Barracuda **NextGen Firewall F**

The Next Generation Firewall for the Cloud-Era

☑ **Security**
☐ Storage
☐ Application Delivery
☐ Productivity

Enterprise networks grow larger and more complex every day - and more critical to key business operations. The Barracuda NextGen Firewall F-Series is an essential tool to **optimize the performance, security, and availability of today's dispersed enterprise WANs.**

The Barracuda Advantage

Effective WAN Management
• Application-based traffic prioritization across the WAN
• Intelligent uplink balancing
• Intelligent traffic re-prioritization on uplink loss

Enterprise Readiness
• Industry-leading centralized management
• WAN optimization
• Global WAN monitoring with Barracuda Earth

Scalable Security
• Cloud Enablement and secure WAN Virtualization
• Drag-and-drop VPN graphical tunnel interface

Product Spotlight

• Powerful next-generation network firewall
• Advanced Threat Detection
• Built-in web security and IDS/IPS
• Dynamic mesh site-to-site VPN
• Client-to-Site VPN via browser (SSL VPN), mobile apps and desktop VPN clients
• Full application visibility and granular control
• Intelligent traffic regulation including application-based provider selection
• Tightly integrated Quality of Service (QoS) and link balancing
• Centralized management of all functionality
• Template-based and role-based configuration

Integrated Next-Generation Security

The Barracuda NextGen Firewall F-Series is designed and built from the ground up to provide comprehensive, next-generation firewall capabilities. Cloud-hosted content filtering and reporting offload compute-intensive tasks to the cloud for greater resource efficiency and throughput. Based on application visibility, user-identity awareness, intrusion prevention, and centralized management, F-Series is the ideal solution for today's dynamic enterprises.

Regaining Control of User Activity

The Barracuda NextGen Firewall F-Series restores control to networks made opaque and unmanageable by mobile devices at work, Web 2.0 applications, increasing dispersion, and the growing integration and dependence on cloud-based resources. It extends security coverage beyond network boundaries, and makes it easy to monitor and regulate everything the network and its users are doing.

True Enterprise Readiness

The Barracuda NextGen Firewall F-Series meets the enterprise requirements for massive scalability and efficient management across distributed networks. Integrated WAN optimization and dedicated centralized management appliances enable organizations to increase system availability while keeping administrative time and operation costs low.

The Barracuda NextGen Firewall F-Series' dashboard provides real-time information and summaries of what is going on in an organization's network.

Technical Specs

Firewall

- Stateful packet inspection and forwarding
- Full user-identity awareness
- Intrusion Detection and Prevention System (IDS/IPS)
- Application control and granular application enforcement
- Interception and decryption of SSL/TLS encrypted applications
- Antivirus and web filtering in single pass mode
- SafeSearch enforcement
- Google Accounts Enforcement
- Denial of Service protection (DoS/DDoS)
- Spoofing and flooding protection
- ARP spoofing and trashing protection
- DNS reputation filtering
- TCP stream reassembly
- Transparent proxying (TCP)
- NAT (SNAT, DNAT), PAT
- Dynamic rules / timer triggers
- Single object-oriented rule set for routing, bridging, and routed bridging
- Virtual rule test environment

User Identity Awareness

- Terminal Server Agent
- Domain Controller Agent
- Authentication – supports x.509, NTLM, RADIUS, RSA SecurID, LDAP/LDAPS, Active Directory, TACACS+, SMS Passcode (VPN), local authentication database
- WiFi Access Point Authentication support

Intrusion Detection and Prevention

- Protection against exploits, threats and vulnerabilities
- Packet anomaly and fragmentation protection
- Advanced anti-evasion and obfuscation techniques
- Automatic signature updates

Traffic Optimization

- Link monitoring, aggregation, and failover
- Dynamic routing
- Application-based provider selection
- Traffic shaping and QoS
- On-the-fly flow reprioritization
- Stream and packet compression
- Byte-level data deduplication
- Protocol optimization (SMBv2)

Advanced Threat Detection

- Dynamic, on-demand analysis of malware programs (sandboxing)
- Dynamic analysis of documents with embedded exploits (PDF, Office, etc.)
- Detailed forensics for both, malware binaries and web threats (exploits)
- Support for multiple operating systems (Windows, Android, etc.)
- Botnet and Spyware Protection
- Flexible malware analysis in the cloud

VPN

- Drag & drop VPN tunnel configuration
- Secure site-to-site, client-to-site VPN
- Dynamic mesh site-to-site VPN
- Supports AES-128/256, 3DES, DES, Blowfish, CAST, null ciphers
- Private CA or external PKI
- VPNC certified (basic interoperability)
- Application-aware traffic routing
- IPsec VPN / SSL VPN / TINA VPN/ L2TP / PPTP
- Network Access Control
- iOS and Android mobile device VPN support

