globally networked organization, protecting the network and optimizing for performance are two of the biggest IT challenges that distributed organizations face today. WAN Optimization allows increased reliability, improving application quality on the one hand and reducing line costs on the other. Ideal solutions combine all requirements for remote connectivity, security, application control, and network performance improvement in a fully integrated product and under the same scalable management.

OUR SOLUTION FOR YOUR WAN PROTECTION AND OPTIMIZATION NEEDS



The Barracuda NG Firewall appliances include all security, connectivity, and optimization services commonly needed at remote locations and branch offices. This effectively enables enterprises to secure the whole network, from headquarters to all remote locations. Integrated Application Layer Control makes sure only allowed traffic passes through the firewall while reaction times are optimized. WAN compression reduces bandwidth load by local caching of network traffic (data deduplication) as well as caching of frequently accessed web content on the web proxy. The built in traffic intelligence engine prioritizes data flows and takes care of smart traffic distribution among dedicated lines, xDSL, ISDN, satellite uplinks, 3G/UMTS or multi provider uplinks. Every uplink line is monitored to allow for almost instantaneous fail-safe redistribution and reprioritization of traffic in case of failure. The Barracuda NG Firewall ensures that all remote offices can always rely on accessing essential resources with adequate performance while reducing overall cost of the WAN network.

BUSINESS ALIGNMENT

Hackers are not the biggest threat to corporate communications. Line, link, and other unexpected data line failures are. The Barracuda NG Firewall's traffic intelligence technology not only protects the most important applications from hackers, spyware, and viruses, but also keeps applications available even in the event of most uplink failure scenarios.

COST EFFICIENCY

- **Line Costs** - The Barracuda NG Firewall allows usage, failover, and bundling of multiple cost-effective types of Internet connections and intelligent data reroute in case of uplink failure, resulting in decreased line costs and increased availability.
- **Lifecycle Costs** - Extendable Barracuda NG Firewalls offer companies sustainable investment protection. The central management covers centralized update management and comprehensive hardware replacement options.
- **Deployment Costs** - Unique management functions allow for quick and efficient roll-outs.
- **Operating Costs** - Completely GUI driven central management for all aspects of the solution saves significant time and effort compared to competing products.

FEATURE	BENEFIT
Application-based provider selection	Depending on the application, the least expensive route is selected, while simultaneously increasing availability.
Traffic compression	Cost savings through higher available virtual bandwidth available to applications.
Data deduplication	Generic large dictionary compression to the byte stream inside the VPN tunnel between two Barracuda NG Firewall appliances. For typical network traffic, compression rates may reach up to 95%, effectively reducing the bandwidth needed at remote locations.
Instantaneous activation of backup uplinks	Automatic activation and switch to alternate uplinks. Even failed uplink hardly yields any noticeable loss of connectivity.
Intelligent traffic management and QoS	Business-sensitive data and applications are given preference to enable continuity in business operations. Bandwidth is limited for certain low priority applications.
Web cache proxy	Reduced bandwidth requirements for Internet access and better user experience.
Distributed Internet breakouts	Improved user friendliness and ease of use without compromising security or increasing costs.
Graphical interface for configuration and control	Cost savings resulting from greater scalability and better manageability.

SOLUTION ADVANTAGE 3

Secure Web Access

A multitude of undesirable contents penetrates companies via email and the Internet. The never-ending flood of spam blocks network resources and reduces employee productivity. Dubious websites disrupt the working atmosphere and can, under certain circumstances, even lead to legal problems for organizations. Increasingly cunning malicious code like Trojans, spyware, keyloggers, back doors, etc. steal or manipulate business information and bring critical processes to a standstill. Often, business secrets are also transferred easily to attackers via protocols such as HTTPS, because this data traffic is still a closed book for many security products.

Companies used to provide Internet connectivity through central proxy and content security gateways to assure consistent security policies, with state-of-the-art antivirus patterns. While this concept has proved reliable, it is also costly since the WAN infrastructure is based either on dedicated WAN networks (e.g., MPLS) with high bandwidth costs or cheaper VPN via public Internet. Routing all Internet traffic to headquarters and then exiting to the Internet results in high data volumes and "traffic-jams" for business-critical applications between branch offices and headquarters.

OUR SOLUTION FOR YOUR CONTENT SECURITY & SECURE WEB ACCESS NEEDS

Barracuda NG Firewalls provide comprehensive and coordinated content security functionalities so that web- and email-based risks and spam are reliably repelled at the perimeter. The Barracuda NG Firewall also detects malicious software that is hidden, embedded, or repeatedly compressed – and with Release 5.4.3 (scheduled for Q1 2014), it will even detect malware that has been hidden in SSL-encrypted HTTPS. The Barracuda NG Firewall uses the world's most comprehensive and permanently updated URL database to block connections to undesirable or potentially dangerous web sites. Data communication is thus protected at every level – a significant prerequisite for smooth and unobstructed business processes and stable productivity.

Using Barracuda NG Firewalls, companies can also use distributed secure web access at every branch office without loss of security and manageability for all remote located content security infrastructure. The powerful Barracuda NG Control Center and comprehensive content security functionality not only assure high security, they also boost overall efficiency and bring significant cost cuts.

FEATURE	BENEFIT
Barracuda NG Malware Protection	Second security layer at the perimeter to protect against spyware, viruses, and other malicious code
Barracuda NG Web Filter	Stops access to inappropriate or offensive websites
Integrated with Barracuda Web Security Service	Malware and content scanning in the cloud enables secure wire speed Internet access for remote locations and low-end units
Spam Filter	Protection from unwanted emails in your company network
High availability and use of different providers	Uninterrupted Internet access even during device or line failure
Real-time accounting	Retrieve data on individual or collective gateway activities
Troubleshooting & diagnostics	Easy troubleshooting and disaster recovery
Centralized antvirus pattern updates and version monitoring for branch offices	Control over a global anti-malware infrastructure
Full content security enhancements at all branch offices, centrally managed	Transformation of secure web access into an inherent part of the network infrastructure
Lifecycle management	Flexible administration that suits your company strategy Auditable traceability of configuration changes

BUSINESS ALIGNMENT

Increased efficiency based on channelled Internet usage and faster web access as well as comprehensive protection for Internet users around the globe. Employee satisfaction is also improved.

Barracuda NG Firewalls also prevent companies from unintentional involvement in cyber crime.

COST EFFICIENCY

- **Line Costs** - Use less expensive, decentralised bandwidth that offers increased availability and cost savings of up to 90%.
- **Lifecycle Costs** - Extendable Barracuda NG Firewalls offer companies sustainable investment protection. Central management covers centralised update management and comprehensive hardware replacement options.
- **Deployment Costs** - As a result of the Barracuda NG Firewall's fully integrated functions, rollouts only take a couple of hours instead of weeks.
- **Operating Costs** - Industry-leading centralized management lets you save significant time and effort compared to other solutions.
- **License and Hardware Costs** - Unique subscription model ensures that companies don't incur any surprise expenses.

SOLUTION ADVANTAGE 4

Central Management of the Entire Security Infrastructure

Security-conscious companies and managed security providers are confronted with a rapidly increasing number of gateways in their networks. These gateways have to be rolled out, configured, and continuously monitored. It is irrelevant how convenient the installation and ongoing maintenance are for a single gateway. Managing hundreds or thousands of systems is definitely a cost-intensive process that requires an enormous effort by qualified staff.

At the same time a corporate security policy must be maintained constantly at all gateways. As a result, the individual system configurations' are increasingly interwoven. Even just a straight forward site-to-site VPN tunnel presumes that at least two gateways are coordinated with each other. In larger environments with hundreds of such installations, this may lead to massive configuration and operational overhead.

OUR SOLUTION FOR YOUR SECURITY MANAGEMENT NEEDS

The Barracuda NG Control Center combines the advantages of a device- and policy-based management architecture. Administrators are kept informed at all times on the status of remote gateways and can consistently implement centrally defined security rules at every location. Furthermore, the integrated revision control system increases auditing ease for the infrastructure and cuts overheads.

BUSINESS ALIGNMENT

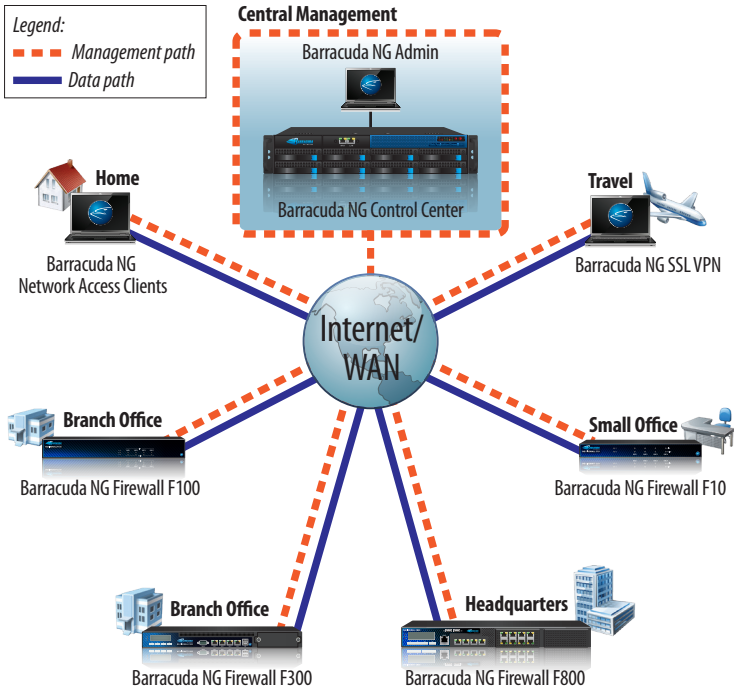
Finance and accounting processes are supported by central control of infrastructure resource use. Central and efficient management accelerates the implementation of integration processes. Change traceability protects from faulty operations and any possible negative impacts.

COST EFFICIENCY

Management is the most critical expense factor of any security infrastructure.

Customers report that time and effort needed for deploying, upgrading, extending and operating Barracuda NG Firewalls has decreased by a factor of three to six compared with other products.

- **Lifecycle Costs** - Central lifecycle management drastically decreases time spent for deploying patches. Even devices with differing software versions can be centrally managed at the same time.
- **Deployment Costs** - Rollouts of hundreds of devices within a few weeks instead of months.
- **Operating Costs** -The unique and versatile features of Barracuda NG Control Centers and Barracuda NG Firewalls dramatically lower operating costs.



Typical deployment of Barracuda NG Firewall with centralized management

FEATURE	BENEFIT
Central management	Increased security and reduced costs.
Revision control system	Ideal revision capabilities and simple restoration of proven configurations.
GTI (Graphical Tunnel Interface) for VPN configurations	Simple drag & drop configuration and visualization of VPN tunnels.
Scalability	The Barracuda NG Control Center grows with organizational needs and requirements.
Fast disaster recovery	The Barracuda NG Control Center can be restored in just a few minutes with only two configuration files.

TECHNOLOGY ADVANTAGE 1

Application Control - Regain Control of the Network

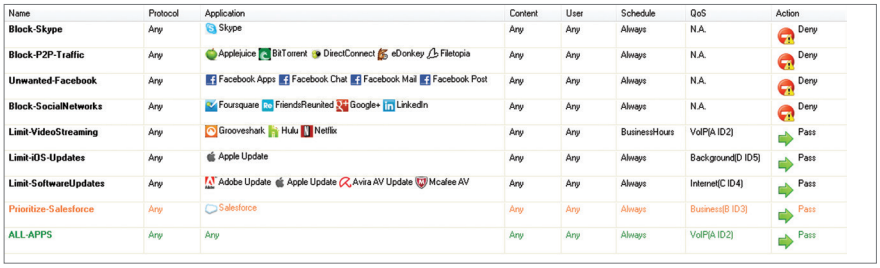
By integrating Application Control into its core firewall engine, the Barracuda NG Firewall can identify and enforce security policies on more sophisticated applications that may hide their traffic inside otherwise "safe" port/protocols such as HTTP. Instant messaging (IM) and and peer-to-peer (P2P) applications are particularly notorious for opening backdoors into the network and spreading malicious content, thus ultra-reliable application control for policy enforcement is required.

The Barracuda NG Firewall provides a powerful and extremely reliable detection and classification of network traffic-based applications and protocols by combining Deep Packet Inspection (DPI) and behavioral traffic analysis - even if the protocols are using advanced obfuscation, port hopping techniques, or encryption.

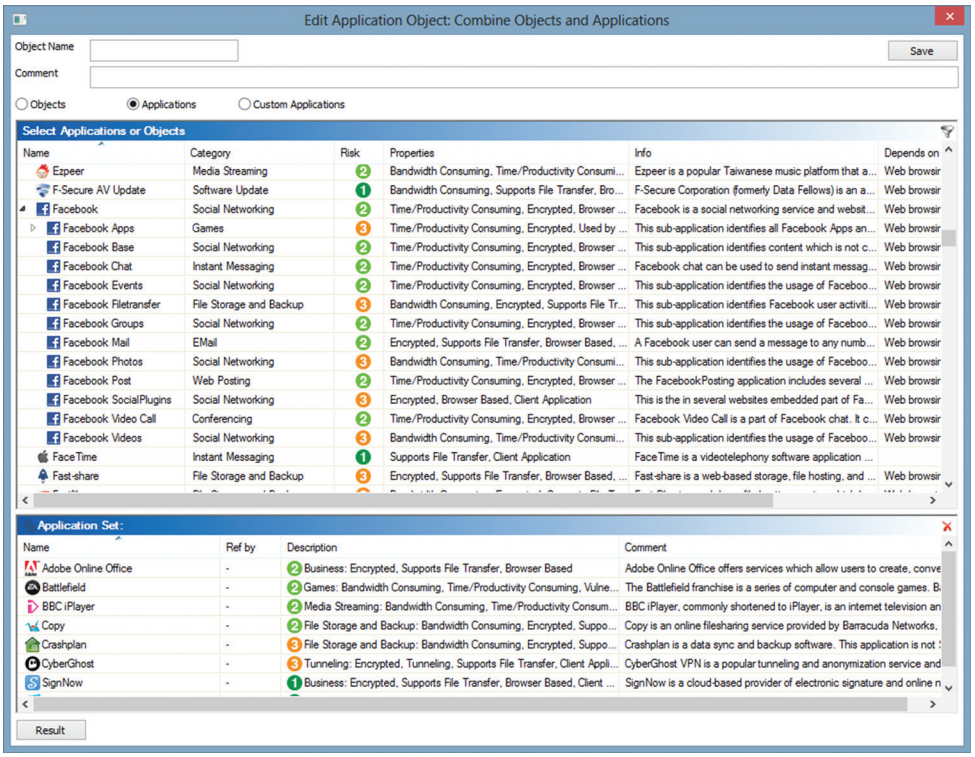
GRANULAR APPLICATION CONTROL

The Barracuda NG Firewall allows the creation of dynamic application policies and allows establishing acceptable use policies for users and groups by application, application category, location, and time of day. In a nutshell it enables administrators to:

- block unwanted applications for certain users or groups
- control and throttle acceptable traffic
- preserve bandwidth and speed-up business critical applications to ensure business continuity
- enable or disable specific application sub-functions (e.g., Facebook Chat, YouTube postings, or MSN file transfers)
- intercept SSL-encrypted application traffic



Create granular application usage polices based on applications, users, groups, and time, regardless of source, destination, port or protocol



Intuitive configuration of applications objects allows easy control and enforcement of more than 1,200 Web 2.0 and business applications

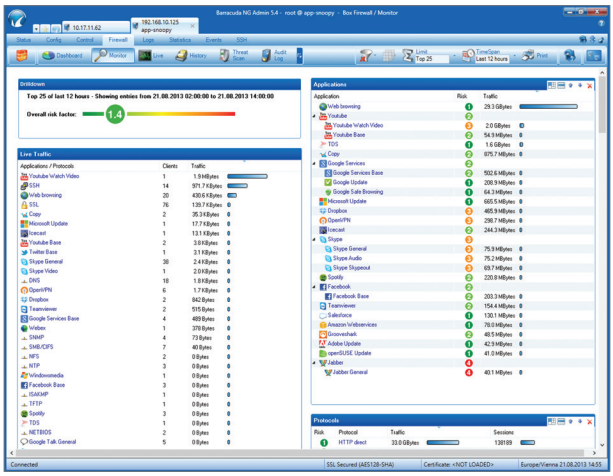
ACHIEVE FULL USER-BASED VISIBILITY AND CONTROL

The Barracuda NG Firewall provides seamless integration with all authentication methods (e.g. Active Directory, RADIUS, LDAP/s, etc.) to facilitate policy configuration based on the actual user and group information and not just IP addresses.

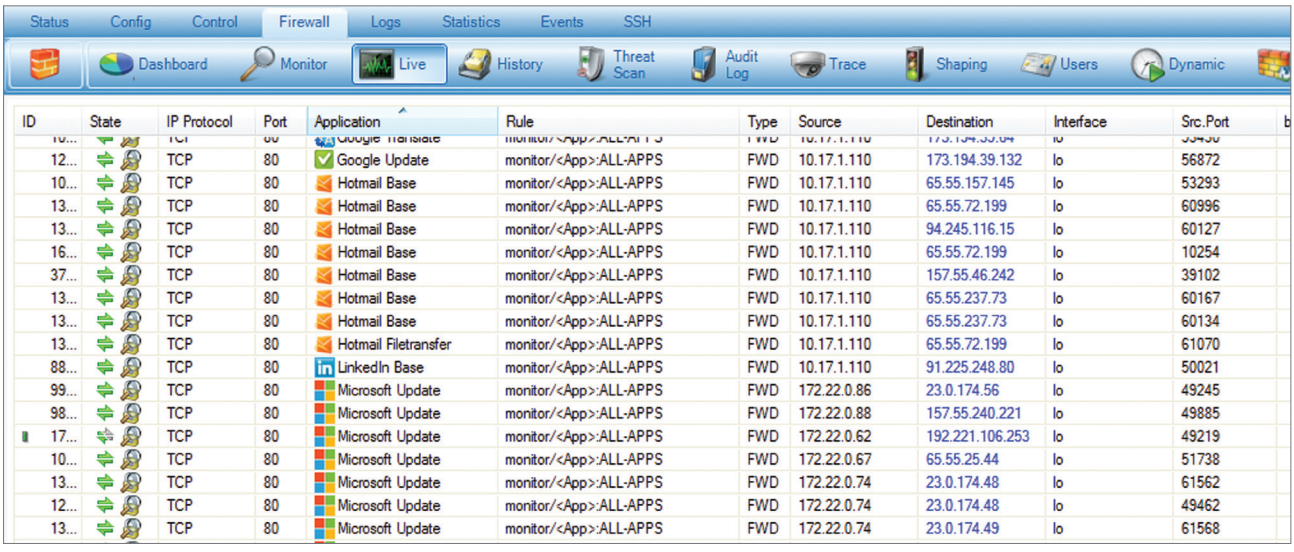
RICH REPORTING AND DRILL-DOWN CAPABILITIES

Real-time and historical application visibility shows application traffic on the corporate network for intelligent adjustment of the corporate application use policies.

Information on exporting reports is available in section "Barracuda NG Report Creator" on page 26.



New protocol and application definition updates are provided via Energize Updates to ensure continuous effectiveness of the Application Control capabilities.



ID	State	IP Protocol	Port	Application	Rule	Type	Source	Destination	Interface	Src.Port
12...		TCP	80	Google Update	monitor/<App>:ALL-APPS	FWD	10.17.1.110	173.194.39.132	lo	56872
10...		TCP	80	Hotmail Base	monitor/<App>:ALL-APPS	FWD	10.17.1.110	65.55.157.145	lo	53293
13...		TCP	80	Hotmail Base	monitor/<App>:ALL-APPS	FWD	10.17.1.110	65.55.72.199	lo	60996
13...		TCP	80	Hotmail Base	monitor/<App>:ALL-APPS	FWD	10.17.1.110	94.245.116.15	lo	60127
16...		TCP	80	Hotmail Base	monitor/<App>:ALL-APPS	FWD	10.17.1.110	65.55.72.199	lo	10254
37...		TCP	80	Hotmail Base	monitor/<App>:ALL-APPS	FWD	10.17.1.110	157.55.46.242	lo	39102
13...		TCP	80	Hotmail Base	monitor/<App>:ALL-APPS	FWD	10.17.1.110	65.55.237.73	lo	60167
13...		TCP	80	Hotmail Base	monitor/<App>:ALL-APPS	FWD	10.17.1.110	65.55.237.73	lo	60134
13...		TCP	80	Hotmail Filetransfer	monitor/<App>:ALL-APPS	FWD	10.17.1.110	65.55.72.199	lo	61070
88...		TCP	80	LinkedIn Base	monitor/<App>:ALL-APPS	FWD	10.17.1.110	91.225.248.80	lo	50021
99...		TCP	80	Microsoft Update	monitor/<App>:ALL-APPS	FWD	172.22.0.86	23.0.174.56	lo	49245
98...		TCP	80	Microsoft Update	monitor/<App>:ALL-APPS	FWD	172.22.0.88	157.55.240.221	lo	49885
17...		TCP	80	Microsoft Update	monitor/<App>:ALL-APPS	FWD	172.22.0.62	192.221.106.253	lo	49219
10...		TCP	80	Microsoft Update	monitor/<App>:ALL-APPS	FWD	172.22.0.67	65.55.25.44	lo	51738
13...		TCP	80	Microsoft Update	monitor/<App>:ALL-APPS	FWD	172.22.0.74	23.0.174.48	lo	61562
12...		TCP	80	Microsoft Update	monitor/<App>:ALL-APPS	FWD	172.22.0.74	23.0.174.48	lo	49462
13...		TCP	80	Microsoft Update	monitor/<App>:ALL-APPS	FWD	172.22.0.74	23.0.174.49	lo	61568

The live view provides real-time visibility of application usage, current sessions, and user activity. Any network traffic can be immediately terminated or reprioritized by changing the respective QoS class.

Note:

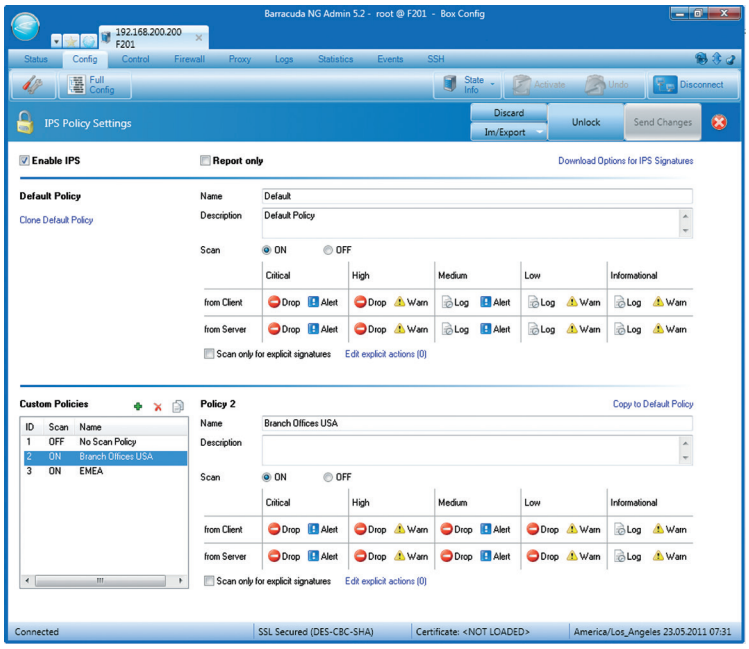
A valid Energize Updates subscription is required to enable the full feature set of Application Control. Without valid Energize Updates, Application Control will detect application traffic on the network but customers will not be able to block or throttle traffic based on the successful detection.

