Barracuda CloudGen Firewall

Protecting cloud connected users, network workloads and devices wherever they reside

Product Overview

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About Barracuda Networks

Barracuda Networks provides cloud-connected security and storage solutions that simplify IT. These powerful, easy-to-use, and affordable solutions are trusted by more than 150,000 organizations worldwide. Barracuda's expansive product portfolio delivers protection against threats targeting email, web, and network intrusions, as well as products that improve application delivery, network access, message archiving, backup, and data protection, on-premises or in the cloud.

Barracuda's high-value, subscription-based IT solutions provide end-to-end network and data security that helps customers address security threats, improve network performance, and protect and store their data.

Barracuda's international headquarters are in the heart of northern California's Silicon Valley.

Barracuda CloudGen Firewall

The first cloud-generation firewall

More and more companies all over the world adopt and integrate public cloud offerings into their network. But "before you can work in the cloud, you have to get to cloud" has never been more true than today.

Shifting workloads to cloud based services, regardless if Software as a Service (SaaS), Platform as a Service (PaaS) or Infrastructure as a service (IaaS) exposed a different set of requirements WAN edge and network security devices today need to address: Optimizing connectivity for business critical applications, enforcing higher security levels than ever and reducing cost by moving away from expensive MPLS lines.

Because traditional WAN edge and security products did not adapt to these new challenges, a new set of solutions enabling cost efficient connectivity across the cloud-enabled WAN has emerged: SD-WAN.

However, SD-WAN typically does not address security-related aspects. It is considered more like a connectivity solution that works besides the security solution - at best. Just like different species.

Barracuda CloudGen Firewall is the first to combine full next-generation security with the connectivity optimization and cost savings potentials of a full SD-WAN solution onto one single easy to manage hardware, virtual or cloud based appliance. CloudGen Firewall improves site-to-site connectivity and enable uninterrupted access to applications hosted in the cloud all while simplifying the administration of network operations for enterprises and managed services providers.

CloudGen Firewall achieves this by tightly integrating a comprehensive set of next-generation firewall technologies, including layer 7 application profiling, intrusion prevention, web filtering, advanced threat and malware protection, spam protection, and network access control. Yet on top of these cutting-edge next-generation firewall capabilities, CloudGen Firewall's highly resilient VPN technology combined with intelligent traffic management and WAN compression capabilities allow customers to save line costs and increase overall network availability.

All pieces of the solution are centrally manageble across all platforms and release versions, reducing ongoing administrative overhead and ensuring policy compliance and enforcement across the wide area network.
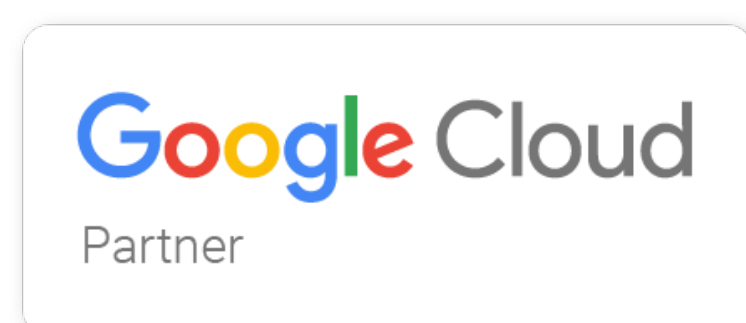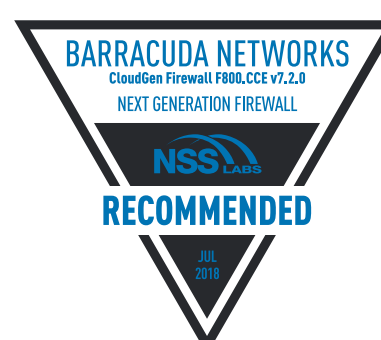
Benefits at a glance

Consolidated security without compromise: All Barracuda CloudGen Firewall models and deployment options provide comprehensive next-generation firewalling including application control and user awareness, full mail & web security gateway functionality, malware protection, botnet and spyware detection, typosquatting & link protection, sandboxing (Advanced Threat Protection), URL filter, and file type policy enforcement. All this combined with unbeatable network security and packed into a single, powerful appliance. The tight integration of web security and network security features enables advanced functionalities, such as prioritizing certain application traffic based on user/group info and time information, and allowing certain applications to go out via predefined uplinks only.

Cloud ready: The ongoing shift of IT workloads to cloud services in order to increase flexibility and reduce costs requires a reliable, cost-effective extension of the company WAN to the cloud. This applies to headquarters as well as direct Internet breakouts at every branch location. Barracuda CloudGen Firewall models come fully featured for all common cloud IaaS providers, as virtual appliances, and in a variety of hardware appliances for even small offices. Hybrid WAN and cloud-only networks can thereby also benefit from the Barracuda CloudGen Firewall.

Secure SD-WAN capabilities: Significantly increase uplink and WAN network reliability and performance by using and aggregating up to 24 active, load-sharing connections of any type (broadband, 4G, MPLS between locations). WAN optimization functionality including data deduplication and caching, traffic compression and application acceleration increase available bandwidth far beyond the sum of all available physical uplinks combined.

Dynamic, on-the-fly adjustments of QoS and application usage policies depending on dynamic bandwidth measurement make sure there will always be enough bandwidth for business-critical applications. And with zero-touch deployment even the largest rollouts are easy to execute.

Unified remote access: Access to applications - regardless if hosted in the cloud or on premises - is commonly expected not only from within the company network but from any remote location or mobile device.
Barracuda CloudGen Firewall includes zero-touch for remote access, unified remote-access clients for macOS, Windows, iOS, and Android devices to make sure employees enjoy fast and reliable access to corporate applications from inside the network — and anywhere else, too.

Once-only central management: The entire Barracuda CloudGen Firewall infrastructure, regardless if only a few devices or a couple thousand distributed across thousands of locations and multiple deployment types, can be deployed, managed and monitored from a single pane of glass through the Barracuda Firewall Control Center. Managing several hundreds of firewalls requires the same effort as managing one firewall.

Unparalleled cost savings: Barracuda CloudGen Firewall consolidates security, SD-WAN, link balancing, and WAN compression disciplines into a single appliance that provides significant cost savings due to the reduction or elimination of expensive leased lines and consolidation of security devices. Even for small rollouts of only a few devices, customers achieve a return of investment after just a few months, while thousands of dollars can be saved over the course of the next few years.

How much can you save on MPLS line costs with Barracuda CloudGen Firewall? Visit savings.barracuda.com and find out!

Perimeter security

Full application awareness

Mobile devices, online applications, social networks, and streaming media have caused an enormous increase in non-business network data traffic, pushing bandwidth capacities to their limits and causing degradation in performance of business-critical applications. Application control built into every Barracuda CloudGen Firewall allows admins to accurately identify and control thousands of protocols and applications (like software updates, BitTorrent, Skype, instant messaging etc.) crossing the network and not visible with regular port-based firewalls. The Barracuda CloudGen Firewall gives administrators granular control over applications. They can define rules for forwarding application traffic using the most suitable uplink based on type of application, user, content, time of day, and even geographical location. Unsanctioned applications can be reliably blocked or bandwidth throttled to an acceptable level.

Deep application context

Deep application context analysis enables deeper inspection of the application data stream by continually evaluating the actual intentions of applications and the respective users. For example, if a user attempts to use an application like "hidemyass" to bypass traditional web filtering, Barracuda CloudGen Firewall cannot only block the application itself, but also report the website the user originally attempted to connect to. For more details, please click here…

Custom application definitions

On top of thousands of applications that are delivered out of the box and constantly updated, Barracuda CloudGen Firewall provides an easy way to create user-defined application definitions. For example, admins can allow just a very limited set of Facebook apps while blocking all others, or assign more bandwidth to homegrown or legacy business systems. For more details, please click here…

Application-based routing

A unique combination of next-generation security and adaptive WAN routing technology allows CloudGen Firewall to dynamically assign available bandwidth, uplink, and routing information based not only on protocol, user, location, and content, but also on applications, application categories, and even web content categories. This keeps expensive, highly available lines free for business- and mission-critical applications, while significantly reducing response times and freeing up additional bandwidth. For more details, please click here…
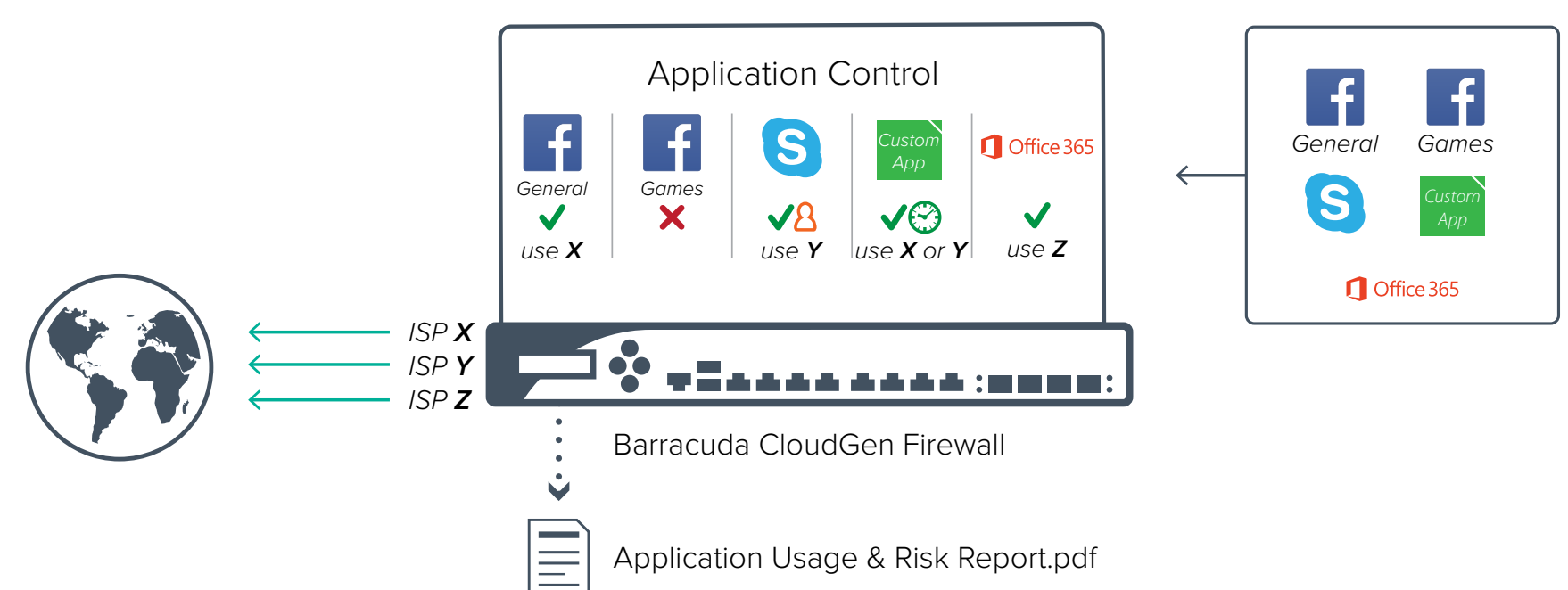
Figure 1 - Application-based routing with Barracuda CloudGen Firewall

Real-time application reporting and manipulation

For on-the-fly reporting and drill-down capabilities, Barracuda CloudGen Firewall comes with real-time and historical application visibility that show live and recent application traffic on the corporate network that can be interactively filtered and drilled down. This helps admins to decide which application connections should be given bandwidth prioritization and who is currently violating acceptable use policies.
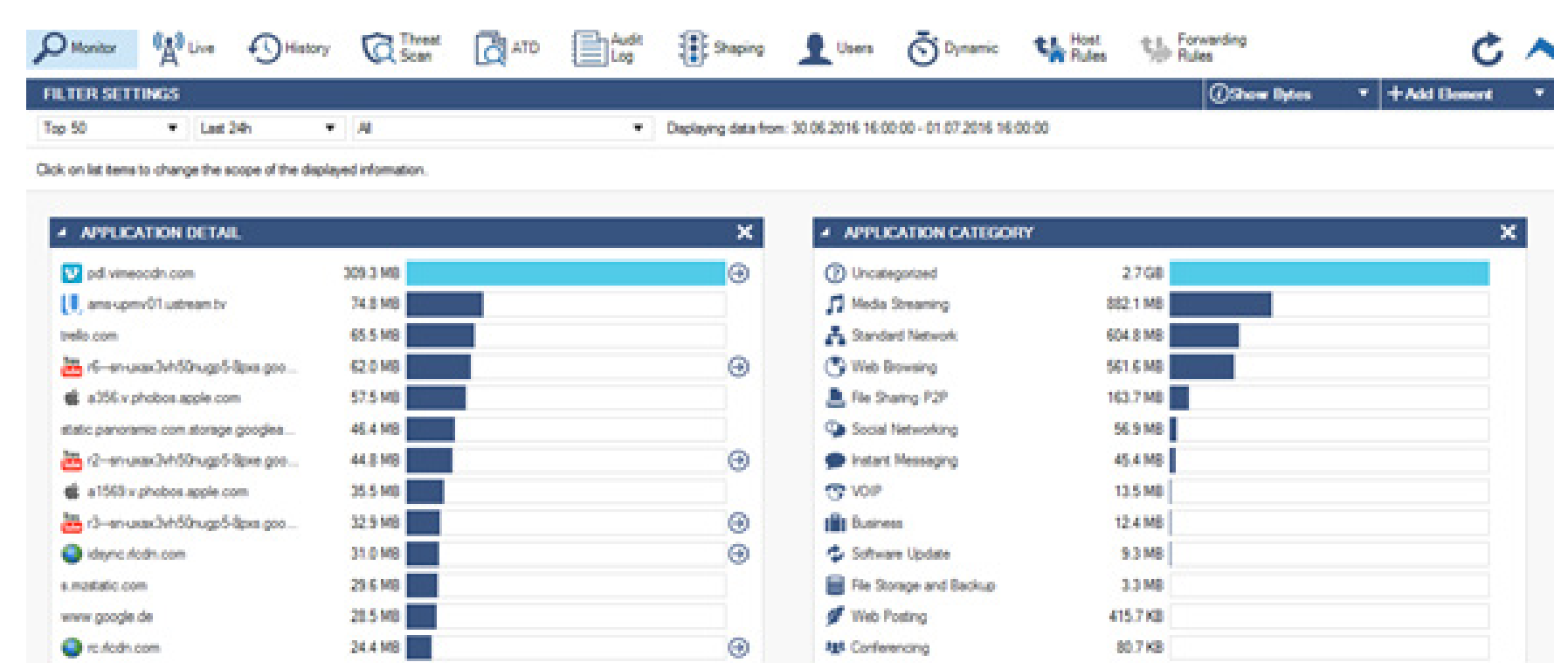
Figure 2 - Real-time application reporting

Application risk and usage report

The application usage and risk report is one of many predefined reports in the free Barracuda Firewall Report Creator tool that provides automated reports and risk analysis based on the network traffic traversing the network. It gives an overview of how effective the currently deployed policies are in detecting and enforcing corporate application usage policies and even provides recommendations of what actions should be taken to improve these policies.

Barracuda CloudGen Firewall can easily be deployed risk free into existing networks to collect data required for generating such reports by using either a layer-2 network bridge or SPAN port / port mirroring deployment. No matter what method is used, collecting the traffic has no impact on the firewall performance at all.

Creating reports can be started manually (on-demand) or scheduled (including automated email distribution). And - of course - reports are fully customizable to comply with possible branding requirements.

Figure 3 - Example for an application risk and usage report

Full user identity awareness

Barracuda CloudGen Firewall combines application control with seamless support for all commonly used authentication schemes such as active directory, RADIUS, and LDAP/S. That means reporting can be done based on user and group membership (instead of source IP addresses), and firewall and application policy rules can easily be created for individual users and groups.
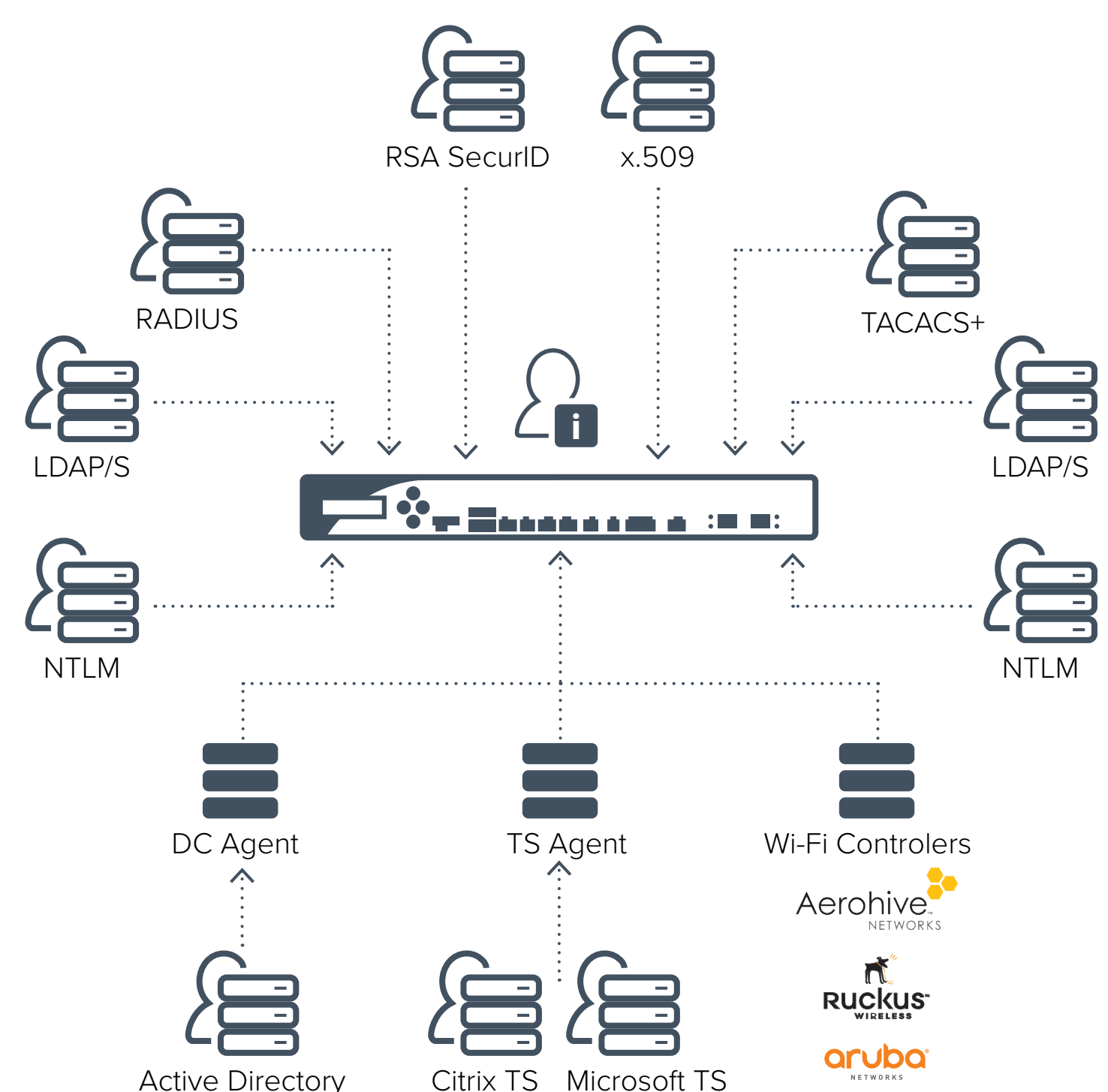
Figure 4 - Seamless support for commonly used authentication schemes

Web security gateway

Advanced Threat Protection

Barracuda Advanced Threat Protection (ATP) uses next-generation sandbox technology including full-system emulation to catch advanced persistent threats, zero-day malware, and all advanced malware designed specifically to evade detection. ATP on Barracuda CloudGen Firewall ensures flexible and simple deployment into existing networks because no additional hardware is required. Resource-intensive sandboxing is offloaded to the Barracuda ATP Cloud with its multiple datacenters in the Americas, mainland Europe, and the UK. A hash fingerprint of each file and the good/bad classification of all sandboxed files are stored and cached for future use, effectively speeding up processing and guaranteeing near instantaneous results. Over 95% of all files checked by the ATP service have typically been seen before and only very few files need processing.

Since the Barracuda ATP cloud database cache is continuously updated by tens of thousands of CloudGen Firewall deployments, Email Security Gateways, Web Security Gateways and Barracuda Essentials, the ATP service provides a true worldwide early detection grid for newly emerging malware.

With ATP on CloudGen Firewall, the firewall administrator has full policy control over how PDF documents, Microsoft Office Files, EXEs/MSIs/DLLs, Android APKs, compressed files, and archives are emulated and delivered to the client. Based on identified malware activity, infected users can be automatically quarantined, thereby preventing the malware from spreading within the network. Customizable, on-demand analysis reports for any emulated file provide full insight and details on malicious activities, file behavior, system-registry entries, and evasion and obfuscation techniques.

This also enables network activities such as establishing encrypted connections to botnet command and control centers for increased security posture to evade scaled botnet attacks.
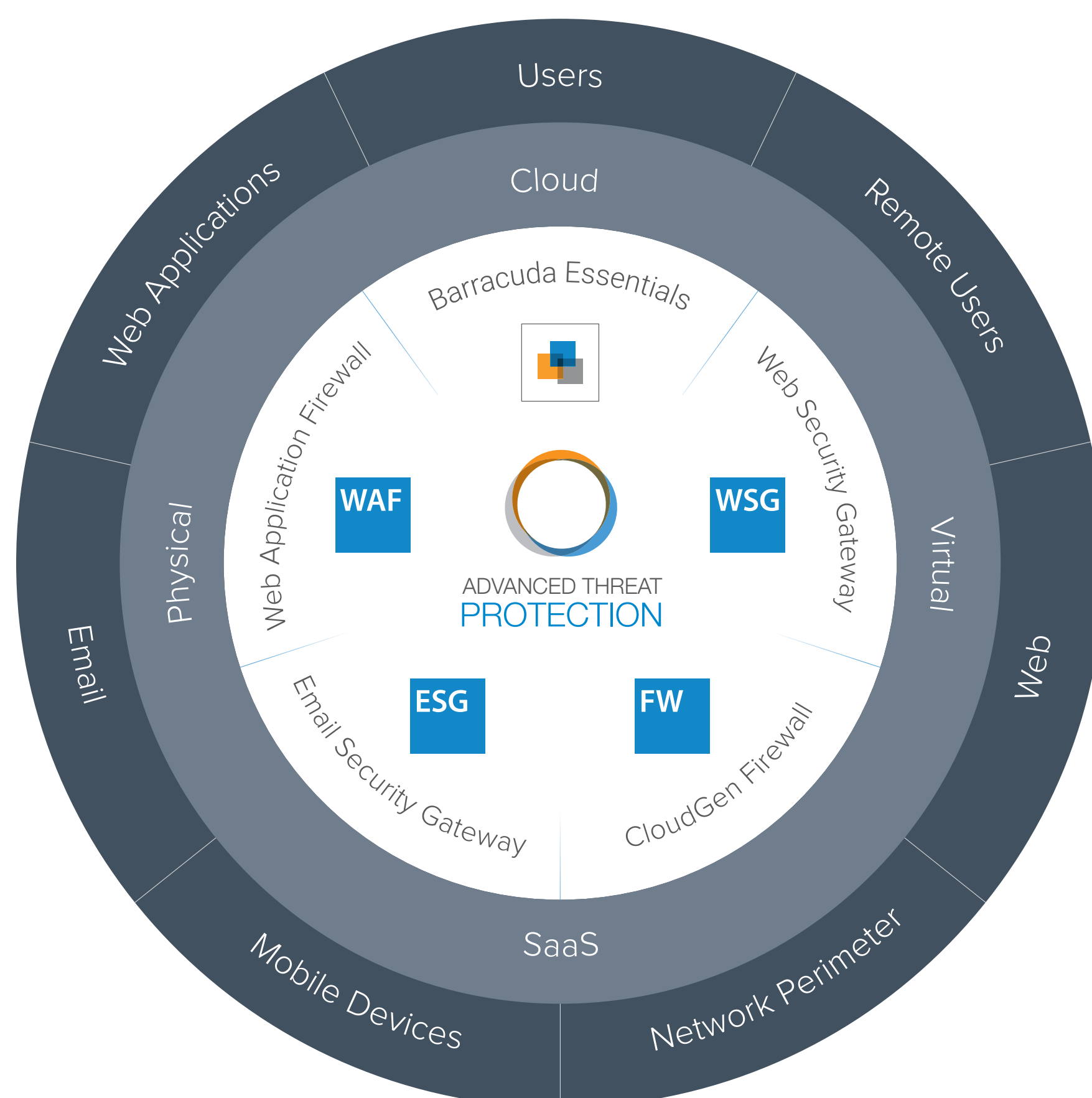
Figure 5 - Barracuda Advanced Threat Protection architecture

Botnet and spyware protection

In combination with the ATP cloud database, all CloudGen Firewall models and deployment types provide protection against botnet infections and detect potentially infected clients based on DNS requests. Once an infected client is detected, it can be isolated automatically, and an alert can be created or reported with the Barracuda Firewall Report Creator.

Typo squatting & link protection for email

This important feature of ATP adds protection for two rising threats: uncovering misleading and misspelled links.

The link protection component automatically rewrites deceptive URLs in email messages to a Barracuda-validated URL and informs the requesting user on this change via a warning page displaying all the details about the blocked URL.

Typo squatting is a common trick to fool users into clicking on a link to a known source although the link is misspelled (e.g., examlpe.com), comes with a different top-level domain (e.g., example.org), or contains special characters (e.g., greek character rho for "p" - examρle.com), etc.

Web filtering

Web filtering on CloudGen Firewall is included with the Energize Updates subscription and enables highly granular, real-time visibility into online activity, broken down by individual users and applications, thereby letting administrators create and enforce effective Internet content and access policies.

Web filter functionality with CloudGen Firewall protects user productivity, blocks malware downloads and other web-based threats, enables compliance by blocking access to inappropriate websites and servers, and provides an additional layer of security alongside application control. For more details, please click here…

Safe Search enforcement

Many search engines have a safe search setting that filters out adult search results such as inappropriate images and videos in search query return traffic. On CloudGen Firewall customers can easily activate Safe Search enforcement so that the firewall will enforce safe search settings for all common search providers such as Google, Yahoo, and Bing, and even within YouTube. Search engines not supported can easily be blocked.

This functionality is even effective within SSL-encrypted search engines like google.com if SSL Inspection (included with all Barracuda CloudGen Firewall models and deployment types) is activated.

Google Apps accounts enforcement

In some cases, users with their own Google Apps account may be able to circumvent Safe Search enforcement settings by logging in from their workstation with their own Google Apps account. To prevent this, all CloudGen Firewall models and deployment types enforce and limit Google Apps accounts logins only for a list of predefined apps accounts easily created the administrator.

Mail security gateway

Mail is still one of the most common ways of spreading malware. CloudGen Firewall includes all necessary means to prevent incoming email to the corporate mail server from being infected.