High Availability

- Active-active (requires external load balancer) or active-passive
- Transparent failover without session loss
- Network notification of failover
- Encrypted HA communication

Central Management Options

- Barracuda NextGen Control Center
  - Unlimited firewalls
  - Support for multi-tenancy
  - Multi-administrator support & RCS

Infrastructure Services

- DHCP server, relay
- SIP, HTTP, SSH, FTP proxies
- SNMP and IPFIX support
- DNS Cache
- SMTP gateway and SPAM filter
- Wi-Fi (802.11n) access point on selected models

Protocol Support

- IPv4, IPv6
- BGP/OSPF/RIP
- VoIP (H.323, SIP, SCCP [skinny])
- RPC protocols (ONC-RPC, DCE-RPC)
- 802.1q VLAN

Support Options

Barracuda Energize Updates

- Standard technical support
- Firmware updates
- IPS signature updates
- Application control definition updates
- Web filter updates

Instant Replacement Service

- Replacement unit shipped next business day
- 24/7 technical support
- Free hardware refresh every four years

Security Options

- Advanced Threat Detection provides file-type-based protection against advanced malware and cloud-based sandboxing
- Malware Protection
- Premium Remote Access subscription provides remote access via the CudaLaunch App for Windows, Mac OS X, iOS and Android devices

MODEL COMPARISON	F18	F80	F180	F280	F380	F400 STD	F400 F20	F600 C10/C20	F600 F10/F20	F600 E20	F800 CCC	F800 CCF	F800 CCE	F900 CCC	F900 CCE	F900 CFE	F1000 CE0	F1000 CE2	F1000 CFE
CAPACITY																			
Firewall Throughput [1]	1.0 Gbps	1.35 Gbps	1.65 Gbps	3.0 Gbps	3.8 Gbps	5.5 Gbps		16.3 Gbps [6]			19.6 Gbps [6]			22.2 Gbps [6]			40 Gbps [6]		
VPN Throughput [2]	190 Mbps	240 Mbps	300 Mbps	1.0 Gbps	1.2 Gbps	1.2 Gbps		2.3 Gbps [6]			7.3 Gbps [6]			7.8 Gbps [6]			10 Gbps [6]		
IPS Throughput [1]	400 Mbps	500 Mbps	600 Mbps	1.0 Gbps	1.4 Gbps	2.0 Gbps		5.0 Gbps [6]			6.5 Gbps [6]			7.1 Gbps [6]			13 Gbps [6]		
Concurrent Sessions	80,000	80,000	100,000	250,000	400,000	500,000		2,100,000 [6]			2,500,000 [6]			4,000,000 [6]			10,000,000 [6]		
New Session/s	8,000	8,000	9,000	10,000	15,000	20,000		115,000 [6]			150,000 [6]			160,000 [6]			250,000 [6]		
HARDWARE																			
Form Factor	Desktop					1U rack mount								2U rack mount					
1 GbE Copper Ethernet NICs	4x	4x	6x	6x	8x	8x	8x	12x	8x	8x	20x	12x	12x	24x	16x	8x	16x	32x	16x
1 GbE Fiber NICs (SFP)							4x		4x			4x				8x			16x
10 GbE Fiber NICs (SFP+)											2x		4x	4x	4x	4x		8x	8x
Integrated Switch			8-port	8-port															
Wi-Fi Access Point		●	●	●															
FEATURES																			
Firewall	●	●	●	●	●	●		●			●			●			●		
Application Control [3]	●	●	●	●	●	●		●			●			●			●		
IPS [3]	●	●	●	●	●	●		●			●			●			●		
Dynamic Routing	●	●	●	●	●	●		●			●			●			●		
App-based Provider Selection	●	●	●	●	●	●		●			●			●			●		
VPN	●	●	●	●	●	●		●			●			●			●		
SSL Interception	●	●	●	●	●	●		●			●			●			●		
WAN Optimization	●	●	●	●	●	●		●			●			●			●		
Web Filter	●	●	●	●	●	●		●			●			●			●		
Mail Gateway & Spam Filter			●	●	●	●		●			●			●			●		
Malware Protection [4]	Optional	Optional	Optional	Optional	Optional	Optional		Optional			Optional			Optional			Optional		
Advanced Threat Detection [4,5]	Optional	Optional	Optional	Optional	Optional	Optional		Optional			Optional			Optional			Optional		
Premium Remote Access		Optional	Optional	Optional	Optional	Optional		Optional			Optional			Optional			Optional		

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