TECHNOLOGY ADVANTAGE 2

Intrusion Detection & Prevention System - Complete and Comprehensive Real-Time Network Protection

OVERVIEW

The Barracuda NG Firewall Intrusion Detection and Prevention System (IDS/IPS) can strongly enhance network security by providing complete and comprehensive real-time network protection against a broad range of network threats, vulnerabilities, exploits, and exposures in operating systems, applications, and databases preventing network attacks such as SQL injections or buffer overflows. In addition, the IDS/IPS keeps spyware and worms out of the corporate network to prevent fraud and maintain strict privacy. By constantly monitoring network and system activities for malicious or suspicious behavior, the Barracuda NG Firewall can react in real-time to block and prevent such activities. In case an attack is detected, the Barracuda NG Firewall can drop the offending packets while still allowing all other traffic to pass, or just detect and log the intrusion attempt. Depending on the severity of the threat, highly granular actions can be assigned on a per firewall rule base enabling the Barracuda NG Firewall to allow, block, or log questionable traffic based on severity, location, user/group, type, and application.



Easy-to-use IDS/IPS policy settings

ROBUST PROTECTION AGAINST A MULTITUDE OF THREATS & EXPLOITS

The Barracuda NG Firewall provides immediate out-of-the box protection against a vast number of exploits and vulnerabilities in operating systems, applications, and databases to prevent network attacks such as:

- SQL Injections
- Arbitrary Code Executions
- Access Control Attempts and Privilege Escalations
- Cross-Site Scripting
- Buffer Overflows
- Denial of Service (DoS) and Distributed Denial of Service (DDos) Attacks
- Directory Traversal Attempts
- Probing and Scanning Attempts
- Backdoor Attacks, Trojans, Rootkits, Viruses, Worms and Spywares

COUNTERING IPS EVASION AND OBFUSCATION TECHNIQUES

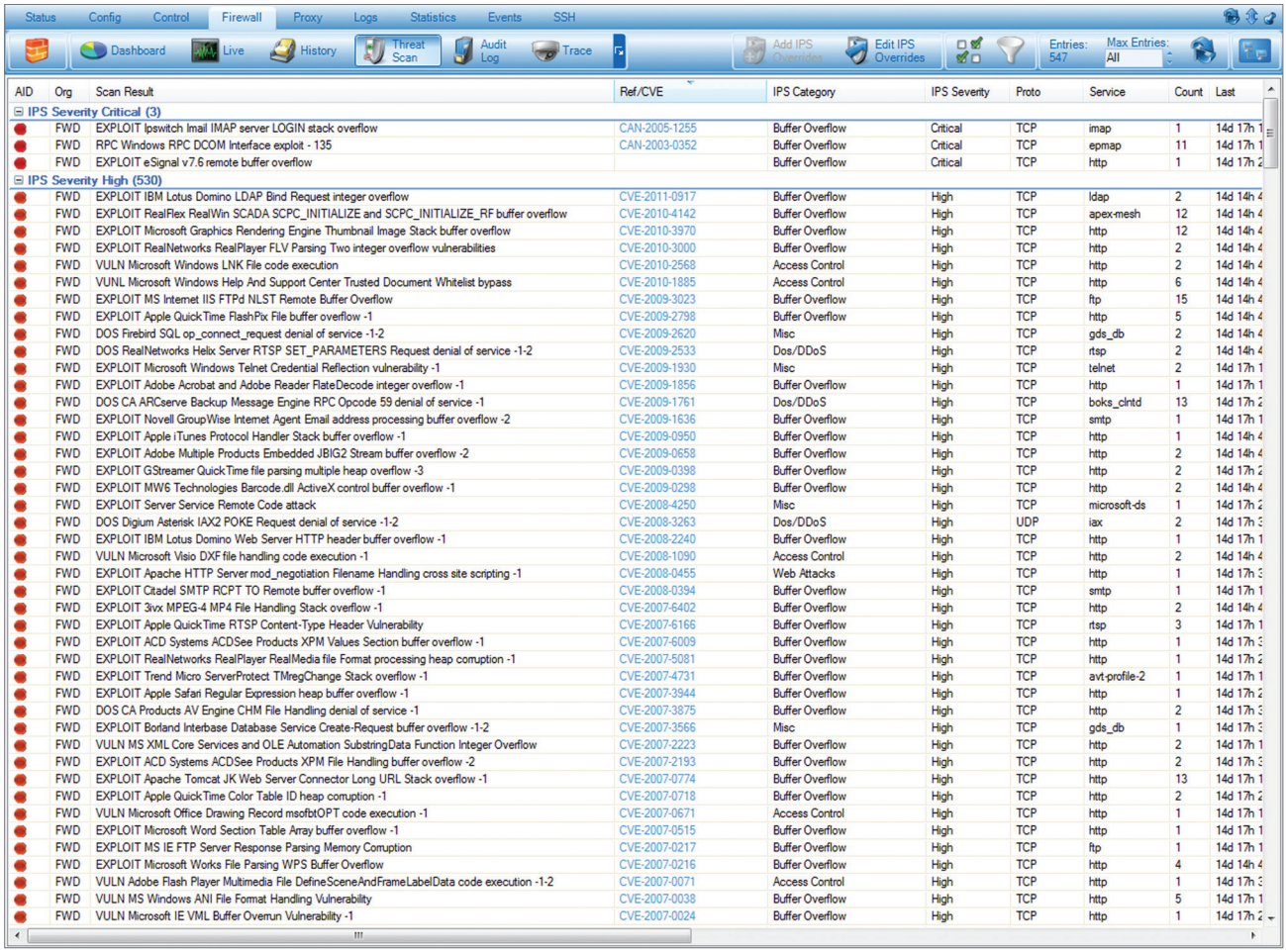
The Barracuda NG Firewall is able to identify and to block the advanced evasion attempts and obfuscation techniques that are widely used by attackers to circumvent and trick traditional signature based intrusion prevention systems such as

- Packet Anomalies
- IP Fragmentation
- TCP Stream Reassembly
- RPC Defragmentation
- FTP Evasion Protection
- URL Decoding
- HTML Decoding and Decompression
- TCP Split Handshake Protection

ADDITIONAL NETWORK PROTECTION TECHNIQUES

In addition to the comprehensive intrusion pattern database and the advanced anti-evasion countermeasures, the Barracuda NG Firewall offers a wide range of transport layer protection mechanisms such as:

- IP Spoofing Protection
- Portscan and Sniffing Protection
- TCP SYN Flood Protection
- ICMP Flood Protection
- Duplicate Local IP Detection
- Resource Exhaustion Protection
- ARP Spoofing and Trashing Protection



AID	Org	Scan Result	Ref/CVE	IPS Category	IPS Severity	Proto	Service	Count	Last
IPS Severity Critical (3)									
	FWD	EXPLOIT Ipswitch Imail IMAP server LOGIN stack overflow	CAN-2005-1255	Buffer Overflow	Critical	TCP	imap	1	14d 17h 1
	FWD	RPC Windows RPC DCOM Interface exploit - 135	CAN-2003-0352	Buffer Overflow	Critical	TCP	epmap	11	14d 17h 1
	FWD	EXPLOIT eSignal v7.6 remote buffer overflow		Buffer Overflow	Critical	TCP	http	1	14d 17h 2
IPS Severity High (530)									
	FWD	EXPLOIT IBM Lotus Domino LDAP Bind Request integer overflow	CVE-2011-0917	Buffer Overflow	High	TCP	ldap	2	14d 14h 4
	FWD	EXPLOIT RealFlex RealWin SCADA SCPC_INITIALIZE and SCPC_INITIALIZE_RF buffer overflow	CVE-2010-4142	Buffer Overflow	High	TCP	apex-mesh	12	14d 14h 4
	FWD	EXPLOIT Microsoft Graphics Rendering Engine Thumbnail Image Stack buffer overflow	CVE-2010-3970	Buffer Overflow	High	TCP	http	12	14d 14h 4
	FWD	EXPLOIT RealNetworks RealPlayer FLV Parsing Two integer overflow vulnerabilities	CVE-2010-3000	Buffer Overflow	High	TCP	http	2	14d 14h 4
	FWD	VULN Microsoft Windows LNK File code execution	CVE-2010-2568	Access Control	High	TCP	http	2	14d 14h 4
	FWD	VUNL Microsoft Windows Help And Support Center Trusted Document Whitelist bypass	CVE-2010-1885	Access Control	High	TCP	http	6	14d 14h 4
	FWD	EXPLOIT MS Internet IIS FTPd NLST Remote Buffer Overflow	CVE-2009-3023	Buffer Overflow	High	TCP	ftp	15	14d 14h 4
	FWD	EXPLOIT Apple QuickTime FlashPix File buffer overflow -1	CVE-2009-2798	Buffer Overflow	High	TCP	http	5	14d 14h 4
	FWD	DOS Firebird SQL op_connect_request denial of service -1-2	CVE-2009-2620	Misc	High	TCP	gds_db	2	14d 14h 4
	FWD	DOS RealNetworks Helix Server RTSP SET_PARAMETERS Request denial of service -1-2	CVE-2009-2533	Dos/DDoS	High	TCP	rtsp	2	14d 14h 4
	FWD	EXPLOIT Microsoft Windows Telnet Credential Reflection vulnerability -1	CVE-2009-1930	Misc	High	TCP	telnet	2	14d 17h 1
	FWD	EXPLOIT Adobe Acrobat and Adobe Reader FlateDecode integer overflow -1	CVE-2009-1856	Buffer Overflow	High	TCP	http	1	14d 17h 1
	FWD	DOS CA ARCserve Backup Message Engine RPC Opcode 59 denial of service -1	CVE-2009-1761	Dos/DDoS	High	TCP	boks_clntd	13	14d 17h 2
	FWD	EXPLOIT Novell GroupWise Internet Agent Email address processing buffer overflow -2	CVE-2009-1636	Buffer Overflow	High	TCP	smtp	1	14d 17h 1
	FWD	EXPLOIT Apple iTunes Protocol Handler Stack buffer overflow -1	CVE-2009-0950	Buffer Overflow	High	TCP	http	1	14d 14h 4
	FWD	EXPLOIT Adobe Multiple Products Embedded JBIG2 Stream buffer overflow -2	CVE-2009-0658	Buffer Overflow	High	TCP	http	2	14d 14h 4
	FWD	EXPLOIT GStreamer QuickTime file parsing multiple heap overflow -3	CVE-2009-0398	Buffer Overflow	High	TCP	http	2	14d 17h 2
	FWD	EXPLOIT MW6 Technologies Barcode.dll ActiveX control buffer overflow -1	CVE-2009-0298	Buffer Overflow	High	TCP	http	2	14d 14h 4
	FWD	EXPLOIT Server Service Remote Code attack	CVE-2008-4250	Misc	High	TCP	microsoft-ds	1	14d 17h 2
	FWD	DOS Digium Asterisk IAX2 POKE Request denial of service -1-2	CVE-2008-3263	Dos/DDoS	High	UDP	iax	2	14d 17h 3
	FWD	EXPLOIT IBM Lotus Domino Web Server HTTP header buffer overflow -1	CVE-2008-2240	Buffer Overflow	High	TCP	http	1	14d 17h 1
	FWD	VULN Microsoft Visio DXF file handling code execution -1	CVE-2008-1090	Access Control	High	TCP	http	2	14d 14h 4
	FWD	EXPLOIT Apache HTTP Server mod_negotiation Filename Handling cross site scripting -1	CVE-2008-0455	Web Attacks	High	TCP	http	1	14d 17h 3
	FWD	EXPLOIT Citadel SMTP RCPT TO Remote buffer overflow -1	CVE-2008-0394	Buffer Overflow	High	TCP	smtp	1	14d 17h 1
	FWD	EXPLOIT 3vx MPEG-4 MP4 File Handling Stack overflow -1	CVE-2007-6402	Buffer Overflow	High	TCP	http	2	14d 14h 4
	FWD	EXPLOIT Apple QuickTime RTSP Content-Type Header Vulnerability	CVE-2007-6166	Buffer Overflow	High	TCP	rtsp	3	14d 17h 1
	FWD	EXPLOIT ACD Systems ACDSee Products XPM Values Section buffer overflow -1	CVE-2007-6009	Buffer Overflow	High	TCP	http	1	14d 17h 3
	FWD	EXPLOIT RealNetworks RealPlayer RealMedia file Format processing heap corruption -1	CVE-2007-5081	Buffer Overflow	High	TCP	http	1	14d 17h 2
	FWD	EXPLOIT Trend Micro ServerProtect TMregChange Stack overflow -1	CVE-2007-4731	Buffer Overflow	High	TCP	avt-profile-2	1	14d 17h 1
	FWD	EXPLOIT Apple Safari Regular Expression heap buffer overflow -1	CVE-2007-3944	Buffer Overflow	High	TCP	http	1	14d 17h 2
	FWD	DOS CA Products AV Engine CHM File Handling denial of service -1	CVE-2007-3875	Buffer Overflow	High	TCP	http	2	14d 17h 3
	FWD	EXPLOIT Borland Interbase Database Service Create-Request buffer overflow -1-2	CVE-2007-3566	Misc	High	TCP	gds_db	1	14d 17h 3
	FWD	VULN MS XML Core Services and OLE Automation SubstringData Function Integer Overflow	CVE-2007-2223	Buffer Overflow	High	TCP	http	2	14d 17h 1
	FWD	EXPLOIT ACD Systems ACDSee Products XPM File Handling buffer overflow -2	CVE-2007-2193	Buffer Overflow	High	TCP	http	2	14d 17h 3
	FWD	EXPLOIT Apache Tomcat JK Web Server Connector Long URL Stack overflow -1	CVE-2007-0774	Buffer Overflow	High	TCP	http	13	14d 17h 1
	FWD	EXPLOIT Apple QuickTime Color Table ID heap corruption -1	CVE-2007-0718	Buffer Overflow	High	TCP	http	2	14d 17h 2
	FWD	VULN Microsoft Office Drawing Record msofbtOPT code execution -1	CVE-2007-0671	Access Control	High	TCP	http	1	14d 17h 1
	FWD	EXPLOIT Microsoft Word Section Table Array buffer overflow -1	CVE-2007-0515	Buffer Overflow	High	TCP	http	1	14d 17h 1
	FWD	EXPLOIT MS IE FTP Server Response Parsing Memory Corruption	CVE-2007-0217	Buffer Overflow	High	TCP	ftp	1	14d 17h 1
	FWD	EXPLOIT Microsoft Works File Parsing WPS Buffer Overflow	CVE-2007-0216	Buffer Overflow	High	TCP	http	4	14d 14h 4
	FWD	VULN Adobe Flash Player Multimedia File DefineSceneAndFrameLabelData code execution -1-2	CVE-2007-0071	Access Control	High	TCP	http	1	14d 17h 3
	FWD	VULN MS Windows ANI File Format Handling Vulnerability	CVE-2007-0038	Buffer Overflow	High	TCP	http	5	14d 17h 1
	FWD	VULN Microsoft IE VML Buffer Overrun Vulnerability -1	CVE-2007-0024	Buffer Overflow	High	TCP	http	1	14d 17h 2

The threat scan view displays all events related to IDS/IPS and Application Control

AUTOMATIC SIGNATURE UPDATES

As part of the Barracuda Energize Updates subscription, automatic signature updates are delivered on a weekly schedule or on an emergency basis to ensure that the Barracuda NG Firewall is constantly up-to-date. If the firewall unit is centrally managed, the pattern updates are conveniently distributed by the Barracuda NG Control Center.

> ***Note:***
> *A valid Energize Updates subscription is required to enable IDS/IPS and to receive automatic signature updates.*

TECHNOLOGY ADVANTAGE 3

Management Concept of Barracuda NG Firewall

Barracuda NG Admin is a simple and easy-to-use graphical configuration and management application that operates on all current Microsoft operating systems (Windows XP, Windows Vista, Windows 7, and Windows 8 - requires .NET). All configuration changes are collected locally and only need to be activated when needed. With Barracuda NG Admin, it is possible to manage and configure multiple Barracuda NG Firewalls simultaneously by directly connecting to the appliance and executing configuration changes locally.

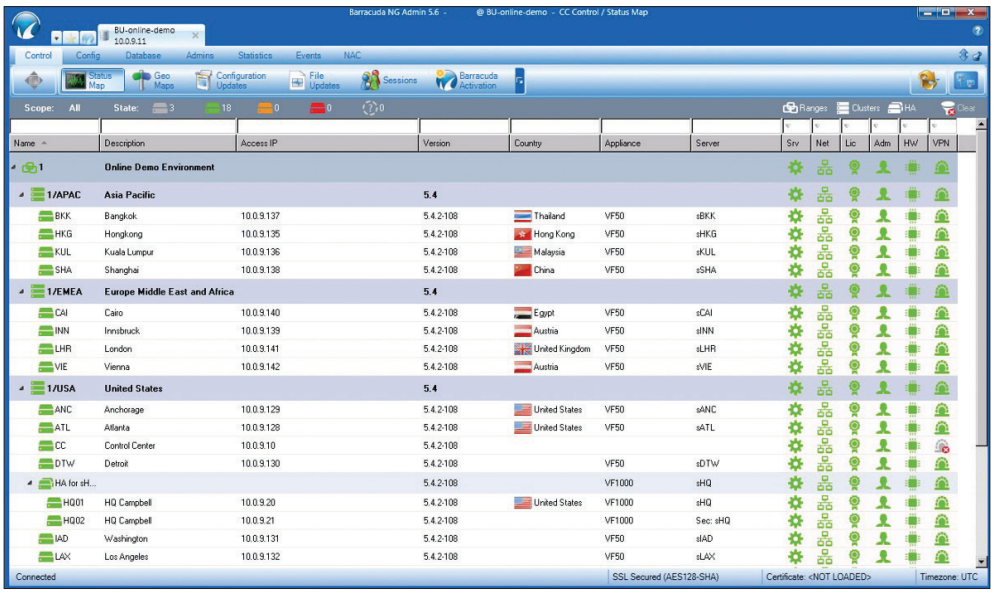
The dashboard displays a live view on a selection of important status and statistics data such as top application usage, detected intrusion events, number of active sessions, etc.

KEY BENEFITS

- No installation needed
- All functions of the Barracuda NG Firewall can be configured and managed via the graphical user interface
- Same look and feel whether a single Barracuda NG Firewall or thousands managed via Barracuda NG Control Centers
- Simultaneous access to multiple gateways
- Admin private key management
- Trust verification of accessed boxes
- Integrated SSH/SCP client
- Integrated web interface for access of other Barracuda products
- Integrated command-line interface for optional scripting purposes
- Encrypted communication (SSL, AES-128)
- Fast user interface that responds without lag allowing quick and efficient configuration
- Configuration changes may be collected and applied in bulk at a later time

Compatible with

Designed for Microsoft® Windows® XP Windows® 2000 · CERTIFIED FOR Windows Vista™ · Compatible with Windows 7 · Windows 8 Compatible



The Status Map displays an overview of all centrally managed Barracuda NG Firewall gateways.

Model Comparison

for the Barracuda NG Firewall

With hardware models available for small branch offices as well as large headquarters and data centers, and a corresponding offering of virtual appliances, the Barracuda NG Firewall is designed for deployment across the entire enterprise.