CloudGen Firewall's mail security includes malware scanning, Advanced Threat Protection, and basic spam filtering via DNS blacklisting of known mail senders and malware domains. For more details, please click here…

Malware protection

The optional malware protection shields the internal network from malicious content by scanning web content (HTTP and HTTPs), email (SMTP, POP3), and file transfers (FTP) via two fully integrated antivirus engines. Malware protection is based on regular signature updates as well as heuristics to detect malware or other potentially unwanted programs even before signatures are available. The malware protection covers viruses, worms, Trojans, malicious Java applets, and programs using known exploits on PDF, pictures and office documents, macro viruses, and many more, even when using stealth or morphing techniques for obfuscation. For more details, please click here...
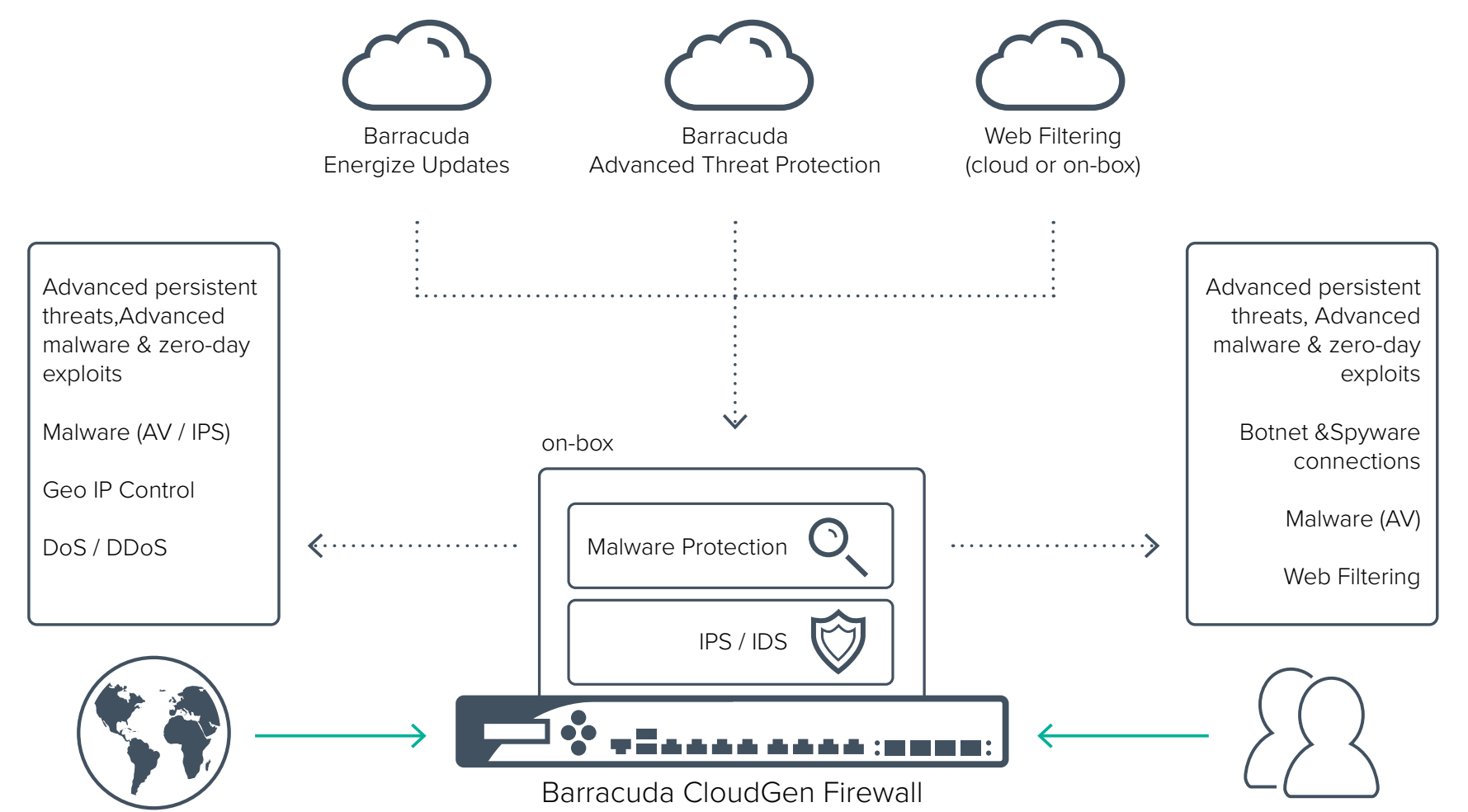
Figure 6 - Multi-layered security architecture

File content enforcement

Barracuda CloudGen Firewall includes true file type detection and enforcement capabilities based not only on extension and MIME type, but also on sophisticated true file type detection algorithms. Bypassing executable files by renaming or compressing is detected and blocked. Besides blocking / allowing connections, the Barracuda CloudGen Firewall also lets admins change download priorities . For example, if an ISO image started downloading with normal web traffic priority, the admin can increase or decrease the assigned bandwidth for the download, even though the user started downloading via a regular web- browsing session.
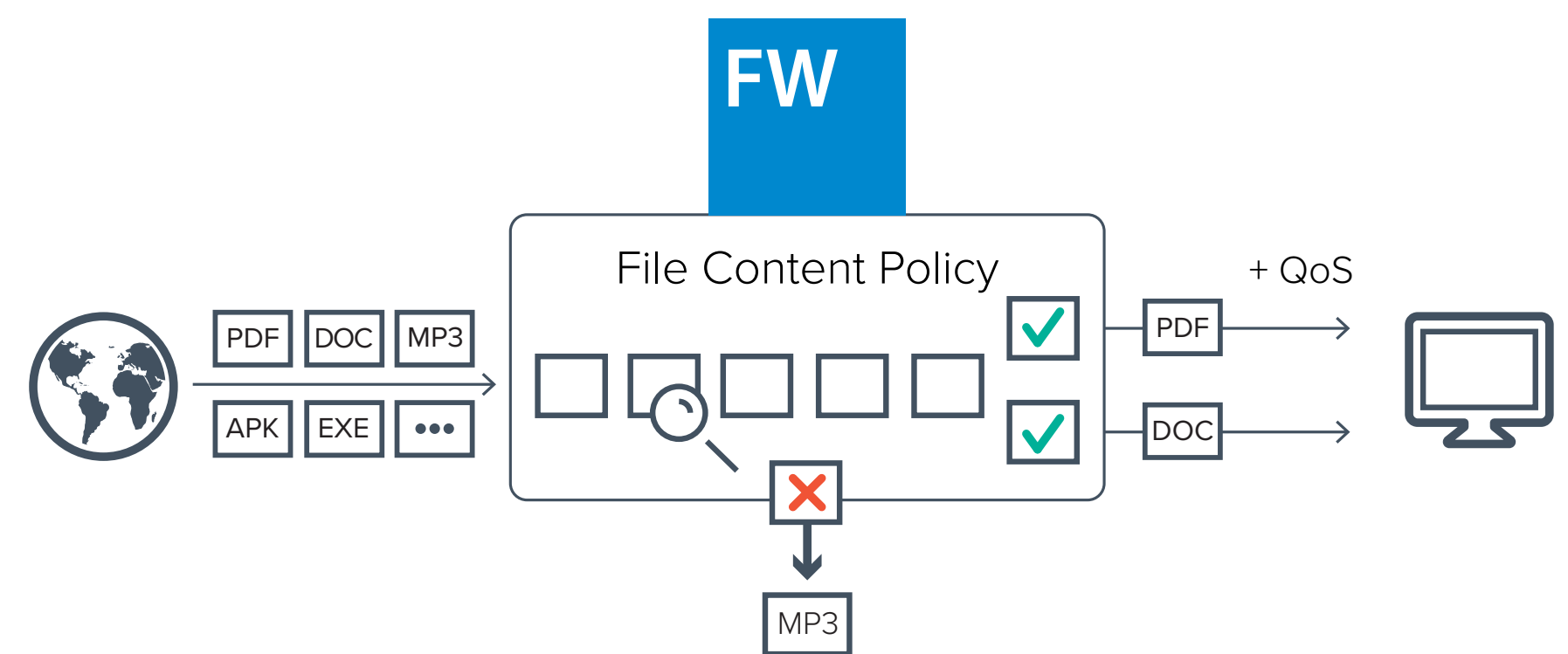
Figure 7 - True file type detection and enforcement

Network security

Intrusion detection and prevention

Every CloudGen Firewall includes a built-in intrusion detection and prevention system (IDS/IPS) that provides complete and comprehensive real-time network protection against a broad range of network threats, vulnerabilities, exploits, and exposures in operating systems, applications, and databases, thereby preventing network attacks such as:

- SQL injections and arbitrary code executions
- Access control attempts and privilege escalations
- Cross-site scripting and buffer overflows
- DoS and DDoS attacks
- Directory traversal and probing and scanning attempts
- Backdoor attacks, trojans, rootkits, viruses, worms, and spyware

By providing advanced attack and threat protection features such as stream segmentation and packet anomaly protection, TCP split handshake protection, IP and RPC defragmentation, FTP evasion protection, as well as URL and HTML decoding, CloudGen Firewall can identify and block advanced evasion attempts and obfuscation techniques that are used by attackers to circumvent and trick traditional intrusion prevention systems. As part of Barracuda's Energize Updates subscription automatic IPS signature updates are delivered on a regular schedule or on an emergency basis to ensure that CloudGen Firewall is constantly up-to-date. For more details, please click here...

DoS/DDoS attack protection

Every CloudGen Firewall comes with a host of built-in network protection functionalities beyond firewalling and IPS to protect networks and resources against malicious over-exhaustion.

TCP SYN flooding attacks are automatically prevented by predefined connection attempt limits that are configurable separately for outbound and inbound accept policies.

To further guard against regular DoS/DDoS attacks, the maximum number of new sessions and the allowed total number of sessions from a single source can be specified. This protects against resource exhaustion of your firewalls as well as the servers and networks behind them. These settings are configurable on a per-rule basis, thereby ensuring that protected servers with higher loads like web servers may be fully utilized.

Cloud enablement

The exponential growth in cloud computing offerings has driven more and more organizations to consider adopting a hybrid network WAN with new workloads being deployed predominantly to the cloud. Potential cost savings and the ability to scale up and down are attractive cloud propositions, but the real reason companies move to the cloud is the ability to push products to the market much more quickly.

To fully experience cloud computing benefits, Barracuda CloudGen Firewall helps organizations apply the same levels of security and connectivity as if the new network were in the local, on-premises datacenter.

Secure connectivity to the cloud

CloudGen Firewall is designed from the ground up to enable access to cloud applications by utilizing a unique combination of link bonding, dynamic application prioritization, application-based uplink selection and WAN optimization techniques to improve the WAN network performance to the cloud, regardless of office type or remote mobile locations.

Flexible licensing and consumption models

To be able to benefit of the elasticity of a cloud deployment, the licensing aspect has to taken into consideration as well. CloudGen Firewall provides regular Bring-Your-Own-License (BYOL) and highly flexible Pay-As-You-Go (PAYG) licensing based on either hourly- or volume-based (metered) consumption.

Deploying multi-tier architectures

Segmenting cloud networks into multiple tiers provides security, visibility, and compliance for on-premises applications. Additionally, this can be leveraged when the applications are deployed in public cloud environments through Barracuda CloudGen Firewall. CloudGen Firewall secures, restricts, and monitors the communications between these tiers, and limits the potential damage to an organization in the event of an attack. By filling the functional gaps between cloud infrastructure security and a defense-in-depth strategy, CloudGen Firewall provides protection between the application and data layers, rather than solely where the cloud network starts.

This architecture provides:

- Comprehensive security enforcement inside the cloud
- Threat detection and traffic monitoring between cloud application components
- Secure integration with on-premises resources
- Restricted and encrypted role-based administrative access to application infrastructure
- A mix of cloud hosted network tiers and on-premises tiers if required by compliance regulations

Enhancing ExpressRoute and Direct Connect security

Azure ExpressRoute and AWS Direct Connect allow organizations to establish high-performance private connections between Azure datacenters and on-premises infrastructure and provides low latencies, failure-resilient connectivity and consistent predictable performance.

For both public cloud services, CloudGen Firewall enhances security and boosts reliability as well as connectivity performance:

Security

- Encrypt traffic across ExpressRoute and Direct Connect
- Check traffic for network threats and malware
- Prevent unwanted traffic from entering or leaving the cloud

Reliability & Performance

- Provide transparent fallback to Internet VPN in case of MPLS uplink failure while preserving all running sessions
- Bond ExpressRoute/Direct Connect with up to 24 Internet uplinks using Barracuda TINA VPN technology for significantly enhanced cloud connection

Intelligence

- Log all traffic for troubleshooting and reporting purposes
- Enforce priorities for protocols and applications utilizing ExpressRoute
- Enforce security policies based on user identity

Supported public-cloud offerings and available deployment sizes

Azure For more details on Microsoft Azure and CloudGen Firewall, please visit barracuda.com/programs/azure.

	MICROSOFT AZURE				
Capabilities	BYOL level 2	BYOL level 4	BYOL level 6	BYOL level 8	PAYG
Virtual Cores	1	2	4	8	Does not apply
Protected IP addresses	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited
Available consumption models	Bring-Your-Own-Licence (BYOL)				Pay-As-You-Go (PAYG) (time-based)
AVAILABLE SUBSCRIPTIONS					
Advanced Threat Protection	Optional	Optional	Optional	Optional	-
Malware Protection	Optional	Optional	Optional	Optional	-
Advanced Threat and Malware Protection Bundle	Optional	Optional	Optional	Optional	-
Advanced Remote Access	Optional	Optional	Optional	Optional	✓
Premium Support	Optional	Optional	Optional	Optional	-

aws For more details on Amazon Web Services and CloudGen Firewall, please visit barracuda.com/programs/aws.

	AMAZON WEB SERVICES				
Capabilities	BYOL level 2	BYOL level 4	BYOL level 6	BYOL level 8	PAYG
Virtual Cores	1	2	4	8	Does not apply
Protected IP addresses	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited
Available consumption models	Bring-Your-Own-Licence (BYOL)				Pay-As-You-Go (PAYG) (time-based or volumetric)
AVAILABLE SUBSCRIPTIONS					
Advanced Threat Protection	Optional	Optional	Optional	Optional	-
Malware Protection	Optional	Optional	Optional	Optional	-
Advanced Threat and Malware Protection Bundle	Optional	Optional	Optional	Optional	-
Advanced Remote Access	Optional	Optional	Optional	Optional	✓
Premium Support	Optional	Optional	Optional	Optional	-

Google Cloud For more details on Google Cloud and CloudGen Firewall, please visit barracuda.com/programs/googlecloud.

	GOOGLE CLOUD PLATFORM				
Capabilities	BYOL level 2	BYOL level 4	BYOL level 6	BYOL level 8	PAYG
Virtual Cores	1	2	4	8	Does not apply
Protected IP addresses	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited
Available consumption models	Bring-Your-Own-Licence (BYOL)				Pay-As-You-Go (PAYG) (time-based)
AVAILABLE SUBSCRIPTIONS					
Advanced Threat Protection	Optional	Optional	Optional	Optional	-
Malware Protection	Optional	Optional	Optional	Optional	-
Advanced Threat and Malware Protection Bundle	Optional	Optional	Optional	Optional	-
Advanced Remote Access	Optional	Optional	Optional	Optional	✓
Premium Support	Optional	Optional	Optional	Optional	-

SD-WAN and performance

With the increasing adoption of virtualization, software-defined networks (a.k.a. SD-WAN) and cloud-native applications in today's business environment, the role of the firewall has evolved from a gateway-based, security-only device to a set of distributed solutions that make sure the WAN network is available any time for any type of endpoint. Regardless if the WAN endpoint is at headquarters, a remote office, a network in the IaaS cloud, or a mobile endpoint, Barracuda CloudGen Firewall enables impeccable WAN performance.

Barracuda CloudGen Firewall units deployed to multiple physical and cloud locations allow an organization to create a fault-tolerant, high-performance WAN network on top of low-cost broadband lines by combining full next-gen deep security inspection, smart policy-based adaptive traffic management, and WAN optimization technology into a single centrally manageable solution. Besides improved fault tolerance against outages and better WAN performance, the solution enables cost optimization strategies when multiple carriers/ISPs are combined to get the required bandwidth at an optimum price. This section highlights of CloudGen Firewall's WAN reliability and performance technologies.

WAN compression

All Barracuda CloudGen Firewall models include data deduplication, and traffic compression. With built-in WAN compression, CloudGen Firewall significantly improves site-to-site WAN network throughput and accelerate the delivery of business applications - at no extra charge.

WAN compression is even included with CloudGen Firewall's virtual and cloud-based deployment options, effectively enabling secure, high-performance direct internet breakouts to cloud-hosted networks for every remote location. [For more details, please click here...](#)

Failover and link balancing

Barracuda CloudGen Firewall provides a wide range of built-in uplink options such as leased lines, broadband (DHCP, DSL/cable, PPPoA, PPPoE, PPTP), and 3G/4G/UMTS. Up to 24 uplinks can be combined in load sharing or failover mode, eliminating the need to purchase additional devices for link balancing. CloudGen Firewall's unique combination of application awareness and traffic intelligence mechanisms automatically prioritizes business-critical applications, networks, and even distinct endpoints in case overall remaining bandwidth is degraded.

Unlike typical firewall solutions, all uplinks can be utilized to distribute VPN traffic, effectively enabling extremely reliable site-to-site VPN connectivity with only inexpensive broadband or even 4G uplinks.
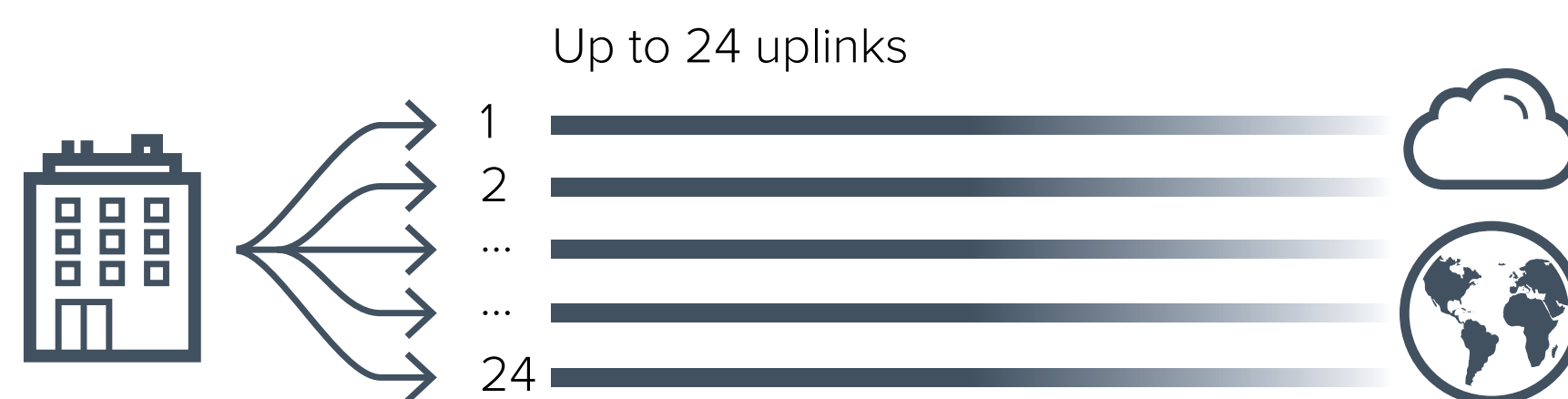
Figure 8 - Combine up to 24 uplinks load sharing or failover mode

How much can you save on MPLS line costs with Barracuda CloudGen Firewall? Find out more at savings.barracuda.com.

Dynamic bandwidth detection and performance-based transport selection

In order to achieve the highest possible quality of service, all CloudGen Firewall models pro-actively measure the available VPN bandwidths and - automatically - select the best uplink for a VPN connection based on bandwidth, latency, or combined quality metrics.

Adaptive bandwidth reservation

If a measured bandwidth is not sufficient for business-critical traffic (e.g., VoIP), CloudGen Firewall can automatically adjust the allocated bandwidths for non-business-critical traffic to free up bandwidth for redistribution.

Adaptive session balancing

Using multiple transports simultaneously might end up in some clogged transports and some hardly used ones. To avoid this inconvenience, CloudGen Firewall can dynamically balance not only newly created sessions but also already existing ones across the available uplinks.

Traffic replication

Especially for VoIP traffic it is highly sensitive to paket loss. CloudGen Firewall mirrors VoIP/Video packets and sends these across multiple uplinks smiltaneously. At the destination, the packets are then again combined to provide best voice and video quality.

On-demand dynamic mesh VPN

CloudGen Firewall deployments in a centrally managed WAN network create VPN tunnels dynamically based on remote peer and application. The typical use case for this technology is on-demand VPN tunnels between two branch offices for a VoIP phone call, thereby improving call quality.

For hybrid networks hosted in public cloud infrastructures like Microsoft Azure, Amazon Web Services, or Google Cloud Platform, this technology can be used easily to enable on-the-fly and direct access to cloud applications from remote offices that otherwise do not need a permanent connection to the cloud.

Azure Virtual WAN

In cooperation with Microsoft, CloudGen Firewall automates the process of building a secure high performance branch-to-branch network via Azure vWAN:

- Automatic branch to branch connectivity
- Automatic branch to Microsoft Azure connectivity
- Allow hundreds of remote locations to securely connect via Azure Virtual WAN
- Active-active IPsec VPN connections for uninterrupted connectivity
- Optimal routing and minimal latency for branch-to-branch and branch-to-Azure connectivity with Microsoft's global network
- Unified network and security policy management
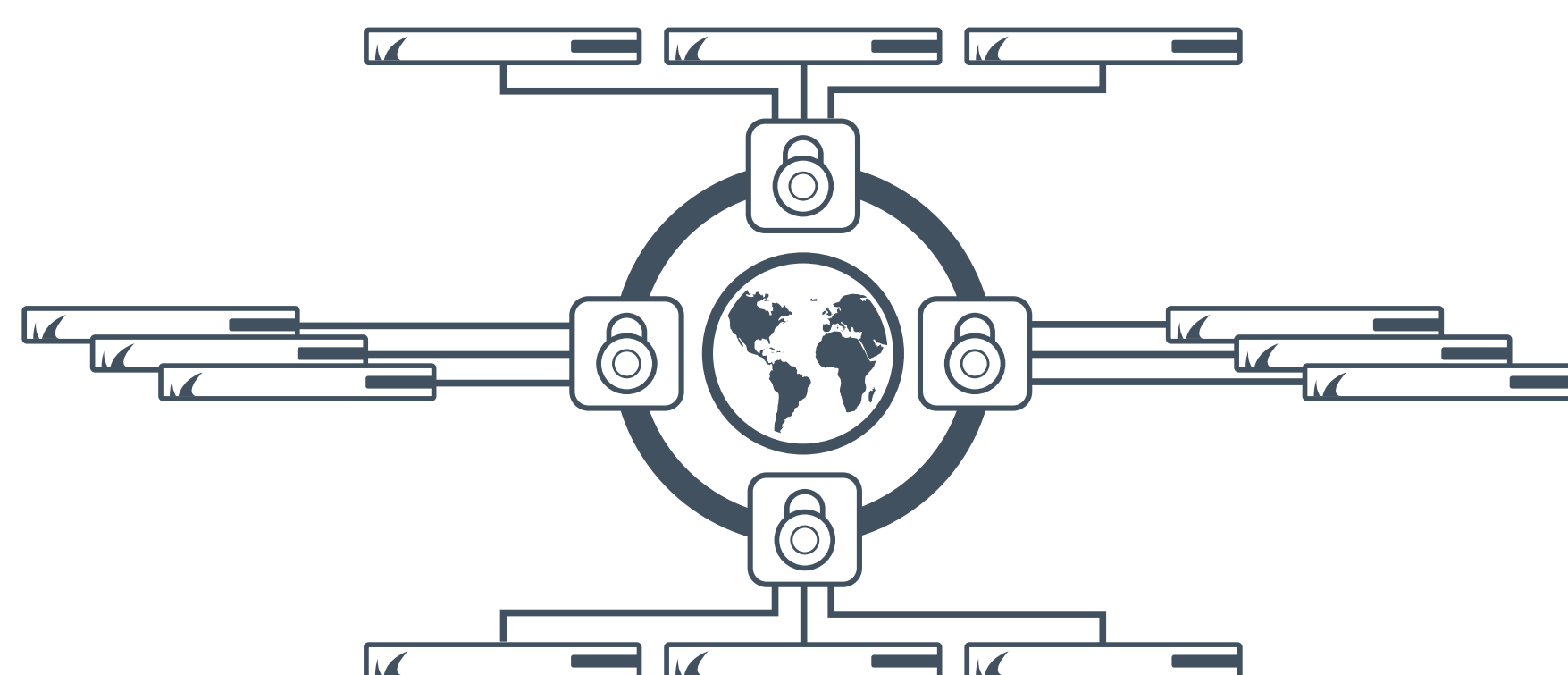
Unified remote access

Barracuda CloudGen Firewall incorporates advanced client-to-site VPN capabilities, using SSL, IPsec, and TINA protocols to ensure remote users can easily and securely access network resources without time-consuming client configuration and management. The communication protocols used with our clients are optimized to be fully roaming-capable by quickly reconnecting upon loss of communication. Smart pathfinder technology determines the nearest point of entry to the corporate network. By using different ports encapsulated in either TCP or UDP, the advanced NAT traversal technology can easily pass through web proxies.

The influx of private computing devices, be they smartphones, laptops, or tablets, into the workplace may help increase productivity, flexibility, and convenience. However, **BYOD** (Bring Your Own Device) adds new security challenges and risks, such as enabling and controlling access, as well as preventing data loss.