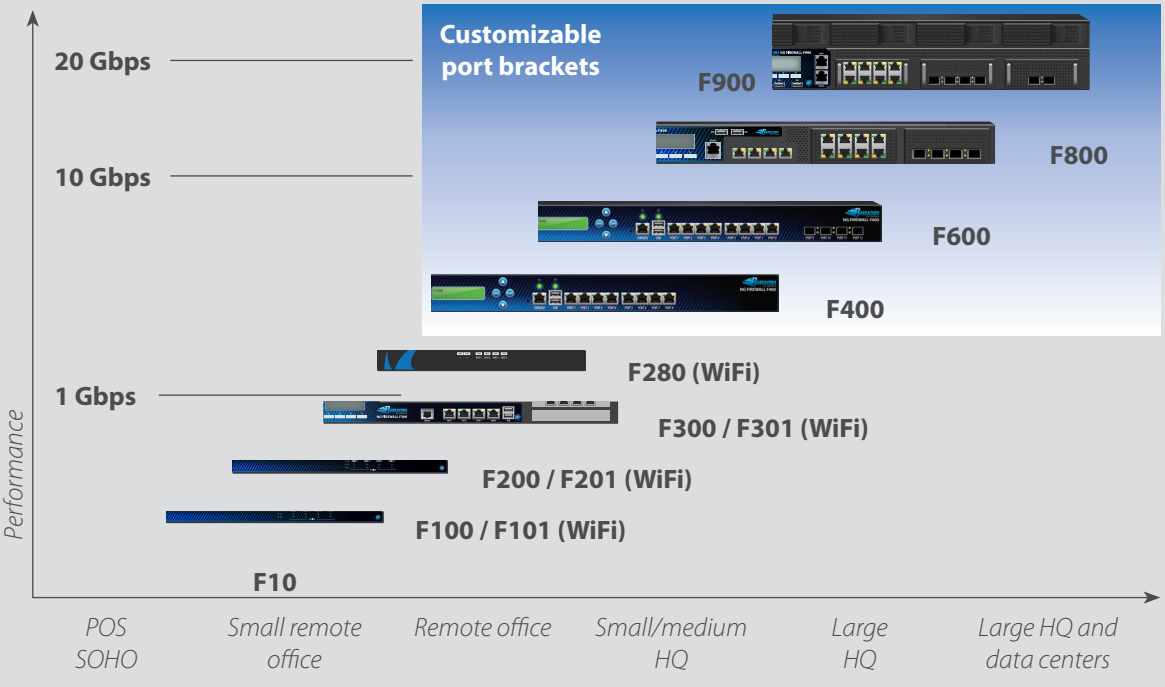
MODEL COMPARISON	F10	F100/ F101	F200/ F201	F280	F300/ F301	F400	F600	F800	F900	VFX [1]
CAPACITY										
Firewall Throughput [2]	300 Mbps	300 Mbps	400 Mbps	1.3 Gbps	550 Mbps	3.9 Gbps	5.7 Gbps	10.0 Gbps	21.0 Gbps [3]	N/A [5]
VPN Throughput [4]	85 Mbps	85 Mbps	120 Mbps	310 Mbps	160 Mbps	700 Mbps	1.6 Gbps	2.2 Gbps	3.8 Gbps	N/A [5]
IPS Throughput [2]	60 Mbps	60 Mbps	80 Mbps	450 Mbps	90 Mbps	900 Mbps	2.6 Gbps	3.1 Gbps	4.7 Gbps	N/A [5]
Concurrent Sessions	2,000	8,000	35,000	100,000	70,000	300,000	400,000	500,000	1,000,000	N/A [5]
New Sessions/s	1,000	1,500	2,000	8,500	2,500	16,000	35,000	45,000	100,000	N/A [5]
Firewall Users	No limit	No limit	No limit	No limit	No limit	No limit	No limit	No limit	No limit	Limited by capacity and core support
Site-to-Site VPN Tunnels	No limit	No limit	No limit	No limit	No limit	No limit	No limit	No limit	No limit	No limit
Barracuda VPN Clients [recommended]	No limit [5]	No limit [5]	No limit [25]	No limit [50]	No limit [25]	No limit [50]	No limit [100]	No limit [500]	No limit [1,000]	Limited by capacity and core support
BARRACUDA NG FIREWALL NETWORK SECURITY FEATURES										
Stateful Firewall	●	●	●	●	●	●	●	●	●	●
Application Control	●	●	●	●	●	●	●	●	●	●
IPS	●	●	●	●	●	●	●	●	●	●
IPsec VPN	●	●	●	●	●	●	●	●	●	●
Web Proxy	-	●	●	●	●	●	●	●	●	●
Barracuda Web Filter	-	●	●	●	●	●	●	●	●	●
Mail Gateway	-	-	●	●	●	●	●	●	●	●
Spam Filter	-	-	●	●	●	●	●	●	●	●
FTP Gateway	-	-	●	●	●	●	●	●	●	●
SSH Gateway	-	-	●	●	●	●	●	●	●	●
Barracuda NG Web Security Service	Optional									
Barracuda NG Web Filter	-	Optional [6]	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Barracuda NG Malware Protection	-	Optional [6]	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Barracuda SSL VPN & NAC	-	-	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
INTELLIGENT TRAFFIC FLOW CONTROL										
Traffic Shaping (incl. inside VPN tunnels)	●	●	●	●	●	●	●	●	●	●
Quality of Service (QoS)	●	●	●	●	●	●	●	●	●	●
Automatic Backup Uplink Activation	●	●	●	●	●	●	●	●	●	●

MODEL COMPARISON	F10	F100/ F101	F200/ F201	F280	F300/ F301	F400	F600	F800	F900	VFX [1]
INTELLIGENT TRAFFIC FLOW CONTROL (CONTINUED)										
Automatic Activation of Alternate QoS Policy upon Main WAN Failure and Backup-Uplink Activation	●	●	●	●	●	●	●	●	●	●
Firewall Compression	●	●	●	●	●	●	●	●	●	●
VPN Compression	●	●	●	●	●	●	●	●	●	●
Data Deduplication	-	-	● [7]	●	● [7]	●	●	●	●	●
Link Aggregation	●	●	●	●	●	●	●	●	●	●
INFRASTRUCTURE										
DHCP Server	●	●	●	●	●	●	●	●	●	●
DHCP Relay	●	●	●	●	●	●	●	●	●	●
DNS Server	●	●	●	●	●	●	●	●	●	●
WiFi Access Point	-	F101	F201	●	F301	-	-	-	-	-
3G/UMTS Data Modem option (USB)	●	●	●	●	●	●	●	●	●	-
SNMP	●	●	●	●	●	●	●	●	●	●
OSPF/RIP/BGP	●	●	●	●	●	●	●	●	●	●
BGP	●	●	●	●	●	●	●	●	●	●
Realtime Accounting	-	-	●	●	●	●	●	●	●	●

1 *Virtual appliance models are available in 25, 50, 100, 250, 500, and unlimited user levels.*
Note that the virtual appliance models VF25-VF1000 are limited to two CPU cores. Model VF2000 supports 4 CPU cores, model VF4000 supports 8 CPU cores, and model VF8000 supports 16 CPU cores.
2 *Measured with large packets (MTU1500)*
3 *Measured with large packets (MTU9000)*
4 *VPN throughput using AES-128 NOHASH*
5 *Depends on hardware*
6 *While it is technically feasible and fully supported to run Barracuda NG Malware Protection and Barracuda Web Filter on this unit, Barracuda Networks recommends offloading Malware Protection and Web Filtering functions to the Barracuda Web Security Service (cloud service).*
7 *Recommended only for small remote locations and not in conjunction with anti-malware or web filtering at the same time.*

Sizing Considerations

Choosing the correct model depends on the actual traffic patterns, web usage behavior, and available uplink bandwidth. For help sizing the appropriate Barracuda NG Firewall appliance, customers should contact a Barracuda Networks sales engineer.



Subscriptions

for the Barracuda NG Firewall

AVAILABILITY MATRIX

BARRACUDA NG FIREWALL	F10	F100/ F101	F200/ F201	F280	F300/ F301	F400	F600	F800	F900	VX
Energize Updates [1]	Optional									
Instant Replacement [2]	Optional									
Premium Support [3]	Optional									
Barracuda NG Web Security Service	Optional									
Barracuda NG Malware Protection		Optional								
Barracuda NG Web Filter		Optional								
Barracuda NG SSL VPN and NAC			Optional							

1 *Energize Updates are also available for Barracuda NG Control Center hardware and virtual appliances. Purchase of one year of Energize Updates subscription is required for every new unit.*
2 *Instant Replacement subscription is also available for Barracuda NG Control Center models C400 and C610.*
3 *Premium Support is also available for Barracuda NG Control Center hardware and virtual appliances.*

High Availability ("HA"):
All subscriptions have to be licensed separately for the HA partner. For further information please contact your local partner or Barracuda sales at sales@barracuda.com.

ENERGIZE UPDATES

This subscription provides:

- Firmware maintenance, which includes new firmware updates with feature enhancements and bug fixes as they are made available.
- Security updates to patch or repair any security vulnerabilities.
- All released updates for the Application Control database.
- IPS signature and pattern updates.
- The Barracuda Web Filter
- Basic Support, which includes 24x7 email support and phone support between the hours of 9:00 a.m. and 5:00 p.m. Monday through Friday.

Note:
Energize Updatess are available for all Barracuda NG Firewall hardware and virtual models. Available as 1, 3, and 5 year subscriptions. Purchasing at least 1 year of Energize Updates is required with every Barracuda NG Firewall.

INSTANT REPLACEMENT

Provides an extended warranty, ships a replacement unit overnight upon notification of a failed unit, assists with data migration to new unit, and provides a RAID hard disk replacement as applicable.

In addition, the Instant Replacement service includes:

- Enhanced Support, which provides phone and email support 24x7.
- Hard disk replacement on Barracuda Networks models that have swappable RAID drives. Barracuda Networks will ship via standard shipping a hard disk replacement. Customer must return the failed hard disk to Barracuda Networks.
- After four years of continuous IR coverage, customer is entitled to a free hardware refresh.

Note:
Available for all Barracuda NG Firewall hardware models. Instant Replacement must be purchased within 60 days of hardware purchase and is a continuous subscription from date of activation. Available as 1, 3, and 5 year subscriptions.

PREMIUM SUPPORT

Barracuda Premium Support ensures that an organization's network is running at its peak performance by providing the highest level of 24x7 technical support for mission-critical environments. Customers will benefit from a dedicated account manager and a team of technical engineers who will provide fast resolution of high-priority support issues, ensuring that equipment maintains continuous uptime.

Note:
Available for all Barracuda NG Firewall hardware and virtual models. Premium Support for Barracuda NG Firewall hardware appliances can only be purchased in combination with Instant Replacement. Premium Support may be purchased on Barracuda NG Firewall virtual appliances without Instant Replacement. Available as 1, 3, and 5 year subscriptions. For more information on Premium Support please visit www.barracuda.com/support.

KEY BENEFITS

- 24x7 global support
- Priority response time to resolve mission-critical issues
- Service Level Agreements (SLAs) to guarantee that issues are resolved quickly
- Dedicated support team that is familiar with your environment
- Proactive monitoring for optimal performance

ON-SITE COLD SPARE UNIT

The cold spare unit provides a cold standby appliance of the same type as the main unit to Barracuda end customers. This cold standby unit can be activated quickly in case of hardware failure of the active unit. The cold standby appliance includes a "Cold Spare license" for the Barracuda NG Firewall firmware only, no productive use for firewalling or other functions possible. This way the appliance is firmware upgradeable to the patch level that corresponds to the main unit (fully licensed unit). If the main unit fails, the on-site cold spare unit may be used to temporarily host the license and configuration backup ("par" file, including the license) of the failed main unit for a period of up to 15 days.

If the failed unit is covered under Instant Replacement (IR) or within the warranty period, Barracuda Networks will ship a replacement unit of the same type as the failed unit to the customer. The former cold spare unit inherits the license features of the former main unit by a swap with a new license issued, effectively transforming the cold spare to the new main unit. The shipped unit includes a cold spare license and effectively becomes the new cold spare. The customer needs to ship the defective unit to Barracuda Networks or certify destruction. If the customer fails to do so, Barracuda reserves the right to charge the customer for a full Barracuda NG Firewall unit.

Content Security

for the Barracuda NG Firewall

BARRACUDA **WEB FILTER**

The Barracuda Web Filter enables highly granular, real-time visibility into online activity, broken down by individual users and applications, letting administrators create and enforce effective Internet content and access policies. The Barracuda Web Filter is included in the Energize Updates subscription.

KEY FEATURES

- Customizable blacklists and whitelists
- 95 content categories (for a detailed list, see page 56)
- Multiple category selection
- Temporal constraints
- User specific / group specific restrictions
- Online categorization lookup
- Persistent local cache
- Customizable block pages

Compatibility and Licensing:

Included with Energize Updates subscriptions for Barracuda NG Firewall models F100 and higher, as well as all Barracuda NG Firewall virtual appliances. Unlimited user license with a Barracuda NG Firewall hardware unit. For virtual appliances, the number of protected IPs (capacity) applies. In High Availability (HA) environments, each unit needs to be licensed separately. The Barracuda Web Filter and the Barracuda NG Web Filter cannot be run at the same time and have to be activated separately, one at a time on the Barracuda NG Firewall units.

BARRACUDA **NG WEB FILTER**

The Barracuda NG Web Filter enables highly granular, real-time visibility into online activity, broken down by individual users and applications, letting administrators create and enforce effective Internet content and access policies.

KEY FEATURES

- Customizable blacklists and whitelists
- Filter entire URL string beyond FQDN
- 69 content categories (for a detailed list, see page 57)
- Multiple category selection
- ~100 million entries
- ~100,000 new URL database entries per day
- Temporal constraints
- User specific / group specific restrictions
- Category database
- Local or online updates
- Hourly intervals or continuous updates
- Customizable block pages

Compatibility and Licensing:

Available for Barracuda NG Firewall models F100 and higher, as well as all Barracuda NG Firewall virtual appliances. Unlimited user license if purchased with a Barracuda NG Firewall hardware appliance. If purchased for a virtual appliance the number of protected IPs (capacity) applies.
Available as 1, 3, and 5 years subscriptions.
In High Availability (HA) environments each unit needs to be licensed separately.

BARRACUDA **NG MALWARE PROTECTION**

The Barracuda NG Malware Protection provides gateway-based protection against malware, viruses, spyware, and other unwanted programs inside SMTP, HTTP, POP3, and FTP traffic.

Compatibility and Licensing:
Available for Barracuda NG Firewall models F100 and higher, as well as all Barracuda NG Firewall virtual appliances. Unlimited user license if purchased with a Barracuda NG Firewall hardware appliance. If purchased for a virtual appliance the number of protected IPs (capacity) applies.
Available as 1, 3, and 5 years subscriptions.
In High Availability (HA) environments each unit needs to be licensed separately.

KEY FEATURES

- Configurable archive recursion depth
- Quarantine functionality for proxy
- Configurable unknown archive policy
- Configurable maximum archive size
- Archiver package support
- Office file-types support
- Proactive detection of new threats
- Advanced heuristics detection techniques
- Hundreds of thousands signatures
- Multiple signature updates per day

BARRACUDA **NG WEB SECURITY**

The Barracuda NG Web Security subscription option for Barracuda NG Firewall models F100 and higher includes the Barracuda NG Web Filter and Barracuda NG Malware protection, offering complete web security. Available as 1, 3, and 5 years subscriptions.

KEY FEATURES

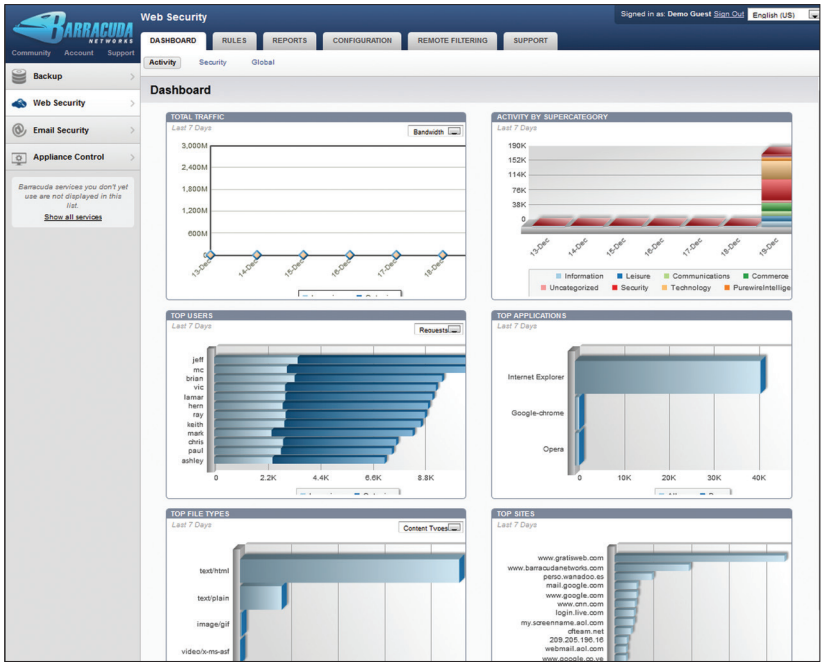
- Enables wire speed malware and content filtering
- Full web security even for low end NG Firewall units in remote locations
- Enables malware and content filtering without performance degradation of the Barracuda NG Firewall
- Malware signatures update continuously for fast response to new and known threats
- Advanced heuristics block unknown Web viruses and spyware
- AJAX-aware analysis detects malicious web apps and script-based attacks
- Full user awareness
- Centrally manageable
- Central reporting, drill down reports

BARRACUDA **WEB SECURITY SERVICE**

The Barracuda Web Security Service is a cloud-based web filtering and security service that quickly gives administrators all the information and policy enforcement tools needed to protect users from Internet threats, conserve network bandwidth, and filter content for compliance and productivity. The Barracuda NG Firewall is integrated with the Barracuda Web Security Service to enable malware scanning and content filtering in the cloud and benefit from its collaborative cache for an accelerated Internet experience. The Barracuda Web Security Service provides a multitude of summary reporting and analysis tools to drill down on the details of Internet traffic.

Compatibility and Licensing:

Available for Barracuda NG Firewall models F10 and higher, as well as all Barracuda NG Firewall Virtual Appliances. Requires the purchase of an additional Barracuda Web Security Service subscription BWUxxxa-w1/3/5 (US/CA) or BWUIxxxa-w1/3/5 (International). Barracuda Web Security Service subscriptions are based on per seat (user) licensing. Barracuda Web Security Service subscription seats not used in conjunction with Barracuda NG Firewall may be used for any of the other Barracuda Web Security Service deployment options like Web Security Agent Software or Direct Cloud Redirection.



The Barracuda Web Security Service dashboard provides a drill-down view of web activity across all the users in the organization regardless of location.

Network Access Clients

for the Barracuda NG Firewall

Every Barracuda NG Firewall unit supports an unlimited number of VPN clients at no extra cost. The optional Barracuda NG Firewall SSL VPN and NAC subscription adds a customizable and easy-to-use web-based SSL VPN as well as sophisticated Network Access Control (NAC) functionality.

NAC allows enforcement of minimum Windows client security prerequisites before being allowed access to the network or access to a quarantine network. Security posture can be specified according to available Windows patch level, availability of anti-virus and/or anti-spyware, and user ID. Access restrictions are enforced locally on the client by the centrally managed personal Windows firewall as well as at the gateway.

IPv6 SECURITY ENFORCEMENT

Besides providing full IPv6 support for the personal firewall, the Barracuda Network Access Client also introduces IPv6 Router Advertisement Guard, which monitors and controls IPv6 Router Advertisement (RA) messages of the IPv6 Neighbor Discovery Protocol. This effectively enables companies to protect against potential denial of service, Man-in-the-Middle, and malformed RA message attacks. Rogue Internet access points that may be appearing when using smartphones or other 3G devices connected to client machines are no longer advertised and thus sealed from the network.

Using existing Barracuda NG Firewall appliances, Barracuda Networks offers a ready-to-use Network Access Control framework without expensive investments into the basic network infrastructure.

All Barracuda Network Access Clients, as well as all Barracuda NG Firewall units acting as policy servers can be administered, monitored, and reviewed from a single Barracuda NG Control Center.

If the Barracuda NG Firewall is deployed as virtual appliance, then the respective capacity counter is used, e.g., the Barracuda NG Firewall VF25 provides up to 25 VPN clients, the Barracuda NG Firewall VF50 provides up to 50 VPN clients, and so on.

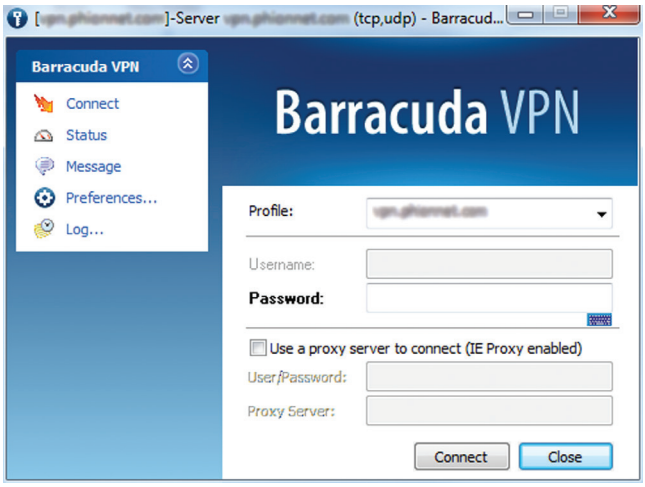
KEY BENEFITS

- Network Access based on client health status, patch level, or presence and update status of antivirus/anti-spyware options
- Blocks or quarantines unhealthy or unknown clients
- Provides the ability to create guest networks with limited or specially defined connectivity policies
- Auto-remediation functionality makes sure antivirus/anti-spyware options at the client are up to date
- Integrated Personal Firewall to enforce access restriction rules for programs and users
- Endpoint IPv6 Router Advertisement Guard
- Provides reporting on client health status
- Provides reporting on client VLAN & port connection locations

Compatible with

SOFTWARE FEATURES	VPN CLIENT	SSL VPN AND NAC
Availability	Server and unlimited clients included with hardware unit purchase price. If purchased for virtual appliances then capacity count applies.	Option priced according to hardware unit size. Unlimited clients serviced if purchased. If purchased for virtual appliances then capacity count applies.
VPN client	●	●
VPN client supports TCP 443 (SSL) encapsulation	●	●
Managed client firewall included	-	●
SSL VPN access included (via portal)	-	●
SSL VPN browser support	-	●
Transparent layer 3 SSL VPN access (initiated via portal)	-	IE, Firefox, Chrome, Safari
Network Access Control based on user credentials	-	●
Network Access Control based on machine health state (patch level, anti-malware present, anti- spyware present)	-	●
IPv6 router advertisement guard	●	●
Supported clients	Windows XP (32-bit only) Windows Vista (32 & 64-bit) Windows 7 (32 & 64-bit) Windows 8 (32 & 64-bit) Linux Mac OS X [10.6.x, 10.7.x, 10.8.x]	Windows XP (32-bit only) Windows Vista (32 & 64-bit) Windows 7 (32 & 64-bit) Windows 8 (32 & 64-bit)

Barracuda VPN Client for Mac OS X



Barracuda VPN Client for Microsoft Windows 7

Barracuda NG Control Center

Central Management across the Enterprise

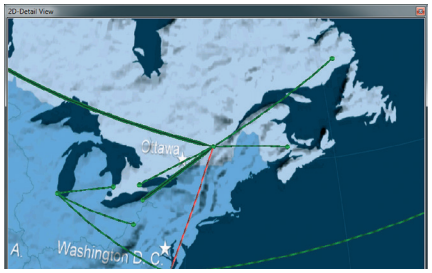
AVAILABLE AS
Virtual Appliances
see page 27

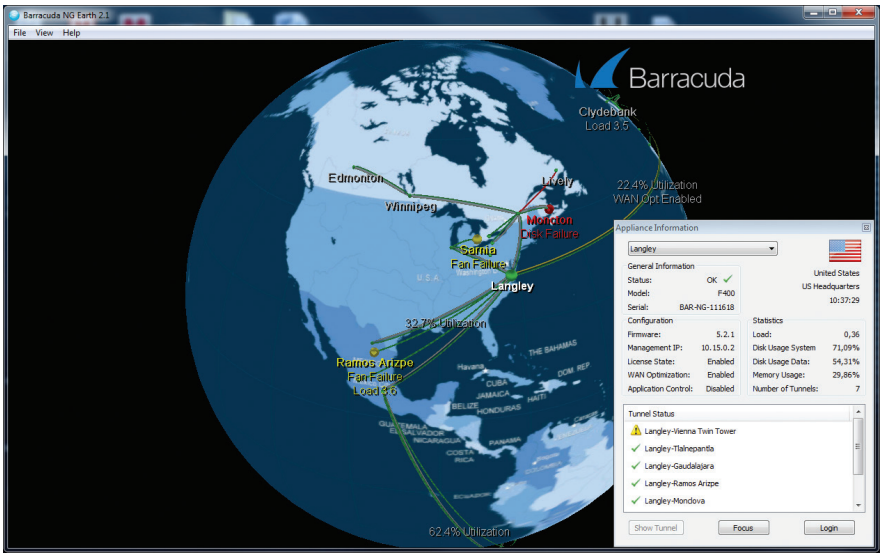
KEY BENEFITS

- Substantial cost benefits through industry-leading centralized management off ALL security and network functions from a single management interface
- Consistent security posture and policy enforcement across the entire enterprise
- Centralized version control of anti-spam, anti-virus, content filtering, and Network Access Control updates
- Real-time accounting and reporting across multiple gateways
- Central collection and processing of statistics
- Comprehensive history and rollback of configuration and policy changes across the network. Integrated Revision Control System for all changes to comply with governmental and company policy requirements
- Real-time 3D visualization of VPN tunnel status and easy drag & drop VPN tunnel creation
- Extended multi-tenancy capabilities catering to the needs of MSSP environments

To centralize management across many different firewalls and remote access users, the Barracuda NG Control Center enables administrators to manage and configure security, content, traffic management, and network access policies from a single interface. Template-based configuration and globally available security objects enable efficient configuration across thousands of locations. The Barracuda NG Control Center helps significantly reduce the cost associated with security management while providing extra functionality both centrally and locally at the managed gateway. Software patches and version upgrades are centrally controlled from within the management console and deployment can be applied to all managed devices. Highly customizable administrative roles can be defined to delegate administrative capabilities for specific departments or locations.