CloudGen Firewall provides strong capabilities that give users the full advantage of their devices while reducing possible risks to their business. Unwanted applications can be blocked, LAN segmentation can protect sensitive data, and network access control can check the health state of each device connecting to the corporate network.
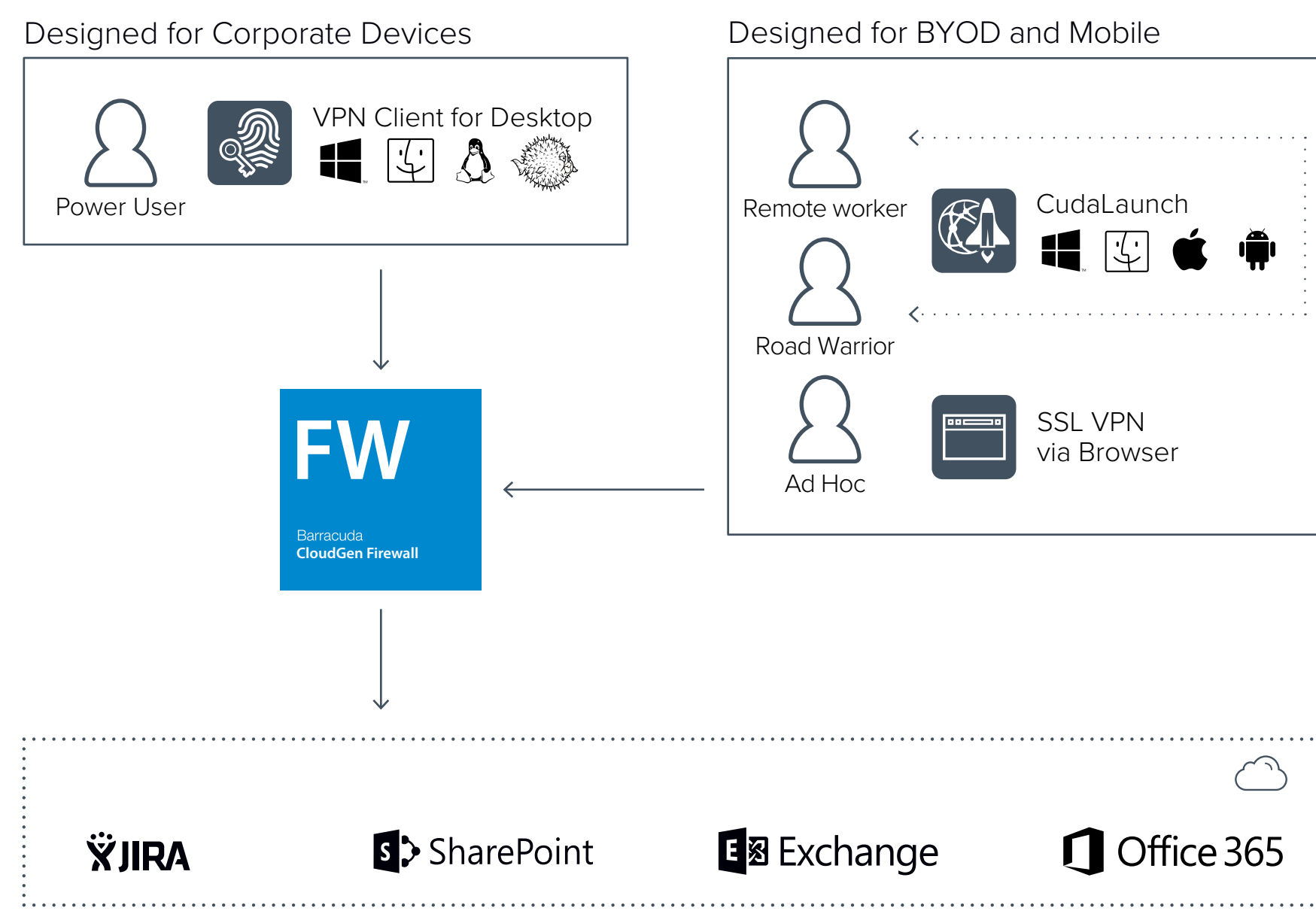
Figure 9 - Secure remote access architecture

About TINA protocol

The TINA protocol encapsulates encrypted ESP payload in TCP or UDP packets, thus adapting to underlying transport network quality and providing failure resistant, high-speed VPN connections. It also improves VPN connectivity substantially by adding:

- Multiple concurrent physical transport paths per logical tunnel
- Session level or packet level transport aggregation for increased total tunnel throughput
- Adaptive traffic shaping depending on VPN transport availability
- Fallback transports in case of uplink failure
- Traffic compression and deduplication
- DHCP and NAT support

Browser-based remote access (SSL VPN)

Barracuda's responsive SSL VPN portal enables you to provide simple browser-based remote access on desktop or mobile devices. When accessing the portal via the web browser on a desktop or mobile device, users can browse apps, network folders, and files as if they were connected to the office network.

The responsive portal supports most commonly used devices (Apple iOS, Android, Blackberry, etc.) and is part of the Advanced Remote Access subscription.

CudaLaunch
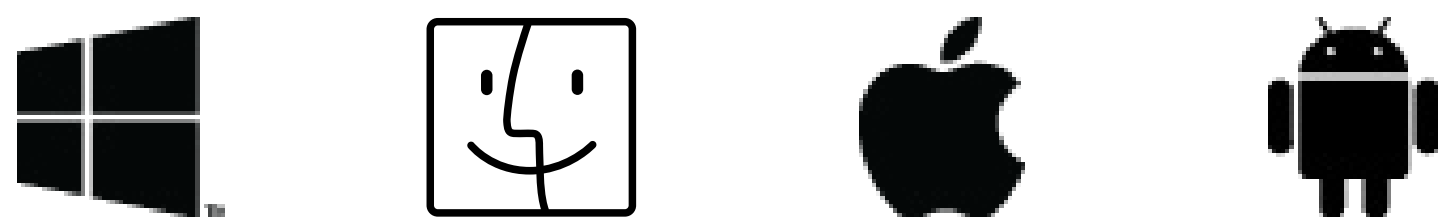
CudaLaunch is a simple-to-use remote connectivity application specifically designed to securely extend the company network to BYOD and mobile devices. The app is available for Windows, macOS, iOS, and Android, can be downloaded from the App Stores. End users can install the app without elevated privileges on the device. CudaLaunch looks and feels the same on every platform and provides fast, Java-independent access to commonly used applications in the company network, regardless if hosted on-premises or in the cloud. CudaLaunch's Zero Touch administration features drastically reduce support and administration costs for rapidly changing mobile and BYOD devices.

CudaLaunch is available for download here:

Mobile

Desktop
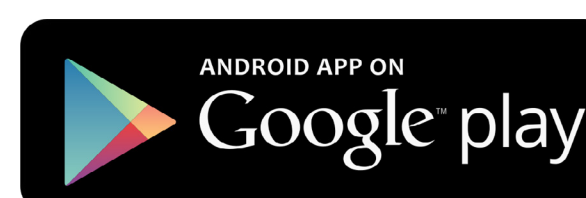
For Windows enviroments, CudaLaunch is also available in a standalone version without requiring installation or local admin rights. This version is available via the Barracuda Download Portal.

VPN clients (Network Access Client)

Every Barracuda CloudGen Firewall supports an unlimited number of VPN clients at no extra cost. The Barracuda Network Access VPN Client provides a sophisticated VPN client for Windows, macOS, and Linux that provides richer performance and functionality than standard IPsec client software. Benefits include quick restoration of VPN tunnels, "Always On" VPN connections for PCs, redundant VPN gateway support, selective routing of network traffic through the VPN tunnel, and optimal VPN-Gateway detection based on location. The Barracuda Network Access Client, when used with a Barracuda CloudGen Firewall, provides centrally managed Network Access Control (NAC) and an advanced Personal Firewall. This enforces client health and security policies for remote users connecting to the corporate network.

Figure 10 - Barracuda VPN client for macOS
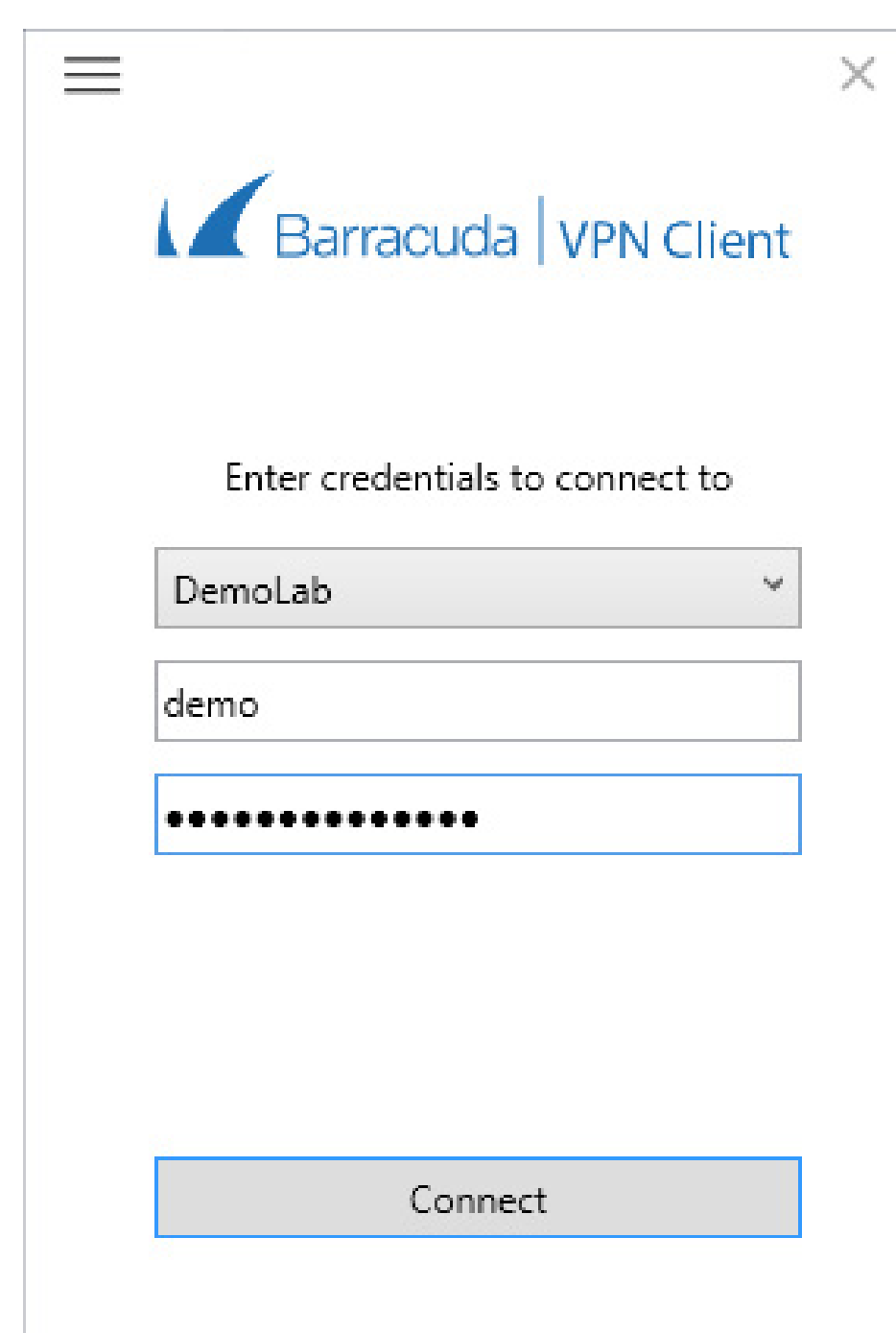
Figure 11 - Barracuda VPN client for Windows

	FIREWALL BASE LICENCE	ADVANCED REMOTE ACCESS
One concurrent CudaLaunch session (for evaluation)	✓	✓
IPsec VPN (manually configured VPN connections)	✓	✓
BARRACUDA NETWORKS ACCESS CLIENT		
TINA VPN client (Windows, macOS, Linux & openBSD)	✓	✓
Personal firewall & health checks (Windows only)	-	✓
BROWSER-BASED REMOTE ACCESS		
SSL VPN Portal (for desktop / mobile)	-	✓
Health checks	-	✓
CUDALAUNCH		
Apps	-	✓
SSL tunnels	-	✓
Native apps - RDP launching (no Java)	-	✓
VPN connections (iOS, Android, and Windows)	-	✓
Multiple concurrent sessions by same user	-	✓

Once-only central management

To centralize management across many different firewalls and remote access users, the **Barracuda Firewall 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 Firewall 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.

Lifecycle management

Scalable CloudGen Firewall deployments offer companies sustainable investment protection. Energize Updates automatically provide the latest firmware and threat definitions to keep the appliance up to date. With a maintained Instant Replacement subscription, organizations receive a new appliance with the latest specs every four years.
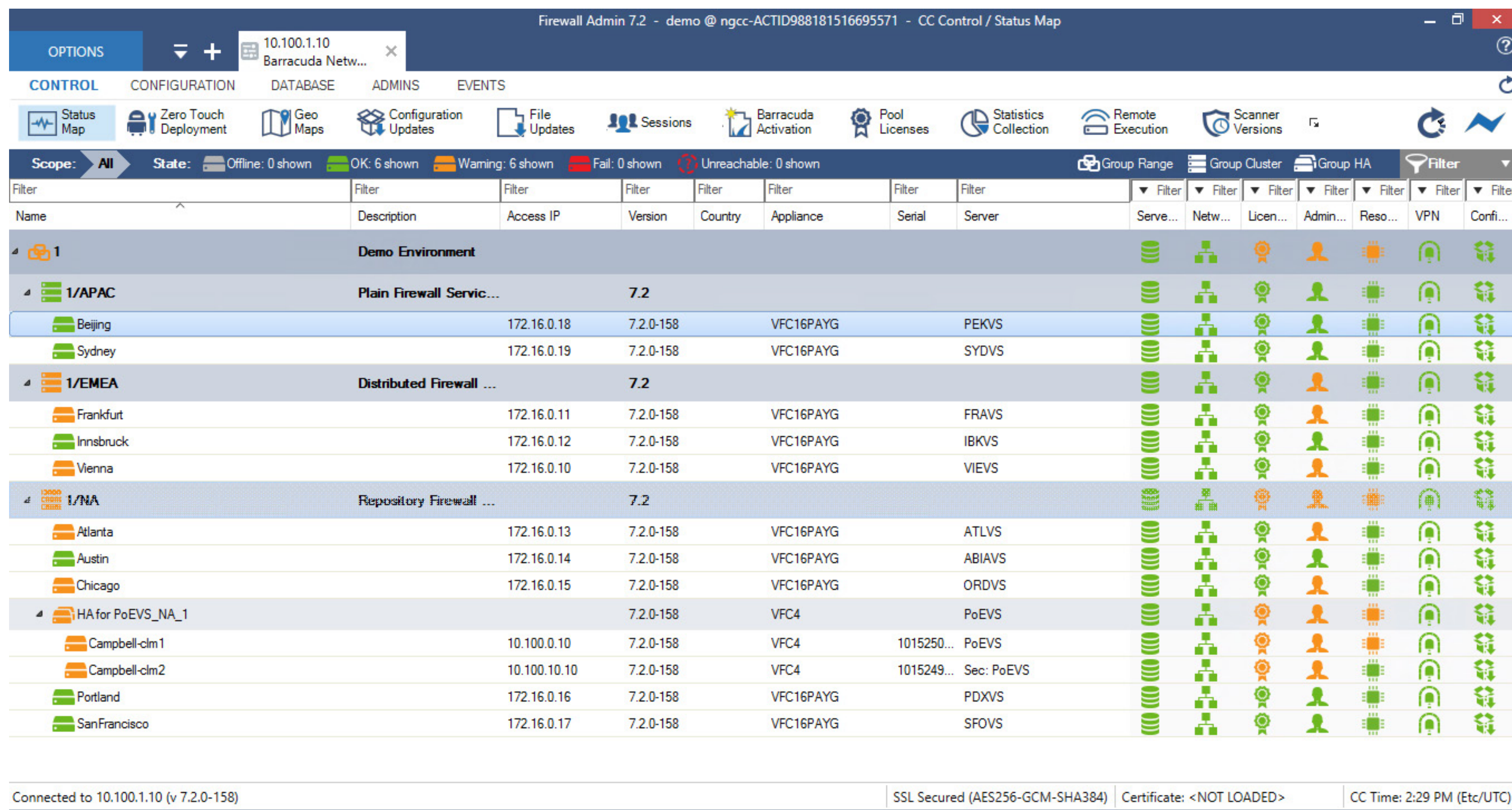
Figure 12 - Firewall Control Center's Status Map displays a drill down status overview of all centrally managed CloudGen Firewall deployments.

Scalable deployment

Managing the security issues in a widely distributed enterprise network can be painful and extremely time consuming. Managing a system may take only 15 minutes per day. But having 20 firewall systems in place results in five hours per day – just to manage the existing system.

With Barracuda Firewall Control Center, managing multiple Barracuda CloudGen Firewall deployments takes the same amount of time as managing one. For more details, please click here,

Cloud deployment

Moving infrastructure to the cloud does not stop at administration tools. Therefore, the Firewall Control Center is available for direct deployment in public cloud offerings like Microsoft Azure, Amazon Web Services, and Google Cloud Platform in a Bring-Your-Own-License model.

Zero-touch deployment

Especially for large rollouts without having IT personnel on the ground at remote locations, CloudGen Firewall in conjunction with Firewall Control Center supports zero-touch deployment. This feature allows to send appliances to locations without having to pre-setup them beforehand.

After unpacking the appliance and powering it up, the appliance automatically connects to the Barracuda Cloud Control where it receives are very basic set of information. This Information is just enough to create a high-secure TINA VPN connection to the private Firewall Control Center the appliance shall be assigned to.

The full configuration is sent to the appliance via the VPN tunnel and the appliance becomes part of the security infrastructure without the need of dedicated and trained IT security administrators at the location.

Enterprise- and service provider licensing

The Firewall Control Center lets you centrally manage all CloudGen Firewall licensing flexible and interdependently of hardware. You can make best use of type of licensing for CloudGen Firewall deployments when you have a large number of firewalls running across a wide geographic area.

For more information on this type of licensing, please see the dedicated whitepaper "Enterprise and Service-Provider Licensing" available on barracuda.com.

Comparison of Barracuda Firewall Control Center models

FEATURES	VC400 VIRTUAL ENVIRONMENT	VCC400 PUBLIC CLOUD	VC610 VIRTUAL ENVIRONMENT	VCC610 PUBLIC CLOUD	VC820 VIRTUAL ENVIRONMENT
Max. no. of managed gateways [Recommended]	Unlimited [20]	Unlimited [20]	Unlimited [hardware-dependent]	Unlimited [hardware-dependent]	Unlimited [hardware-dependent]
Manageable configuration groupings	1	1	Unlimited	Unlimited	Unlimited
Multi-administrator support	✓	✓	✓	✓	✓
Role-based administration	✓	✓	✓	✓	✓
Revision control system	✓	✓	✓	✓	✓
Central statistics	✓	✓	✓	✓	✓
Central syslog host / relay	✓	✓	✓	✓	✓
Firewall audit information collector / viewer	✓	✓	✓	✓	✓
Barracuda access monitor	✓	✓	✓	✓	✓
Barracuda Earth	-	-	-	-	-
PKI service	-	-	✓	✓	✓
High availability	Optional	Optional	Optional	Optional	HA license included
Multi-tenancy	-	-	Yes (via configuration groupings)		Yes (5 tenants)
Additional tenant for multi-tenancy	-	-	-	-	Optional

Hardware facts

Model comparison

With hardware models available for small branch offices as well as large headquarters and datacenters, a corresponding offering of virtual appliances, and a comprehensive public cloud support, the Barracuda CloudGen Firewall is designed for deployment across the entire enterprise.

For more information on how Barracuda Cloud Generation Firewalls can secure your Internet-of-Things applications and industrial communication, please consult the Solution Overview for Iot and ICS.

MODEL COMPARISON	ENTRY LEVEL/ BRANCH OFFICES							MID-RANGE			HIGH-END		
	F12	F18	F80	F82 [1]	F180	F183 [2]	F280	F380	F400	F600	F800	F900	F1000
PERFORMANCE (MORE DETAILED ON PAGE 24FF.) [3]													
Firewall throughput	1.2 Gbps	1.0 Gbps	1.5 Gbps	1.5 Gbps	1.7 Gbps	2.0 Gbps	3.7 Gbps	5.2 Gbps	9.0 Gbps	20 Gbps	30 Gbps	45 Gbps	46 Gbps
VPN throughput	220 Mbps	190 Mbps	240 Mbps	240 Mbps	300 Mbps	300 Mbps	1.1 Gbps	1.4 Gbps	2.3 Gbps	5.6 Gbps	7.5 Gbps	13.5 Gbps	10.3 Gbps
IPS throughput	400 Mbps	400 Mbps	400 Mbps	400 Mbps	500 Mbps	580 Mbps	1.2 Gbps	2.0 Gbps	3.0 Gbps	8.0 Gbps	8.3 Gbps	13 Gbps	14 Gbps
NGFW throughput	250 Mbps	340 Mbps	400 Mbps	400 Mbps	550 Mbps	700 Mbps	1.0 Gbps	1.4 Gbps	3.0 Gbps	6.4 Gbps	7.7 Gbps	12 Gbps	13 Gbps
Threat protection throughput	230 Mbps	320 Mbps	380 Mbps	380 Mbps	480 Mbps	600 Mbps	900 Mbps	1.2 Gbps	2.7 Gbps	5.8 Gbps	7.6 Gbps	11.5 Gbps	12 Gbps
Concurrent sessions	80,000	80,000	80,000	80,000	100,000	100,000	250,000	400,000	500,000	2,100,000	2,500,000	4,000,000	10,000,000
New sessions/s	8,000	8,000	8,000	8,000	9,000	9,000	10,000	15,000	20,000	115,000	180,000	190,000	250,000
Max. concurrent users (depending on feature set)	5-75	25-75	50-100	50-100	75-150	75-150	150-300	200-500	300-1,000	1,000-4,000	4,000-6,000	6,000-9,000	7,000-15,000
Site-to-site VPN tunnels	Unlimited												
Recommended no. of Barracuda VPN clients	1	25	25	25	50	50	50	50	50	100	500	1,000	2,000
AVAILABLE SOFTWARE/FEATURE SUBSCRIPTIONS (EXCERPT, MORE DETAILED ON PAGE 68FF.)													
Energize Updates	**MANDATORY**												
Advanced Threat Protection	**OPTIONAL**												
Malware Protection	**OPTIONAL** [4]												
Advanced Threat and Malware Protection	-		**OPTIONAL**										
Advanced Remote Access	-		**OPTIONAL**										
AVAILABLE HARDWARE/SUPPORT SUBSCRIPTIONS (EXCERPT, MORE DETAILED ON PAGE 68FF.)													
Warranty Extension	**OPTIONAL**												
Instant Replacement	**OPTIONAL**												
Premium Support	depends on product mix and size of deployment										**OPTIONAL**		

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1   Sub model F82.DLSB is only available for EMEA region.
2   Also available as ruggedized model for industrial use.
3   Numbers are "up to"; for detailed information on throughput and how throughput numbers are measured, please refer to the hardware specifications on page 24ff.
4   F12 features cloud-based malware protection as part of an active Advanced Threat Protection subscription.

CloudGen Firewall F12
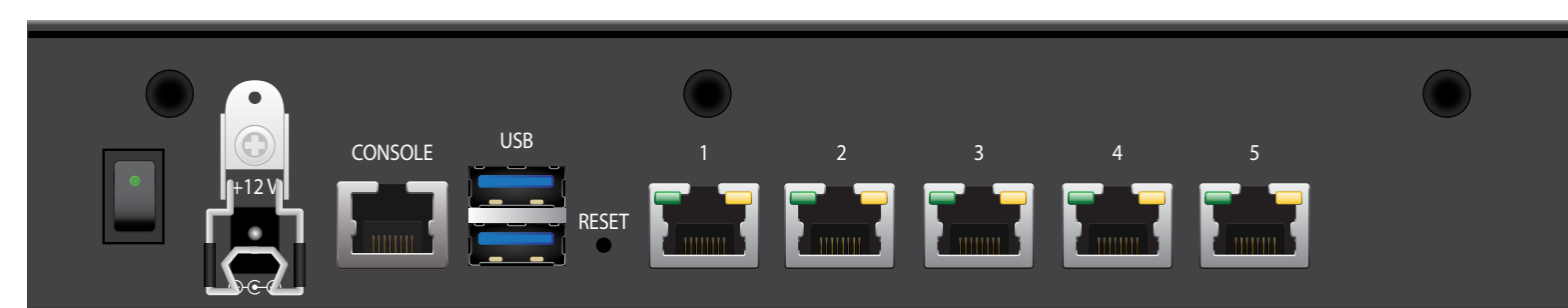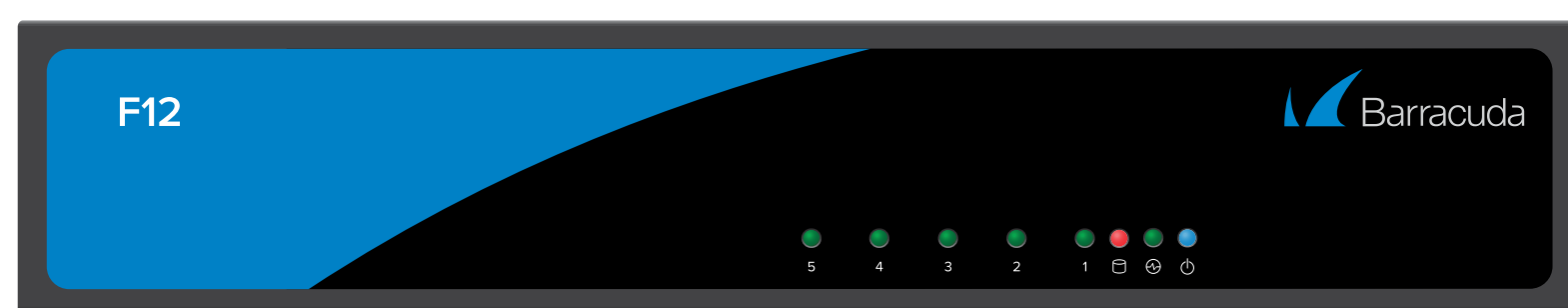
INTERFACES	
Copper ethernet NICs	5x1 GbE
USB 3.0	2
VGA	No
Serial / console	1x RJ45
PERFORMANCE [AS OF FIRMWARE RELEASE 7.2.X]	
Firewall throughput [Gbps][a]	1.2
VPN throughput [AES-128, TINA std hash, Mbps][b]	220
VPN throughput [AES-256, TINA std hash, Mbps][b]	200
VPN throughput [AES-256, SHA256, Mbps][b]	170
VPN throughput [AES-256, MD5, Mbps][b]	200
VPN throughput [AES-256, GCM, Mbps][b]	170
IPS throughput [Mbps][c]	400
NGFW throughput [Mbps][d]	250
Threat protection throughput [Mbps][e]	230
Concurrent sessions	80,000
New sessions/s	8,000
Max. number of concurrent users [f]	5-75
MEMORY	
RAM [GB]	2
MASS STORAGE	
Type	SSD
Size ([GB] or better)	80
SSD MTBF [hours]	N/A
SIZE, WEIGHT, DIMENSIONS	
Weight appliance [lbs] / [kg]	4.4 / 2.0
Appliance size: width x depth x height [in]	9.1 x 6.0 x 1.7
Appliance size: width x depth x height [mm]	232 x 153 x 44
Weight carton with appliance [lbs] / [kg]	5.2 / 2.4
Carton size: width x depth x height [in]	12.2 x 10.2 x 7.1
Carton size: width x depth x height [mm]	310 x 260 x 180
Form factor	Compact
HARDWARE	
Display	-
Cooling	Fanless
ENVIRONMENTAL	
Noise emission [db/A]	N/A
Operating temperature [°F] / [°C]	+30 to +105 / 0 to +40
Storage temperature [°F] / [°C]	-5 to +160 / -20 to +70
Operating humidity (non-condensing)	5% to 95%

MTBF [SYSTEM]	
MTBF [yrs.] [g]	> 5
POWER & EFFICIENCY	
Power supply	Single
Power supply type	External brick
Power type [AC/DC]	AC
Input rating [Volts]	100-240
Input frequency [Hz]	50-60
Auto sense	Yes
Max. power draw [W]	45
Max. power draw @ 120V [Amps.]	0.4
Max. power draw @ 230V [Amps.]	0.2
Max. heat dissipation [W]	19
Max. heat dissipation [BTU]	65
Energy efficiency [average]	> 85%
CERTIFICATIONS & COMPLIANCE	
CE emissions	Yes
CE electrical safety	Yes
FCC emissions	Yes
ROHS compliant	Yes
PACKAGING CONTENT	
Appliance	Yes
Serial cable	Yes
Straight network cable	Yes
External power brick & cables	Yes
USB flash drive for recovery & installation	Yes
Quick start guide	Yes

All performance values are measured under optimized conditions and are to be considered as „up to" values and may vary depending on system configuration and infrastructure:

a   Firewall throughput measured with large packets (MTU1500) UDP packets, bi-directional across multiple ports.
b   VPN performance is based on 1415 Byte UDP packets, bidirectional using BreakingPoint traffic generator.
c   IPS throughput is measured using large packets (MTU1500) UDP traffic and across multiple ports.
d   NGFW throughput is measured with IPS, application control, and web filter enabled, based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports.
e   Threat protection throughput is measured with IPS, application control, web filter, and cloud-based antivirus enabled (as part of an active Advanced Threat Protection subscription), based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports.
f   Depending on feature set; for more detailed information on sizing, please use the free sizing application "Firewall Blueprint" for iOS - available for iPhones and iPads.
g   MTBF according to common usage. High load on SSD and extreme environmental conditions might reduce MTBF.

Errors and omissions excepted. Specifications subject to change without notice.

CloudGen Firewall F18

INTERFACES	
Copper ethernet NICs	4x1 GbE
USB 2.0	4
VGA	Yes
Serial / console	1x RJ45
PERFORMANCE [AS OF FIRMWARE RELEASE 7.2.X]	
Firewall throughput [Gbps][a]	1.0
VPN throughput [AES-128, TINA std hash, Mbps][b]	190
VPN throughput [AES-256, TINA std hash, Mbps][b]	170
VPN throughput [AES-256, SHA256, Mbps][b]	150
VPN throughput [AES-256, MD5, Mbps][b]	170
VPN throughput [AES-256, GCM, Mbps][b]	150
IPS throughput [Mbps][c]	400
NGFW throughput [Mbps][d]	340
Threat protection throughput [Mbps][e]	320
Concurrent sessions	80,000
New sessions/s	8,000
Max. number of concurrent users[f]	25-75
MEMORY	
RAM [GB]	2
MASS STORAGE	
Type	SSD
Size ([GB] or better)	50
SSD MTBF [hours]	N/A
SIZE, WEIGHT, DIMENSIONS	
Weight appliance [lbs] / [kg]	3.1 / 1.3
Appliance size: width x depth x height [in]	10.8 x 6.4 x 1.7
Appliance size: width x depth x height [mm]	274 x 162 x 44
Weight carton with appliance [lbs] / [kg]	7.0 / 3.2
Carton size: width x depth x height [in]	25.6 x 15.5 x 19.2
Carton size: width x depth x height [mm]	650 x 394 x 487
Form factor	Compact
HARDWARE	
Display	-
Cooling	Fanless
ENVIRONMENTAL	
Noise emission [db/A]	N/A
Operating temperature [°F] / [°C]	+30 to +105 / 0 to +40
Storage temperature [°F] / [°C]	-5 to +160 / -20 to +70
Operating humidity (non-condensing)	5% to 95%

MTBF [SYSTEM]	
MTBF [yrs.][g]	> 5
POWER & EFFICIENCY	
Power supply	Single
Power supply type	External brick
Power type [AC/DC]	AC
Input rating [Volts]	100-240
Input frequency [Hz]	50-60
Auto sense	Yes
Max. power draw [W]	45
Max. power draw @ 120V [Amps.]	0.4
Max. power draw @ 230V [Amps.]	0.2
Max. heat dissipation [W]	19
Max. heat dissipation [BTU]	65
Energy efficiency [average]	> 85%
CERTIFICATIONS & COMPLIANCE	
CE emissions	Yes
CE electrical safety	Yes
FCC emissions	Yes
ROHS compliant	Yes
PACKAGING CONTENT	
Appliance	Yes
Serial cable	Yes
Straight network cable	Yes
External power brick & cables	Yes
USB flash drive for recovery & installation	Yes
Quick start guide	Yes
2x Barracuda wall mount bracket	Yes

All performance values are measured under optimized conditions and are to be considered as „up to" values and may vary depending on system configuration and infrastructure:

a   Firewall throughput measured with large packets (MTU1500) UDP packets, bi-directional across multiple ports.
b   VPN performance is based on 1415 Byte UDP packets, bidirectional using BreakingPoint traffic generator.
c   IPS throughput is measured using large packets (MTU1500) UDP traffic and across multiple ports.
d   NGFW throughput is measured with IPS, application control, and web filter enabled, based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports.
e   Threat protection throughput is measured with IPS, application control, web filter, and antivirus enabled, based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports.
f   Depending on feature set; for more detailed information on sizing, please use the free sizing application "Firewall Blueprint" for iOS - available for iPhones and iPads.
g   MTBF according to common usage. High load on SSD and extreme environmental conditions might reduce MTBF.

Errors and omissions excepted. Specifications subject to change without notice.

CloudGen Firewall F80

INTERFACES	
Copper ethernet NICs	4x1 GbE
USB 2.0	4
Serial / console	1x RJ45
VGA	Yes
Integrated WiFi (IEEE 802.11b/g/n)	Yes
PERFORMANCE [AS OF FIRMWARE RELEASE 7.2.X]	
Firewall throughput [Gbps][a]	1.5
VPN throughput [AES-128, TINA std hash, Mbps][b]	240
VPN throughput [AES-256, TINA std hash, Mbps][b]	200
VPN throughput [AES-256, SHA256, Mbps][b]	180
VPN throughput [AES-256, MD5, Mbps][b]	200
VPN throughput [AES-256, GCM, Mbps][b]	180
IPS throughput [Mbps][c]	400
NGFW throughput [Mbps][d]	400
Threat protection throughput [Mbps][e]	380
Concurrent sessions	80,000
New sessions/s	8,000
Max. number of concurrent users[f]	50-100
MEMORY	
RAM [GB]	2 or higher
MASS STORAGE	
Type	SSD
Size ([GB] or better)	50
SSD MTBF [hours]	1.200.000
SIZE, WEIGHT, DIMENSIONS	
Weight appliance [lbs] / [kg]	3.1 / 1.3
Appliance size: width x depth x height [in]	10.8 x 6.4 x 1.7
Appliance size: width x depth x height [mm]	274 x 162 x 44
Weight carton with appliance [lbs] / [kg]	7.0 / 3.2
Carton size: width x depth x height [in]	25.6 x 15.5 x 19.2
Carton size: width x depth x height [mm]	650 x 394 x 487
Form factor	Compact
HARDWARE	
Display	-
Cooling	Fanless
ENVIRONMENTAL	
Noise emission [db/A]	N/A
Operating temperature [°F] / [°C]	+30 to +105 / 0 to +40
Storage temperature [°F] / [°C]	-5 to +160 / -20 to +70
Operating humidity (non-condensing)	5% to 95%

MTBF [SYSTEM]	
MTBF [yrs.][g]	> 5
POWER & EFFICIENCY	
Power supply	Single
Power supply type	External brick
Power type [AC/DC]	AC
Input rating [Volts]	100-240
Input frequency [Hz]	50-60
Auto sense	Yes
Max. power draw [W]	45
Max. power draw @ 120V [Amps.]	0.4
Max. power draw @ 230V [Amps.]	0.2
Max. heat dissipation [W]	19
Max. heat dissipation [BTU]	65
Energy efficiency [average]	> 85%
CERTIFICATIONS & COMPLIANCE	
CE emissions	Yes
CE electrical safety	Yes
FCC emissions	Yes
ROHS compliant	Yes
PACKAGING CONTENT	
Appliance	Yes
Serial cable	Yes
Straight network cable	Yes
External power brick & cables	Yes
USB flash drive for recovery & installation	Yes
Quick start guide	Yes
2x Wireless antenna	Yes
2x Barracuda wall mount bracket	Yes

All performance values are measured under optimized conditions and are to be considered as „up to" values and may vary depending on system configuration and infrastructure:

a   Firewall throughput measured with large packets (MTU1500) UDP packets, bi-directional across multiple ports.

b   VPN performance is based on 1415 Byte UDP packets, bidirectional using BreakingPoint traffic generator.

c   IPS throughput is measured using large packets (MTU1500) UDP traffic and across multiple ports.

d   NGFW throughput is measured with IPS, application control, and web filter enabled, based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports.

e   Threat protection throughput is measured with IPS, application control, web filter, and antivirus enabled, based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports.

f   Depending on feature set; for more detailed information on sizing, please use the free sizing application "Firewall Blueprint" for iOS - available for iPhones and iPads.

g   MTBF according to common usage. High load on SSD and extreme environmental conditions might reduce MTBF.

Errors and omissions excepted. Specifications subject to change without notice.

CloudGen Firewall F82.DSLA

INTERFACES	
Copper ethernet NICs	4x1 GbE
USB 2.0	4
Serial / console	1x RJ45
WAN interfaces	1x RJ11 + 1x1 GbE SFP
VGA	Yes
Integrated modem	DSL, Annex A
Integrated WiFi (IEEE 802.11b/g/n)	Yes
PERFORMANCE [AS OF FIRMWARE RELEASE 7.2.X]	
Firewall throughput [Gbps][a]	1.5
VPN throughput [AES-128, TINA std hash, Mbps][b]	240
VPN throughput [AES-256, TINA std hash, Mbps][b]	200
VPN throughput [AES-256, SHA256, Mbps][b]	180
VPN throughput [AES-256, MD5, Mbps][b]	200
VPN throughput [AES-256, GCM, Mbps][b]	180
IPS throughput [Mbps][c]	400
NGFW throughput [Mbps][d]	400
Threat protection throughput [Mbps][e]	380
Concurrent sessions	80,000
New sessions/s	8,000
Max. number of concurrent users [f]	50-100
MEMORY	
RAM [GB]+	4
MASS STORAGE	
Type	SSD
Size ([GB] or better)	50
SSD MTBF [hours]	1.200.000
SIZE, WEIGHT, DIMENSIONS	
Weight appliance [lbs] / [kg]	4.9 / 2.2
Appliance size: width x depth x height [in]	14.9 x 6.4 x 1.7
Appliance size: width x depth x height [mm]	378 x 160 x 44
Weight carton with appliance [lbs] / [kg]	8.4 / 3.8
Carton size: width x depth x height [in]	17 x 11.5 x 6
Carton size: width x depth x height [mm]	430 x 290 x 150
Form factor	Desktop
HARDWARE	
Hardware Crypto Accelerator	Yes, built-in
Cooling	Fanless
ENVIRONMENTAL	
Noise emission [db/A]	n/a
Operating temperature [°F] / [°C]	+30 to +95 / 0 to +35
Storage temperature [°F] / [°C]	-5 to +160 / -20 to +70
Operating humidity (non-condensing)	5% to 95%

MTBF [SYSTEM]	
MTBF [yrs.][g]	> 5
POWER & EFFICIENCY	
Power supply	Single
Power supply type	External brick
Power type [AC/DC]	AC
Input rating [Volts]	100-240
Input frequency [Hz]	50-60
Auto sense	Yes
Max. power draw [W]	45
Max. power draw @ 120V [Amps.]	0.4
Max. power draw @ 230V [Amps.]	0.2
Max. heat dissipation [W]	19
Max. heat dissipation [BTU]	65
Energy efficiency [average]	> 85%
CERTIFICATIONS & COMPLIANCE	
CE emissions	Yes
CE electrical safety	Yes
FCC emissions	Yes
ROHS compliant	Yes
PACKAGING CONTENT	
Appliance	Yes
Serial cable	Yes
Straight network cable	Yes
External power brick & cables	Yes
USB flash drive for recovery & installation	Yes
Quick start guide	Yes
2x Wireless antenna	Yes
2x Barracuda wall mount bracket	Yes
2x Barracuda L-shape rack mount bracket	Yes

All performance values are measured under optimized conditions and are to be considered as „up to" values and may vary depending on system configuration and infrastructure:

a   Firewall throughput measured with large packets (MTU1500) UDP packets, bi-directional across multiple ports.
b   VPN performance is based on 1415 Byte UDP packets, bidirectional using BreakingPoint traffic generator.
c   IPS throughput is measured using large packets (MTU1500) UDP traffic and across multiple ports.
d   NGFW throughput is measured with IPS, application control, and web filter enabled, based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports.
e   Threat protection throughput is measured with IPS, application control, web filter, and antivirus enabled, based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports.
f   Depending on feature set; for more detailed information on sizing, please use the free sizing application "Firewall Blueprint" for iOS - available for iPhones and iPads.
g   MTBF according to common usage. High load on SSD and extreme environmental conditions might reduce MTBF.

Errors and omissions excepted. Specifications subject to change without notice.

CloudGen Firewall F82.DSLB°

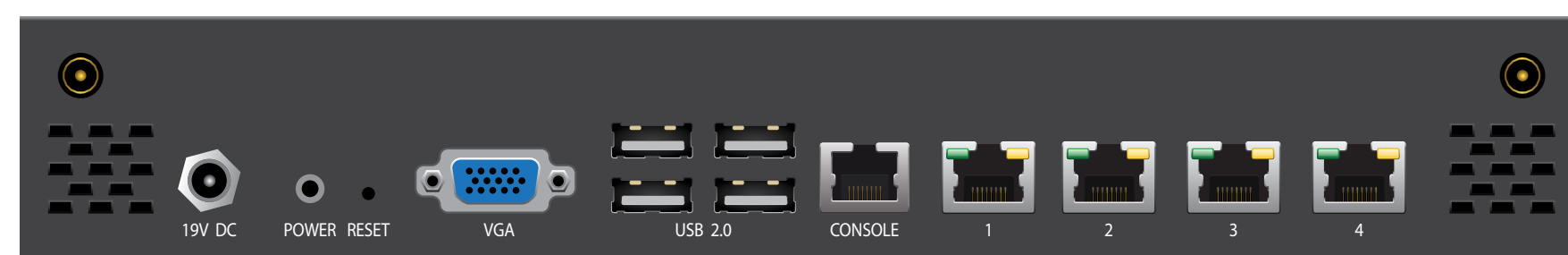| INTERFACES	
Copper ethernet NICs	4x1 GbE
USB 2.0	4
Serial / console	1x RJ45
WAN interfaces	1x RJ45 + 1x1 GbE SFP
VGA	Yes
Integrated modem	DSL, Annex B
Integrated WiFi (IEEE 802.11b/g/n)	Yes
PERFORMANCE [AS OF FIRMWARE RELEASE 7.2.X]	
Firewall throughput [Gbps][a]	1.5
VPN throughput [AES-128, TINA std hash, Mbps][b]	240
VPN throughput [AES-256, TINA std hash, Mbps][b]	200
VPN throughput [AES-256, SHA256, Mbps][b]	180
VPN throughput [AES-256, MD5, Mbps][b]	200
VPN throughput [AES-256, GCM, Mbps][b]	180
IPS throughput [Mbps][c]	400
NGFW throughput [Mbps][d]	400
Threat protection throughput [Mbps][e]	380
Concurrent sessions	80,000
New sessions/s	8,000
Max. number of concurrent users[f]	50-100
MEMORY	
RAM [GB]	4
MASS STORAGE	
Type	SSD
Size ([GB] or better)	50
SSD MTBF [hours]	1.200.000
SIZE, WEIGHT, DIMENSIONS	
Weight appliance [lbs] / [kg]	4.9 / 2.2
Appliance size: width x depth x height [in]	14.9 x 6.4 x 1.7
Appliance size: width x depth x height [mm]	378 x 160 x 44
Weight carton with appliance [lbs] / [kg]	8.4 / 3.8
Carton size: width x depth x height [in]	17 x 11.5 x 6
Carton size: width x depth x height [mm]	430 x 290 x 150
Form factor	Desktop
HARDWARE	
Hardware Crypto Accelerator	Yes, built-in
Cooling	Fanless
ENVIRONMENTAL	
Noise emission [db/A]	n/a
Operating temperature [°F] / [°C]	+30 to +95 / 0 to +35
Storage temperature [°F] / [°C]	-5 to +160 / -20 to +70
Operating humidity (non-condensing)	5% to 95%

MTBF [SYSTEM]	
MTBF [yrs.][g]	> 5
POWER & EFFICIENCY	
Power supply	Single
Power supply type	External brick
Power type [AC/DC]	AC
Input rating [Volts]	100-240
Input frequency [Hz]	50-60
Auto sense	Yes
Max. power draw [W]	45
Max. power draw @ 120V [Amps.]	0.4
Max. power draw @ 230V [Amps.]	0.2
Max. heat dissipation [W]	19
Max. heat dissipation [BTU]	65
Energy efficiency [average]	> 85%
CERTIFICATIONS & COMPLIANCE	
CE emissions	Yes
CE electrical safety	Yes
FCC emissions	Yes
ROHS compliant	Yes
PACKAGING CONTENT	
Appliance	Yes
Serial cable	Yes
Straight network cable	Yes
External power brick & cables	Yes
USB flash drive for recovery & installation	Yes
Quick start guide	Yes
2x Wireless antenna	Yes
2x Barracuda wall mount bracket	Yes
2x Barracuda L-shape rack mount bracket	Yes

° F82.DSLB models are available in EMEA only.

All performance values are measured under optimized conditions and are to be considered as „up to" values and may vary depending on system configuration and infrastructure:

a Firewall throughput measured with large packets (MTU1500) UDP packets, bi-directional across multiple ports.
b VPN performance is based on 1415 Byte UDP packets, bidirectional using BreakingPoint traffic generator.
c IPS throughput is measured using large packets (MTU1500) UDP traffic and across multiple ports.
d NGFW throughput is measured with IPS, application control, and web filter enabled, based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports.
e Threat protection throughput is measured with IPS, application control, web filter, and antivirus enabled, based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports.
f Depending on feature set; for more detailed information on sizing, please use the free sizing application "Firewall Blueprint" for iOS - available for iPhones and iPads.
g MTBF according to common usage. High load on SSD and extreme environmental conditions might reduce MTBF.

Errors and omissions excepted. Specifications subject to change without notice.

CloudGen Firewall F180

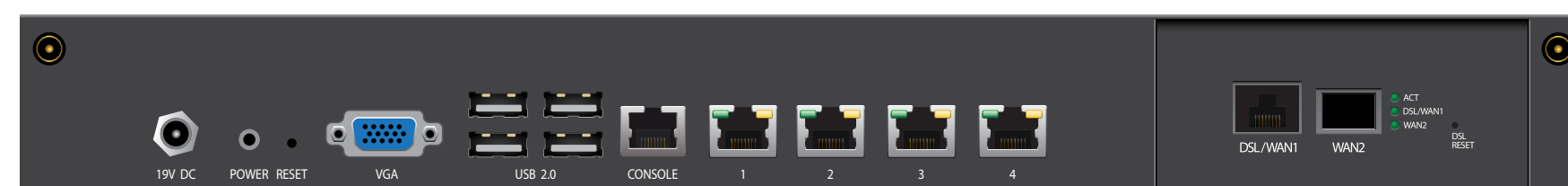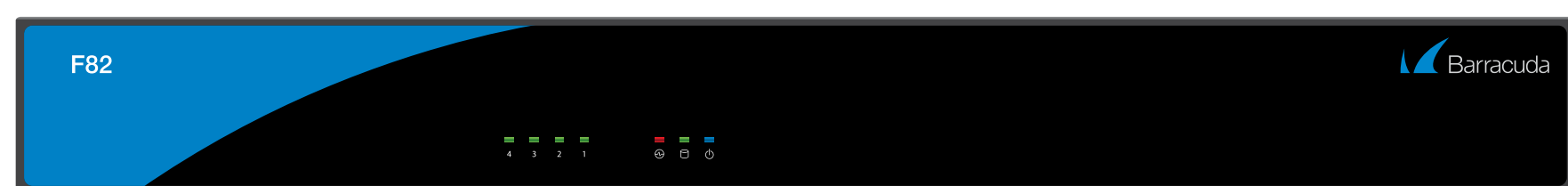| INTERFACES	
Copper ethernet NICs	6x1 GbE Copper
Integrated switch	8-port switch
USB 2.0	4
Serial / console	1x RJ45
VGA	Yes
Integrated WiFi (IEEE 802.11b/g/n)	Yes
PERFORMANCE [AS OF FIRMWARE RELEASE 7.2.X]	
Firewall throughput [Gbps][a]	1.7
VPN throughput [AES-128, TINA std hash, Mbps][b]	300
VPN throughput [AES-256, TINA std hash, Mbps][b]	260
VPN throughput [AES-256, SHA256, Mbps][b]	220
VPN throughput [AES-256, MD5, Mbps][b]	240
VPN throughput [AES-256, GCM, Mbps][b]	220
IPS throughput [Mbps][c]	500
NGFW throughput [Mbps][d]	550
Threat protection throughput [Mbps][e]	480
Concurrent sessions	100,000
New sessions/s	9,000
Max. number of concurrent users [f]	75-150
MEMORY	
RAM [GB]	2 or higher
MASS STORAGE	
Type	SSD
Size ([GB] or better)	80
SSD MTBF [hours]	1.200.000
SIZE, WEIGHT, DIMENSIONS	
Weight appliance [lbs] / [kg]	4.9 / 2.1
Appliance size: width x depth x height [in]	14.9 x 6.4 x 1.7
Appliance size: width x depth x height [mm]	378 x 162 x 44
Weight carton with appliance [lbs] / [kg]	9.8 / 4.5
Carton size: width x depth x height [in]	30.9 x 19.5 x 18.5
Carton size: width x depth x height [mm]	786 x 495 x 471
Form factor	Desktop
HARDWARE	
Display	-
Cooling	Fan
ENVIRONMENTAL	
Noise emission [db/A]	< 40
Operating temperature [°F] / [°C]	+30 to +105 / 0 to +40
Storage temperature [°F] / [°C]	-5 to +160 / -20 to +70
Operating humidity (non-condensing)	5% to 95%

MTBF [SYSTEM]	
MTBF [yrs.] [g]	> 5
POWER & EFFICIENCY	
Power supply	Single
Power supply type	External brick
Power type [AC/DC]	AC
Input rating [Volts]	100-240
Input frequency [Hz]	50-60
Auto sense	Yes
Max. power draw [W]	45
Max. power draw @ 120V [Amps.]	0.4
Max. power draw @ 230V [Amps.]	0.2
Max. heat dissipation [W]	27
Max. heat dissipation [BTU]	91
Energy efficiency [average]	> 85%
CERTIFICATIONS & COMPLIANCE	
CE emissions	Yes
CE electrical safety	Yes
FCC emissions	Yes
ROHS compliant	Yes
PACKAGING CONTENT	
Appliance	Yes
Serial cable	Yes
Straight network cable	Yes
External power brick & cables	Yes
USB flash drive for recovery & installation	Yes
Quick start guide	Yes
2x Wireless antenna	Yes
2x Barracuda wall mount bracket	Yes
2x Barracuda L-shape rack mount bracket	Yes

All performance values are measured under optimized conditions and are to be considered as „up to" values and may vary depending on system configuration and infrastructure:

a   Firewall throughput measured with large packets (MTU1500) UDP packets, bi-directional across multiple ports.
b   VPN performance is based on 1415 Byte UDP packets, bidirectional using BreakingPoint traffic generator.
c   IPS throughput is measured using large packets (MTU1500) UDP traffic and across multiple ports.
d   NGFW throughput is measured with IPS, application control, and web filter enabled, based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports.
e   Threat protection throughput is measured with IPS, application control, web filter, and antivirus enabled, based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports.
f   Depending on feature set; for more detailed information on sizing, please use the free sizing application "Firewall Blueprint" for iOS - available for iPhones and iPads.
g   MTBF according to common usage. High load on SSD and extreme environmental conditions might reduce MTBF.

Errors and omissions excepted. Specifications subject to change without notice.

CloudGen Firewall F183

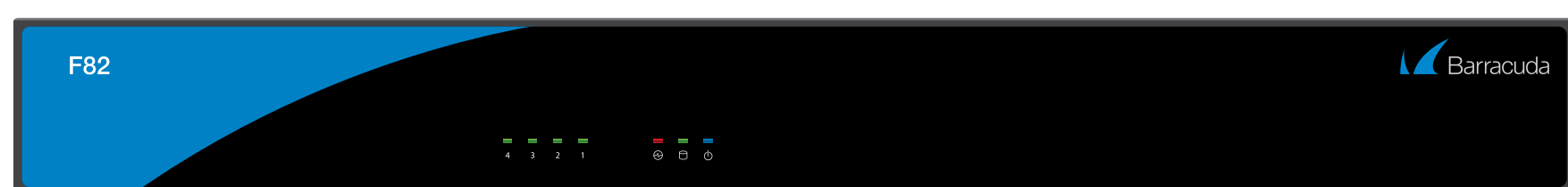| INTERFACES	
Copper ethernet NICs	6x1 GbE
SFP fiber NICs	2x1 GbE
USB 2.0	4
Serial / console	1x RJ45
VGA	Yes
Integrated WiFi (IEEE 802.11b/g/n)	Yes
PERFORMANCE [AS OF FIRMWARE RELEASE 7.2.X]	
Firewall throughput [Gbps][a]	2.0
VPN throughput [AES-128, TINA std hash, Mbps][b]	300
VPN throughput [AES-256, TINA std hash, Mbps][b]	280
VPN throughput [AES-256, SHA256, Mbps][b]	150
VPN throughput [AES-256, MD5, Mbps][b]	170
VPN throughput [AES-256, GCM, Mbps][b]	150
IPS throughput [Mbps][c]	580
NGFW throughput [Mbps][d]	700
Threat protection throughput [Mbps][e]	600
Concurrent sessions	100,000
New sessions/s	9,000
Max. number of concurrent users[f]	75-150
MEMORY	
RAM [GB]	4
MASS STORAGE	
Type	SSD
Size ([GB] or better)	80
SSD MTBF [hours]	1.200.000
SIZE, WEIGHT, DIMENSIONS	
Weight appliance [lbs] / [kg]	4.9 / 2.1
Appliance size: width x depth x height [in]	14.9 x 6.4 x 1.7
Appliance size: width x depth x height [mm]	378 x 162 x 44
Weight carton with appliance [lbs] / [kg]	9.8 / 4.5
Carton size: width x depth x height [in]	30.9 x 19.5 x 18.5
Carton size: width x depth x height [mm]	786 x 495 x 471
Form factor	Desktop
HARDWARE	
Display	-
Cooling	Fan
ENVIRONMENTAL	
Noise emission [db/A]	< 40
Operating temperature [°F] / [°C]	+30 to +105 / 0 to +40
Storage temperature [°F]	-5 to +160 / -20 to +70
Operating humidity (non-condensing)	5% to 95%

MTBF [SYSTEM]	
MTBF [yrs.] [g]	> 5
POWER & EFFICIENCY	
Power supply	Single
Power supply type	External brick
Power type [AC/DC]	AC
Input rating [Volts]	100-240
Input frequency [Hz]	50-60
Auto sense	Yes
Max. power draw [W]	45
Max. power draw @ 120V [Amps.]	0.4
Max. power draw @ 230V [Amps.]	0.2
Max. heat dissipation [W]	27
Max. heat dissipation [BTU]	91
Energy efficiency [average]	> 85%
CERTIFICATIONS & COMPLIANCE	
CE emissions	Yes
CE electrical safety	Yes
FCC emissions	Yes
ROHS compliant	Yes
PACKAGING CONTENT	
Appliance	Yes
Serial cable	Yes
Straight network cable	Yes
External power brick & cables	Yes
USB flash drive for recovery & installation	Yes
Quick start guide	Yes
2x Wireless antenna	Yes
2x Barracuda wall mount bracket	Yes
2x Barracuda L-shape rack mount bracket	Yes

All performance values are measured under optimized conditions and are to be considered as „up to" values and may vary depending on system configuration and infrastructure:

a   Firewall throughput measured with large packets (MTU1500) UDP packets, bi-directional across multiple ports.
b   VPN performance is based on 1415 Byte UDP packets, bidirectional using BreakingPoint traffic generator.
c   IPS throughput is measured using large packets (MTU1500) UDP traffic and across multiple ports.
d   NGFW throughput is measured with IPS, application control, and web filter enabled, based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports.
e   Threat protection throughput is measured with IPS, application control, web filter, and antivirus enabled, based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports.
f   Depending on feature set; for more detailed information on sizing, please use the free sizing application "Firewall Blueprint" for iOS - available for iPhones and iPads.
g   MTBF according to common usage. High load on SSD and extreme environmental conditions might reduce MTBF.