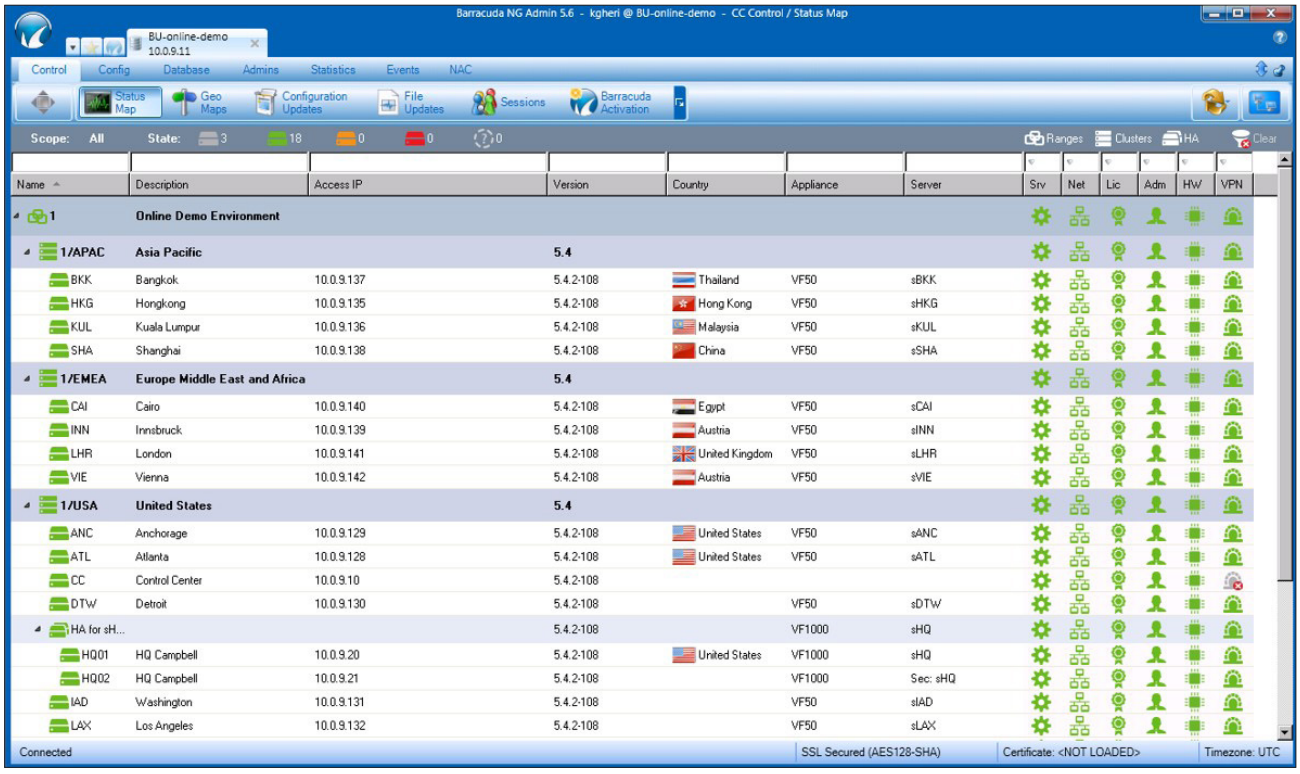
The Barracuda NG Control Center is offered at three levels - Standard Edition, Enterprise Edition, and Global Edition. All Barracuda NG Control Center levels enable administration of an unlimited number of Barracuda NG Firewall platforms. The Standard Edition allows for a single configuration group. The Enterprise Edition allows for an unlimited number of configuration groups for a single enterprise / tenant or "range." The Global Edition is designed for service providers who service multiple tenants and allows for separate and secluded configuration trees for each tenant.





Barracuda NG Earth is a graphical real-time 3D network monitoring utility that provides a status overview of all VPN site-to-site tunnels.

MODEL COMPARISON	STANDARD EDITION		ENTERPRISE EDITION		GLOBAL EDITION
Available models	C400	VC400 (Virtual Appliance)	C610	VC610(Virtual Appliance)	VC820 (Virtual Appliance)
Maximum managed gateways [recommended]	No limit [20]	No limit [20]	No limit [200]	No limit [depending on HW]	No limit [depending on HW]
Multi tenancy	-	-	Yes, with configuration groupings	Yes, with configuration groupings	Yes, includes support for 5 tenants (additional tenants available)
Manageable configuration groupings	1	1	No limit	No limit	No limit
FEATURES					
Multi-administrator support	●	●	●	●	●
Role-based administration	●	●	●	●	●
Revision Control System	●	●	●	●	●
Central statistics	●	●	●	●	●
Central syslog host / relay	●	●	●	●	●
Firewall audit information collector / viewer	●	●	●	●	●
Barracuda NG Access Monitor	●	●	●	●	●
Barracuda NG Earth	-	-	●	●	●
PKI service	-	-	●	●	●
High availability (HA) support	Optional	Optional	Optional	Optional	HA license included
Additional tenant for multi tenancy	-	-	-	-	Optional



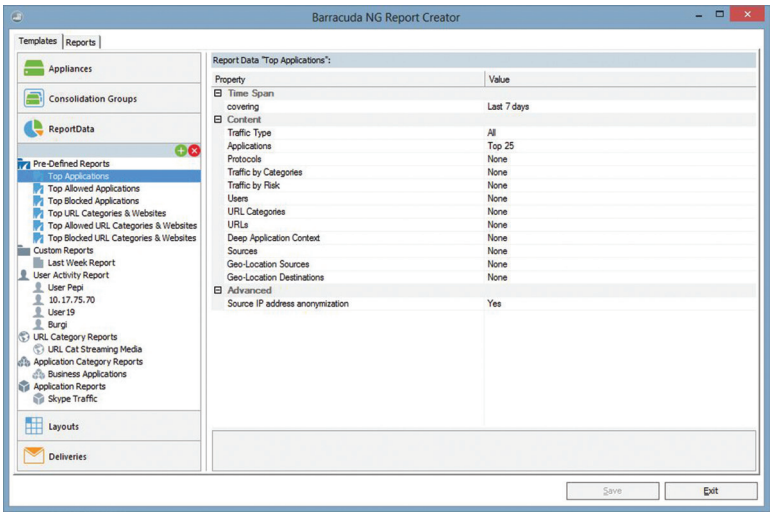
The Barracuda NG Control Center Status Map displays a drill down status overview of all centrally managed Barracuda NG Firewall units.

Barracuda NG Report Creator

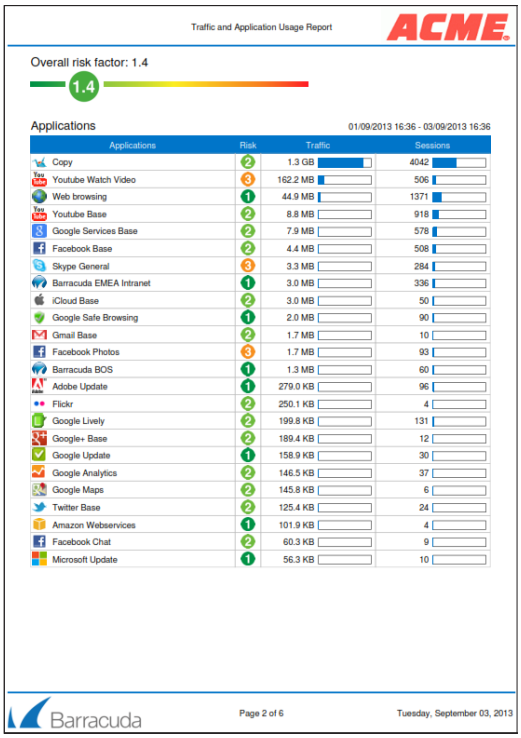
Creating C-level reports with ease - scheduled and fully automated

Reporting is one of the major tasks to be managed in an enterprise. This applies for any department and does not stop when it comes to the IT Security department. Making bandwidth usage and all other security related information visible, reportable and - not least - have it in an easy-to-read format is crucial. And having a dispersed network with loads of security gateways does not make it easier to achieve comprehensive reporting.

The Barracuda NG Report Creator makes creating such IT security reports easy. Simply select the appliances and the required type of reports, define layout and way of delivery and the report creator does the rest.



Barracuda NG Report Creator User Interface



Example of a report pdf page

KEY BENEFITS

- Collect data from all of Barracuda NG Firewalls deployed in the network
- Create easy-to-read reports in pdf format
- Save reports and/or distribute automatically to pre-defined recipients
- Fully customizable scheduling
- Fully customizable time-span
- Report layout customizable with company logo
- Blackout IP addresses for auditing

PRE-DEFINED REPORTS

- Top Application
- Top Allowed Applications
- Top Blocked Applications
- Top URL Categories & Websites
- Top Allowed URL Categories & Websites
- Top Blocked URL Categories & Websites

CUSTOMIZABLE REPORTS ON

- User Activity
- URL Category
- Application Category
- Application

Barracuda **Virtual Appliances**

Virtual versions of Barracuda's hardware appliance-based solutions

KEY BENEFITS

- Consolidate physical server infrastructure in the data center
- Reduce costs and energy usage to support "green IT"
- Realize the management benefits of virtualization, including backup, disaster recovery, and dynamic resource allocation for scalability

AVAILABLE MODELS

- Barracuda NG Firewall VF25 [1]
- Barracuda NG Firewall VF50 [1]
- Barracuda NG Firewall VF100 [1]
- Barracuda NG Firewall VF250 [1]
- Barracuda NG Firewall VF500 [1]
- Barracuda NG Firewall VF1000 [1, 2]
- Barracuda NG Firewall VF2000 [1, 2]
- Barracuda NG Firewall VF4000 [1, 2]
- Barracuda NG Firewall VF8000 [1, 2]
- Barracuda NG Control Center VC400
- Barracuda NG Control Center VC610
- Barracuda NG Control Center VC820

1 Virtual Appliance models VF25 to VF1000 are limited to two CPU cores.
Model VF2000 supports 4 CPU cores, model VF4000 supports 8 CPU cores, and model VF8000 supports 16 CPU cores.
2 Virtual Appliance models VF1000, VF2000, VF4000, and VF8000 have no user limitations.

VIRTUALIZATION

As organizations have adopted virtualization for their server infrastructures, there has been a corresponding trend to extend the benefits of virtualization to the security layer. Barracuda's award-winning security solutions are also available as virtual appliances.

Barracuda's virtual appliances are complete solutions, eliminating the need for installing, configuring, and integrating disparate operating system, database, system management, and application software. In addition, Barracuda's virtual appliances come "locked down" from a security perspective, built from the ground up on the Barracuda OS, a hardened Linux operating kernel and optimized to run seamlessly within virtualized environments. Barracuda's virtual appliances are packaged and distributed in Open Virtualization Format (OVF) or XVA to support environments such as VMware, KVM, XenServer, and Hyper-V (with release 5.4.3 scheduled for Q1 2014) respectively.

Note:
For more details on Barracuda Virtual Appliances please visit http://www.barracuda.com/vx.

Hardware Facts

for Barracuda NG Firewall

BARRACUDA **NG FIREWALL F10**

INTERFACE	
Copper Ethernet NICs	4x1 GbE
USB 2.0	2
Serial / console	1 [RJ45]
PERFORMANCE [AS OF FIRMWARE RELEASE 5.4.X]	
Firewall throughput [Mbps] [1]	300
Firewall throughput, Jumbo Frames [Mbps]	N/A
VPN throughput [AES-128, NOHASH, Mbps]	85
VPN throughput [AES-128, MD5, Mbps]	75
VPN throughput [AES-128, SHA, Mbps]	75
VPN throughput [AES-256, MD5, Mbps]	65
IPS throughput [Mbps] [1]	60
Concurrent sessions	2,000
New sessions/s [2]	1,000
MEMORY	
RAM [MB]	512
MASS STORAGE	
Type	Flash
Size [GB]	4 or better
SIZE, WEIGHT, DIMENSIONS	
Weight appliance [kg]	2
Weight carton with appliance [kg]	3
Appliance size: width x depth x height [mm]	240 x 165 x 30
Carton size: width x depth x height [mm]	260 x 320 x 140
Form factor	Mini
HARDWARE	
Hardware crypto accelerator	Yes, built-in
Cooling	Fanless
Power supply	Single, external
ENVIRONMENTAL	
Noise emission [db/A]	< 32
Operating temperature [°C]	0 to +40
Storage temperature [°C]	-20 to +70
Operating humidity [non-condensing]	5% to 95%

MTBF [SYSTEM]	
MTBF [yrs.]	> 5
CERTIFICATIONS & COMPLIANCE	
CE emissions	Yes
CE electrical safety	Yes
FCC emissions	Yes
ROHS compliant	Yes
POWER & EFFICIENCY	
Power supply type	External brick
Power type [AC/DC]	AC
Input rating [Volts]	100-240
Input frequency [Hz]	50-60
Auto sense	Yes
Wattage / max. power draw [W]	40
Max. power draw [Amps.]	1.6
Max. heat dissipation [W]	36
Max. heat dissipation [BTU]	123
Energy efficiency [average]	>80%
PACKAGING CONTENT	
Appliance	Yes
Serial cable	Yes
Straight network cable	Yes
Cross network cable	Yes
External power brick & cables	Yes
USB flash drive for recovery & installation	Yes
Quick start guide	Yes

1 Measured with large packets (MTU1500)
2 Measured with TCP

BARRACUDA **NG FIREWALL F100 / F101**

INTERFACE	
Copper Ethernet NICs	4x1 GbE
USB 2.0	2
Serial / console	1 [RJ45]
Integrated WiFi access point (802.11 b/g)	Model F101 only
PERFORMANCE [AS OF FIRMWARE RELEASE 5.4.X]	
Firewall throughput [Mbps] [1]	300
Firewall throughput, Jumbo Frames [Mbps]	N/A
VPN throughput [AES-128, NOHASH, Mbps]	85
VPN throughput [AES-128, MD5, Mbps]	80
VPN throughput [AES-128, SHA, Mbps]	78
VPN throughput [AES-256, MD5, Mbps]	70
IPS throughput [Mbps] [1]	60
Concurrent sessions	8,000
New sessions/s [2]	1,500
MEMORY	
RAM [GB]	2
MASS STORAGE	
Type	Flash
Size [GB]	4 or better
SIZE, WEIGHT, DIMENSIONS	
Weight appliance [kg]	3.5
Weight carton with appliance [kg]	5.5
Appliance size: width x depth x height [mm]	374 x 190 x 50
Carton size: width x depth x height [mm]	470 x 355 x 180
Form factor	Compact
HARDWARE	
Hardware crypto accelerator	Yes, built-in
Cooling	Fanless [3]
Power supply	Single, external

ENVIRONMENTAL	
Noise emission [db/A]	< 32 / 45 [5]
Operating temperature [°C]	0 to +40
Storage temperature [°C]	-20 to +70
Operating humidity [non-condensing]	5% to 95%
MTBF [SYSTEM]	
MTBF [yrs.]	> 5
CERTIFICATIONS & COMPLIANCE	
CE emissions	Yes
CE electrical safety	Yes
FCC emissions	Yes
ROHS compliant	Yes
POWER & EFFICIENCY	
Power supply type	External brick
Power type [AC/DC]	AC
Input rating [Volts]	100-240
Input frequency [Hz]	50-60
Auto sense	Yes
Wattage / max. power draw [W]	60
Max. power draw [Amps.]	1.6
Max. heat dissipation [W]	60
Max. heat dissipation [BTU]	205
Energy efficiency [average]	>83%
PACKAGING CONTENT	
Appliance	Yes
Serial cable	Yes
Straight network cable	Yes
Cross network cable	Yes
External power brick & cables	Yes
USB flash drive for recovery & installation	Yes
Quick start guide	Yes
Wireless antenna	Yes, for F101 only
Barracuda 19" rackmount shelf kit	Optional

Note:
While it is technically feasible and fully supported to run the Barracuda NG Malware Protection and the Barracuda Web Filter on this unit, Barracuda Networks recommends offloading Malware Protection and Web Filter functions to the Barracuda Web Security Service for best performance.

1 Measured with large packets (MTU1500)
2 Measured with TCP
3 If model F101 is ordered with the Barracuda ISDN PCI Modem M20, a low noise fan will be installed to make sure the heat generated by the data card during extended operation can be dissipated.

BARRACUDA **NG FIREWALL F200 / F201**

INTERFACE	
Copper Ethernet NICs	4x1 GbE
USB 2.0	2
Serial / console	1 [RJ45]
Integrated WiFi access point (802.11 b/g)	Model F201 only
PERFORMANCE [AS OF FIRMWARE RELEASE 5.4.X]	
Firewall throughput [Mbps] [1]	400
Firewall throughput, Jumbo Frames [Mbps]	N/A
VPN throughput [AES-128, NOHASH, Mbps]	120
VPN throughput [AES-128, MD5, Mbps]	110
VPN throughput [AES-128, SHA, Mbps]	110
VPN throughput [AES-256, MD5, Mbps]	100
IPS throughput [Mbps] [1]	80
Concurrent sessions	35,000
New sessions/s [2]	2,500
MEMORY	
RAM [GB]	2
MASS STORAGE	
Type	Solid State
Size [GB]	40 or better
SSD MTBF [hours]	1,200,000
SIZE, WEIGHT, DIMENSIONS	
Weight appliance [kg]	3.6
Weight carton with appliance [kg]	5.6
Appliance size: width x depth x height [mm]	374 x 190 x 50
Carton size: width x depth x height [mm]	470 x 355 x 180
Form factor	Compact
HARDWARE	
Hardware crypto accelerator	Yes, built in
Cooling	Fan
Power supply	Single, external

ENVIRONMENTAL	
Noise emission [db/A]	47
Operating temperature [°C]	0 to +40
Storage temperature [°C]	-20 to +70
Operating humidity [non-condensing]	5% to 95%
MTBF [SYSTEM]	
MTBF [yrs.]	> 6
CERTIFICATIONS & COMPLIANCE	
CE emissions	Yes
CE electrical safety	Yes
FCC emissions	Yes
ROHS compliant	Yes
POWER & EFFICIENCY	
Power supply type	External brick
Power type [AC/DC]	AC
Input rating [Volts]	100-240
Input frequency [Hz]	50-60
Auto sense	Yes
Wattage / max. power draw [W]	60
Max. power draw [Amps.]	1.6
Max. heat dissipation [W]	60
Max. heat dissipation [BTU]	205
Energy efficiency [average]	>83%
PACKAGING CONTENT	
Appliance	Yes
Serial cable	Yes
Straight network cable	Yes
Cross network cable	Yes
External power brick & cables	Yes
USB flash drive for recovery & installation	Yes
Quick start guide	Yes
Wireless antenna	Yes, for F201 only
Barracuda 19" rackmount shelf kit	Optional

1 Measured with large packets (MTU1500)
2 Measured with TCP

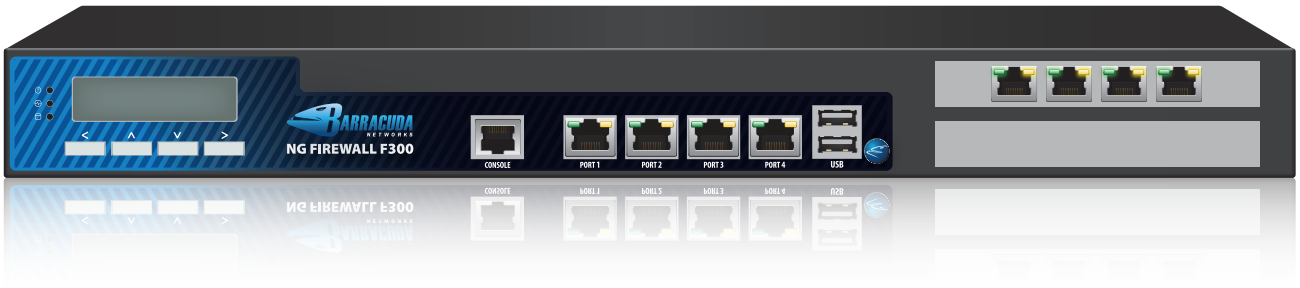
BARRACUDA **NG FIREWALL F280**

INTERFACE	
Copper Ethernet NICs	4x1 GbE
USB 2.0	2
Serial / console	1 [RJ45]
Integrated WiFi access point (802.11 b/g)	Yes
PERFORMANCE [AS OF FIRMWARE RELEASE 5.4.X]	
Firewall throughput [Gbps] [1]	1.3
Firewall throughput, Jumbo Frames [Mbps]	N/A
VPN throughput [AES-128, NOHASH, Mbps]	310
VPN throughput [AES-128, MD5, Mbps]	290
VPN throughput [AES-128, SHA, Mbps]	260
VPN throughput [AES-256, MD5, Mbps]	250
IPS throughput [Mbps] [1]	450
Concurrent sessions	100,000
New sessions/s [2]	8,500
MEMORY	
RAM [GB]	4
MASS STORAGE	
Type	Solid State
Size [GB]	80 or better
SSD MTBF [hours]	1,200,000
SIZE, WEIGHT, DIMENSIONS	
Weight appliance [kg]	2.3
Weight carton with appliance [kg]	3.8
Appliance size: width x depth x height [mm]	272 x 195 x 44
Carton size: width x depth x height [mm]	425 x 307 x 162
Form factor	Compact
HARDWARE	
Hardware crypto accelerator	Yes, built in
Cooling	Fan
Power supply	Single, external

ENVIRONMENTAL	
Noise emission [db/A]	47
Operating temperature [°C]	0 to +40
Storage temperature [°C]	-20 to +70
Operating humidity [non-condensing]	5% to 95%
MTBF [SYSTEM]	
MTBF [yrs.]	> 6
CERTIFICATIONS & COMPLIANCE	
CE emissions	Yes
CE electrical safety	Yes
FCC emissions	Yes
ROHS compliant	Yes
POWER & EFFICIENCY	
Power supply type	External brick
Power type [AC/DC]	AC
Input rating [Volts]	100-240
Input frequency [Hz]	50-60
Auto sense	Yes
Wattage / max. power draw [W]	60
Max. power draw [Amps.]	1.6
Max. heat dissipation [W]	60
Max. heat dissipation [BTU]	205
Energy efficiency [average]	>83%
PACKAGING CONTENT	
Appliance	Yes
Serial cable	Yes
Straight network cable	Yes
Cross network cable	Yes
External power brick & cables	Yes
USB flash drive for recovery & installation	Yes
Quick start guide	Yes
Wireless antenna	Yes
2x Barracuda L-shape rackmount bracket	Optional

1 Measured with large packets (MTU1500)
2 Measured with TCP

BARRACUDA **NG FIREWALL F300 / F301**

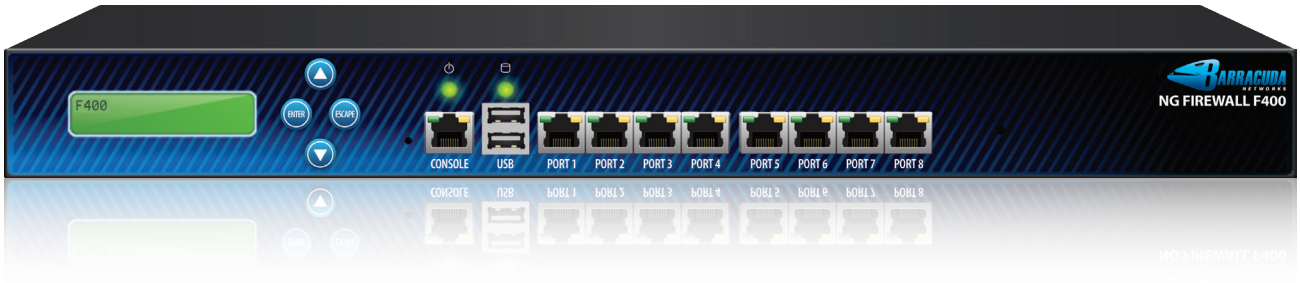


INTERFACE	
Copper Ethernet NICs	4x1 GbE + 4x10/100 [1]
USB 2.0	2
Serial / console	1 [RJ45]
Integrated WiFi access point (802.11 b/g)	Model F301 only
PERFORMANCE [AS OF FIRMWARE RELEASE 5.4.X]	
Firewall throughput [Mbps] [2]	550
Firewall throughput, Jumbo Frames [Mbps]	N/A
VPN throughput [AES-128, NOHASH, Mbps]	160
VPN throughput [AES-128, MD5, Mbps]	130
VPN throughput [AES-128, SHA, Mbps]	128
VPN throughput [AES-256, MD5, Mbps]	125
IPS throughput [Mbps] [2]	90
Concurrent sessions	70,000
New sessions/s [3]	2,500
MEMORY	
RAM [GB]	2
MASS STORAGE	
Type	Solid State
Size [GB]	80
SSD MTBF [hours]	1,200,000
SIZE, WEIGHT, DIMENSIONS	
Weight appliance [kg]	4.5
Weight carton with appliance [kg]	8.0
Appliance size: width x depth x height [mm]	430 x 330 x 44
Carton size: width x depth x height [mm]	540 x 540 x 210
Form factor	1U Rackmount
HARDWARE	
Hardware crypto accelerator	Yes, built in
Display	Yes
Cooling	Fan
Power supply	Single, internal

ENVIRONMENTAL	
Noise emission [db/A]	N/A
Operating temperature [°C]	0 to +40
Storage temperature [°C]	-20 to +70
Operating humidity [non-condensing]	5% to 95%
MTBF [SYSTEM]	
MTBF [yrs.]	> 5
CERTIFICATIONS & COMPLIANCE	
CE emissions	Yes
CE electrical safety	Yes
FCC emissions	Yes
ROHS compliant	Yes
POWER & EFFICIENCY	
Power supply type	Internal
Power type [AC/DC]	AC
Input rating [Volts]	100-240
Input frequency [Hz]	50-60
Auto sense	Yes
Wattage / max. power draw [W]	60
Max. power draw [Amps.]	1.6
Max. heat dissipation [W]	60
Max. heat dissipation [BTU]	205
Energy efficiency [average]	>83%
PACKAGING CONTENT	
Appliance	Yes
Serial cable	Yes
Straight network cable	Yes
Cross network cable	Yes
Direct power to wall outlet	Yes
USB flash drive for recovery & installation	Yes
Quick start guide	Yes
2x Barracuda L-shape rackmount bracket	Yes
Wireless antenna	Yes, for F301 only

1 4x10/100 copper ports are covered by the faceplate on the right hand side
2 Measured with large packets (MTU1500)
3 Measured with TCP

BARRACUDA **NG FIREWALL F400**



INTERFACE	
Copper Ethernet NICs	8x1 GbE
USB 2.0	2
Serial / console	1 [RJ45]
PERFORMANCE [AS OF FIRMWARE RELEASE 5.4.X]	
Firewall throughput [Gbps] [1]	3.9
Firewall throughput, Jumbo Frames [Gbps] [2]	N/A
VPN throughput [AES-128, NOHASH, Mbps]	700
VPN throughput [AES-128, MD5, Mbps]	650
VPN throughput [AES-128, SHA, Mbps]	550
VPN throughput [AES-256, MD5, Mbps]	530
IPS throughput [Mbps] [1]	900
Concurrent sessions	300,000
New sessions/s [3]	16,000
MEMORY	
RAM [GB]	4
MASS STORAGE	
Type	Solid State
Size [GB]	80
SSD MTBF [hours]	1,200,000
SIZE, WEIGHT, DIMENSIONS	
Weight appliance [kg]	7
Weight carton with appliance [kg]	10.2
Appliance size: width x depth x height [mm]	427 x 450 x 44
Carton size: width x depth x height [mm]	620 x 590 x 200
Form factor	1U Rackmount
HARDWARE	
Display	Yes
Hardware crypto accelerator	-
Cooling	Fan
Power supply	Single, internal

ENVIRONMENTAL	
Noise emission [db/A]	N/A
Operating temperature [°C]	0 to +40
Storage temperature [°C]	-20 to +60
Operating humidity [non-condensing]	5% to 95%
MTBF [SYSTEM]	
MTBF [yrs.]	> 5
CERTIFICATIONS & COMPLIANCE	
CE emissions	Yes
CE electrical safety	Yes
FCC emissions	Yes
ROHS compliant	Yes
POWER & EFFICIENCY	
Power supply type	Internal
Power type [AC/DC]	AC
Input rating [Volts]	100-240
Input frequency [Hz]	50-60
Auto sense	Yes
Wattage / max. power draw [W]	250
Max. power draw [Amps.]	0.6
Max. heat dissipation [W]	250
Max. heat dissipation [BTU]	1024
Energy efficiency [average]	>80%
PACKAGING CONTENT	
Appliance	Yes
Serial cable	Yes
Straight network cable	Yes
Cross network cable	Yes
External power brick & cables	N/A
Direct power to wall outlet	Yes
USB recovery & installation stick	Yes
Quick start guide	Yes
2x Barracuda L-shape rackmount bracket	Yes
Barracuda rail kit	Optional

1 Measured with large packets (MTU1500)
2 Measured with large packets (MTU9000)
3 Measured with TCP

BARRACUDA **NG FIREWALL F600**

Picture shows Barracuda NG Firewall F600 standard model (C10).

INTERFACE [1]	
Standard model	12x1 GbE Copper
SFP model	8x1 GbE Copper + 4x1 GbE SFP
SFP+ model	8x1 GbE Copper + 2x10 GbE SFP+
USB 2.0	2
Serial / console	1 [RJ45]
PERFORMANCE [AS OF FIRMWARE RELEASE 5.4.X]	
Firewall throughput [Gbps] [2]	5.7
Firewall throughput, Jumbo Frames [Gbps] [3]	N/A
VPN throughput [AES-128, NOHASH, Gbps]	1.6
VPN throughput [AES-128, MD5, Gbps]	1.4
VPN throughput [AES-128, SHA, Gbps]	1.4
VPN throughput [AES-256, MD5, Gbps]	1.4
IPS throughput [Gbps] [2]	2.6
Concurrent sessions	400,000
New sessions/s [4]	35,000
MEMORY	
RAM [GB]	8
MASS STORAGE	
Type	SSD
Size [GB]	80 or better
SSD MTBF [hours]	1,200,000
SIZE, WEIGHT, DIMENSIONS	
Weight appliance [kg]	8.5
Weight carton with appliance [kg]	12
Appliance size: width x depth x height [mm]	427 x 450 x 44
Carton size: width x depth x height [mm]	650 x 590 x 200
Form factor	1U Rackmount
HARDWARE	
Number of CPU cores	2 or better
Display	Yes
Hardware crypto accelerator	-
Cooling	Fan
Power supply [1]	Single, internal, Dual hot swap, internal (optional)

ENVIRONMENTAL	
Noise emission [db/A]	N/A
Operating temperature [°C]	0 to +40
Storage temperature [°C]	-20 to +60
Operating humidity [non-condensing]	5% to 95%
MTBF [SYSTEM]	
MTBF [yrs.]	> 5
CERTIFICATIONS & COMPLIANCE	
CE emissions	Yes
CE electrical safety	Yes
FCC emissions	Yes
ROHS compliant	Yes
POWER & EFFICIENCY	
Power supply type	Internal
Power type [AC/DC]	AC
Input rating [Volts]	100-240
Input frequency [Hz]	50-60
Auto sense	Yes
Wattage / max. power draw [W]	300
Max. power draw [Amps.]	5
Max. heat dissipation [W]	300
Max. heat dissipation [BTU]	1024
Energy efficiency [average]	>80%
PACKAGING CONTENT	
Appliance	Yes
Serial cable	Yes
Straight network cable	Yes
Cross network cable	Yes
External power brick & cables	N/A
Direct power to wall outlet	Yes
USB recovery & installation stick	Yes
Quick start guide	Yes
2x Barracuda L-shape rackmount bracket	Yes
Barracuda rail kit	Yes

1 *Please consult section ""Supported Barracuda Network Module Combinations" - "Model F600" on page 41*
2 *Measured with large packets (MTU1500)*
3 *Measured with large packets (MTU9000)*
4 *Measured with TCP*

BARRACUDA **NG FIREWALL F800**

Picture shows Barracuda NG Firewall F800 equipped with an optional M802 module.

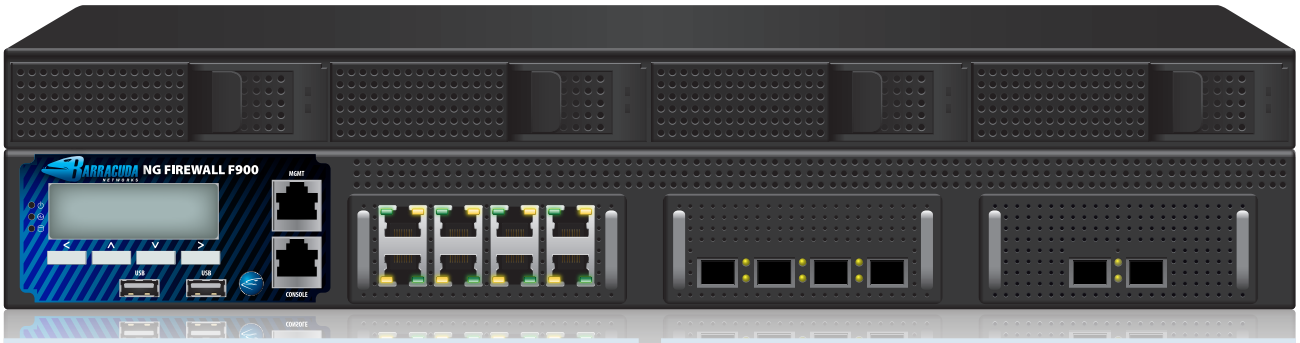
INTERFACE	
Standard 1 GbE copper NICs [Max.] [1]	12 [20]
Standard 1 GbE fiber (SFP) NICs [Max.] [1]	0 [4]
Standard 10 GbE fiber (SFP+) NICs [Max.] [1]	0 [2]
Free module ports for additional Barracuda network modules	1
USB 2.0	2
Serial / console	1 [RJ45]
PERFORMANCE [AS OF FIRMWARE RELEASE 5.4.X]	
Firewall throughput [Gbps] [2]	10.0
Firewall throughput, Jumbo Frames [Gbps] [3]	14.0
VPN throughput [AES-128, NOHASH, Mbps]	2,200
VPN throughput [AES-128, MD5, Mbps]	1,800
VPN throughput [AES-128, SHA, Mbps]	1,500
VPN throughput [AES-256, MD5, Mbps]	1,450
IPS throughput [Gbps] [2]	3.1
Concurrent sessions [4]	500,000
New sessions/s [4]	35,000
MEMORY	
RAM [GB]	12
MASS STORAGE	
Type	Solid State
Size [GB]	160 or better
SSD MTBF [hours]	1,200,000
SIZE, WEIGHT, DIMENSIONS	
Weight appliance [kg]	13
Weight carton with appliance [kg]	15.5
Appliance size: width x depth x height [mm]	442 x 520 x 44
Carton size: width x depth x height [mm]	665 x 585 x 225
Form factor	1U Rackmount
HARDWARE	
Number of CPU cores	4 or better
Display	Yes
Hardware crypto accelerator	Yes
Cooling	Fan
Power Supply	Dual hot swap, internal

ENVIRONMENTAL	
Noise emission [db/A]	N/A
Operating temperature [°C]	0 to +40
Storage temperature [°C]	-20 to +60
Operating humidity [non-condensing]	5% to 95%
MTBF [SYSTEM]	
MTBF [yrs.]	> 4
CERTIFICATIONS & COMPLIANCE	
CE emissions	Yes
CE electrical safety	Yes
FCC emissions	Yes
ROHS compliant	Yes
POWER & EFFICIENCY	
Power supply type	Internal
Power type [AC/DC]	AC
Input rating [Volts]	100-240
Input frequency [Hz]	50-60
Auto sense	Yes
Wattage / max. power draw [W]	2x 400
Max. power draw [Amps.]	5
Max. heat dissipation [W]	400
Max. heat dissipation [BTU]	1366
Energy efficiency [average]	>80%
PACKAGING CONTENT	
Appliance	Yes
Serial cable	Yes
Straight network cable	Yes
Cross network cable	Yes
Direct power to wall outlet	Yes
USB flash drive for recovery & installation	Yes
Quick start guide	Yes
2x Barracuda L-shape rackmount bracket	Yes
Barracuda rail kit	Yes

1 *Please consult section "Supported Barracuda Network Module Combinations" - "Model F800" on page 42*
2 *Measured with large packets (MTU1500)*
3 *Measured with large packets (MTU9000)*
4 *Measured with TCP*

BARRACUDA **NG FIREWALL F900**

Picture shows Barracuda NG Firewall F900 equipped with modules M801, M802, and M803.

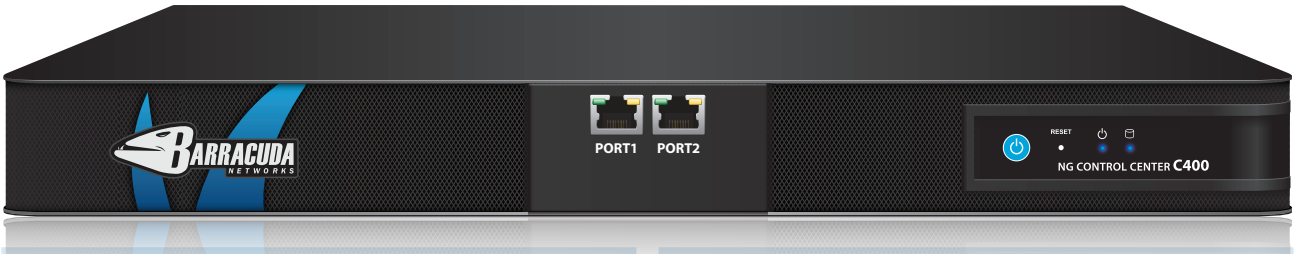


INTERFACE	
Standard copper Ethernet NICs	1x1 GbE MGMT Port
Standard 1GbE copper NICs [max.] [1]	0 [24]
Standard 1GbE fiber (SFP) NICs [max.] [1]	0 [12]
Standard 10 GbE fiber (SFP+) NICs [max.] [1]	0 [6]
Free module ports for additional Barracuda network modules	3
USB 2.0	2
Serial / console	1 [RJ45]
PERFORMANCE [AS OF FIRMWARE RELEASE 5.4.X]	
Firewall throughput [Gbps] [2]	16.0
Firewall throughput, Jumbo Frames [Gbps] [3]	21.0
VPN throughput [AES-128, NOHASH, Mbps]	3,780
VPN throughput [AES-128, MD5, Mbps]	3,600
VPN throughput [AES-128, SHA, Mbps]	3,450
VPN throughput [AES-256, MD5, Mbps]	2,950
IPS throughput [Gbps] [2]	4.65
Concurrent sessions [4]	1,000,000
New sessions/s [4]	100,000
MEMORY	
RAM [GB]	12
MASS STORAGE	
Type	Solid State
Size [GB]	80 (system) + 300 (logs, cache)
SSD MTBF [hours]	1,200,000
SIZE, WEIGHT, DIMENSIONS	
Weight appliance [kg]	18
Weight carton with appliance [kg]	22
Appliance size: width x depth x height [mm]	442 x 660 x 88
Carton size: width x depth x height [mm]	590 x 870 x 290
Form factor	2U Rackmount
HARDWARE	
Number of CPU cores	8
Display	Yes
Hardware crypto accelerator	Yes
Cooling	X Fans
Power supply	Dual hot swap, internal

ENVIRONMENTAL	
Noise emission [db/A]	N/A
Operating temperature [°C]	0 to +40
Storage temperature [°C]	-20 to +60
Operating humidity [non-condensing]	5% to 95%
MTBF [SYSTEM]	
MTBF [yrs.]	> 4
CERTIFICATIONS & COMPLIANCE	
CE emissions	Yes
CE electrical safety	Yes
FCC emissions	Yes
ROHS compliant	Yes
POWER & EFFICIENCY	
Power supply type	Internal, dual hot swap
Power type [AC/DC]	AC
Input rating [Volts]	100-240
Input frequency [Hz]	50-60
Auto sense	Yes
Wattage / max. power draw [W]	500
Max. power draw [Amps.]	5
Max. heat dissipation [W]	300
Max. heat dissipation [BTU]	1024
Energy efficiency [average]	>80%
PACKAGING CONTENT	
Appliance	Yes
Serial cable	Yes
Straight network cable	Yes
Cross network cable	Yes
Direct power to wall outlet	Yes
USB flash drive for recovery & installation	Yes
Quick start guide	Yes
2x Barracuda L-shape rack mount bracket	Yes
Barracuda rail kit	Yes

1 *Please consult section "Supported Barracuda Network Module Combinations" - "Model F900" on page 43*
2 *Measured with large packets (MTU1500)*
3 *Measured with large packets (MTU9000)*
4 *Measured with TCP*

BARRACUDA **NG CONTROL CENTER C400**



INTERFACE	
Copper Ethernet NICs	2x1 GbE
USB 2.0	4
Serial / console	1 [DB9] / 1 [RJ45]
MEMORY	
RAM [GB]	2
MASS STORAGE	
Type	HDD
Size [GB]	2x 250 or better
SIZE, WEIGHT, DIMENSIONS	
Weight appliance [kg]	5.94
Weight carton with appliance [kg]	7.46
Appliance size: width x depth x height [mm]	406 x 425 x 44
Carton size: width x depth x height [mm]	483 x 565 x 178
Form factor	1U Full Size
ENVIRONMENTAL	
Noise emission [db/A]	N/A
Operating temperature [°C]	0 to +35
Storage temperature [°C]	-20 to +70
Operating humidity [non condensing]	5% to 95%

CERTIFICATIONS & COMPLIANCE	
CE emissions	Yes
CE electrical safety	Yes
FCC emissions	Yes
ROHS compliant	Yes
POWER & EFFICIENCY	
Power supply type	Single, internal
Power type [AC/DC]	AC
Input rating [Volts]	100-240
Input frequency [Hz]	47-63
Auto sense	Yes
Max. power draw [Amps.]	1.8
PACKAGING CONTENT	
Appliance	Yes
Direct power to wall outlet	Yes
USB flash drive for recovery & installation	Yes
Quick start guide	Yes
2x Barracuda L-shape rack mount bracket	Yes

BARRACUDA **NG CONTROL CENTER C610**

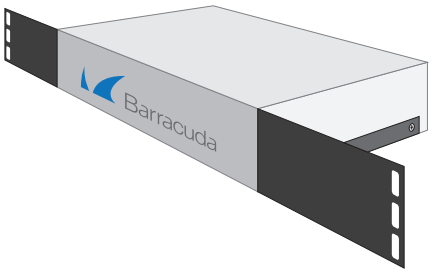
INTERFACE	
Copper ethernet NICs	2x1 GbE
USB 2.0	2
Serial	1 [DB9]
MEMORY	
RAM [GB]	4
MASS STORAGE	
Type	HDD
Size [GB]	4x 500 or better
Redundant Disk Array (RAID)	RAID 5
SIZE, WEIGHT, DIMENSIONS	
Weight appliance [kg]	18
Weight carton with appliance [kg]	28.5
Appliance size: width x depth x height [mm]	648 x 442 x 89
Carton size: width x depth x height [mm]	870 x 680 x 286
Form factor	2U Full Size
ENVIRONMENTAL	
Noise emission [db/A]	N/A
Operating temperature [°C]	0 to +40
Storage temperature [°C]	-20 to +70
Operating humidity [non condensing]	5% to 95%

CERTIFICATIONS & COMPLIANCE	
CE emissions	Yes
CE electrical safety	Yes
FCC emissions	Yes
ROHS compliant	Yes
POWER & EFFICIENCY	
Power supply type	Dual, internal
Power type [AC/DC]	AC
Input rating [Volts]	100-240
Input frequency [Hz]	47-63
Auto sense	Yes
Max. power draw [Amps.]	4.1
PACKAGING CONTENT	
Appliance	Yes
Direct power to wall outlet	Yes
USB flash drive for recovery & installation	Yes
Quick start guide	Yes
2 x Barracuda L-shape rack mount bracket	Yes
Barracuda Rail kit	Yes

BARRACUDA 19" RACKMOUNT SHELF KIT

The Barracuda Rackmount Shelf Kit is a field upgrade to deploy Barracuda NG Firewall models F100, F101, F200, and F201 into a 19-inch rack environment. [1]

BARRACUDA L-SHAPE RACKMOUNT BRACKET



The L-shape rackmount bracket enables Barracuda Firewall F280 to be mounted in a 1U Standard 19" Rack slot.

BARRACUDA **3G/UMTS USB MODEM M10**

The Barracuda 3G/UMTS Modem M10 provides support for wireless third generation broadband communication using 3G/UMTS/HSDPA/HSUPA technologies thus providing bandwidths of up to 7.2 Mbps. Especially for remote sites the Barracuda 3G/UMTS Modem M10 is a cost effective, rapidly deployable and ultra-reliable WAN backup solution which can protect businesses and organizations against outages caused by accidental cable or fiber link cuts during construction, moves or maintenance work.

Who can benefit from the Barracuda 3G/UMTS USB Modem M10?