Errors and omissions excepted. Specifications subject to change without notice.

CloudGen Firewall F183R (Rugged)

INTERFACE	
Copper ethernet NICs	5x1 GbE RJ45
SFP fiber NICs	2x1 GbE
USB	1x USB 2.0
	1x USB 3.0
Serial / console	1x DB9 RS232
ESD protection	15KV

PERFORMANCE [AS OF FIRMWARE RELEASE 7.2.X]	
Firewall throughput [Gbps][a]	2.1
VPN throughput [AES-128, TINA std hash, Mbps][b]	320
VPN throughput [AES-256, TINA std hash, Mbps][b]	300
VPN throughput [AES-256, SHA256, Mbps][b]	190
VPN throughput [AES-256, MD5, Mbps][b]	270
VPN throughput [AES-256, GCM, Mbps][b]	190
IPS throughput [Mbps][c]	790
NGFW throughput [Mbps][d]	800
Threat protection throughput [Mbps][e]	700
Concurrent sessions	100,000
New sessions/s	9,000
Max. number of concurrent users[f]	75-150

HARDWARE	
Cores	4
Processor Base Frequency	1.91 GHz
Cooling	Fanless

MEMORY	
RAM [GB]	4

MASS STORAGE	
Type	Solid State
Size ([GB] or better)	100

SIZE, WEIGHT, DIMENSIONS	
Weight appliance [lbs] / [kg]	2.2 / 1.0
Appliance size: width x depth x height [in]	3.07 x 5 x 5.75
Appliance size: width x depth x height [mm]	78 x 127 x 146
Carton size: width x depth x height [in]	8.7 x 9.4 x 5.7
Carton size: width x depth x height [mm]	220 x 240 x 145
Form factor	Compact, DIN rail mount

ENVIRONMENTAL	
Noise emission [db/A]	n/a
Operating temperature [°F] / [°C]	-40 to +167 / -40 to +75
Storage temperature [°F] / [°C]	-40 to +185 / -40 to +85
Operating humidity (non-condensing)	5% to 95%
Magnetic Isolation Protection	1.5KV built-in

MTBF [SYSTEM]	
MTBF [yrs.] [g]	> 9

POWER & EFFICIENCY	
Power supply	Dual, external
Power supply type	External brick
459	Phoenix 6-pin w/ lock
Power type [AC/DC]	DC
Input rating [Volts]	12 - 36
Max. power draw [W]	60
Max. power draw @ 24V [Amps.]	2.5
Max. heat dissipation [W]	60

CERTIFICATIONS & COMPLIANCE	
CE emissions	Yes
CE electrical safety	Yes
FCC emissions	Yes
ROHS compliant	Yes
Protection Classification	IP 20 standard, IP 30 with I/O rubber covers and power supply via Phoenix 6-pin

PACKAGING CONTENT	
Appliance	Yes
DIN rail mount brackets	Yes
I/O rubber covers	Yes
Quick start guide	Yes

All performance values are measured under optimized conditions and are to be considered as „up to" values and may vary depending on system configuration and infrastructure:

a   Firewall throughput measured with large packets (MTU1500) UDP packets, bi-directional across multiple ports.
b   VPN performance is based on 1415 Byte UDP packets, bidirectional using BreakingPoint traffic generator.
c   IPS throughput is measured using large packets (MTU1500) UDP traffic and across multiple ports.
d   NGFW throughput is measured with IPS, application control, and web filter enabled, based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports.
e   Threat protection throughput is measured with IPS, application control, web filter, and antivirus enabled, based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports.
f   Depending on feature set; for more detailed information on sizing, please use the free sizing application "Firewall Blueprint" for iOS - available for iPhones and iPads.
g   MTBF according to common usage. High load on SSD and extreme environmental conditions might reduce MTBF.

Errors and omissions excepted. Specifications subject to change without notice.

CloudGen Firewall F280

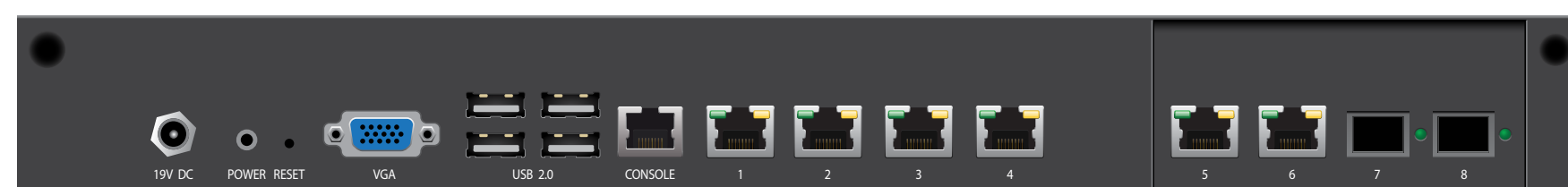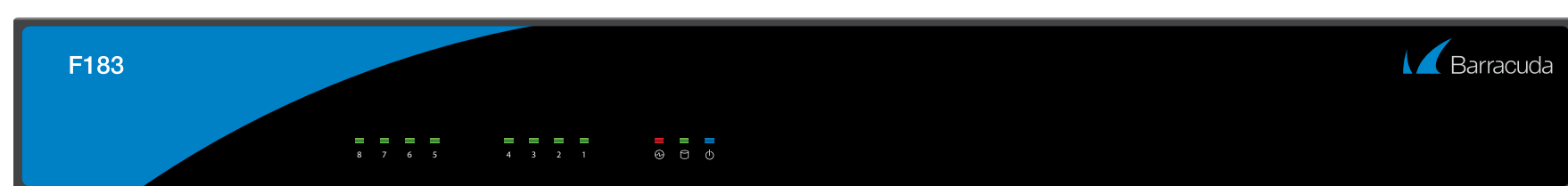| INTERFACES	
Copper ethernet NICs	6x1 GbE
Switch	8-port
USB 2.0	4
Serial / console	1x RJ45
VGA	Yes
Integrated WiFi (IEEE 802.11b/g/n)	Yes
PERFORMANCE [AS OF FIRMWARE RELEASE 7.2.X]	
Firewall throughput [Gbps][a]	3.7
VPN throughput [AES-128, TINA std hash, Gbps][b]	1.1
VPN throughput [AES-256, TINA std hash, Mbps][b]	780
VPN throughput [AES-256, SHA256, Mbps][b]	390
VPN throughput [AES-256, MD5, Mbps][b]	650
VPN throughput [AES-256, GCM, Mbps][b]	500
IPS throughput [Gbps][c]	1.2
NGFW throughput [Gbps][d]	1.0
Threat protection throughput [Mbps][e]	900
Concurrent sessions	250,000
New sessions/s	10,000
Max. number of concurrent users [f]	150-300
MEMORY	
RAM [GB]	4
MASS STORAGE	
Type	SSD
Size ([GB] or better)	80
SSD MTBF [hours]	1.200.000
SIZE, WEIGHT, DIMENSIONS	
Weight appliance [lbs] / [kg]	4.9 / 2.1
Appliance size: width x depth x height [in]	14.9 x 6.4 x 1.7
Appliance size: width x depth x height [mm]	378 x 162 x 44
Weight carton with appliance [lbs] / [kg]	9.8 / 4.5
Carton size: width x depth x height [in]	30.9 x 19.5 x 18.5
Carton size: width x depth x height [mm]	786 x 495 x 471
Form factor	Desktop
HARDWARE	
Display	-
Cooling	Fan
ENVIRONMENTAL	
Noise emission [db/A]	< 40
Operating temperature [°F] / [°C]	+30 to +105 / 0 to +40
Storage temperature [°F] / [°C]	-5 to +160 / -20 to +70
Operating humidity (non-condensing)	5% to 95%

MTBF [SYSTEM]	
MTBF [yrs.] [g]	> 5
POWER & EFFICIENCY	
Power supply	Single
Power supply type	External brick
Power type [AC/DC]	AC
Input rating [Volts]	100-240
Input frequency [Hz]	50-60
Auto sense	Yes
Max. power draw [W]	45
Max. power draw @ 120V [Amps.]	0.4
Max. power draw @ 230V [Amps.]	0.2
Max. heat dissipation [W]	27
Max. heat dissipation [BTU]	91
Energy efficiency [average]	> 85%
CERTIFICATIONS & COMPLIANCE	
CE emissions	Yes
CE electrical safety	Yes
FCC emissions	Yes
ROHS compliant	Yes
PACKAGING CONTENT	
Appliance	Yes
Serial cable	Yes
Straight network cable	Yes
External power brick & cables	Yes
USB flash drive for recovery & installation	Yes
Quick start guide	Yes
2x Wireless antenna	Yes
2x Barracuda wall mount bracket	Yes
2x Barracuda L-shape rack mount bracket	Yes

All performance values are measured under optimized conditions and are to be considered as „up to" values and may vary depending on system configuration and infrastructure:

a   Firewall throughput measured with large packets (MTU1500) UDP packets, bi-directional across multiple ports.

b   VPN performance is based on 1415 Byte UDP packets, bidirectional using BreakingPoint traffic generator.

c   IPS throughput is measured using large packets (MTU1500) UDP traffic and across multiple ports.

d   NGFW throughput is measured with IPS, application control, and web filter enabled, based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports.

e   Threat protection throughput is measured with IPS, application control, web filter, and antivirus enabled, based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports.

f   Depending on feature set; for more detailed information on sizing, please use the free sizing application "Firewall Blueprint" for iOS - available for iPhones and iPads.

g   MTBF according to common usage. High load on SSD and extreme environmental conditions might reduce MTBF.

Errors and omissions excepted. Specifications subject to change without notice.

CloudGen Firewall F380

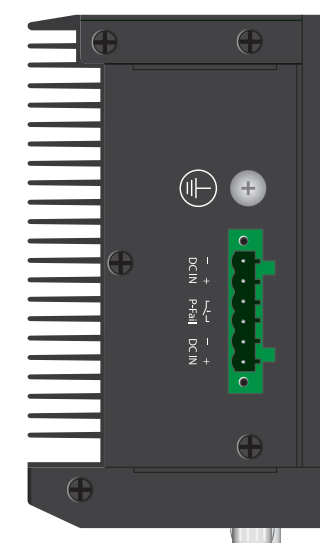| INTERFACES	
Copper ethernet NICs	8x1 GbE
USB 2.0	2
Serial / console	1x RJ45
PERFORMANCE [AS OF FIRMWARE RELEASE 7.2.X]	
Firewall throughput [Gbps][a]	5.2
VPN throughput [AES-128, TINA std hash, Gbps][b]	1.4
VPN throughput [AES-256, TINA std hash, Mbps][b]	810
VPN throughput [AES-256, SHA256, Mbps][b]	400
VPN throughput [AES-256, MD5, Mbps][b]	670
VPN throughput [AES-256, GCM, Mbps][b]	590
IPS throughput [Gbps][c]	2.0
NGFW throughput [Gbps][d]	1.4
Threat protection throughput [Gbps][e]	1.2
Concurrent sessions	400,000
New sessions/s	15,000
Max. number of concurrent users[f]	200-500
MEMORY	
RAM [GB]	4
MASS STORAGE	
Type	SSD
Size ([GB] or better)	80
SSD MTBF [hours]	1.200.000
SIZE, WEIGHT, DIMENSIONS	
Weight appliance [lbs] / [kg]	13 / 5.9
Appliance size: width x depth x height [in]	16.9 x 13.0 x 1.7
Appliance size: width x depth x height [mm]	428 x 330 x 44
Weight carton with appliance [lbs] / [kg]	17.6 /
Carton size: width x depth x height [in]	21.3 x 21.3 x 8.3
Carton size: width x depth x height [mm]	540 x 540 x 210
Form factor	1U Rack Mount
HARDWARE	
Display	Yes
Cooling	Fan
ENVIRONMENTAL	
Noise emission [db/A]	N/A
Operating temperature [°F] / [°C]	+30 to +95 / 0 to +40
Storage temperature [°F] / [°C]	-5 to +160 / -20 to +70
Operating humidity (non-condensing)	5% to 95%

MTBF [SYSTEM]	
MTBF [yrs.][g]	> 5
POWER & EFFICIENCY	
Power supply	Single
Power supply type	Internal
Power type [AC/DC]	AC
Input rating [Volts]	100-240
Input frequency [Hz]	50-60
Auto sense	Yes
Max. power draw [W]	60
Max. power draw @ 120V [Amps.]	1.6
Max. power draw @ 230V [Amps.]	0.8
Max. heat dissipation [W]	60
Max. heat dissipation [BTU]	205
Energy efficiency [average]	> 83%
CERTIFICATIONS & COMPLIANCE	
CE emissions	Yes
CE electrical safety	Yes
FCC emissions	Yes
ROHS compliant	Yes
PACKAGING CONTENT	
Appliance	Yes
Serial cable	Yes
Straight 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	Optional

All performance values are measured under optimized conditions and are to be considered as „up to" values and may vary depending on system configuration and infrastructure:

a   Firewall throughput measured with large packets (MTU1500) UDP packets, bi-directional across multiple ports.
b   VPN performance is based on 1415 Byte UDP packets, bidirectional using BreakingPoint traffic generator.
c   IPS throughput is measured using large packets (MTU1500) UDP traffic and across multiple ports.
d   NGFW throughput is measured with IPS, application control, and web filter enabled, based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports.
e   Threat protection throughput is measured with IPS, application control, web filter, and antivirus enabled, based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports.
f   Depending on feature set; for more detailed information on sizing, please use the free sizing application "Firewall Blueprint" for iOS - available for iPhones and iPads.
g   MTBF according to common usage. High load on SSD and extreme environmental conditions might reduce MTBF.

Errors and omissions excepted. Specifications subject to change without notice.

CloudGen Firewall F400 standard model

INTERFACES	
Copper ethernet NICs	8x1 GbE
USB 2.0	2
Serial / console	1x RJ45
PERFORMANCE [AS OF FIRMWARE RELEASE 7.2.X]	
Firewall throughput [Gbps][a]	7.1
VPN throughput [AES-128, TINA std hash, Gbps][b]	2.3
VPN throughput [AES-256, TINA std hash, Gbps][b]	1.6
VPN throughput [AES-256, SHA256, Mbps][b]	800
VPN throughput [AES-256, MD5, Gbps][b]	1.4
VPN throughput [AES-256, GCM, Mbps][b]	800
IPS throughput [Gbps][c]	2.8
NGFW throughput [Gbps][d]	2.2
Threat protection throughput [Gbps][e]	2.0
Concurrent sessions	500,000
New sessions/s	20,000
Max. number of concurrent users[f]	300-1,000
MEMORY	
RAM [GB]	4
MASS STORAGE	
Type	SSD
Size ([GB] or better)	80
SSD MTBF [hours]	1.200.000
SIZE, WEIGHT, DIMENSIONS	
Weight appliance [lbs] / [kg]	16.5 / 7.5
Appliance size: width x depth x height [in]	16.9 x 17.7 x 1.7
Appliance size: width x depth x height [mm]	430 x 450 x 44
Weight carton with appliance [lbs] / [kg]	22.5 / 10.2
Carton size: width x depth x height [in]	24.4 x 23.2 x 7.9
Carton size: width x depth x height [mm]	620 x 590 x 200
Form factor	1U Rack Mount
HARDWARE	
Display	Yes
Cooling	Fan
ENVIRONMENTAL	
Noise emission [db/A]	N/A
Operating temperature [°F] / [°C]	+30 to +95 / 0 to +40
Storage temperature [°F] / [°C]	-5 to +160 / -20 to +70
Operating humidity (non-condensing)	5% to 95%

MTBF [SYSTEM]	
MTBF [yrs.] [g]	> 5
POWER & EFFICIENCY	
Power supply	Single
Power supply type	Internal
Power type [AC/DC]	AC
Input rating [Volts]	100-240
Input frequency [Hz]	50-60
Auto sense	Yes
Max. power draw [W]	250
Max. power draw @ 120V [Amps.]	5
Max. power draw @ 230V [Amps.]	2.6
Max. heat dissipation [W]	250
Max. heat dissipation [BTU]	1,024
Energy efficiency [average]	> 80%
CERTIFICATIONS & COMPLIANCE	
CE emissions	Yes
CE electrical safety	Yes
FCC emissions	Yes
ROHS compliant	Yes
PACKAGING CONTENT	
Appliance	Yes
Serial cable	Yes
Straight 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	Optional

All performance values are measured under optimized conditions and are to be considered as „up to" values and may vary depending on system configuration and infrastructure:

a   Firewall throughput measured with large packets (MTU1500) UDP packets, bi-directional across multiple ports.

b   VPN performance is based on 1415 Byte UDP packets, bidirectional using BreakingPoint traffic generator.

c   IPS throughput is measured using large packets (MTU1500) UDP traffic and across multiple ports.

d   NGFW throughput is measured with IPS, application control, and web filter enabled, based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports.

e   Threat protection throughput is measured with IPS, application control, web filter, and antivirus enabled, based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports.

f   Depending on feature set; for more detailed information on sizing, please use the free sizing application "Firewall Blueprint" for iOS - available for iPhones and iPads.

g   MTBF according to common usage. High load on SSD and extreme environmental conditions might reduce MTBF.

Errors and omissions excepted. Specifications subject to change without notice.

CloudGen Firewall F400.F20

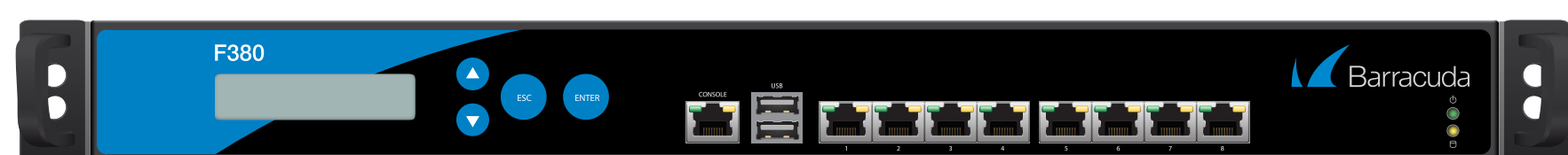| INTERFACES	
Copper ethernet NICs	8x1 GbE
SFP fiber NICs	4x1 GbE
USB 2.0	2
Serial / console	1x RJ45
PERFORMANCE [AS OF FIRMWARE RELEASE 7.2.X]	
Firewall throughput [Gbps][a]	9.0
VPN throughput [AES-128, TINA std hash, Gbps][b]	2.3
VPN throughput [AES-256, TINA std hash, Gbps][b]	1.6
VPN throughput [AES-256, SHA256, Mbps][b]	800
VPN throughput [AES-256, MD5, Gbps][b]	1.4
VPN throughput [AES-256, GCM, Mbps][b]	800
IPS throughput [Gbps][c]	3.0
NGFW throughput [Gbps][d]	3.0
Threat protection throughput [Gbps][e]	2.7
Concurrent sessions	500,000
New sessions/s	20,000
Max. number of concurrent users[f]	300-1,000
MEMORY	
RAM [GB]	4
MASS STORAGE	
Type	SSD
Size ([GB] or better)	80
SSD MTBF [hours]	1.200.000
SIZE, WEIGHT, DIMENSIONS	
Weight appliance [lbs] / [kg]	16.5 / 7.5
Appliance size: width x depth x height [in]	16.9 x 17.7 x 1.7
Appliance size: width x depth x height [mm]	430 x 450 x 44
Weight carton with appliance [lbs] / [kg]	22.5 / 10.2
Carton size: width x depth x height [in]	24.4 x 23.2 x 7.9
Carton size: width x depth x height [mm]	620 x 590 x 200
Form factor	1U Rack Mount
HARDWARE	
Display	Yes
Cooling	Fan
ENVIRONMENTAL	
Noise emission [db/A]	N/A
Operating temperature [°F] / [°C]	+30 to +95 / 0 to +40
Storage temperature [°F] / [°C]	-5 to +160 / -20 to +70
Operating humidity (non-condensing)	5% to 95%

MTBF [SYSTEM]	
MTBF [yrs.] [g]	> 5
POWER & EFFICIENCY	
Power supply	Dual hot swap
Power supply type	Internal
Power type [AC/DC]	AC
Input rating [Volts]	100-240
Input frequency [Hz]	50-60
Auto sense	Yes
Max. power draw [W]	250
Max. power draw @ 120V [Amps.]	5
Max. power draw @ 230V [Amps.]	2.6
Max. heat dissipation [W]	250
Max. heat dissipation [BTU]	1,024
Energy efficiency [average]	> 80%
CERTIFICATIONS & COMPLIANCE	
CE emissions	Yes
CE electrical safety	Yes
FCC emissions	Yes
ROHS compliant	Yes
PACKAGING CONTENT	
Appliance	Yes
Serial cable	Yes
Straight 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	Optional

All performance values are measured under optimized conditions and are to be considered as „up to" values and may vary depending on system configuration and infrastructure:

a   Firewall throughput measured with large packets (MTU1500) UDP packets, bi-directional across multiple ports.
b   VPN performance is based on 1415 Byte UDP packets, bidirectional using BreakingPoint traffic generator.
c   IPS throughput is measured using large packets (MTU1500) UDP traffic and across multiple ports.
d   NGFW throughput is measured with IPS, application control, and web filter enabled, based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports.
e   Threat protection throughput is measured with IPS, application control, web filter, and antivirus enabled, based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports.
f   Depending on feature set; for more detailed information on sizing, please use the free sizing application "Firewall Blueprint" for iOS - available for iPhones and iPads.
g   MTBF according to common usage. High load on SSD and extreme environmental conditions might reduce MTBF.

Errors and omissions excepted. Specifications subject to change without notice.

CloudGen Firewall F600.C10

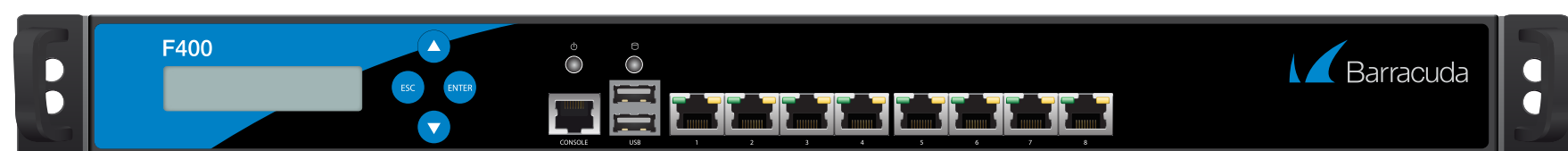| INTERFACES	
Copper ethernet NICs	12x1 GbE
USB 2.0	2
Serial / console	1x RJ45
PERFORMANCE [AS OF FIRMWARE RELEASE 7.2.X]	
Firewall throughput [Gbps][a]	11
VPN throughput [AES-128, TINA std hash, Gbps][b]	3.1
VPN throughput [AES-256, TINA std hash, Gbps][b]	1.8
VPN throughput [AES-256, SHA256, Mbps][b]	960
VPN throughput [AES-256, MD5, Gbps][b]	1.8
VPN throughput [AES-256, GCM, Gbps][b]	1.0
IPS throughput [Gbps][c]	4.6
NGFW throughput [Gbps][d]	4.2
Threat protection throughput [Gbps][e]	4.0
Concurrent sessions	2,100,000
New sessions/s	115,000
Max. number of concurrent users[f]	1,000-4,000
MEMORY	
RAM [GB]	8
MASS STORAGE	
Type	SSD
Size ([GB] or better)	180
SSD MTBF [hours]	1.200.000
SIZE, WEIGHT, DIMENSIONS	
Weight appliance [lbs] / [kg]	17.6 / 8.0
Appliance size: width x depth x height [in]	16.9 x 17.7 x 1.7
Appliance size: width x depth x height [mm]	430 x 450 x 44
Weight carton with appliance [lbs] / [kg]	26.5 / 12
Carton size: width x depth x height [in]	25.6 x 23.2 x 7.9
Carton size: width x depth x height [mm]	650 x 590 x 200
Form factor	1U Rack Mount
HARDWARE	
Display	Yes
Cooling	Fan
ENVIRONMENTAL	
Noise emission [db/A]	N/A
Operating temperature [°F] / [°C]	+30 to +105 / 0 to +40
Storage temperature [°F] / [°C]	-5 to +140 / -20 to +60
Operating humidity (non-condensing)	5% to 95%

MTBF [SYSTEM]	
MTBF [yrs.] [g]	> 5
POWER & EFFICIENCY	
Power supply	Single
Power supply type	Internal
Power type [AC/DC]	AC
Input rating [Volts]	100-240
Input frequency [Hz]	50-60
Auto sense	Yes
Max. power draw [W]	300
Max. power draw @ 120V [Amps.]	5
Max. power draw @ 230V [Amps.]	2.6
Max. heat dissipation [W]	300
Max. heat dissipation [BTU]	1,024
Energy efficiency [average]	> 80%
CERTIFICATIONS & COMPLIANCE	
CE emissions	Yes
CE electrical safety	Yes
FCC emissions	Yes
ROHS compliant	Yes
PACKAGING CONTENT	
Appliance	Yes
Serial cable	Yes
Straight 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

All performance values are measured under optimized conditions and are to be considered as „up to" values and may vary depending on system configuration and infrastructure:

a   Firewall throughput measured with large packets (MTU1500) UDP packets, bi-directional across multiple ports.

b   VPN performance is based on 1415 Byte UDP packets, bidirectional using BreakingPoint traffic generator.

c   IPS throughput is measured using large packets (MTU1500) UDP traffic and across multiple ports.

d   NGFW throughput is measured with IPS, application control, and web filter enabled, based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports.

e   Threat protection throughput is measured with IPS, application control, web filter, and antivirus enabled, based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports.

f   Depending on feature set; for more detailed information on sizing, please use the free sizing application "Firewall Blueprint" for iOS - available for iPhones and iPads.

g   MTBF according to common usage. High load on SSD and extreme environmental conditions might reduce MTBF.

Errors and omissions excepted. Specifications subject to change without notice.

CloudGen Firewall F600.C20

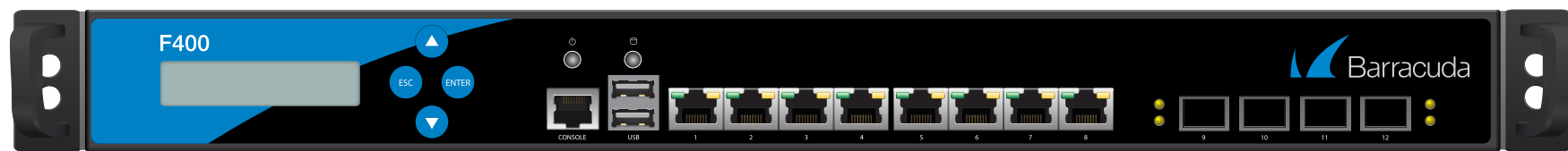| INTERFACES	
Copper ethernet NICs	12x1 GbE
USB 2.0	2
Serial / console	1x RJ45
PERFORMANCE [AS OF FIRMWARE RELEASE 7.2.X]	
Firewall throughput [Gbps][a]	11
VPN throughput [AES-128, TINA std hash, Gbps][b]	3.1
VPN throughput [AES-256, TINA std hash, Gbps][b]	1.8
VPN throughput [AES-256, SHA256, Mbps][b]	960
VPN throughput [AES-256, MD5, Gbps][b]	1.8
VPN throughput [AES-256, GCM, Gbps][b]	1.0
IPS throughput [Gbps][c]	4.6
NGFW throughput [Gbps][d]	4.2
Threat protection throughput [Gbps][e]	4.0
Concurrent sessions	2,100,000
New sessions/s	115,000
Max. number of concurrent users [f]	1,000-4,000
MEMORY	
RAM [GB]	8
MASS STORAGE	
Type	SSD
Size ([GB] or better)	180
SSD MTBF [hours]	1.200.000
SIZE, WEIGHT, DIMENSIONS	
Weight appliance [lbs] / [kg]	17.6 / 8.0
Appliance size: width x depth x height [in]	16.9 x 17.7 x 1.7
Appliance size: width x depth x height [mm]	430 x 450 x 44
Weight carton with appliance [lbs] / [kg]	26.5 / 12
Carton size: width x depth x height [in]	25.6 x 23.2 x 7.9
Carton size: width x depth x height [mm]	650 x 590 x 200
Form factor	1U Rack Mount
HARDWARE	
Display	Yes
Cooling	Fan
ENVIRONMENTAL	
Noise emission [db/A]	N/A
Operating temperature [°F] / [°C]	+30 to +105 / 0 to +40
Storage temperature [°F] / [°C]	-5 to +140 / -20 to +60
Operating humidity (non-condensing)	5% to 95%

MTBF [SYSTEM]	
MTBF [yrs.] [g]	> 5
POWER & EFFICIENCY	
Power supply	Dual hot swap
Power supply type	Internal
Power type [AC/DC]	AC
Input rating [Volts]	100-240
Input frequency [Hz]	50-60
Auto sense	Yes
Max. power draw [W]	300
Max. power draw @ 120V [Amps.]	5
Max. power draw @ 230V [Amps.]	2.6
Max. heat dissipation [W]	300
Max. heat dissipation [BTU]	1,024
Energy efficiency [average]	> 80%
CERTIFICATIONS & COMPLIANCE	
CE emissions	Yes
CE electrical safety	Yes
FCC emissions	Yes
ROHS compliant	Yes
PACKAGING CONTENT	
Appliance	Yes
Serial cable	Yes
Straight 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

All performance values are measured under optimized conditions and are to be considered as „up to" values and may vary depending on system configuration and infrastructure:

a   Firewall throughput measured with large packets (MTU1500) UDP packets, bi-directional across multiple ports.
b   VPN performance is based on 1415 Byte UDP packets, bidirectional using BreakingPoint traffic generator.
c   IPS throughput is measured using large packets (MTU1500) UDP traffic and across multiple ports.
d   NGFW throughput is measured with IPS, application control, and web filter enabled, based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports.
e   Threat protection throughput is measured with IPS, application control, web filter, and antivirus enabled, based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports.
f   Depending on feature set; for more detailed information on sizing, please use the free sizing application "Firewall Blueprint" for iOS - available for iPhones and iPads.
g   MTBF according to common usage. High load on SSD and extreme environmental conditions might reduce MTBF.

Errors and omissions excepted. Specifications subject to change without notice.

CloudGen Firewall F600.F10

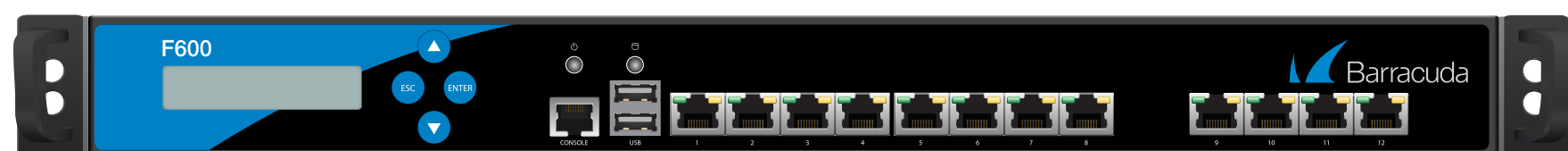| INTERFACES	
Copper ethernet NICs	8x1 GbE Copper
SFP fiber NICs	4x1 GbE
USB 2.0	2
Serial / console	1x RJ45
PERFORMANCE [AS OF FIRMWARE RELEASE 7.2.X]	
Firewall throughput [Gbps][a]	11
VPN throughput [AES-128, TINA std hash, Gbps][b]	3.1
VPN throughput [AES-256, TINA std hash, Gbps][b]	1.8
VPN throughput [AES-256, SHA256, Mbps][b]	960
VPN throughput [AES-256, MD5, Gbps][b]	1.8
VPN throughput [AES-256, GCM, Gbps][b]	1.0
IPS throughput [Gbps][c]	4.6
NGFW throughput [Gbps][d]	4.2
Threat protection throughput [Gbps][e]	4.0
Concurrent sessions	2,100,000
New sessions/s	115,000
Max. number of concurrent users [f]	1,000-4,000
MEMORY	
RAM [GB]	8
MASS STORAGE	
Type	SSD
Size ([GB] or better)	180
SSD MTBF [hours]	1.200.000
SIZE, WEIGHT, DIMENSIONS	
Weight appliance [lbs] / [kg]	17.6 / 8.0
Appliance size: width x depth x height [in]	16.9 x 17.7 x 1.7
Appliance size: width x depth x height [mm]	430 x 450 x 44
Weight carton with appliance [lbs] / [kg]	26.5 / 12
Carton size: width x depth x height [in]	25.6 x 23.2 x 7.9
Carton size: width x depth x height [mm]	650 x 590 x 200
Form factor	1U Rack Mount
HARDWARE	
Display	Yes
Cooling	Fan
ENVIRONMENTAL	
Noise emission [db/A]	N/A
Operating temperature [°F] / [°C]	+30 to +105 / 0 to +40
Storage temperature [°F] / [°C]	-5 to +140 / -20 to +60
Operating humidity (non-condensing)	5% to 95%

MTBF [SYSTEM]	
MTBF [yrs.] [g]	> 5
POWER & EFFICIENCY	
Power supply	Single
Power supply type	Internal
Power type [AC/DC]	AC
Input rating [Volts]	100-240
Input frequency [Hz]	50-60
Auto sense	Yes
Max. power draw [W]	300
Max. power draw @ 120V [Amps.]	5
Max. power draw @ 230V [Amps.]	2.6
Max. heat dissipation [W]	300
Max. heat dissipation [BTU]	1,024
Energy efficiency [average]	> 80%
CERTIFICATIONS & COMPLIANCE	
CE emissions	Yes
CE electrical safety	Yes
FCC emissions	Yes
ROHS compliant	Yes
PACKAGING CONTENT	
Appliance	Yes
Serial cable	Yes
Straight 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

All performance values are measured under optimized conditions and are to be considered as „up to" values and may vary depending on system configuration and infrastructure:

a   Firewall throughput measured with large packets (MTU1500) UDP packets, bi-directional across multiple ports.

b   VPN performance is based on 1415 Byte UDP packets, bidirectional using BreakingPoint traffic generator.

c   IPS throughput is measured using large packets (MTU1500) UDP traffic and across multiple ports.

d   NGFW throughput is measured with IPS, application control, and web filter enabled, based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports.

e   Threat protection throughput is measured with IPS, application control, web filter, and antivirus enabled, based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports.

f   Depending on feature set; for more detailed information on sizing, please use the free sizing application "Firewall Blueprint" for iOS - available for iPhones and iPads.

g   MTBF according to common usage. High load on SSD and extreme environmental conditions might reduce MTBF.

Errors and omissions excepted. Specifications subject to change without notice.

CloudGen Firewall F600.F20

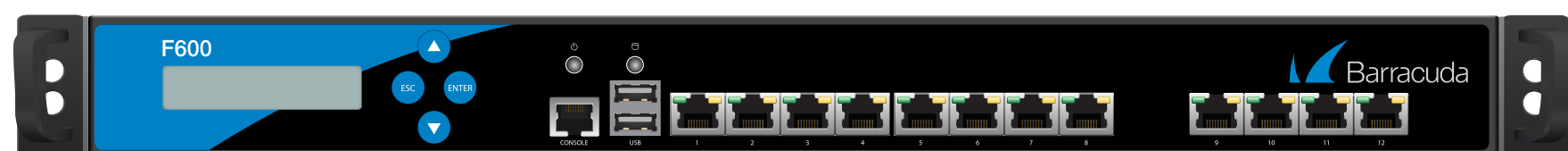| INTERFACES	
Model F20	8x1 GbE
SFP fiber NICs	4x1 GbE
USB 2.0	2
Serial / console	1x RJ45
PERFORMANCE [AS OF FIRMWARE RELEASE 7.2.X]	
Firewall throughput [Gbps][a]	11
VPN throughput [AES-128, TINA std hash, Gbps][b]	3.1
VPN throughput [AES-256, TINA std hash, Gbps][b]	1.8
VPN throughput [AES-256, SHA256, Mbps][b]	960
VPN throughput [AES-256, MD5, Gbps][b]	1.8
VPN throughput [AES-256, GCM, Gbps][b]	1.0
IPS throughput [Gbps][c]	4.6
NGFW throughput [Gbps][d]	4.2
Threat protection throughput [Gbps][e]	4.0
Concurrent sessions	2,100,000
New sessions/s	115,000
Max. number of concurrent users[f]	1,000-4,000
MEMORY	
RAM [GB]	8
MASS STORAGE	
Type	SSD
Size ([GB] or better)	180
SSD MTBF [hours]	1.200.000
SIZE, WEIGHT, DIMENSIONS	
Weight appliance [lbs] / [kg]	17.6 / 8.0
Appliance size: width x depth x height [in]	16.9 x 17.7 x 1.7
Appliance size: width x depth x height [mm]	430 x 450 x 44
Weight carton with appliance [lbs] / [kg]	26.5 / 12
Carton size: width x depth x height [in]	25.6 x 23.2 x 7.9
Carton size: width x depth x height [mm]	650 x 590 x 200
Form factor	1U Rack Mount
HARDWARE	
Display	Yes
Cooling	Fan
ENVIRONMENTAL	
Noise emission [db/A]	N/A
Operating temperature [°F] / [°C]	+30 to +105 / 0 to +40
Storage temperature [°F] / [°C]	-5 to +140 / -20 to +60
Operating humidity (non-condensing)	5% to 95%

MTBF [SYSTEM]	
MTBF [yrs.] [g]	> 5
POWER & EFFICIENCY	
Power supply	Dual hot swap
Power supply type	Internal
Power type [AC/DC]	AC
Input rating [Volts]	100-240
Input frequency [Hz]	50-60
Auto sense	Yes
Max. power draw [W]	300
Max. power draw @ 120V [Amps.]	5
Max. power draw @ 230V [Amps.]	2.6
Max. heat dissipation [W]	300
Max. heat dissipation [BTU]	1,024
Energy efficiency [average]	> 80%
CERTIFICATIONS & COMPLIANCE	
CE emissions	Yes
CE electrical safety	Yes
FCC emissions	Yes
ROHS compliant	Yes
PACKAGING CONTENT	
Appliance	Yes
Serial cable	Yes
Straight 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

All performance values are measured under optimized conditions and are to be considered as „up to" values and may vary depending on system configuration and infrastructure:

a   Firewall throughput measured with large packets (MTU1500) UDP packets, bi-directional across multiple ports.
b   VPN performance is based on 1415 Byte UDP packets, bidirectional using BreakingPoint traffic generator.
c   IPS throughput is measured using large packets (MTU1500) UDP traffic and across multiple ports.
d   NGFW throughput is measured with IPS, application control, and web filter enabled, based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports.
e   Threat protection throughput is measured with IPS, application control, web filter, and antivirus enabled, based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports.
f   Depending on feature set; for more detailed information on sizing, please use the free sizing application "Firewall Blueprint" for iOS - available for iPhones and iPads.
g   MTBF according to common usage. High load on SSD and extreme environmental conditions might reduce MTBF.

Errors and omissions excepted. Specifications subject to change without notice.

CloudGen Firewall F600.E20

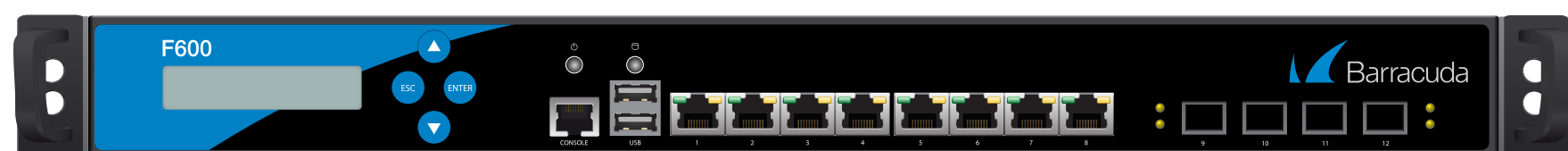| INTERFACES	
Copper ethernet NICs	8x1 GbE Copper
SFP+ fiber NICs	2x10 GbE
USB 2.0	2
Serial / console	1x RJ45
PERFORMANCE [AS OF FIRMWARE RELEASE 7.2.X]	
Firewall throughput [Gbps][a]	20
VPN throughput [AES-128, TINA std hash, Gbps][b]	5.6
VPN throughput [AES-256, TINA std hash, Gbps][b]	2.3
VPN throughput [AES-256, SHA256, Gbps][b]	2.0
VPN throughput [AES-256, MD5, Gbps][b]	3.8
VPN throughput [AES-256, GCM, Gbps][b]	2.0
IPS throughput [Gbps][c]	8.0
NGFW throughput [Gbps][d]	6.4
Threat protection throughput [Gbps][e]	5.8
Concurrent sessions	2,100,000
New sessions/s	115,000
Max. number of concurrent users [f]	1,000-4,000
MEMORY	
RAM [GB]	8
MASS STORAGE	
Type	SSD
Size ([GB] or better)	270
SSD MTBF [hours]	1.200.000
SIZE, WEIGHT, DIMENSIONS	
Weight appliance [lbs] / [kg]	17.6 / 8.0
Appliance size: width x depth x height [in]	16.9 x 17.7 x 1.7
Appliance size: width x depth x height [mm]	430 x 450 x 44
Weight carton with appliance [lbs] / [kg]	26.5 / 12
Carton size: width x depth x height [in]	25.6 x 23.2 x 7.9
Carton size: width x depth x height [mm]	650 x 590 x 200
Form factor	1U Rack Mount
HARDWARE	
Display	Yes
Cooling	Fan
ENVIRONMENTAL	
Noise emission [db/A]	N/A
Operating temperature [°F] / [°C]	+30 to +105 / 0 to +40
Storage temperature [°F] / [°C]	-5 to +140 / -20 to +60
Operating humidity (non-condensing)	5% to 95%

MTBF [SYSTEM]	
MTBF [yrs.] [g]	> 5
POWER & EFFICIENCY	
Power supply	Dual hot swap
Power supply type	Internal
Power type [AC/DC]	AC
Input rating [Volts]	100-240
Input frequency [Hz]	50-60
Auto sense	Yes
Max. power draw [W]	300
Max. power draw @ 120V [Amps.]	5
Max. power draw @ 230V [Amps.]	2.6
Max. heat dissipation [W]	300
Max. heat dissipation [BTU]	1,024
Energy efficiency [average]	> 80%
CERTIFICATIONS & COMPLIANCE	
CE emissions	Yes
CE electrical safety	Yes
FCC emissions	Yes
ROHS compliant	Yes
PACKAGING CONTENT	
Appliance	Yes
Serial cable	Yes
Straight 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

All performance values are measured under optimized conditions and are to be considered as „up to" values and may vary depending on system configuration and infrastructure:

a   Firewall throughput measured with large packets (MTU1500) UDP packets, bi-directional across multiple ports.
b   VPN performance is based on 1415 Byte UDP packets, bidirectional using BreakingPoint traffic generator.
c   IPS throughput is measured using large packets (MTU1500) UDP traffic and across multiple ports.
d   NGFW throughput is measured with IPS, application control, and web filter enabled, based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports.
e   Threat protection throughput is measured with IPS, application control, web filter, and antivirus enabled, based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports.
f   Depending on feature set; for more detailed information on sizing, please use the free sizing application "Firewall Blueprint" for iOS - available for iPhones and iPads.
g   MTBF according to common usage. High load on SSD and extreme environmental conditions might reduce MTBF.

Errors and omissions excepted. Specifications subject to change without notice.

CloudGen Firewall F800.CCC

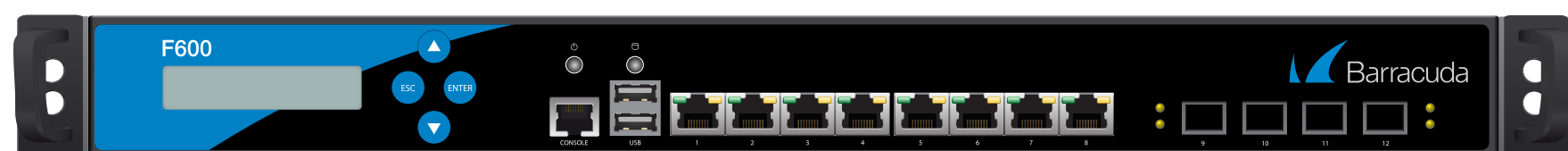| INTERFACES *	
Copper ethernet NICs	24x1 GbE
USB 2.0	2
Serial / console	1x RJ45
PERFORMANCE [AS OF FIRMWARE RELEASE 7.2.X]	
Firewall throughput [Gbps][a]	30
VPN throughput [AES-128, TINA std hash, Gbps][b]	7.5
VPN throughput [AES-256, TINA std hash, Gbps][b]	6.7
VPN throughput [AES-256, SHA256, Gbps][b]	5.3
VPN throughput [AES-256, MD5, Gbps][b]	6.5
VPN throughput [AES-256, GCM, Gbps][b]	6.5
IPS throughput [Gbps][c]	8.3
NGFW throughput [Gbps][d]	7.7
Threat protection throughput [Gbps][e]	7.6
Concurrent sessions	2,500,000
New sessions/s	180,000
Max. number of concurrent users[f]	4,000-6,000
MEMORY	
RAM [GB]	24
MASS STORAGE	
Type	SSD
Size ([GB] or better)	430
SSD MTBF [hours]	1.200.000
SIZE, WEIGHT, DIMENSIONS	
Weight appliance [lbs] / [kg]	26.0 / 12.0
Appliance size: width x depth x height [in]	17.2 x 22.4 x 1.7
Appliance size: width x depth x height [mm]	440 x 570 x 44
Weight carton with appliance [lbs] / [kg]	44 / 20
Carton size: width x depth x height [in]	23 x 30.5 x 9
Carton size: width x depth x height [mm]	585 x 775 x 229
Form factor	1U Rack Mount
HARDWARE	
Display	Yes
Cooling	Fan
ENVIRONMENTAL	
Noise emission [db/A]	< 75
Operating temperature [°F] / [°C]	+32 to +104 / 0 to +40
Storage temperature [°F] / [°C]	-4 to +167 / -20 to +75
Operating humidity (non-condensing)	10% to 85%

MTBF [SYSTEM]	
MTBF [yrs.]	> 4 [7]
POWER & EFFICIENCY	
Power supply	Dual hot swap
Power supply type	Internal
Power type [AC/DC]	AC
Input rating [Volts]	100-240
Input frequency [Hz]	50-60
Auto sense	Yes
Max. power draw [W]	500
Max. power draw @ 120V [Amps.]	8
Max. power draw @ 230V [Amps.]	4
Max. heat dissipation [W]	~ 400
Max. heat dissipation [BTU]	~ 1,366
Energy efficiency [average]	88%
CERTIFICATIONS & COMPLIANCE	
CE emissions	Yes
CE electrical safety	Yes
FCC emissions	Yes
PACKAGING CONTENT	
Appliance	Yes
Serial cable	Yes
Straight 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

* Available sub models can be re-configured in the field. However, the re-configuration of network modules can be only applied to meet with available sub models. E.g., you may re-configure from model CCC to CCE or CCF but not to a model CFE as such a sub model is not available for F800. Network modules may be replaced in case of failure. Spare parts for redundant power supply can be ordered separately.

All performance values are measured under optimized conditions and are to be considered as „up to" values and may vary depending on system configuration and infrastructure:

a   Firewall throughput measured with large packets (MTU1500) UDP packets, bi-directional across multiple ports, measured with 10Gbps ports.
b   VPN performance is based on 1415 Byte UDP packets, bidirectional using BreakingPoint traffic generator, measured with 10Gbps ports.
c   IPS throughput is measured using large packets (MTU1500) UDP traffic and across multiple ports.
d   NGFW throughput is measured with IPS, application control, and web filter enabled, based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports, measured with 10Gbps ports.
e   Threat protection throughput is measured with IPS, application control, web filter, and antivirus enabled, based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports.
f   Depending on feature set; for more detailed information on sizing, please use the free sizing application "Firewall Blueprint" for iOS - available for iPhones and iPads.
g   MTBF according to common usage. High load on SSD and extreme environmental conditions might reduce MTBF.

Errors and omissions excepted. Specifications subject to change without notice.

CloudGen Firewall F800.CCF

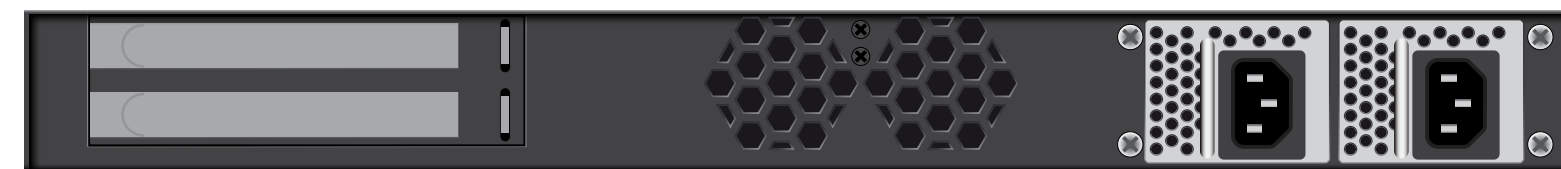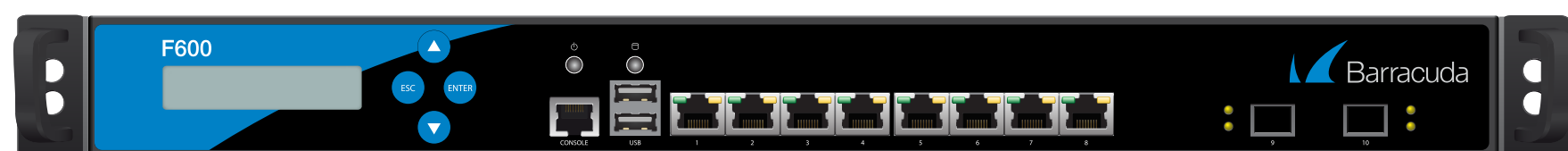| INTERFACES *	
Copper ethernet NICs	16x1 GbE
SFP fiber NICs	8x1 GbE
USB 2.0	2
Serial / console	1x RJ45
PERFORMANCE [AS OF FIRMWARE RELEASE 7.2.X]	
Firewall throughput [Gbps][a]	30
VPN throughput [AES-128, TINA std hash, Gbps][b]	7.5
VPN throughput [AES-256, TINA std hash, Gbps][b]	6.7
VPN throughput [AES-256, SHA256, Gbps][b]	5.3
VPN throughput [AES-256, MD5, Gbps][b]	6.5
VPN throughput [AES-256, GCM, Gbps][b]	6.5
IPS throughput [Gbps][c]	8.3
NGFW throughput [Gbps][d]	7.7
Threat protection throughput [Gbps][e]	7.6
Concurrent sessions	2,500,000
New sessions/s	180,000
Max. number of concurrent users [f]	4,000-6,000
MEMORY	
RAM [GB]	24
MASS STORAGE	
Type	SSD
Size ([GB] or better)	430
SSD MTBF [hours]	1.200.000
SIZE, WEIGHT, DIMENSIONS	
Weight appliance [lbs] / [kg]	26.0 / 12.0
Appliance size: width x depth x height [in]	17.2 x 22.4 x 1.7
Appliance size: width x depth x height [mm]	440 x 570 x 44
Weight carton with appliance [lbs] / [kg]	44 / 20
Carton size: width x depth x height [in]	23 x 30.5 x 9
Carton size: width x depth x height [mm]	585 x 775 x 229
Form factor	1U Rack Mount
HARDWARE	
Display	Yes
Cooling	Fan
ENVIRONMENTAL	
Noise emission [db/A]	< 75
Operating temperature [°F] / [°C]	+32 to +104 / 0 to +40
Storage temperature [°F] / [°C]	-4 to +167 / -20 to +75
Operating humidity (non-condensing)	10% to 85%

MTBF [SYSTEM]	
MTBF [yrs.] [g]	> 4
POWER & EFFICIENCY	
Power supply	Dual hot swap
Power supply type	Internal
Power type [AC/DC]	AC
Input rating [Volts]	100-240
Input frequency [Hz]	50-60
Auto sense	Yes
Max. power draw [W]	500
Max. power draw @ 120V [Amps.]	8
Max. power draw @ 230V [Amps.]	4
Max. heat dissipation [W]	~ 400
Max. heat dissipation [BTU]	~ 1,366
Energy efficiency [average]	88%
CERTIFICATIONS & COMPLIANCE	
CE emissions	Yes
CE electrical safety	Yes
FCC emissions	Yes
PACKAGING CONTENT	
Appliance	Yes
Serial cable	Yes
Straight 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

* Available sub models can be re-configured in the field. However, the re-configuration of network modules can be only applied to meet with available sub models. E.g., you may re-configure from model CCC to CCE or CCF but not to a model CFE as such a sub model is not available for F800. Network modules may be replaced in case of failure. Spare parts for redundant power supply can be ordered separately.

All performance values are measured under optimized conditions and are to be considered as „up to" values and may vary depending on system configuration and infrastructure:

a   Firewall throughput measured with large packets (MTU1500) UDP packets, bi-directional across multiple ports, measured with 10Gbps ports.
b   VPN performance is based on 1415 Byte UDP packets, bidirectional using BreakingPoint traffic generator, measured with 10Gbps ports.
c   IPS throughput is measured using large packets (MTU1500) UDP traffic and across multiple ports.
d   NGFW throughput is measured with IPS, application control, and web filter enabled, based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports, measured with 10Gbps ports.
e   Threat protection throughput is measured with IPS, application control, web filter, and antivirus enabled, based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports.
f   Depending on feature set; for more detailed information on sizing, please use the free sizing application "Firewall Blueprint" for iOS - available for iPhones and iPads.