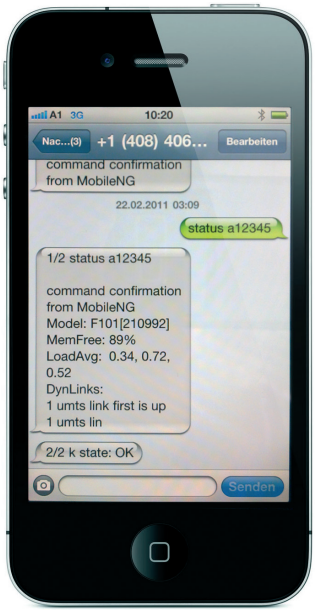
- Enterprises looking for a cost effective secondary link in order to quickly increase total overall bandwidth and to reduce traffic volume on the primary link
- Enterprises relying on high quality WAN backup and WAN connectivity for business critical traffic
- Branch offices and remote sites looking for a cost effective alternative to earth bound uplinks
- Branch offices and remote sites looking to bridge the gap until cable connections become available
- Branch offices and remote sites residing in areas without a good selection of affordable or reliable Internet uplinks
- Construction sites, retail, rapid deployments and portable businesses requiring quick access to Internet connectivity

Remote Appliance Control via Cell Phone Interaction

The Barracuda 3G/UMTS USB Modem M10 can also be used as a remote control to securely trigger predefined commands via cell phones and smart phones which carry out the following restorative operations on the firewall gateway:

- Reboot/restart the services
- Rebuild the management tunnel connection
- Shutdown and bring up again the entire network stack

In addition, administrators can trigger the Barracuda 3G/UMTS USB Modem M10 to send a status message to the cell phone of the administrator which includes vital information such as firewall gateway state and link details in case the firewall gateway is no longer remotely accessible or the administrator quickly wants to check the status while being on the road.



An intelligent combination of security checks such as support of a phone number ACL, password protection on a per command basis as well as a maximum successive number of commands counter assure that there is virtually no abuse potential and remote DOS attacks are ruled out.

> ***Note:***
> *Barracuda Networks cannot guarantee signal reception. In case your server rooms are located in a basement or in a place with insufficient signal reception make sure that the signal quality is sufficient, especially prior to purchasing large quantities. The firmware version needs to be 5.0.2 or higher. The SIM card is not included and has to be obtained independently through a mobile phone provider.*

1 *The rack mount kit will require 2 1U slots in a rack in height as the F100/F200 units themselves are larger than 1U.*

BARRACUDA **NETWORK MODULE M801**

Optional network module providing 8x1 GbE RJ45 copper ports.
Available for Barracuda NG Firewall models F800 and F900.

M801

BARRACUDA **NETWORK MODULE M802**

Optional network module providing 4x1 GbE fiber slots for standard SFP type transceivers (compatible with SR and LR transceivers).
Available for Barracuda NG Firewall models F800 and F900 for self-installed field upgrades.

M802

BARRACUDA **NETWORK MODULE M803**

Optional network module providing 2x10 GbE fiber ports for standard SFP+ type transceivers (compatible with SR and LR transceivers).
Available for Barracuda NG Firewall models F800 and F900.

M803

Note:
Transceivers have to be bought separately and are not included in the Network Modules M802 and M803.

Note:
All Barracuda Network Modules (M801-M803) are covered by Instant Replacement subscription of the appliance at no extra charge.

Additional Hardware Options

	F10	F100/ F101	F200/ F201	F280	F300/ F301	F400	F600	F800	F900
Barracuda 3G/UMTS USB Modem M10	●	●	●	●	●	●	●	●	●
Barracuda Network Module M801	-	-	-	-	-	-	-	●	●
Barracuda Network Module M802	-	-	-	-	-	-	-	●	●
Barracuda Network Module M803	-	-	-	-	-	-	-	●	●
Barracuda 19" rackmount shelf kit	-	●	●	-	-	-	-	-	-
Barracuda L-shape rackmount bracket (2x)	-	-	-	●	-	-	-	-	-
Barracuda rail kit	-	-	-	-	-	●	-	-	-

SUPPORTED BARRACUDA NETWORK MODULE COMBINATIONS

(firmware release 5.4.x and newer)

MODEL F600

The F600 standard model C10 is always shipped with a total of 12 RJ45 network ports and single power supply.

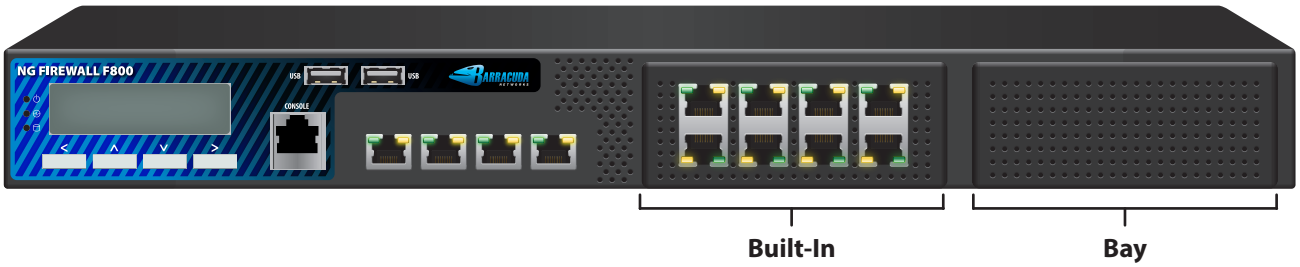
Other F600 model types provide different port and power supply combinations. Please see list below.

Note:
Network ports are built-in and not replaceable in the field. Spare parts for redundant power supply can be ordered separately.

F600 MODEL TYPE	ORDER NO. EMEA / INTERNATIONAL	ORDER NO. NORTH AMERICA
Barracuda NG Firewall F600 model C10 (12 RJ45 network ports and single power supply) Front / Rear	BNGIF600a.C10	BNGF600a.C10
Barracuda NG Firewall F600 model C20 (12 RJ45 network ports and dual power supply) Front / Rear	BNGIF600a.C20	BNGF600a.C20
Barracuda NG Firewall F600 model F10 (8 RJ45 + 4 SFP 1 GbE network ports and single power supply) Front / Rear	BNGIF600a.F10	BNGF600a.F10
Barracuda NG Firewall F600 model F20 (8 RJ45 + 4 SFP 1 GbE network ports and dual power supply) Front / Rear	BNGIF600a.F20	BNGF600a.F20
Barracuda NG Firewall F600 model E20 (8 RJ45 + 2 SFP+ 10 GbE network ports and dual power supply) Front / Rear	BNGIF600a.E20	BNGF600a.E20

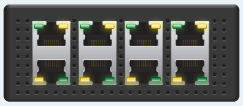
MODEL F800

The standard version of the F800 appliance has the first port bracket bay equipped with eight 1 GbE RJ45 copper ports (Barracuda Network Module M801) while the second port bracket is covered with a faceplate.



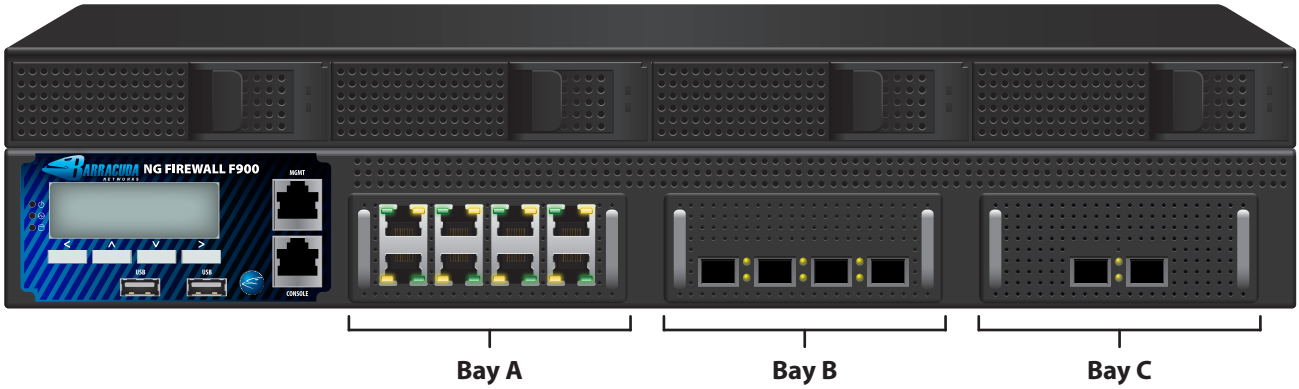
Legend:

- *M801 - Barracuda Network Module with 8x1 GbE RJ45 copper ports*
- *M802 - Barracuda Network Module with 4x1 GbE SFP*
- *M803 - Barracuda Network Module with 2x10 GbE SFP+*

BAY		ORDER NO. EMEA / INTERNATIONAL	ORDER NO. NORTH AMERICA
-	**1 (Default)**	Appliance: BNGIF800a	Appliance: BNGF800a
M801 	2	Appliance: BNGIF800a plus 1 x BNGIM801a	Appliance: BNGF800a plus 1 x BNGM801a
M802	3	Appliance: BNGIF800a plus 1 x BNGIM802a	Appliance: BNGF800a plus 1 x BNGM802a
M803	4	Appliance: BNGIF800a plus 1 x BNGIM803a	Appliance: BNGF800a plus 1 x BNGM803a

MODEL F900

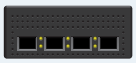
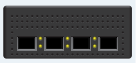
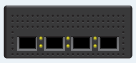
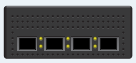
The F900 provides three port bracket bays for Barracuda Network modules M801, M802, and M803. The standard version of the F900 appliance has only the management port, while the three port bracket bays are, unlike in the figure below, empty and covered with faceplates.



Legend:

- *M801 - Barracuda Network Module with 8x1 GbE RJ45 copper ports*
- *M802 - Barracuda Network Module with 4x1GbE SFP*
- *M803 - Barracuda Network Module with 2x10 GbE SFP+ (10 Gbps)*

BAY A	BAY B	BAY C		ORDER NO. EMEA / INTERNATIONAL	ORDER NO. NORTH AMERICA
-	-	-	**1 (Default)**	Appliance: BNGIF900a	Appliance: BNGF900a
M801	M801	M801	2	Appliance: BNGIF900a plus 3 x BNGIM801a	Appliance: BNGF900a plus 3 x BNGM801a
M801	M801	M802	3	Appliance: BNGIF900a plus 2 x BNGIM801a plus 1 x BNGIM802a	Appliance: BNGF900a plus 2 x BNGM801a plus 1 x BNGM802a
M801	M801	M803	4	Appliance: BNGIF900a plus 2 x BNGIM801a plus 1 x BNGIM803a	Appliance: BNGF900a plus 2 x BNGM801a plus 1 x BNGM803a
M801	M801	-	5	Appliance: BNGIF900a plus 2 x BNGIM801a	Appliance: BNGF900a plus 2 x BNGM801a
M801	M802	M802	6	Appliance: BNGIF900a plus 1 x BNGIM801a plus 2 x BNGIM802a	Appliance: BNGF900a plus 1 x BNGM801a plus 2 x BNGM802a
M801	M802	M803	7	Appliance: BNGIF900a plus 1 x BNGIM801a plus 1 x BNGIM802a plux 1 x BNGIM803a	Appliance: BNGF900a plus 1 x BNGM801a plus 1 x BNGM802a plux 1 x BNGM803a
M801	M802	-	8	Appliance: BNGIF900a plus 1 x BNGIM801a plus 1 x BNGIM802a	Appliance: BNGF900a plus 1 x BNGM801a plus 1 x BNGM802a
M801	M803	M803	9	Appliance: BNGIF900a plus 1 x BNGIM801a plus 2 x BNGIM803a	Appliance: BNGF900a plus 1 x BNGM801a plus 2 x BNGM803a
M801	M803	-	10	Appliance: BNGIF900a plus 1 x BNGIM801a plus 1 x BNGIM803a	Appliance: BNGF900a plus 1 x BNGM801a plus 1 x BNGM803a

BAY A	BAY B	BAY C		ORDER NO. EMEA / INTERNATIONAL	ORDER NO. NORTH AMERICA
M801	-	-	11	Appliance: BNGIF900a plus 1 x BNGIM801a	Appliance: BNGF900a plus 1 x BNGM801a
M802	M802	M802	12	Appliance: BNGIF900a plus 3 x BNGIM802a	Appliance: BNGF900a plus 3 x BNGM802a
M802 	M802 	M803	13	Appliance: BNGIF900a plus 2 x BNGIM802a plus 1 x BNGIM803a	Appliance: BNGF900a plus 2 x BNGM802a plus 1 x BNGM803a
M802 	M802	-	14	Appliance: BNGIF900a plus 2 x BNGIM802a	Appliance: BNGF900a plus 2 x BNGM802a
M802	M803	M803	15	Appliance: BNGIF900a plus 1 x BNGIM802a plus 2 x BNGIM803a	Appliance: BNGF900a plus 1 x BNGM802a plus 2 x BNGM803a
M802	M803	-	16	Appliance: BNGIF900a plus 1 x BNGIM802a plus 1 x BNGIM803a	Appliance: BNGF900a plus 1 x BNGM802a plus 1 x BNGM803a
M802 	-	-	17	Appliance: BNGIF900a plus 1 x BNGIM802a	Appliance: BNGF900a plus 1 x BNGM802a
M803	M803	M803	18	Appliance: BNGIF900a plus 3 x BNGIM803a	Appliance: BNGF900a plus 3 x BNGM803a
M803	M803	-	19	Appliance: BNGIF900a plus 2 x BNGIM803a	Appliance: BNGF900a plus 2 x BNGM803a
M803	-	-	20	Appliance: BNGIF900a plus 1 x BNGIM803a	Appliance: BNGF900a plus 1 x BNGM803a

Features & Capabilities

BARRACUDA NG FIREWALL

MODEL	F10	F100 F101	F200 F201	F280	F300 F301	F400 F600 F800 F900	VIRTUAL APPLIANCES
FIREWALL							
Stateful packet forwarding (per rule)	●	●	●	●	●	●	●
Transparent proxy (TCP; per rule)	●	●	●	●	●	●	●
Inline graphical packet analyser	●	●	●	●	●	●	●
NAT (src, dst, nets), PAT	●	●	●	●	●	●	●
Policy-based NAT (per rule)	●	●	●	●	●	●	●
Protocol support (IPv4, IPv6 [1], ARP)	●	●	●	●	●	●	●
Gigabit performance	-	-	-	●	-	●	●
Object oriented rule set	●	●	●	●	●	●	●
Virtual rule sets	●	●	●	●	●	●	●
Virtual rule test environment	●	●	●	●	●	●	●
Redirection to local application	●	●	●	●	●	●	●
Realtime connection status	●	●	●	●	●	●	●
Historical access caches	●	●	●	●	●	●	●
Event triggered notification	●	●	●	●	●	●	●
Load balancing for protected servers	●	●	●	●	●	●	●
Multipath load balancing	●	●	●	●	●	●	●
Firewall-to-firewall compression (stream & packet compression)	●	●	●	●	●	●	●
Dynamic rules with timer triggered deactivation (per rule)	●	●	●	●	●	●	●
Bridging mode / routing mode (mixed)	●	●	●	●	●	●	●
Virtual IP (proxyARP) support	●	●	●	●	●	●	●
Transparent IP to user mapping	●	●	●	●	●	●	●
User authentication (x.509, Microsoft® NTLM, RADIUS, RSA SecurID, LDAP/LDAPS, Microsoft® Active Directory®, TACACS+, local)	●	●	●	●	●	●	●
RPC protocol support (ONC-RPC, DCE-RPC)	●	●	●	●	●	●	●
VoIP support (H.323, SIP, SCCP (skinny))	●	●	●	●	●	●	●
DHCP relaying with packet loop protection and configurable agent-ID policy	●	●	●	●	●	●	●
Standby mode	Active-Active (with external Link-Balancer only) and Active-Passive						
Network notification on failover	●	●	●	●	●	●	●
Key-based authentication	●	●	●	●	●	●	●
Encrypted HA communication	●	●	●	●	●	●	●
Transparent failover without session loss	●	●	●	●	●	●	●
Provider/link failover	●	●	●	●	●	●	●
INTRUSION PREVENTION SYSTEM							
Inline Intrusion Prevention (pattern-based)	●	●	●	●	●	●	●
Application Control	●	●	●	●	●	●	●
Generic pattern filter	●	●	●	●	●	●	●
Active ARP handling	●	●	●	●	●	●	●
SYN / DoS / DDoS attack protection	●	●	●	●	●	●	●
Reverse routing path check	●	●	●	●	●	●	●
ICMP flood ping protection	●, by size and rate limit						
Malformed packet check	●	●	●	●	●	●	●
TCP split handshake protection	●	●	●	●	●	●	●

1 IPv6 firewall forwarding traffic, IPS, and Application Control. Full support for IPv6 (6in4, 4in6) is scheduled for H1/2014

MODEL	F10	F100 F101	F200 F201	F280	F300 F301	F400 F600 F800 F900	VIRTUAL APPLIANCES
INTRUSION PREVENTION SYSTEM (CONTINUED)							
TCP stream segmentation check	●	●	●	●	●	●	●
URL obfuscation check	●	●	●	●	●	●	●
FTP evasion check	●	●	●	●	●	●	●
RPC defragmentation check	●	●	●	●	●	●	●
HTML decoding	-	-	-	●	-	●	●
HTML decompression	-	-	-	●	-	●	●
Regular online pattern updates	●	●	●	●	●	●	●
IPS exception (whitelisting)	●	●	●	●	●	●	●
ROUTING, NETWORKING							
HA capable with transparent session failover	●	●	●	●	●	●	●
GbE ethernet support	●	●	●	●	●	●	●
Max number of physical interfaces	4	4	4	4	8	F400: 8 F600: 12 F800: 20 F900: 24	n/a
802.1q VLAN support	●	●	●	●	●	●	●
xDSL support (PPPoE, PPTP (multi-link))	●	●	●	●	●	●	●
3G/UMTS/HSDPA/HSUPA	Barracuda 3G/UMTS USB Modem M10						-
DHCP client support	●	●	●	●	●	●	●
ISDN support (EuroISDN (syncppp, rawip))	-	●	●	●	●	-	-
Link monitoring (DHCP, 3G/UMTS, xDSL, ISDN)	●	●	●	●	●	●	●
Policy routing support	●	●	●	●	●	●	●
Ethernet channel bonding	●	●	●	●	●	●	●
Multiple networks on interface, IP aliases	●	●	●	●	●	●	●
Multiple provider / WAN link support	●	●	●	●	●	●	●
Configurable MTU size (per route)	●	●	●	●	●	●	●
Jumbo Frames (up to 8,000 bytes)	●	●	●	●	●	●	●
IPinIP and GRE tunnels	●	●	●	●	●	●	●
PPTP	●	●	●	●	●	●	●
BGP	●	●	●	●	●	●	●
Dynamic VPN routing	●	●	●	●	●	●	●
Integrated OSPF/RIP router	●	●	●	●	●	●	●
TRAFFIC MANAGEMENT							
Maximum overall bandwidth per interface	●	●	●	●	●	●	●
On-the-fly reprioritisation via via firewall status GUI	●	●	●	●	●	●	●
Ingress shaping per interface	●	●	●	●	●	●	●
CENTRAL USER AUTHENTICATION							
Supported services	VPN, FW, HTTP Proxy		VPN, FW, HTTP/FTP/SSH Proxy				
Authentication methods	MS NTLM, MS CHAP, RADIUS, RSA SecurID, LDAP/LDAPS, MS Active Directory, TACACS+, local						
VPN							
Encryption support (AES-128/256, 3DES, DES, Null)	●	●	●	●	●	●	●
Cryptohardware acceleration (VIA Padlock)	●	●	●	-	●	-	-
Private CA (up to 4,096 bit RSA)	●	●	●	●	●	●	●
External PKI support	●	●	●	●	●	●	●
x.509v3 policy extensions (Fully recognised)	●	●	●	●	●	●	●
Certificate revocation (OCSP, CRL)	●	●	●	●	●	●	●
Site-to-site VPN with traffic intelligence	●	●	●	●	●	●	●
WAN traffic compression via data deduplication	-	-	●	●	●	●	●
Star (hub and spoke) VPN network topology	●	●	●	●	●	●	●

MODEL	F10	F100 F101	F200 F201	F280	F300 F301	F400 F600 F800 F900	VIRTUAL APPLIANCES
VPN (CONTINUED)							
Client VPN	●	●	●	●	●	●	●
Microsoft® domain logon (Pre-logon)	●	●	●	●	●	●	●
Strong user authentication	●	●	●	●	●	●	●
Replay protection	●	●	●	●	●	●	●
NAT traversal	●	●	●	●	●	●	●
HTTPS and SOCKS proxy compatible	●	●	●	●	●	●	●
Redundant VPN gateways	●	●	●	●	●	●	●
Native IPsec for third-party connectivity	●	●	●	●	●	●	●
PPTP/L2TP (IPsec; client VPN only)	●	●	●	●	●	●	●
OSPF via VPN	●	●	●	●	●	●	●
SYSTEM MANAGEMENT							
Central management	●	●	●	●	●	●	●
Local management	●	●	●	●	●	●	●
Comprehensive GUI-based configuration management	●	●	●	●	●	●	●
Command-line interface (CLI) available	●	●	●	●	●	●	●
SSH-based access	●	●	●	●	●	●	●
Multiple administrators	●	●	●	●	●	●	●
Role-based administrators	●	●	●	●	●	●	●
Real-time accounting and visualisation	-	-	●	●	●	●	●
Easy roll-out and recovery	●	●	●	●	●	●	●
USB installation and recovery	●	●	●	●	●	●	●
Full life-cycle management	●	●	●	●	●	●	●
In-band management	●	●	●	●	●	●	●
Dedicated management interface	●	●	●	●	●	●	●
Serial interfaces	●	●	●	●	●	●	●
Central management interface	●	●	●	●	●	●	●
All management via VPN tunnel	●	●	●	●	●	●	●
LOGGING/MONITORING/ACCOUNTING							
System health, activity monitoring	●	●	●	●	●	●	●
Monitoring of network environment	●	●	●	●	●	●	●
Dynamic routing table updates	●	●	●	●	●	●	●
FW connection monitoring	●	●	●	●	●	●	●
Human readable log files	●	●	●	●	●	●	●
Active event notification	UPD/Email/SNMP trap						
Real-time accounting and reporting	-	-	-	●	●	●	●
Syslog streaming (fully GUI configurable)	●	●	●	●	●	●	●
ADDITIONAL FUNCTIONS							
SNMP queries	●	●	●	●	●	●	●
SMS control	●	●	●	●	●	●	●
NTP4 time server and client	●	●	●	●	●	●	●
DNS							
Multi-domain support	●	●	●	●	●	●	●
DNS operation types	Master, slave, forwarder, cacher						
DNS doctoring	●	●	●	●	●	●	●
SSH-GATEWAY							
Termination of SSHv2 terminal access sessions (not supported: remote execution/secure copy/secure FTP)	-	-	●	●	●	●	●
Central user authentication	MSNT, MSAD, LDAP, RADIUS, RSA-ACE, TACACS+						