Errors and omissions excepted. Specifications subject to change without notice.

CloudGen Firewall F800.CCE
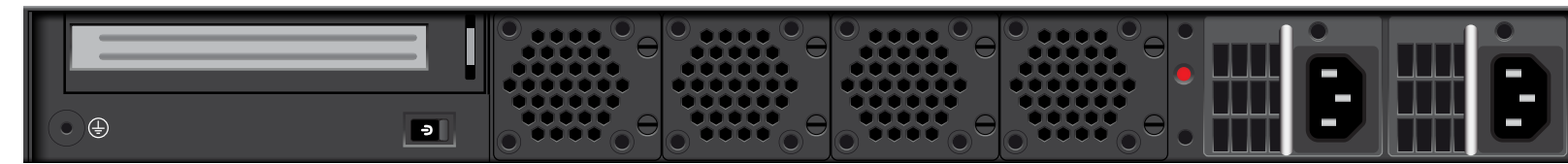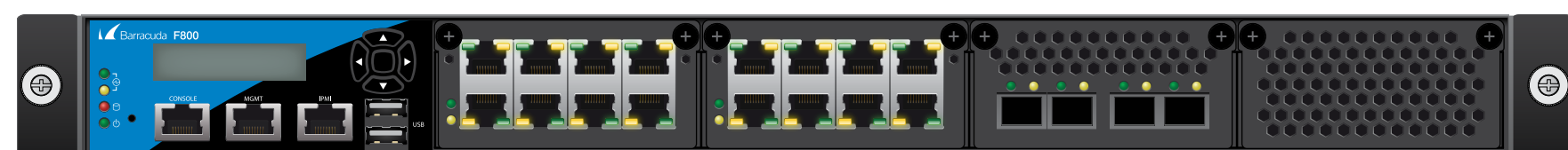
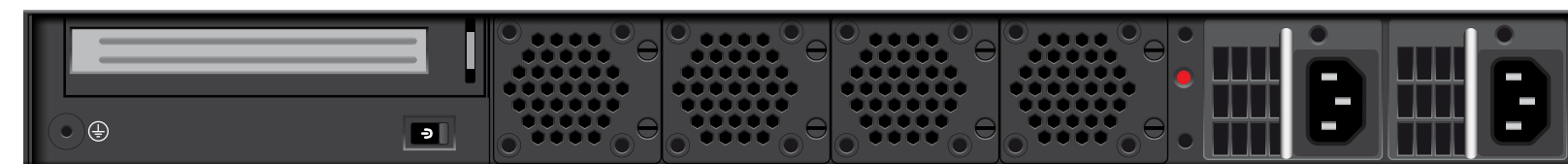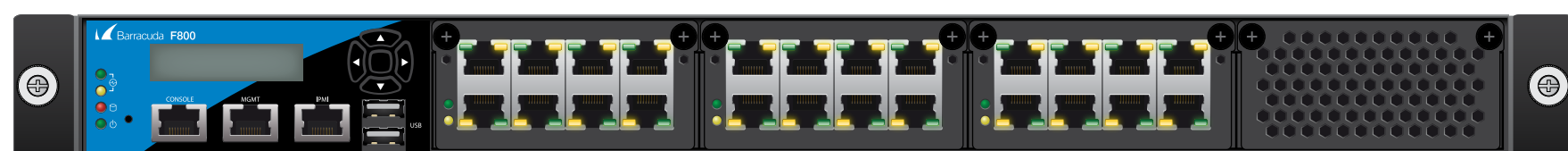| INTERFACES *	
Copper ethernet NICs	16x1 GbE Copper
SFP+ fiber NICs	4x10 GbE SFP+
USB 2.0	2
Serial / console	1x RJ45
PERFORMANCE [AS OF FIRMWARE RELEASE 7.2.X]	
Firewall throughput [Gbps][a]	30
VPN throughput [AES-128, TINA std hash, Gbps][b]	7.5
VPN throughput [AES-256, TINA std hash, Gbps][b]	6.7
VPN throughput [AES-256, SHA256, Gbps][b]	5.3
VPN throughput [AES-256, MD5, Gbps][b]	6.5
VPN throughput [AES-256, GCM, Gbps][b]	6.5
IPS throughput [Gbps][c]	8.3
NGFW throughput [Gbps][d]	7.7
Threat protection throughput [Gbps][e]	7.6
Concurrent sessions	2,500,000
New sessions/s	180,000
Max. number of concurrent users [f]	4,000-6,000
MEMORY	
RAM [GB]	24
MASS STORAGE	
Type	SSD
Size ([GB] or better)	430
SSD MTBF [hours]	1.200.000
SIZE, WEIGHT, DIMENSIONS	
Weight appliance [lbs] / [kg]	26.0 / 12.0
Appliance size: width x depth x height [in]	17.2 x 22.4 x 1.7
Appliance size: width x depth x height [mm]	440 x 570 x 44
Weight carton with appliance [lbs] / [kg]	44 / 20
Carton size: width x depth x height [in]	23 x 30.5 x 9
Carton size: width x depth x height [mm]	585 x 775 x 229
Form factor	1U Rack Mount
HARDWARE	
Display	Yes
Cooling	Fan
ENVIRONMENTAL	
Noise emission [db/A]	< 75
Operating temperature [°F] / [°C]	+32 to +104 / 0 to +40
Storage temperature [°F] / [°C]	-4 to +167 / -20 to +75
Operating humidity (non-condensing)	10% to 85%

MTBF [SYSTEM]	
MTBF [yrs.] [g]	> 4
POWER & EFFICIENCY	
Power supply	Dual hot swap
Power supply type	Internal
Power type [AC/DC]	AC
Input rating [Volts]	100-240
Input frequency [Hz]	50-60
Auto sense	Yes
Max. power draw [W]	500
Max. power draw @ 120V [Amps.]	8
Max. power draw @ 230V [Amps.]	4
Max. heat dissipation [W]	~ 400
Max. heat dissipation [BTU]	~ 1,366
Energy efficiency [average]	88%
CERTIFICATIONS & COMPLIANCE	
CE emissions	Yes
CE electrical safety	Yes
FCC emissions	Yes
PACKAGING CONTENT	
Appliance	Yes
Serial cable	Yes
Straight 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

* Available sub models can be re-configured in the field. However, the re-configuration of network modules can be only applied to meet with available sub models. E.g., you may re-configure from model CCC to CCE or CCF but not to a model CFE as such a sub model is not available for F800. Network modules may be replaced in case of failure. Spare parts for redundant power supply can be ordered separately.

All performance values are measured under optimized conditions and are to be considered as „up to" values and may vary depending on system configuration and infrastructure:

a   Firewall throughput measured with large packets (MTU1500) UDP packets, bi-directional across multiple ports, measured with 10Gbps ports.
b   VPN performance is based on 1415 Byte UDP packets, bidirectional using BreakingPoint traffic generator, measured with 10Gbps ports.
c   IPS throughput is measured using large packets (MTU1500) UDP traffic and across multiple ports.
d   NGFW throughput is measured with IPS, application control, and web filter enabled, based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports, measured with 10Gbps ports.
e   Threat protection throughput is measured with IPS, application control, web filter, and antivirus enabled, based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports.
f   Depending on feature set; for more detailed information on sizing, please use the free sizing application "Firewall Blueprint" for iOS - available for iPhones and iPads.
g   MTBF according to common usage. High load on SSD and extreme environmental conditions might reduce MTBF.

Errors and omissions excepted. Specifications subject to change without notice.

CloudGen Firewall F900.CCC

INTERFACES *	
Copper ethernet NICs	32x1 GbE
USB 2.0	2
IPMI	1x RJ45
Serial / console	1x RJ45
Management	1x RJ45
PERFORMANCE [AS OF FIRMWARE RELEASE 7.2.X]	
Firewall throughput [Gbps][a]	35
VPN throughput [AES-128, TINA std hash, Gbps][b]	9.3
VPN throughput [AES-256, TINA std hash, Gbps][b]	7.7
VPN throughput [AES-256, SHA256, Gbps][b]	4.5
VPN throughput [AES-256, MD5, Gbps][b]	7.5
VPN throughput [AES-256, GCM, Gbps][b]	4.5
IPS throughput [Gbps][c]	11.3
NGFW throughput [Gbps][d]	8.0
Threat protection throughput [Gbps][e]	8.0
Concurrent sessions	4,000,000
New sessions/s	190,000
Max. number of concurrent users [f]	6,000-9,000
MEMORY	
RAM [GB]	32
MASS STORAGE	
Type	SSD
Size Size ([GB] or better; system / logs, cache)	430
SSD MTBF [hours]	1.200.000
SIZE, WEIGHT, DIMENSIONS	
Weight appliance [lbs] / [kg]	26.0 / 12.0
Appliance size: width x depth x height [in]	17.2 x 22.4 x 1.7
Appliance size: width x depth x height [mm]	440 x 570 x 44
Weight carton with appliance [lbs] / [kg]	44 / 20
Carton size: width x depth x height [in]	23 x 30.5 x 9
Carton size: width x depth x height [mm]	585 x 775 x 229
Form factor	1U Rack Mount
HARDWARE	
Display	Yes
Cooling	Fan
ENVIRONMENTAL	
Noise emission [db/A]	< 75
Operating temperature [°F] / [°C]	+32 to +104 / 0 to +40
Storage temperature [°F] / [°C]	-4 to +167 / -20 to +75
Operating humidity (non-condensing)	10% to 85%

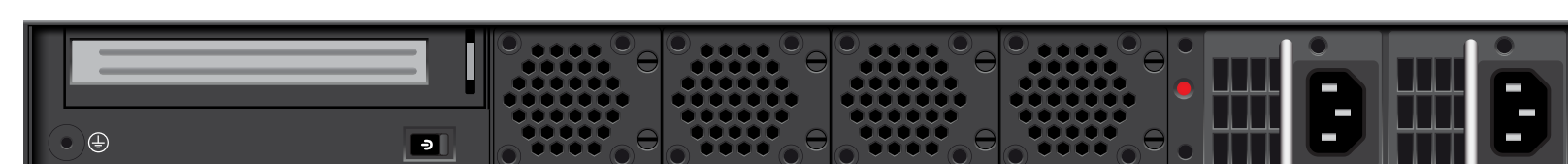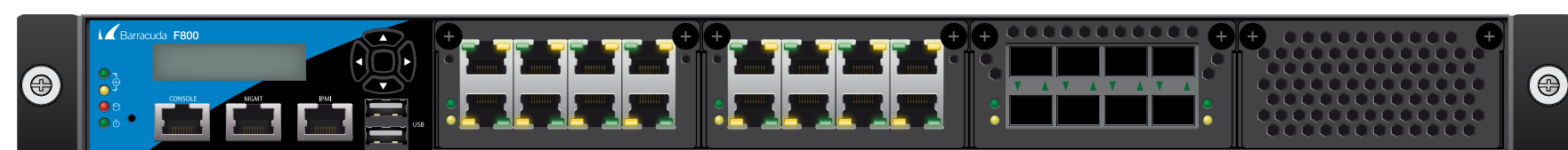| MTBF [SYSTEM]	
MTBF [yrs.] [g]	> 4
POWER & EFFICIENCY	
Power supply	Dual hot swap
Power supply type	Internal
Power type [AC/DC]	AC
Input rating [Volts]	100-240
Input frequency [Hz]	50-60
Auto sense	Yes
Max. power draw [W]	500
Max. power draw @ 120V [Amps.]	8
Max. power draw @ 230V [Amps.]	4
Max. heat dissipation [W]	~ 400
Max. heat dissipation [BTU]	~ 1,366
Energy efficiency [average]	88%
CERTIFICATIONS & COMPLIANCE	
CE emissions	Yes
CE electrical safety	Yes
FCC emissions	Yes
PACKAGING CONTENT	
Appliance	Yes
Serial cable	Yes
Straight 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

* Available sub models can be re-configured in the field. However, the re-configuration of network modules can be only applied to meet with available sub models. E.g., you may re-configure from model CCC to CCE or CFE or QC but not to a model CCF as such a sub model is not available for F900. Network modules may be replaced in case of failure. Spare parts for redundant power supply can be ordered separately.

All performance values are measured under optimized conditions and are to be considered as „up to" values and may vary depending on system configuration and infrastructure:

a   Firewall throughput measured with large packets (MTU1500) UDP packets, bi-directional across multiple ports.
b   VPN performance is based on 1415 Byte UDP packets, bidirectional using BreakingPoint traffic generator.
c   IPS throughput is measured using large packets (MTU1500) UDP traffic and across multiple ports.
d   NGFW throughput is measured with IPS, application control, and web filter enabled, based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports.
e   Threat protection throughput is measured with IPS, application control, web filter, and antivirus enabled, based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports.
f   Depending on feature set; for more detailed information on sizing, please use the free sizing application "Firewall Blueprint" for iOS - available for iPhones and iPads.
g   MTBF according to common usage. High load on SSD and extreme environmental conditions might reduce MTBF.

Errors and omissions excepted. Specifications subject to change without notice.

CloudGen Firewall F900.CCE

INTERFACES *	
Copper ethernet NICs	16x1 GbE
SFP+ fiber NICs	8x10 GbE
USB 2.0	2
IPMI	1x RJ45
Serial / console	1x RJ45
Management	1x RJ45
PERFORMANCE [AS OF FIRMWARE RELEASE 7.2.X]	
Firewall throughput [Gbps][a]	35
VPN throughput [AES-128, TINA std hash, Gbps][b]	9.3
VPN throughput [AES-256, TINA std hash, Gbps][b]	7.7
VPN throughput [AES-256, SHA256, Gbps][b]	4.5
VPN throughput [AES-256, MD5, Gbps][b]	7.5
VPN throughput [AES-256, GCM, Gbps][b]	4.5
IPS throughput [Gbps][c]	11.3
NGFW throughput [Gbps][d]	8.0
Threat protection throughput [Gbps][e]	8.0
Concurrent sessions	4,000,000
New sessions/s	190,000
Max. number of concurrent users[f]	6,000-9,000
MEMORY	
RAM [GB]	32
MASS STORAGE	
Type	SSD
Size Size ([GB] or better; system / logs, cache)	430
SSD MTBF [hours]	1.200.000
SIZE, WEIGHT, DIMENSIONS	
Weight appliance [lbs] / [kg]	26.0 / 12.0
Appliance size: width x depth x height [in]	17.2 x 22.4 x 1.7
Appliance size: width x depth x height [mm]	440 x 570 x 44
Weight carton with appliance [lbs] / [kg]	44 / 20
Carton size: width x depth x height [in]	23 x 30.5 x 9
Carton size: width x depth x height [mm]	585 x 775 x 229
Form factor	1U Rack Mount
HARDWARE	
Display	Yes
Cooling	Fan
ENVIRONMENTAL	
Noise emission [db/A]	< 75
Operating temperature [°F] / [°C]	+32 to +104 / 0 to +40
Storage temperature [°F] / [°C]	-4 to +167 / -20 to +75
Operating humidity (non-condensing)	10% to 85%

| MTBF [SYSTEM]	
MTBF [yrs.] [g]	> 4
POWER & EFFICIENCY	
Power supply	Dual hot swap
Power supply type	Internal
Power type [AC/DC]	AC
Input rating [Volts]	100-240
Input frequency [Hz]	50-60
Auto sense	Yes
Max. power draw [W]	500
Max. power draw @ 120V [Amps.]	8
Max. power draw @ 230V [Amps.]	4
Max. heat dissipation [W]	~ 400
Max. heat dissipation [BTU]	~ 1,366
Energy efficiency [average]	88%
CERTIFICATIONS & COMPLIANCE	
CE emissions	Yes
CE electrical safety	Yes
FCC emissions	Yes
PACKAGING CONTENT	
Appliance	Yes
Serial cable	Yes
Straight 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

* Available sub models can be re-configured in the field. However, the re-configuration of network modules can be only applied to meet with available sub models. E.g., you may re-configure from model CCC to CCE or CFEQ but not to a model CCF as such a sub model is not available for F900. Network modules may be replaced in case of failure. Spare parts for redundant power supply can be ordered separately.

All performance values are measured under optimized conditions and are to be considered as „up to" values and may vary depending on system configuration and infrastructure:

a   Firewall throughput measured with large packets (MTU1500) UDP packets, bi-directional across multiple ports.
b   VPN performance is based on 1415 Byte UDP packets, bidirectional using BreakingPoint traffic generator.
c   IPS throughput is measured using large packets (MTU1500) UDP traffic and across multiple ports.
d   NGFW throughput is measured with IPS, application control, and web filter enabled, based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports.
e   Threat protection throughput is measured with IPS, application control, web filter, and antivirus enabled, based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports.
f   Depending on feature set; for more detailed information on sizing, please use the free sizing application "Firewall Blueprint" for iOS - available for iPhones and iPads.
g   MTBF according to common usage. High load on SSD and extreme environmental conditions might reduce MTBF.

Errors and omissions excepted. Specifications subject to change without notice.

CloudGen Firewall F900.CFE

INTERFACES *	
Copper ethernet NICs	8x1 GbE
SFP fiber NICs	8x1 GbE
SFP+ fiber NICs	8x10 GbE
USB 2.0	2
IPMI	1x RJ45
Serial / console	1x RJ45
Management	1x RJ45
PERFORMANCE [AS OF FIRMWARE RELEASE 7.2.X]	
Firewall throughput [Gbps][a]	35
VPN throughput [AES-128, TINA std hash, Gbps][b]	9.3
VPN throughput [AES-256, TINA std hash, Gbps][b]	7.7
VPN throughput [AES-256, SHA256, Gbps][b]	4.5
VPN throughput [AES-256, MD5, Gbps][b]	7.5
VPN throughput [AES-256, GCM, Gbps][b]	7.5
IPS throughput [Gbps][c]	11.3
NGFW throughput [Gbps][d]	8.0
Threat protection throughput [Gbps][e]	8.0
Concurrent sessions	4,000,000
New sessions/s	190,000
Max. number of concurrent users [f]	6,000-9,000
MEMORY	
RAM [GB]	32
MASS STORAGE	
Type	SSD
Size Size ([GB] or better; system / logs, cache)	430
SSD MTBF [hours]	1.200.000
SIZE, WEIGHT, DIMENSIONS	
Weight appliance [lbs] / [kg]	26.0 / 12.0
Appliance size: width x depth x height [in]	17.2 x 22.4 x 1.7
Appliance size: width x depth x height [mm]	440 x 570 x 44
Weight carton with appliance [lbs] / [kg]	44 / 20
Carton size: width x depth x height [in]	23 x 30.5 x 9
Carton size: width x depth x height [mm]	585 x 775 x 229
Form factor	1U Rack Mount
HARDWARE	
Display	Yes
Cooling	Fan
ENVIRONMENTAL	
Noise emission [db/A]	< 75
Operating temperature [°F] / [°C]	+32 to +104 / 0 to +40
Storage temperature [°F] / [°C]	-4 to +167 / -20 to +75
Operating humidity (non-condensing)	10% to 85%

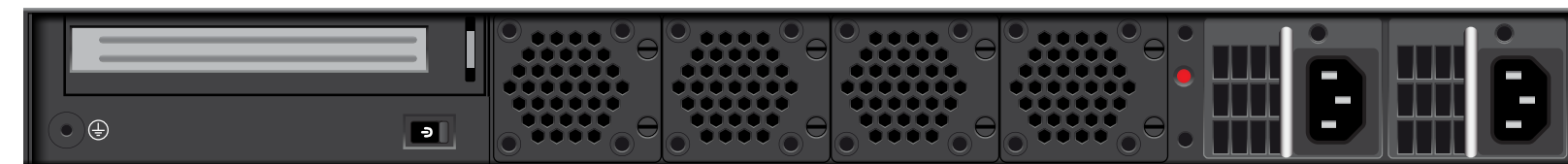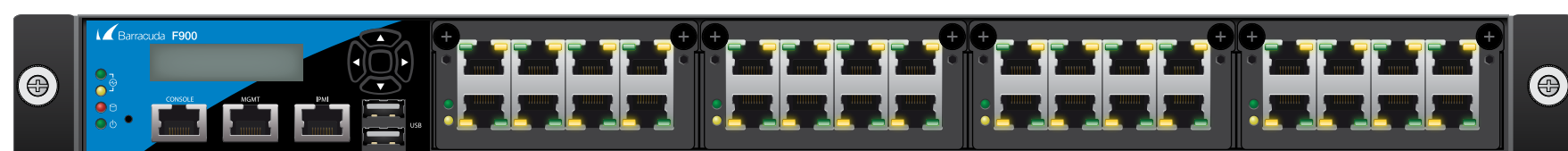| MTBF [SYSTEM]	
MTBF [yrs.] [g]	> 4
POWER & EFFICIENCY	
Power supply	Dual hot swap
Power supply type	Internal
Power type [AC/DC]	AC
Input rating [Volts]	100-240
Input frequency [Hz]	50-60
Auto sense	Yes
Max. power draw [W]	500
Max. power draw @ 120V [Amps.]	8
Max. power draw @ 230V [Amps.]	4
Max. heat dissipation [W]	~ 400
Max. heat dissipation [BTU]	~ 1,366
Energy efficiency [average]	88%
CERTIFICATIONS & COMPLIANCE	
CE emissions	Yes
CE electrical safety	Yes
FCC emissions	Yes
PACKAGING CONTENT	
Appliance	Yes
Serial cable	Yes
Straight 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

* Available sub models can be re-configured in the field. However, the re-configuration of network modules can be only applied to meet with available sub models. E.g., you may re-configure from model CCC to CCE or CFEQ but not to a model CCF as such a sub model is not available for F900. Network modules may be replaced in case of failure. Spare parts for redundant power supply can be ordered separately.

All performance values are measured under optimized conditions and are to be considered as „up to" values and may vary depending on system configuration and infrastructure:

a   Firewall throughput measured with large packets (MTU1500) UDP packets, bi-directional across multiple ports.

b   VPN performance is based on 1415 Byte UDP packets, bidirectional using BreakingPoint traffic generator.

c   IPS throughput is measured using large packets (MTU1500) UDP traffic and across multiple ports.

d   NGFW throughput is measured with IPS, application control, and web filter enabled, based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports.

e   Threat protection throughput is measured with IPS, application control, web filter, and antivirus enabled, based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports.

f   Depending on feature set; for more detailed information on sizing, please use the free sizing application "Firewall Blueprint" for iOS - available for iPhones and iPads.

g   MTBF according to common usage. High load on SSD and extreme environmental conditions might reduce MTBF.

Errors and omissions excepted. Specifications subject to change without notice.

CloudGen Firewall F900.CFEQ

INTERFACES *	
Copper ethernet NICs	8x1 GbE
SFP fiber NICs	8x1 GbE
SFP+ fiber NICs	4x10 GbE
QSFP+ fiber NICs	2x40 GbE
USB 2.0	2
IPMI	1x RJ45
Serial / console	1x RJ45
Management	1x RJ45
PERFORMANCE [AS OF FIRMWARE RELEASE 7.2.X]	
Firewall throughput [Gbps][a]	45
VPN throughput [AES-128, TINA std hash, Gbps][b]	13.5
VPN throughput [AES-256, TINA std hash, Gbps][b]	12
VPN throughput [AES-256, SHA256, Gbps][b]	4.5
VPN throughput [AES-256, MD5, Gbps][b]	10
VPN throughput [AES-256, GCM, Gbps][b]	4.5
IPS throughput [Gbps][c]	13
NGFW throughput [Gbps][d]	12
Threat protection throughput [Gbps][e]	11.5
Concurrent sessions	4,000,000
New sessions/s	190,000
Max. number of concurrent users[f]	6,000-9,000
MEMORY	
RAM [GB]	32
MASS STORAGE	
Type	SSD
Size [GB] (system / logs, cache)	430
SSD MTBF [hours]	1.200.000
SIZE, WEIGHT, DIMENSIONS	
Weight appliance [lbs] / [kg]	26.0 / 12.0
Appliance size: width x depth x height [in]	17.2 x 22.4 x 1.7
Appliance size: width x depth x height [mm]	440 x 570 x 44
Weight carton with appliance [lbs] / [kg]	44 / 20
Carton size: width x depth x height [in]	23 x 30.5 x 9
Carton size: width x depth x height [mm]	585 x 775 x 229
Form factor	1U Rack Mount
HARDWARE	
Display	Yes
Cooling	Fan
ENVIRONMENTAL	
Noise emission [db/A]	< 75
Operating temperature [°F] / [°C]	+32 to +104 / 0 to +40
Storage temperature [°F] / [°C]	-4 to +167 / -20 to +75
Operating humidity (non-condensing)	10% to 85%

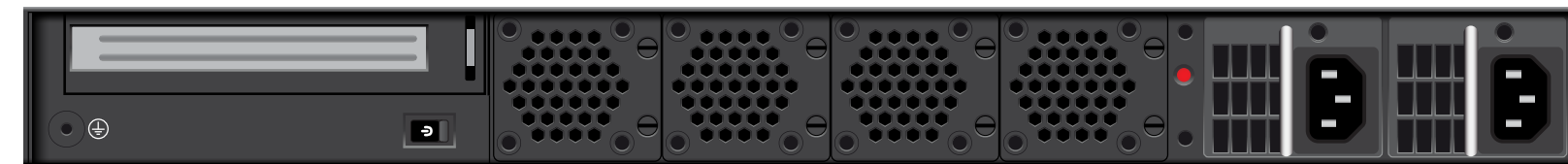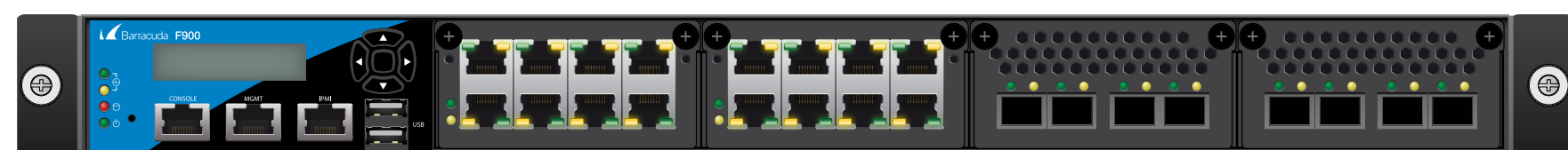| MTBF [SYSTEM]	
MTBF [yrs.] [g]	> 4
POWER & EFFICIENCY	
Power supply	Dual hot swap
Power supply type	Internal
Power type [AC/DC]	AC
Input rating [Volts]	100-240
Input frequency [Hz]	50-60
Auto sense	Yes
Max. power draw [W]	500
Max. power draw @ 120V [Amps.]	8
Max. power draw @ 230V [Amps.]	4
Max. heat dissipation [W]	~ 400
Max. heat dissipation [BTU]	~ 1,366
Energy efficiency [average]	88%
CERTIFICATIONS & COMPLIANCE	
CE emissions	Yes
CE electrical safety	Yes
FCC emissions	Yes
PACKAGING CONTENT	
Appliance	Yes
Serial cable	Yes
Straight 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

* Available sub models can be re-configured in the field. However, the re-configuration of network modules can be only applied to meet with available sub models. E.g., you may re-configure from model CCC to CCE or CFEQ but not to a model CCF as such a sub model is not available for F900. Network modules may be replaced in case of failure. Spare parts for redundant power supply can be ordered separately.