MODEL	F10	F100 F101	F200 F201	F280	F300 F301	F400 F600 F800 F900	VIRTUAL APPLIANCES
SSH-GATEWAY (CONTINUED)							
User specific / group specific restrictions	-	-	●	●	●	●	●
Public key authentication on target system	-	-	●	●	●	●	●
Session / activity tracing	-	-	●	●	●	●	●
Customizable login greeting text	-	-	●	●	●	●	●
DHCP							
DHCP server	●	●	●	●	●	●	●
DHCP relay	●	●	●	●	●	●	●
Lease DB visualization & management	●	●	●	●	●	●	●
Multi-homing, multi-netting	●	●	●	●	●	●	●
Class-based filtering	●	●	●	●	●	●	●
Dynamic DNS support	●	●	●	●	●	●	●
FTP GATEWAY							
Restrict active/passive data transfer	-	-	●	●	●	●	●
Restrict non-RFC FTP commands	-	-	●	●	●	●	●
Full integration with Barracuda NG Malware Protection	-	-	●	●	●	●	●
Buffer overflow protection	-	-	●	●	●	●	●
Central user authentication	MSNT, MSAD, LDAP, RADIUS, RSA-ACE, TACACS+						
Customizable login greeting text	-	-	●	●	●	●	●
User specific / group specific restrictions	-	-	●	●	●	●	●
Destination redirection / specific restrictions	-	-	●	●	●	●	●
Time restrictions	-	-	●	●	●	●	●
Deny file up/download	-	-	●	●	●	●	●
Deny file/directory modifications	-	-	●	●	●	●	●
Deny specific file extensions	-	-	●	●	●	●	●
Activity visualization & reporting	-	-	●	●	●	●	●
MAIL SECURITY & SPAM FILTER							
Supported protocols	-	-	SMTP, POP3	SMTP, POP3	SMTP, POP3	SMTP, POP3	SMTP, POP3
Multi-domain support	-	-	●	●	●	●	●
Configurable relaying policy per domain	-	-	●	●	●	●	●
DSN generation	-	-	●	●	●	●	●
Spool-queue visualization & management	-	-	●	●	●	●	●
Visualisation of mail activity backlog	-	-	●	●	●	●	●
Spool-queue synchronisation for HA	-	-	●	●	●	●	●
Restrictable mail reception	-	-	●	●	●	●	●
Configurable maximum mail data size	-	-	●	●	●	●	●
Configurable maximum number of mail recipients	-	-	●	●	●	●	●
Support for external virus scanning	-	-	●	●	●	●	●
Activity visualization & reporting	-	-	●	●	●	●	●
Mail delivery	-	-	Explicit, MX	Explicit, MX	Explicit, MX	Explicit, MX	Explicit, MX
Accept policies	-	-	●	●	●	●	●
Recipient database	-	-	●	●	●	●	●
Configurable block criteria (host, subject, sender, recipient)	-	-	●	●	●	●	●
Attachment and/or header stripping	-	-	●	●	●	●	●
Subject rewriting	-	-	●	●	●	●	●
Cloning	-	-	●	●	●	●	●
Grey listing	-	-	●	●	●	●	●

MODEL	F10	F100 F101	F200 F201	F280	F300 F301	F400 F600 F800 F900	VIRTUAL APPLIANCES
MAIL SECURITY & SPAM FILTER (CONTINUED)							
Supports a scripting language for configuration	-	-	●	●	●	●	●
Subject modification on spam	-	-	●	●	●	●	●
White lists / black lists	-	-	●	●	●	●	●
Online tests	-	-	DCC, RBL	DCC, RBL	DCC, RBL	DCC, RBL	DCC, RBL
Auto learning / training	-	-	●	●	●	●	●
Customizable rules for spam rating	-	-	●	●	●	●	●
WEB PROXY							
Supports cache hierarchies (parenting, neighboring)	●[1]	●	●	●	●	●	●
Cache hierarchies supporting protocols (ICP, HTCP, CARP, Cache Digest, WCCP)	●[1]	●	●	●	●	●	●
Proxying and caching (HTTP, FTP, and others)	●[1]	●	●	●	●	●	●
Proxying for SSL (no inspection)	●[1]	●	●	●	●	●	●
Transparent caching	●[1]	●	●	●	●	●	●
HTTP server acceleration	●[1]	●	●	●	●	●	●
Caching of DNS lookups	●[1]	●	●	●	●	●	●
Central user authentication (Native NTLM, RADIUS, RSA ACE, LDAP, MS Active Directory, TACACS+)	●[1]	●	●	●	●	●	●
Support for external virus scanning (ICAP)	●[1]	●	●	●	●	●	●
Access control mechanisms (Extensive ACL)	●[1]	●	●	●	●	●	●
Use proxy authentication for firewall	●[1]	●	●	●	●	●	●
Support of external redirector programs	●[1]	●	●	●	●	●	●
Upload blocking (POST)	●[1]	●	●	●	●	●	●
BARRACUDA WEB FILTER							
Black lists/White lists (per rule)	-	●	●	●	●	●	●
Filter categories	-	95	95	95	95	95	95
Temporal constraints	-	●	●	●	●	●	●
User specific / group specific restrictions	-	●	●	●	●	●	●
Online category database	-	●	●	●	●	●	●
Local update interval	-	N/A	N/A	N/A	N/A	N/A	N/A
Online update interval	-	continuously					
Customizable block pages	-	●	●	●	●	●	●
BARRACUDA NG WEB FILTER							
Black lists / White lists (per rule)	-	●	●	●	●	●	●
Filter categories	-	69	69	69	69	69	69
Number of entries	-	~ 100 million					
Temporal constraints	-	●	●	●	●	●	●
User specific / group specific restrictions	-	●	●	●	●	●	●
Category database	-	Local or online					
Local update interval	-	hourly	hourly	hourly	hourly	hourly	hourly
Online update interval	-	continuously					
Customizable block pages	-	●	●	●	●	●	●

1 *While technically feasible to use the web proxy on the F10 hardware it is recommended to only to use it to forward web traffic to the Barracuda Web Security Service in the cloud.*

MODEL	F10	F100 F101	F200 F201	F280	F300 F301	F400 F600 F800 F900	VIRTUAL APPLIANCES
BARRACUDA NG MALWARE PROTECTION							
Configurable archive recursion depth	-	●	●	●	●	●	●
Quarantine functionality for proxy	-	●	●	●	●	●	●
Configurable unknown archive policy	-	●	●	●	●	●	●
Configurable maximum archive size	-	●	●	●	●	●	●
Archiver package support	-	●	●	●	●	●	●
Office file-types support	-	●	●	●	●	●	●
Proactive detection of new threats	-	●	●	●	●	●	●
Advanced heuristics detection techniques	-	●	●	●	●	●	●
Number of signatures	-	Hundreds of thousands					
Frequency of signature updates	-	Multiple updates per day					

BARRACUDA **NETWORK ACCESS CLIENTS**

SOFTWARE FEATURES	BARRACUDA VPN CLIENT	BARRACUDA NG NAC SUBSCRIPTION	
		BARRACUDA NETWORK ACCESS CLIENT	BARRACUDA SSL VPN TRANSPARENT CLIENT
ARCHITECTURE			
Integrated VPN client	●	●	●
Integrated health agent	-	●	●
Managed personal firewall	-	●	●
Full NAC policy support	-	●	●
Customizable user interface	●	●	-
Low power consumption network stack	●	●	-
SUPPORTED OS VARIANTS			
Microsoft Windows XP (32-bit only)	●	●	●
Microsoft Windows Vista (32-bit, 64-bit)	●	●	●
Microsoft Windows 7 (32-bit, 64-bit)	●	●	●
Microsoft Windows 8 (32-bit, 64-bit)	●	●	●
Linux (kernel 2.4, kernel 2.6)	●	-	-
Mac OS X (10.6.x, 10.7.x, 10.8.x)	●	-	-
MANAGEMENT			
Central management of VPN configuration	●	●	●
VPN diagnostic log	●	●	●
VPN system diagnostics report	●	●	●
VPN status monitoring	●	●	●
Attack access cache	●	●	●
Packet log (capture)	●	●	●
VPN groups	●	●	●
Silent client setup	●	●	●
Password protection of settings [1,4]	●	●	●
AUTHENTICATION SUPPORT			
Microsoft® Certificate Management (Crypto API)	● [1]	●	●
Microsoft® Active Directory [2]	● [1]	●	●
LDAP [2]	●	●	●
RADIUS [2]	●	●	●
MSNT [2]	● [1]	●	●
RSAACE [2]	●	●	●
External X509 certificates	●	●	●
SMS PASSCODE [2]	●	●	●
RSA tokens [2]	●	●	●
Smart cards [3]	● [1]	●	●
Microsoft domain logon support (prelogon)	● [1]	●	-
PERSONAL FIREWALL CAPABILITIES			
Dynamic adapter object handling	●	●	●
Dynamic user object handling	●	●	-
RPC handling	●	●	●
Multiple rule sets support	●	●	-
Client side policy enforcement	●	●	●
Application control	●	●	-
Adapter control	●	●	●
User context enforcement	●	●	●
NetBIOS protection	●	●	●
DoS attack protection	●	●	●
Executable scripts	●	●	●

1 Only for Microsoft operating systems
2 Queried by Barracuda NG Firewall VPN server on behalf of client
3 For manufacturer with Microsoft Crypto Service Provider.
4 Also prevents changes to client settings by users with administrator rights.

SOFTWARE FEATURES	BARRACUDA VPN CLIENT	BARRACUDA NG NAC SUBSCRIPTION	
		BARRACUDA NETWORK ACCESS CLIENT	BARRACUDA SSL VPN TRANSPARENT CLIENT
POLICY MATCHING CAPABILITIES			
ID-based policies	●	●	●
Support for ID-based exemptions (health condition, software update)	-	●	●
Date and time conditions	●	●	●
Access type (internal and external category support)	-	●	●
Separate machine policies	-	●	-
Separate quarantine policies	-	●	●
Machine properties	-	●	●
User properties	-	●	●
Personal firewall active	-	●	●
Antivirus (AV) product installed (by vendor) [5]	-	●	●
AV active [5]	-	●	●
AV real-time protection active [5]	-	●	●
Last AV scan time [5]	-	●	●
Enforce overdue AV scan [5]	-	●	●
AV engine version [5]	-	●	●
AV pattern version [5]	-	●	●
AV pattern max age [5]	-	●	●
Enforce overdue AV engine/pattern update [5]	-	●	●
Anti-Spyware (AS) product installed (by vendor) [5]	-	●	●
AS active [5]	-	●	●
AS real-time protection active [5]	-	●	●
Last AS scan time [5]	-	●	●
Enforce overdue AS scan [5]	-	●	●
AS engine version [5]	-	●	●
AS pattern version [5]	-	●	●
AS pattern max age [5]	-	●	●
Enforce overdue AS engine/pattern update [5]	-	●	●
POLICY ASSIGNMENTS			
Personal firewall rule set	-	●	●
Registry entries	-	●	-
Welcome message, welcome picture	-	●	●
Corporate-ID support	-	●	●
ID-based exemption from enforced client updates	-	●	●
Gateway network access roles	-	●	●
VPN PROPERTIES			
Raw ESP	●	●	●
UDP encapsulation	●	●	●
TCP encapsulation	●	●	●
Hybrid encapsulation	●	●	●
DHCP-based parameter assignment [6]	●	●	●
Cryptography	●	●	●
AES-128/AES-256	●	●	●
3DES and DES	●	●	●
CAST and BLOWFISH	●	●	●
Authentication only (null encryption)	●	●	●
SHA-1 and MD5 hashing	●	●	●

5 If supported by AV / AS product
6 Involves routes, WINS & DNS adresses, IP address & network mask, domain & firewall rule set.

SOFTWARE FEATURES	BARRACUDA VPN CLIENT	BARRACUDA NG NAC SUBSCRIPTION	
		BARRACUDA NETWORK ACCESS CLIENT	BARRACUDA SSL VPN TRANSPARENT CLIENT
VPN CONNECTION INTELLIGENCE			
Redundant gateway support	●	●	●
NAT traversal	●	●	●
HTTPS proxy compatible	●	●	●
SSL handshake simulation	●	●	●
SOCKS4/5 proxy compatible	●	●	●
Pathfinder best gateway finder	●	●	-
WLAN roaming support	●	●	-
Always connect technology	●	●	-
Fast reconnect technology	●	●	-
SECURITY FEATURES			
Full server side control	●	●	●
Split DNS	●	●	●
Split tunnel mode	●	●	●
Exclusive Network Access ENA	●[7]	●	●

7 ENA function is only available if the full Barracuda Network Access Client is chosen during the installation procedure.

BARRACUDA NG CONTROL CENTER

SOFTWARE FEATURES	STANDARD EDITION (C400 AND VC400)	ENTERPRISE EDITION (C610 AND VC610)	GLOBAL EDITION (VC820)
CONFIGURATION MANAGEMENT			
Tenants	1	1	5
Configuration groups [1]	1	No limit	No limit
Maximum managed gateways [recommended]	No limit [20]	No limit [200]	No limit [1000+ depending on HW]
Configuration templates (repositories)	●	●	●
Shared configuration data	●	●	●
Operating system parameters	●	●	●
Networking/routing parameters	●	●	●
FW/VPN policies, application gateway parameters	●	●	●
Flat file data storage	●	●	●
Database characteristics (transaction orientation, locking, etc.)	●	●	●
Backup and restore functionality	●	●	●
Gateway configuration archive for speed install	●	●	●
Configuration update monitoring	●	●	●
Full RCS versioning	●	●	●
VPN graphical tunnel interface	●	●	●
Barracuda Network Access Client policy management	●	●	●
Multi-release management	-	●	●
Multi-platform management	●	●	●
STATUS MONITORING			
Gateway health state	●	●	●
Launch pad functionality	●	●	●
Customizable layout	●	●	●
Barracuda NG Earth support	-	●	●
TRUST CENTER			
Gateway x.509 certificate CA	●	●	●
Gateway SSH key management	●	●	●
VPN server for management tunnels to gateways	●	●	●
Virtual IP addresses for gateways (ProxyARP)	●	●	●
Dynamic gateway IP address support	●	●	●
LICENSE CENTER			
License timestamp server	●	●	●
License status display	●	●	●
Central event message list	●	●	●
Event forwarding (SNMP, mail)	●	●	●
Event log	●	●	●
BARRACUDA ACTIVATION			
Central activation of managed units	●	●	●
Central license retrieval for managed units	●	●	●
Central license extension for managed units	●	●	●
Offline (unit) activation for managed units	●	●	●
Offline (unit) license retrieval for managed units	●	●	●
Offline (unit) license extension for managed units	●	●	●

1 Note that "Configuration Groups" (named "cluster" in the firmware) refers to an administratively bundled group of Barracuda NG Firewall appliances and not to a load sharing cluster.

SOFTWARE FEATURES	STANDARD EDITION (C400 AND VC400)	ENTERPRISE EDITION (C610 AND VC610)	GLOBAL EDITION (VC820)
BARRACUDA ACTIVATION (CONTINUED)			
Activation properties per cluster	-	●	●
Activation properties per range	-	-	●
Full automatic activation	●	●	●
Manual activation	●	●	●
Activation of Vx units with license token	●	●	●
Activation of HA unit	●	●	●
CENTRAL SESSION TRACKING			
Session display	●	●	●
Session termination	●	●	●
CENTRAL SOFTWARE UPDATE			
Real-time version display	●	●	●
Kernel and OS updates	●	●	●
Barracuda NG Firewall updates	●	●	●
Update log viewer	●	●	●
SECURE REMOTE EXEC. ENVIRONMENT (SSHV2)			
Job scheduling	●	●	●
Script management	●	●	●
Execution log viewer	●	●	●
ADMINISTRATION MODEL			
Fully GUI-based access (NG Admin management tool)	●	●	●
Strong authentication & AES encryption	●	●	●
Role-based administration	●	●	●
Configurable roles	●	●	●
Adjustable view on configuration tree	●	●	●
Configurable administrative domains	-	●	●
Multiple domains per administrator	-	●	●
Configurable access on OS level	●	●	●
Configurable access notification	●	●	●
REPORTING AND ACCOUNTING			
Historical reports on gateway activity	●	●	●
Customer based gateway activity reports	●	●	●
Policy distribution	●	●	●
Control Center resource utilisation	●	●	●
Gateway-resource utilisation	●	●	●
Central log host	●	●	●
Streaming/relaying to external log host	●	●	●
ADDITIONAL FUNCTIONS			
NTP4 time server for gateways	●	●	●
Integrated DNS server	●	●	●
High availability	Optional	Optional	HA license included
SIEM syslog interface	●	●	●
Public Key Infrastructure	-	●	●
Revision Control System	●	●	●
Barracuda NG Access Monitor	●	●	●

CATEGORIZATION CATEGORIES - BARRACUDA **WEB FILTER**

	CATEGORIES
A	Academic Cheating
	Activist Groups
	Adult Content
	Advertisements / Pop ups
	Alcohol & Tobacco
	Arts, Society, & Culture
	Auctions & Classifieds
B	Blogs & Wikis
	Business
C	Chat
	Comics, Humor, & Jokes
	Computing and Technology
	Content Server
	Criminal Activity
D	Digital Cards
	Downloads
E	Education, Reference
	Entertainment
	Extremely Offensive
F	Fashion and Beauty
	Finance & Investment
	Food & Dining
	Foums & Newsgroups
G	Gambling
	Gambling Related
	Game Playing, Game Media
	Game/Cartoon Violence
	Government & Legal
H	Hacking
	Health & Medicine
	Historical Opinion
	History
	Hobbies & Recreation
	Hosted Personal Pages
I	Illegal Drugs
	Illegal Software
	Incidental Nudity
	Information Security
	Instant Messaging
	Interactive Web Applications
	Intimate Apparel & Swimsuit
	Intolerance & Hate
J	Job Search & Career Development
K	Kids Sites
M	Malicious Sites
	Marketing and Merchandizing
	Media Download
	Media Sharing

	CATEGORIES
M (cont.)	Messaging
	Mobile Communications
	Moderated Forums
	Motor Vehicles
N	News
	Nudity
O	Online Meetings
	Online Services
	Online Storage
P	Parked Sites
	Peer-to-peer
	Personals and Dating
	Phishing & Fraud
	Political Issues
	Pornography
	Profanity
	Professional Networking
	Proxies
	Proxy Utilities
	Public Information
R	Real Estate
	Religion
	Remote Access
	Resource Sharing
S	Search Engines & Portals
	Shopping
	Social Networking
	Software/Hardware
	Spam
	Sports
	Spyware
	Stock Trading
	Streaming Media
	Streaming Radio/TV
	Suspicious Sites
T	Tasteless & Offensive
	Technical & Busines Forums
	Technical Information
	Text or Audio only
	Translators
	Travel
U	Usenet News
V	Violence, Terrorism
	Visual Search
W	Weapons
	Web-based phone
	Web-based Email

CATEGORIZATION CATEGORIES - BARRACUDA **NG WEB FILTER**

	CATEGORIES
A	Abortion
	Alcohol
	Anonymous proxies
	Architecture / construction / furniture
	Arts / museums / theaters
	Auctions / classified ads
B	Banking
	Banner advertisements
	Blogs / bulletin boards
	Brokers / stock exchange
	Business networking
C	Chat
	Cinema / television
	Cities / regions / countries
	Communication services
	Computer crime / hacking
	Computer games
D	Dating
	Digital postcards
E	Education
	Environment / climate / pets
	Erotic / sex
F	Fashion / cosmetics / jewelry
	Financial services / insurance / real estate
G	Gambling / lottery
	General business
	Governmental organizations
H	Health
	Humor / cartoons
I	Illegal activities
	Illegal drugs
	Instant messaging
	IT security / IT information
J	Job search
L	Literature / books

	CATEGORIES
M	Malware
	Mobile telephony
	Music / radio broadcast
N	News / magazines
	Non-governmental organizations
P	Personal web sites
	Phishing URLs
	Political extreme / hate / discrimination
	Political parties
	Pornography
R	Recreational facilities / theme parks
	Religion
	Restaurants / entertainment venues
S	Search engines / web catalogs / portals
	Sects
	Self-help / addiction
	Shopping
	Social media
	Social networking
	Software / hardware
	Spam URLs
	Sports
	Swimwear / lingerie
T	Tobacco
	Toys
	Travel
U	Unknown
V	Vehicles
	Violence / extreme
W	Warez / software piracy
	Weapons / military
	Web site translation
	Web storage
	Webmail / unified messaging

Licensing

ACTIVATION

Barracuda NG Firewall appliances and Barracuda NG Firewall Control Centers, regardless if shipped as a hardware or virtual appliance, need to be activated to function properly. Upon login with the NG Admin management tool, the activation process will start and retrieve the needed license files automatically. If not done before, the user may need to fill in a form and accept the End User License Agreement (EULA) in the process. For Barracuda NG Firewall Vx editions a "License Token" will be sent out via email for verification before the actual activation. The Barracuda NG Control Center may perform an activation on behalf of a Barracuda NG Firewall, even if the actual unit is not yet online or known to the Barracuda NG Control Center. For more details please see below:

BARRACUDA NG FIREWALL AND NG CONTROL CENTER HARDWARE UNITS

For the Barracuda NG Firewalls to retrieve the licenses automatically via auto activation, an administrator needs to connect to the appliance using the NG Admin management tool. The workstation that NG admin is used on needs to be able to access the Internet to carry out activation and license retrieval on behalf for the accessed unit. By default, the activation procedure starts automatically after 30 seconds. It can also be started manually on the NG Admin "Status" page. During activation all available licenses will be transferred and stored in the licenses configuration node on the Barracuda NG Firewall. This procedure may be repeated several times, but only new licenses (e.g., license renewals or purchases of additional license subscriptions) these will be retrieved.

BARRACUDA NG FIREWALL VX AND NG CONTROL CENTER VX

For Barracuda NG Firewall Vx editions, the NG Admin management tool will ask for a license token before activation. At this point the license token that was distributed via email needs to be entered. The license token is usually a simple text string containing letters and numbers separated by dashes like E6NEN-H5H69-62WKY. Upon entering the license token, the MAC address of your virtual machine will be retrieved and licenses will be issued based on this MAC address and provided to the NG Firewall Vx. The VMware machine will also receive a unique serial ID that you will need for future downloads of IPS updates, content security updates, and license extensions.

The license token may be entered several times, but only during the first use new licenses will be retrieved. For subsequent use of the license token, the procedure will retrieve the licenses issued earlier.

Note:
The activation date determines the start date for the following subscriptions: Energize Updates (incl. IPS), NG Web Filter, NG Malware Protection, NG Web Security, SSL VPN, and NAC.

BASE LICENSES FOR BARRACUDA NG FIREWALL UNITS

This license contains unlimited users (protected IPs, VPN tunnel, and VPN clients) without a limit on concurrent connections. The license is associated with a hardware ID and model of the machine it was issued for. Typically, a MAC address of a network card is used as the key for the license. The generated license file is transferred to the unit during the activation procedure.

Note:
The Barracuda NG Firewall hardware detection function will carry out a compatibility check upon installation. If the base license does not match the actual hardware model, the system will enter a 15-day "grace period". After 15 days the Barracuda NG Firewall will stop forwarding any traffic.

BASE LICENSES FOR BARRACUDA NG FIREWALL VX UNITS

The base licenses for virtual appliances allow the installation of a Barracuda NG Firewall on supported virtualization solutions and support a specific number of CPU cores. The base licenses are limited by the defined capacity numbers contained in their names, e.g., for the Barracuda NG Firewall VF25 the capacity limit is 25. The only exemptions are editions VF1000, VF2000, VF4000, and VF8000 which include unlimited user licenses.

Capacity is tracked by the firewall based on concurrent usage and entails firewall traffic (protected IPs), application traffic (e.g., through the proxy or FTP gateway), and any SSL VPN or client VPN traffic.

EDITION	CAPACITY	NO. OF SUPPORTED CPU CORES
VF25	25	2
VF50	50	2
VF100	100	2
VF250	250	2
VF500	500	2
VF1000	No limit	2
VF2000	No limit	4
VF4000	No limit	8
VF8000	No limit	16

Note:
Timeout for firewall traffic is 60 minutes, SSL VPN timeout is 30 minutes, client VPN timeout is immediate.

BARRACUDA NG FIREWALL SUBSCRIPTIONS AND RESPECTIVE LICENSE CAPACITIES

SUBSCRIPTION	HARDWARE APPLIANCES (IF APPLICABLE)	VIRTUAL APPLIANCES
Barracuda NG Web Filter	No limit	limited by capacity or CPU cores
Barracuda NG Malware Protection	No limit	limited by capacity or CPU cores
Barracuda NG Web Security	No limit	limited by capacity or CPU cores
Barracuda NG SSL VPN and NAC	No limit	limited by capacity or CPU cores

Note:
It is not possible to mix models with subscriptions from other models. For example a VF250 base license cannot be mixed with the Barracuda NG Web Security subscription of VF500.

FORMAT OF LICENSES

All Barracuda NG Firewall licenses are x.509 certificates issued and signed by the Barracuda Networks Certificate Authority. Because all Barracuda NG Firewall products have the Barracuda Networks public key built into the product, they can easily validate the certificates and extract the license information.

SYSTEM BEHAVIOR WITH INVALID OR MISSING LICENSES

Evaluation mode

Even without a valid license the Barracuda NG Firewall system will provide almost all relevant features. Nevertheless, the system is not intended to serve any other purpose than evaluation. Please take into consideration that systems in evaluation mode provide only weak encryption & authentication methods (DES, RSA-512).

Note:
In this mode the default password for the root account will always be accepted, even if it was changed before.

Grace Period

In the case of a hardware failure or transfer of service to another appliance, a license strictly bound to a MAC address results in a loss of service. For this reason, almost every issued Barracuda NG Firewall license has a "grace period" (typically 15 days). During this time, the Barracuda NG Firewall works according to the parameters defined in the license, even if the hardware ID that the license is attached to does not match the actual hardware. If this happens, please contact your local Barracuda Networks sales team or Barracuda Networks partner immediately to obtain a new license.

CPU core restricted licenses

Licenses with a restriction on the number of supported CPU cores (such as licenses for virtual machines) are immediately invalid without grace mode if the available number of CPU cores exceeds the number of CPU cores specified in the license.

Evaluation licenses

Evaluation licenses provide access to the full feature set of the Barracuda NG Firewall but are time limited. Please note that upon expiration of such a license the Barracuda NG Firewall will NOT stop forwarding traffic, but any configuration changes (with the exception of entering a license / activating) or online updates will be prevented.

Ordering Information

Calculation of co-terminus subscriptions:
To allow customers to consolidate their maintenance and subscription offerings to a single end or renewal date, daily rates for all subscription types are offered. These daily rates should be used to extend expiring subscriptions to coincide with the dates of subscriptions expiring in the future. Barracuda Networks does credit early termination of subscriptions using these daily rates.

BARRACUDA **NG FIREWALL APPLIANCES**

PRODUCT	ORDER NO. EMEA / INTERNATIONAL	ORDER NO. NORTH AMERICA
Barracuda NG Firewall F10		
Barracuda NG Firewall Model F10	BNGIF10a	BNGF10a
Energize Updates (1Y, 3Y, 5Y)	BNGIF10a-e1,3,5	BNGF10a-e1,3,5
Instant Replacement (1Y, 3Y, 5Y)	BNGIF10a-h1,3,5	BNGF10a-h1,3,5
Premium Support (1Y, 3Y, 5Y)	BNGIF10a-p1,3,5	BNGF10a-p1,3,5
Barracuda NG Firewall Cold Spare F10	BNGIF10a-c	BNGF10a-c
Barracuda NG Firewall F100		
Barracuda NG Firewall Model F100	BNGIF100a	BNGF100a
Energize Updates (1Y, 3Y, 5Y)	BNGIF100a-e1,3,5	BNGF100a-e1,3,5
Instant Replacement (1Y, 3Y, 5Y)	BNGIF100a-h1,3,5	BNGF100a-h1,3,5
Premium Support (1Y, 3Y, 5Y)	BNGIF100a-p1,3,5	BNGF100a-p1,3,5
Barracuda NG Web Security (1Y, 3Y, 5Y)	BNGIF100a-w1,3,5	BNGF100a-w1,3,5
Barracuda NG Web Filter (1Y, 3Y, 5Y)	BNGIF100a-u1,3,5	BNGF100a-u1,3,5
Barracuda NG Malware Protection (1Y, 3Y, 5Y)	BNGIF100a-m1,3,5	BNGF100a-m1,3,5
Barracuda NG Firewall Cold Spare F100	BNGIF100a-c	BNGF100a-c
Barracuda NG Firewall F101 (Wifi Bundle)		
Barracuda NG Firewall Model F101 (Wifi Bundle)	BNGIF101a	BNGF101a
Energize Updates (1Y, 3Y, 5Y)	BNGIF101a-e1,3,5	BNGF101a-e1,3,5
Instant Replacement (1Y, 3Y, 5Y)	BNGIF101a-h1,3,5	BNGF101a-h1,3,5
Premium Support (1Y, 3Y, 5Y)	BNGIF101a-p1,3,5	BNGF101a-p1,3,5
Barracuda NG Web Security (1Y, 3Y, 5Y) [1]	BNGIF101a-w1,3,5	BNGF101a-w1,3,5
Barracuda NG Web Filter (1Y, 3Y, 5Y)	BNGIF101a-u1,3,5	BNGF101a-u1,3,5
Barracuda NG Malware Protection (1Y, 3Y, 5Y)	BNGIF101a-m1,3,5	BNGF101a-m1,3,5
Barracuda NG Firewall Cold Spare F101	BNGIF101a-c	BNGF101a-c
Barracuda NG Firewall F200		
Barracuda NG Firewall Model F200	BNGIF200a	BNGF200a
Energize Updates (1Y, 3Y, 5Y)	BNGIF200a-e1,3,5	BNGF200a-e1,3,5
Instant Replacement (1Y, 3Y, 5Y)	BNGIF200a-h1,3,5	BNGF200a-h1,3,5
Premium Support (1Y, 3Y, 5Y)	BNGIF200a-p1,3,5	BNGF200a-p1,3,5
Barracuda NG Web Security (1Y, 3Y, 5Y) [1]	BNGIF200a-w1,3,5	BNGF200a-w1,3,5
Barracuda NG Web Filter (1Y, 3Y, 5Y)	BNGIF200a-u1,3,5	BNGF200a-u1,3,5
Barracuda NG Malware Protection (1Y, 3Y, 5Y)	BNGIF200a-m1,3,5	BNGF200a-m1,3,5
Barracuda NG SSL VPN and NAC (1Y, 3Y, 5Y)	BNGIF200a-v1,3,5	BNGF200a-v1,3,5
Barracuda NG Firewall Cold Spare F200	BNGIF200a-c	BNGF200a-c

1 *Includes Barracuda NG Web Filter and Barracuda NG Malware Protection*

PRODUCT	ORDER NO. EMEA / INTERNATIONAL	ORDER NO. NORTH AMERICA
Barracuda NG Firewall F201 (Wifi Bundle)		
Barracuda NG Firewall Model F201 (Wifi Bundle)	BNGIF201a	BNGF201a
Energize Updates (1Y, 3Y, 5Y)	BNGIF201a-e1,3,5	BNGF201a-e1,3,5
Instant Replacement (1Y, 3Y, 5Y)	BNGIF201a-h1,3,5	BNGF201a-h1,3,5
Premium Support (1Y, 3Y, 5Y)	BNGIF201a-p1,3,5	BNGF201a-p1,3,5
Barracuda NG Web Security (1Y, 3Y, 5Y) [1]	BNGIF201a-w1,3,5	BNGF201a-w1,3,5
Barracuda NG Web Filter (1Y, 3Y, 5Y)	BNGIF201a-u1,3,5	BNGF201a-u1,3,5
Barracuda NG Malware Protection (1Y, 3Y, 5Y)	BNGIF201a-m1,3,5	BNGF201a-m1,3,5
Barracuda NG SSL VPN and NAC (1Y, 3Y, 5Y)	BNGIF201a-v1,3,5	BNGF201a-v1,3,5
Barracuda NG Firewall Cold Spare F201	BNGIF201a-c	BNGF201a-c
Barracuda NG Firewall F280		
Barracuda NG Firewall Model F280	BNGIF280a	BNGF280a
Energize Updates (1Y, 3Y, 5Y)	BNGIF280a-e1,3,5	BNGF280a-e1,3,5
Instant Replacement (1Y, 3Y, 5Y)	BNGIF280a-h1,3,5	BNGF280a-h1,3,5
Premium Support (1Y, 3Y, 5Y)	BNGIF280a-p1,3,5	BNGF280a-p1,3,5
Barracuda NG Web Security (1Y, 3Y, 5Y) [1]	BNGIF280a-w1,3,5	BNGF280a-w1,3,5
Barracuda NG Web Filter (1Y, 3Y, 5Y)	BNGIF280a-u1,3,5	BNGF280a-u1,3,5
Barracuda NG Malware Protection (1Y, 3Y, 5Y)	BNGIF280a-m1,3,5	BNGF280a-m1,3,5
Barracuda NG SSL VPN and NAC (1Y, 3Y, 5Y)	BNGIF280a-v1,3,5	BNGF280a-v1,3,5
Barracuda NG Firewall Cold Spare F280	BNGIF280a-c	BNGF280a-c
Barracuda NG Firewall F300		
Barracuda NG Firewall Model F300	BNGIF300a	BNGF300a
Energize Updates (1Y, 3Y, 5Y)	BNGIF300a-e1,3,5	BNGF300a-e1,3,5
Instant Replacement (1Y, 3Y, 5Y)	BNGIF300a-h1,3,5	BNGF300a-h1,3,5
Premium Support (1Y, 3Y, 5Y)	BNGIF300a-p1,3,5	BNGF300a-p1,3,5
Barracuda NG Web Security (1Y, 3Y, 5Y) [1]	BNGIF300a-w1,3,5	BNGF300a-w1,3,5
Barracuda NG Web Filter (1Y, 3Y, 5Y)	BNGIF300a-u1,3,5	BNGF300a-u1,3,5
Barracuda NG Malware Protection (1Y, 3Y, 5Y)	BNGIF300a-m1,3,5	BNGF300a-m1,3,5
Barracuda NG SSL VPN and NAC (1Y, 3Y, 5Y)	BNGIF300a-v1,3,5	BNGF300a-v1,3,5
Barracuda NG Firewall Cold Spare F300	BNGIF300a-c	BNGF300a-c
Barracuda NG Firewall F301 (Wifi Bundle)		
Barracuda NG Firewall Model F301 (Wifi Bundle)	BNGIF301a	BNGF301a
Energize Updates (1Y, 3Y, 5Y)	BNGIF301a-e1,3,5	BNGF301a-e1,3,5
Instant Replacement (1Y, 3Y, 5Y)	BNGIF301a-h1,3,5	BNGF301a-h1,3,5
Premium Support (1Y, 3Y, 5Y)	BNGIF301a-p1,3,5	BNGF301a-p1,3,5
Barracuda NG Web Security (1Y, 3Y, 5Y) [1]	BNGIF301a-w1,3,5	BNGF301a-w1,3,5
Barracuda NG Web Filter (1Y, 3Y, 5Y)	BNGIF301a-u1,3,5	BNGF301a-u1,3,5
Barracuda NG Malware Protection (1Y, 3Y, 5Y)	BNGIF301a-m1,3,5	BNGF301a-m1,3,5
Barracuda NG SSL VPN and NAC (1Y, 3Y, 5Y)	BNGIF301a-v1,3,5	BNGF301a-v1,3,5
Barracuda NG Firewall Cold Spare F301	BNGIF301a-c	BNGF301a-c

1 Includes Barracuda NG Web Filter and Barracuda NG Malware Protection
2 Available F600 models: C10, C20, F10, F20, E20; please see page 41 for details

PRODUCT	ORDER NO. EMEA / INTERNATIONAL	ORDER NO. NORTH AMERICA
Barracuda NG Firewall F400		
Barracuda NG Firewall Model F400	BNGIF400a	BNGF400a
Energize Updates (1Y, 3Y, 5Y)	BNGIF400a-e1,3,5	BNGF400a-e1,3,5
Instant Replacement (1Y, 3Y, 5Y)	BNGIF400a-h1,3,5	BNGF400a-h1,3,5
Premium Support (1Y, 3Y, 5Y)	BNGIF400a-p1,3,5	BNGF400a-p1,3,5
Barracuda NG Web Security (1Y, 3Y, 5Y) [1]	BNGIF400a-w1,3,5	BNGF400a-w1,3,5
Barracuda NG Web Filter (1Y, 3Y, 5Y)	BNGIF400a-u1,3,5	BNGF400a-u1,3,5
Barracuda NG Malware Protection (1Y, 3Y, 5Y)	BNGIF400a-m1,3,5	BNGF400a-m1,3,5
Barracuda NG SSL VPN and NAC (1Y, 3Y, 5Y)	BNGIF400a-v1,3,5	BNGF400a-v1,3,5
Barracuda NG Firewall Cold Spare F400	BNGIF400a-c	BNGF400a-c
Barracuda NG Firewall F600		
Barracuda NG Firewall Model F600	BNGIF600a.<model> [2]	BNGF600a.<model> [2]
Energize Updates (1Y, 3Y, 5Y)	BNGIF600a.<model>-e1,3,5	BNGF600a.<model>-e1,3,5
Instant Replacement (1Y, 3Y, 5Y)	BNGIF600a.<model>-h1,3,5	BNGF600a.<model>-h1,3,5
Premium Support (1Y, 3Y, 5Y)	BNGIF600a.<model>-p1,3,5	BNGF600a.<model>-p1,3,5
Barracuda NG Web Security (1Y, 3Y, 5Y) [1]	BNGIF600a.<model>-w1,3,5	BNGF600a.<model>-w1,3,5
Barracuda NG Web Filter (1Y, 3Y, 5Y)	BNGIF600a.<model>-u1,3,5	BNGF600a.<model>-u1,3,5
Barracuda NG Malware Protection (1Y, 3Y, 5Y)	BNGIF600a.<model>-m1,3,5	BNGF600a.<model>-m1,3,5
Barracuda NG SSL VPN and NAC (1Y, 3Y, 5Y)	BNGIF600a.<model>-v1,3,5	BNGF600a.<model>-v1,3,5
Barracuda NG Firewall Cold Spare F600	BNGIF600a.<model>-c	BNGF600a.<model>-c
Barracuda NG Firewall F800		
Barracuda NG Firewall Model F800	BNGIF800a	BNGF800a
Energize Updates (1Y, 3Y, 5Y)	BNGIF800a-e1,3,5	BNGF800a-e1,3,5
Instant Replacement (1Y, 3Y, 5Y)	BNGIF800a-h1,3,5	BNGF800a-h1,3,5
Premium Support (1Y, 3Y, 5Y)	BNGIF800a-p1,3,5	BNGF800a-p1,3,5
Barracuda NG Web Security (1Y, 3Y, 5Y)	BNGIF800a-w1,3,5	BNGF800a-w1,3,5
Barracuda NG Web Filter (1Y, 3Y, 5Y) [1]	BNGIF800a-u1,3,5	BNGF800a-u1,3,5
Barracuda NG Malware Protection (1Y, 3Y, 5Y)	BNGIF800a-m1,3,5	BNGF800a-m1,3,5
Barracuda NG SSL VPN and NAC (1Y, 3Y, 5Y)	BNGIF800a-v1,3,5	BNGF800a-v1,3,5
Barracuda NG Firewall Cold Spare F800	BNGIF800a-c	BNGF800a-c
Barracuda NG Firewall F900		
Barracuda NG Firewall Model F900	BNGIF900a	BNGF900a
Energize Updates (1Y, 3Y, 5Y)	BNGIF900a-e1,3,5	BNGF900a-e1,3,5
Instant Replacement (1Y, 3Y, 5Y)	BNGIF900a-h1,3,5	BNGF900a-h1,3,5
Premium Support (1Y, 3Y, 5Y)	BNGIF900a-p1,3,5	BNGF900a-p1,3,5
NG Web Security (1Y, 3Y, 5Y) [1]	BNGIF900a-w1,3,5	BNGF900a-w1,3,5
NG Web Filter (1Y, 3Y, 5Y)	BNGIF900a-u1,3,5	BNGF900a-u1,3,5
NG Malware Protection (1Y, 3Y, 5Y)	BNGIF900a-m1,3,5	BNGF900a-m1,3,5
NG SSL VPN and NAC (1Y, 3Y, 5Y)	BNGIF900a-v1,3,5	BNGF900a-v1,3,5
Barracuda NG Firewall Cold Spare F900	BNGIF900a-c	BNGF900a-c

BARRACUDA **NG FIREWALL NETWORK MODULES FOR MODELS F800-F900**

PRODUCT	ORDER NO. EMEA / INTERNATIONAL	ORDER NO. NORTH AMERICA
Barracuda Network Module M801 – 8x1 GbE Copper	BNGIM801a	BNGM801a
Barracuda Network Module M802 – 4x1 GbE SFP	BNGIM802a	BNGM802a
Barracuda Network Module M803 – 2x10 GbE SFP+	BNGIM803a	BNGM803a

Note:
Transceivers have to be bought separately and are not included in the Network Modules M802 and M803.

BARRACUDA **NG FIREWALL HARDWARE OPTIONS**

PRODUCT	ORDER NO. EMEA / INTERNATIONAL	ORDER NO. NORTH AMERICA
Barracuda 3G/UMTS USB modem M10 for models F10-F900	BNGIM10a	BNGM10a
Barracuda 19" rackmount shelf kit for F10x-F20x	BPNGIRAC-01	BPNGRAC-01
Barracuda rail kit for F400-F600	BPNGIRAC-02	BPNGRAC-02
Barracuda L-shape rackmount bracket (2x) for F280	BPIRAC-02	BPRAC-02

BARRACUDA **NG CONTROL CENTER APPLIANCES**

PRODUCT	ORDER NO. EMEA / INTERNATIONAL	ORDER NO. NORTH AMERICA
Barracuda NG Control Center C400 - Standard Edition	BNCIC400a	BNCC400a
Energize Updates (1Y, 3Y, 5Y)	BNCIC400a-e1,3,5	BNCC400a-e1,3,5
Instant Replacement (1Y, 3Y, 5Y)	BNCIC400a-h1,3,5	BNCC400a-h1,3,5
Premium Support (1Y, 3Y, 5Y)	BNCIC400a-p1,3,5	BNCC400a-p1,3,5
Barracuda NG Control Center Cold Spare C400	BNCIC400a-c	BNCC400a-c
Barracuda NG Control Center C610 - Enterprise Edition	BNCIC610a	BNCC610a
Energize Updates (1Y, 3Y, 5Y)	BNCIC610a-e1,3,5	BNCC610a-e1,3,5
Instant Replacement (1Y, 3Y, 5Y)	BNCIC610a-h1,3,5	BNCC610a-h1,3,5
Premium Support (1Y, 3Y, 5Y)	BNCIC610a-p1,3,5	BNCC610a-p1,3,5
Barracuda NG Control Center Cold Spare C610	BNCIC400a-c	BNCC400a-c

BARRACUDA **NG CONTROL CENTER VIRTUAL APPLIANCES**

PRODUCT	ORDER NO. EMEA / INTERNATIONAL	ORDER NO. NORTH AMERICA
Barracuda NG Control Center VC400 - Standard Edition	BNCIVC400a	BNCVC400a
Energize Updates (1Y, 3Y, 5Y)	BNCIVC400a-e1,3,5	BNCVC400a-e1,3,5
Premium Support (1Y, 3Y, 5Y)	BNCIVC400a-p1,3,5	BNCVC400a-p1,3,5
Barracuda NG Control Center VC610 - Enterprise Edition	BNCIVC610a	BNCVC610a
Energize Updates (1Y, 3Y, 5Y)	BNCIVC610a-e1,3,5	BNCVC610a-e1,3,5
Premium Support (1Y, 3Y, 5Y)	BNCIVC610a-p1,3,5	BNCVC610a-p1,3,5
Barracuda NG Control Center VC820 - Global Edition	BCCIVC820a	BCCVC820a
Energize Updates (1Y, 3Y, 5Y)	BCCIVC820a-e1,3,5	BCCVC820a-e1,3,5
Premium Support (1Y, 3Y, 5Y)	BCCIVC820a-p1,3,5	BCCVC820a-p1,3,5
Additional Tenant (Range) for Barracuda NG Control Center VC820 (monthly)	BNCI-b1	BNC-b1

BARRACUDA **NG FIREWALL VIRTUAL APPLIANCES**

PRODUCT	ORDER NO. EMEA / INTERNATIONAL	ORDER NO. NORTH AMERICA
Barracuda NG Firewall VF25, VF50, VF100, VF250, VF500, VF1000, VF2000, VF4000, VF8000	BNGIVF25a,….BNGIVF8000a	BNGVF25a,….BNGVF8000a
Energize Updates (1Y, 3Y, 5Y)	BNGIVF<user>-e<subscription duration>, e.g. BNGIVF25a-e1	BNGVF<user>-e<subscription duration>, e.g. BNGVF25a-e1
Premium Support (1Y, 3Y, 5Y)	BNGIVF<user>-p<subscription duration>, e.g. BNGIVF25a-p1	BNGVF<user>-p<subscription duration>, e.g. BNGVF25a-p1
NG Web Security (1Y, 3Y, 5Y)	BNGIVF<user>-w<subscription duration>, e.g. BNGIVF25a-w1	BNGVF<user>-w<subscription duration>, e.g. BNGVF25a-w1
NG Web Filter (1Y, 3Y, 5Y)	BNGIVF<user>-u<subscription duration>, e.g. BNGIVF25a-u3	BNGVF<user>-u<subscription duration>, e.g. BNGVF25a-u3
NG Malware Protection (1Y, 3Y, 5Y)	BNGIVF<user>-m<subscription duration>, e.g. BNGIVF25a-m1	BNGVF<user>-m<subscription duration>, e.g. BNGVF25a-m1
NG SSL VPN and NAC (1Y, 3Y, 5Y)	BNGIVF<user>-s<subscription duration>, e.g. BNGIVF25a-v1	BNGVF<user>-s<subscription duration>, e.g. BNGVF25a-v1

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