All performance values are measured under optimized conditions and are to be considered as „up to" values and may vary depending on system configuration and infrastructure:

a   Firewall throughput measured with large packets (MTU1500) UDP packets, bi-directional across multiple ports.
b   VPN performance is based on 1415 Byte UDP packets, bidirectional using BreakingPoint traffic generator.
c   IPS throughput is measured using large packets (MTU1500) UDP traffic and across multiple ports.
d   NGFW throughput is measured with IPS, application control, and web filter enabled, based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports.
e   Threat protection throughput is measured with IPS, application control, web filter, and antivirus enabled, based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports.
f   Depending on feature set; for more detailed information on sizing, please use the free sizing application "Firewall Blueprint" for iOS - available for iPhones and iPads.
g   MTBF according to common usage. High load on SSD and extreme environmental conditions might reduce MTBF.

Errors and omissions excepted. Specifications subject to change without notice.

CloudGen Firewall F1000.CE0

INTERFACES*	
Copper ethernet NICs	16x1 GbE
SFP+ fiber NICs	4x10 GbE
USB 2.0	2
IPMI	1x RJ45
Serial / console	1x RJ45
PERFORMANCE [AS OF FIRMWARE RELEASE 7.2.X]	
Firewall throughput [Gbps][a]	40
VPN throughput [AES-128, TINA std hash, Gbps][b]	10
VPN throughput [AES-256, TINA std hash, Gbps][b]	8.6
VPN throughput [AES-256, SHA256, Gbps][b]	8.3
VPN throughput [AES-256, MD5, Gbps][b]	8.6
VPN throughput [AES-256, GCM, Gbps][b]	8.3
IPS throughput [Gbps][c]	13
NGFW throughput [Gbps][d]	10.2
Threat protection throughput [Gbps][e]	4.0
Concurrent sessions	10,000,000
New sessions/s	250,000
Max. number of concurrent users [f]	7,000-15,000
MEMORY	
RAM [GB]	128
MASS STORAGE	
Type	SSD
Size ([GB] or better)	550
SSD MTBF [hours]	1.200.000
SIZE, WEIGHT, DIMENSIONS	
Weight appliance [lbs] / [kg]	44.1 / 20.0
Appliance size: width x depth x height [in]	17.0 x 24.6 x 3.5
Appliance size: width x depth x height [mm]	432 x 626 x 88
Weight carton with appliance [lbs] / [kg]	57.3 / 26
Carton size: width x depth x height [in]	23.2 x 34.3 x 11.4
Carton size: width x depth x height [mm]	590 x 870 x 290
Form factor	2U Rack Mount
HARDWARE	
Display	Yes
Cooling	Fan, hot swap
ENVIRONMENTAL	
Noise emission [db/A]	N/A
Operating temperature [°F] / [°C]	+30 to +105 / 0 to +40
Storage temperature [°F] / [°C]	-5 to +170 / -20 to +75
Operating humidity (non-condensing)	10% to 85%

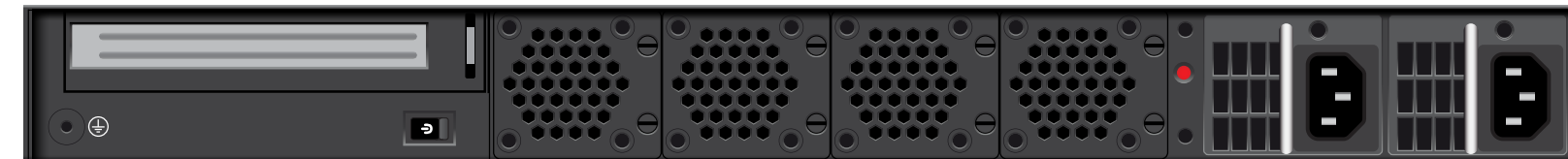| MTBF [SYSTEM]	
MTBF [yrs.] [g]	> 4
POWER & EFFICIENCY	
Power supply	Dual hot swap
Power supply type	Internal
Power type [AC/DC]	AC
Input rating [Volts]	100-240
Input frequency [Hz]	50-60
Auto sense	Yes
Max. power draw [W]	810
Max. power draw @ 120V [Amps.]	6.8
Max. power draw @ 230V [Amps.]	3.5
Max. heat dissipation [W]	680
Max. heat dissipation [BTU]	2,322
Energy efficiency [average]	> 86%
CERTIFICATIONS & COMPLIANCE	
CE emissions	Yes
CE electrical safety	Yes
FCC emissions	Yes
ROHS compliant	Yes
PACKAGING CONTENT	
Appliance	Yes
Serial cable	Yes
Straight 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

* Available sub models can be re-configured in the field. However, the re-configuration of network modules can be only applied to meet with available sub models. E.g., you may re-configure from model CE0 to CE2 or CFE but not to a model CF2 as such a sub model is not available for F1000. Network modules may be replaced in case of failure. Spare parts for redundant power supply can be ordered separately.

All performance values are measured under optimized conditions and are to be considered as „up to" values and may vary depending on system configuration and infrastructure:

a   Firewall throughput measured with large packets (MTU1500) UDP packets, bi-directional across multiple ports.

b   VPN performance is based on 1415 Byte UDP packets, bidirectional using BreakingPoint traffic generator.

c   IPS throughput is measured using large packets (MTU1500) UDP traffic and across multiple ports.

d   NGFW throughput is measured with IPS, application control, and web filter enabled, based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports.

e   Threat protection throughput is measured with IPS, application control, web filter, and antivirus enabled, based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports.

f   Depending on feature set; for more detailed information on sizing, please use the free sizing application "Firewall Blueprint" for iOS - available for iPhones and iPads.

g   MTBF according to common usage. High load on SSD and extreme environmental conditions might reduce MTBF.

Errors and omissions excepted. Specifications subject to change without notice.

CloudGen Firewall F1000.CE2

INTERFACES*	
Copper ethernet NICs	32x1 GbE
SFP+ fiber NICs	8x10 GbE
USB 2.0	2
IPMI	1x RJ45
Serial / console	1x RJ45
PERFORMANCE [AS OF FIRMWARE RELEASE 7.2.X]	
Firewall throughput [Gbps][a]	40
VPN throughput [AES-128, TINA std hash, Gbps][b]	10
VPN throughput [AES-256, TINA std hash, Gbps][b]	8.6
VPN throughput [AES-256, SHA256, Gbps][b]	8.3
VPN throughput [AES-256, MD5, Gbps][b]	8.6
VPN throughput [AES-256, GCM, Gbps][b]	8.3
IPS throughput [Gbps][c]	13
NGFW throughput [Gbps][d]	10.2
Threat protection throughput [Gbps][e]	4.0
Concurrent sessions	10,000,000
New sessions/s	250,000
Max. number of concurrent users [f]	7,000-15,000
MEMORY	
RAM [GB]	128
MASS STORAGE	
Type	SSD
Size ([GB] or better)	550
SSD MTBF [hours]	1.200.000
SIZE, WEIGHT, DIMENSIONS	
Weight appliance [lbs] / [kg]	44.1 / 20.0
Appliance size: width x depth x height [in]	17.0 x 24.6 x 3.5
Appliance size: width x depth x height [mm]	432 x 626 x 88
Weight carton with appliance [lbs]	57.3 / 26
Carton size: width x depth x height [in]	23.2 x 34.3 x 11.4
Carton size: width x depth x height [mm]	590 x 870 x 290
Form factor	2U Rack Mount
HARDWARE	
Display	Yes
Cooling	Fan, hot swap
ENVIRONMENTAL	
Noise emission [db/A]	N/A
Operating temperature [°F] / [°C]	+30 to +105 / 0 to +40
Storage temperature [°F] / [°C]	-5 to +170 / -20 to +75
Operating humidity (non-condensing)	10% to 85%

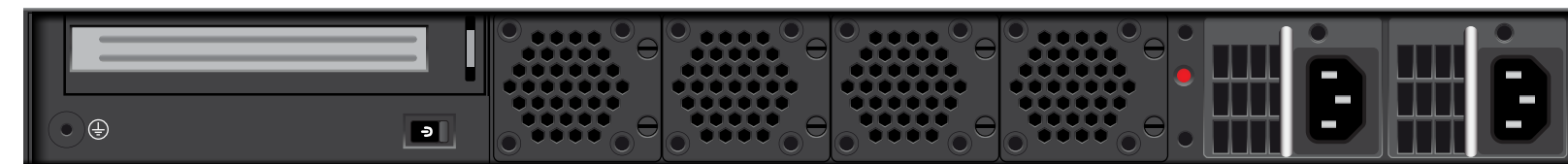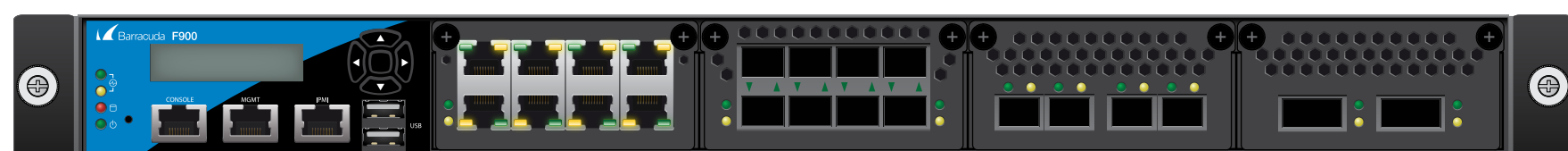| MTBF [SYSTEM]	
MTBF [yrs.] [g]	> 4
POWER & EFFICIENCY	
Power supply	Dual hot swap
Power supply type	Internal
Power type [AC/DC]	AC
Input rating [Volts]	100-240
Input frequency [Hz]	50-60
Auto sense	Yes
Max. power draw [W]	810
Max. power draw @ 120V [Amps.]	6.8
Max. power draw @ 230V [Amps.]	3.5
Max. heat dissipation [W]	680
Max. heat dissipation [BTU]	2,322
Energy efficiency [average]	> 86%
CERTIFICATIONS & COMPLIANCE	
CE emissions	Yes
CE electrical safety	Yes
FCC emissions	Yes
ROHS compliant	Yes
PACKAGING CONTENT	
Appliance	Yes
Serial cable	Yes
Straight 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

* Available sub models can be re-configured in the field. However, the re-configuration of network modules can be only applied to meet with available sub models. E.g., you may re-configure from model CE0 to CE2 or CFE but not to a model CF2 as such a sub model is not available for F1000. Network modules may be replaced in case of failure. Spare parts for redundant power supply can be ordered separately.

All performance values are measured under optimized conditions and are to be considered as „up to" values and may vary depending on system configuration and infrastructure:

a   Firewall throughput measured with large packets (MTU1500) UDP packets, bi-directional across multiple ports.
b   VPN performance is based on 1415 Byte UDP packets, bidirectional using BreakingPoint traffic generator.
c   IPS throughput is measured using large packets (MTU1500) UDP traffic and across multiple ports.
d   NGFW throughput is measured with IPS, application control, and web filter enabled, based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports.
e   Threat protection throughput is measured with IPS, application control, web filter, and antivirus enabled, based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports.
f   Depending on feature set; for more detailed information on sizing, please use the free sizing application "Firewall Blueprint" for iOS - available for iPhones and iPads.
g   MTBF according to common usage. High load on SSD and extreme environmental conditions might reduce MTBF.

Errors and omissions excepted. Specifications subject to change without notice.

CloudGen Firewall F1000.CFE

INTERFACES*	
Copper ethernet NICs	16x1 GbE
SFP fiber NICs	16x1 GbE
SFP+ fiber NICs	8x10 GbE
USB 2.0	2
IPMI	1x RJ45
Serial / console	1x RJ45
PERFORMANCE [AS OF FIRMWARE RELEASE 7.2.X]	
Firewall throughput [Gbps][a]	40
VPN throughput [AES-128, TINA std hash, Gbps][b]	10
VPN throughput [AES-256, TINA std hash, Gbps][b]	8.6
VPN throughput [AES-256, SHA256, Gbps][b]	8.3
VPN throughput [AES-256, MD5, Gbps][b]	8.6
VPN throughput [AES-256, GCM, Gbps][b]	8.3
IPS throughput [Gbps][c]	13
NGFW throughput [Gbps][d]	10.2
Threat protection throughput [Gbps][e]	4.0
Concurrent sessions	10,000,000
New sessions/s	250,000
Max. number of concurrent users[f]	7,000-15,000
MEMORY	
RAM [GB]	128
MASS STORAGE	
Type	SSD
Size ([GB] or better)	550
SSD MTBF [hours]	1.200.000
SIZE, WEIGHT, DIMENSIONS	
Weight appliance [lbs] / [kg]	44.1 / 20.0
Appliance size: width x depth x height [in]	17.0 x 24.6 x 3.5
Appliance size: width x depth x height [mm]	432 x 626 x 88
Weight carton with appliance [lbs] / [kg]	57.3 / 26
Carton size: width x depth x height [in]	23.2 x 34.3 x 11.4
Carton size: width x depth x height [mm]	590 x 870 x 290
Form factor	2U Rack Mount
HARDWARE	
Display	Yes
Cooling	Fan, hot swap
ENVIRONMENTAL	
Noise emission [db/A]	N/A
Operating temperature [°F] / [°C]	+30 to +105 / 0 to +40
Storage temperature [°F] / [°C]	-5 to +170 / -20 to +75
Operating humidity (non-condensing)	10% to 85%

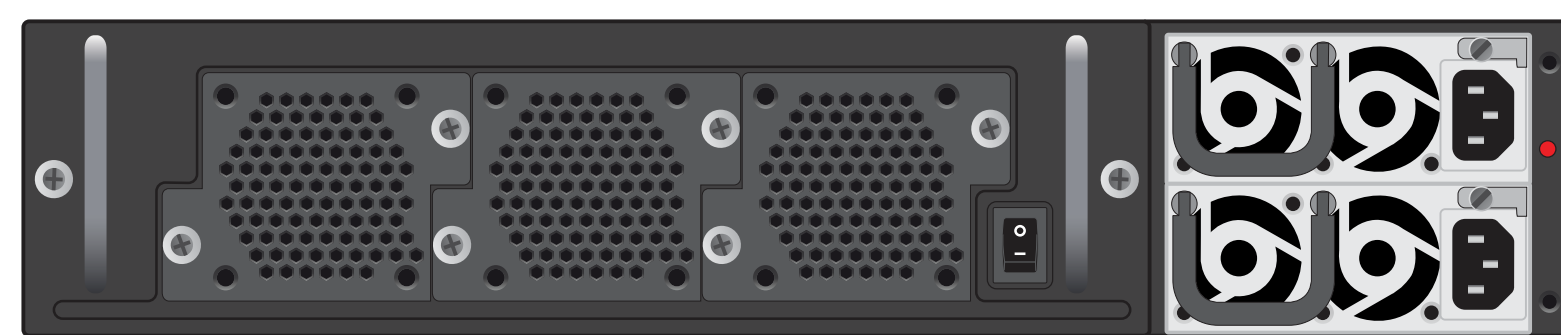| MTBF [SYSTEM]	
MTBF [yrs.] [g]	> 4
POWER & EFFICIENCY	
Power supply	Dual hot swap
Power supply type	Internal
Power type [AC/DC]	AC
Input rating [Volts]	100-240
Input frequency [Hz]	50-60
Auto sense	Yes
Max. power draw [W]	810
Max. power draw @ 120V [Amps.]	6.8
Max. power draw @ 230V [Amps.]	3.5
Max. heat dissipation [W]	680
Max. heat dissipation [BTU]	2,322
Energy efficiency [average]	> 86%
CERTIFICATIONS & COMPLIANCE	
CE emissions	Yes
CE electrical safety	Yes
FCC emissions	Yes
ROHS compliant	Yes
PACKAGING CONTENT	
Appliance	Yes
Serial cable	Yes
Straight 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

* Available sub models can be re-configured in the field. However, the re-configuration of network modules can be only applied to meet with available sub models. E.g., you may re-configure from model CE0 to CE2 or CFE but not to a model CF2 as such a sub model is not available for F1000. Network modules may be replaced in case of failure. Spare parts for redundant power supply can be ordered separately.

All performance values are measured under optimized conditions and are to be considered as „up to" values and may vary depending on system configuration and infrastructure:

a   Firewall throughput measured with large packets (MTU1500) UDP packets, bi-directional across multiple ports.
b   VPN performance is based on Barracuda TINA VPN protocol, 1415 Byte UDP packets, bidirectional using BreakingPoint traffic generator.
c   IPS throughput is measured using large packets (MTU1500) UDP traffic and across multiple ports.
d   NGFW throughput is measured with IPS, application control, and web filter enabled, based on BreakingPoint-Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports.
e   Threat protection throughput is measured with IPS, application control, web filter, and antivirus enabled, based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports.
f   Depending on feature set; for more detailed information on sizing, please use the free sizing application "Firewall Blueprint" for iOS - available for iPhones and iPads.
g   MTBF according to common usage. High load on SSD and extreme environmental conditions might reduce MTBF.

Errors and omissions excepted. Specifications subject to change without notice.

CloudGen Firewall F1000.CFEQ

INTERFACES*	
Copper ethernet NICs	16x1 GbE
SFP fiber NICs	16x1 GbE
SFP+ fiber NICs	6x10 GbE
QSFP+ fiber NICs	2x40 GbE
USB 2.0	2
IPMI	1x RJ45
Serial / console	1x RJ45
PERFORMANCE [AS OF FIRMWARE RELEASE 7.2.X]	
Firewall throughput [Gbps][a]	46
VPN throughput [AES-128, TINA std hash, Gbps][b]	10.3
VPN throughput [AES-256, TINA std hash, Gbps][b]	10
VPN throughput [AES-256, SHA256, Gbps][b]	6.5
VPN throughput [AES-256, MD5, Gbps][b]	9.2
VPN throughput [AES-256, GCM, Gbps][b]	6.5
IPS throughput [Gbps][c]	14
NGFW throughput [Gbps][d]	13
Threat protection throughput [Gbps][e]	12
Concurrent sessions	10,000,000
New sessions/s	250,000
Max. number of concurrent users [f]	7,000-15,000
MEMORY	
RAM [GB]	128
MASS STORAGE	
Type	SSD
Size ([GB] or better)	550
SSD MTBF [hours]	1.200.000
SIZE, WEIGHT, DIMENSIONS	
Weight appliance [lbs] / [kg]	44.1 / 20.0
Appliance size: width x depth x height [in]	17.0 x 24.6 x 3.5
Appliance size: width x depth x height [mm]	432 x 626 x 88
Weight carton with appliance [lbs] / [kg]	57.3 / 26
Carton size: width x depth x height [in]	23.2 x 34.3 x 11.4
Carton size: width x depth x height [mm]	590 x 870 x 290
Form factor	2U Rack Mount
HARDWARE	
Display	Yes
Cooling	Fan, hot swap
ENVIRONMENTAL	
Noise emission [db/A]	N/A
Operating temperature [°F] / [°C]	+30 to +105 / 0 to +40
Storage temperature [°F] / [°C]	-5 to +170 / -20 to +75
Operating humidity (non-condensing)	10% to 85%

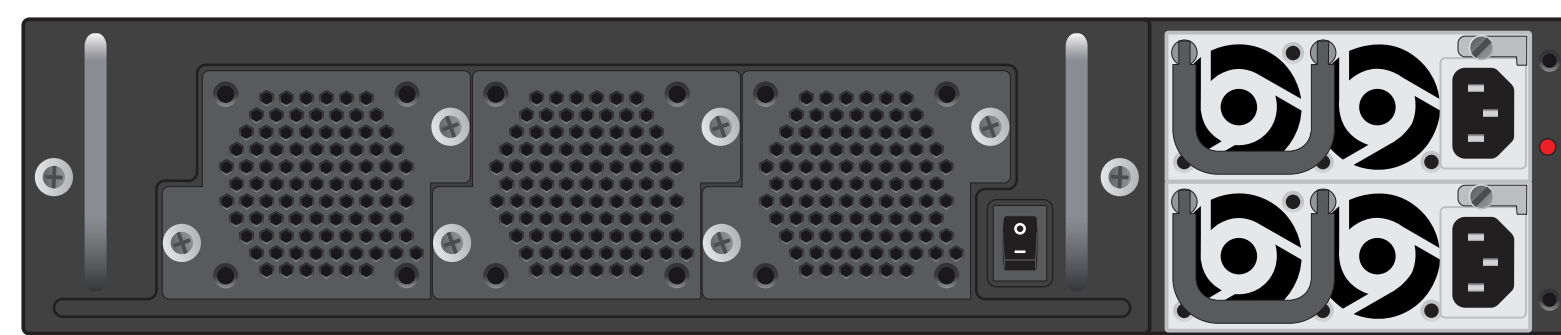| MTBF [SYSTEM]	
MTBF [yrs.] [g]	> 4
POWER & EFFICIENCY	
Power supply	Dual hot swap
Power supply type	Internal
Power type [AC/DC]	AC
Input rating [Volts]	100-240
Input frequency [Hz]	50-60
Auto sense	Yes
Max. power draw [W]	810
Max. power draw @ 120V [Amps.]	6.8
Max. power draw @ 230V [Amps.]	3.5
Max. heat dissipation [W]	680
Max. heat dissipation [BTU]	2,322
Energy efficiency [average]	> 86%
CERTIFICATIONS & COMPLIANCE	
CE emissions	Yes
CE electrical safety	Yes
FCC emissions	Yes
ROHS compliant	Yes
PACKAGING CONTENT	
Appliance	Yes
Serial cable	Yes
Straight 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

* Available sub models can be re-configured in the field. However, the re-configuration of network modules can be only applied to meet with available sub models. E.g., you may re-configure from model CE0 to CE2 or CFE but not to a model CF2 as such a sub model is not available for F1000. Network modules may be replaced in case of failure. Spare parts for redundant power supply can be ordered separately.

All performance values are measured under optimized conditions and are to be considered as „up to" values and may vary depending on system configuration and infrastructure:

a   Firewall throughput measured with large packets (MTU1500) UDP packets, bi-directional across multiple ports.
b   VPN performance is based on Barracuda TINA VPN protocol, 1415 Byte UDP packets, bidirectional using BreakingPoint traffic generator.
c   IPS throughput is measured using large packets (MTU1500) UDP traffic and across multiple ports.
d   NGFW throughput is measured with IPS, application control, and web filter enabled, based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports.
e   Threat protection throughput is measured with IPS, application control, web filter, and antivirus enabled, based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports.
f   Depending on feature set; for more detailed information on sizing, please use the free sizing application "Firewall Blueprint" for iOS - available for iPhones and iPads.
g   MTBF according to common usage. High load on SSD and extreme environmental conditions might reduce MTBF.

Errors and omissions excepted. Specifications subject to change without notice.

Additional hardware options

HARDWARE OPTION	F12	F18	F80	F82 [5]	F180	F183	F280	F380	F400	F600	F800	F900	F1000
Built-in WiFi option	-	-	●	●	●	●	●	-	-	-	-	-	-
Spare power supply unit for sub-models with dual power supply	-	-	-	-	-	-	-	-	○	○	○	○	-
Maintenance kit (two fans & one power unit)	-	-	-	-	-	-	-	-	-	-	-	-	○
Wall mount bracket (2x)	-	●	●	●	●	●	●	-	-	-	-	-	-
L-shape rack mount bracket (2x)	○	○	○	●	●	●	●	●	●	●	●	●	●
Rail kit	-	-	-	-	-	-	-	○	○	●	●	●	●
USB Modem	○	○	○	○	○	○	○	○	○	○	○	○	○

○ optional ● included

Built-in Wi-Fi option

Barracuda CloudGen Firewall appliances F80, F82.DSLA, F82.DLSB[1], F180, and F280 offer built-in Wi-Fi.

Figure 13 - Rear view on model F80 with Wi-Fi antennas mounted

ITEM	SPECIFICATION
Standards	802.11b/g/n
Operating Frequency	802.11b/g/n ISM Band: 2.412 ~ 2.4835 GHz
Modulation	802.11b: DSSS (DBPSK, DQPSK, CCK)
	802.11g: OFDM (BPSK, QPSK, 16-QAM, 64-QAM)
	802.11n: OFDM (BPSK, QPSK, 16-QAM, 64-QAM)
Output Power	802.11b: 17dBm ± 2dBm
	802.11g: 16dBm ± 2dBm
	802.11gn HT20: 15dBm ± 2dBm@MCS7
	802.11gn HT40: 14dBm ± 2dBm@MCS7
Receive Sensitivity	802.11b: ≤ -85dBm@11Mbps
	802.11g: ≤ -76dBm@54Mbps
	802.11gn HT20: ≤ -75dBm@MCS7
	802.11gn HT40: ≤ -72dBm@MCS7
Wireless security	64/128-bits WEP
	WPA
	WPA2

Spare power supply unit

The spare power supply unit is available for model featuring standard dual power supply, i.e., F400.F20, F600.C20, F600.F20, F600.E20, all F800 and F900 sub-models.

Maintenance kit

The maintenance kit for model F1000 consists of two fans and one power supply unit.

Barracuda wall mount bracket

The Barracuda wall mount bracket allows mounting CloudGen Firewall F18, F80, F82.DSLA, F82.DSLB[1], F180, and F280 on a wall or similar.
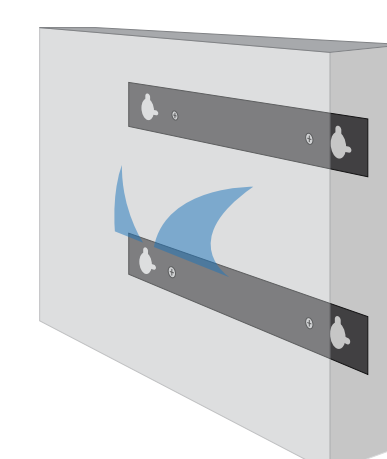
Barracuda L-shape rack mount bracket

The L-shape rack mount brackets are used for mounting desktop models in 1U Standard 19" rack slots. For CloudGen Firewall F12, F18, and F80 the brackets are an optional item and, thus, to be ordered separately.

5   Model F82 DSLB is only available in EMEA region.

USB modem

Especially for remote sites a USB modem 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.

> **Note:**
>
> Barracuda 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. SIM card is not included and has to be obtained through a mobile phone provider.

Who can benefit from Barracuda USB modems?

- 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

	MODEM M30	MODEM M40	MODEM M41
Region	International	EMEA / APAC	North America
PERFORMANCE			
Download / Upload	up to 21.2 Mbit/s / up to 5.75 Mbit/s	up to 150 Mbit/s / up to 50 Mbit/s	up to 150 Mbit/s / up to 50 Mbit/s
SUPPORTED FREQUENCIES			
LTE	n/a	800/850/900/1800/2100/2600 MHz	700/850/1700/1900/2600 MHz
UTMS/HSPA/HSPA+	800/850/900/1700/1900/2100 MHz	850/900/1900/2100 MHz	850/900/1700/1900/2100 MHz
GSM	850/900/1800/1900 MHz	850/900/1800/1900 MHz	850/900/1800/1900 MHz
ENVIRONMENTAL DATA, QUALITY, AND RELIABILITY			
Operating temperature	-40 to 85 °C / -40 to 185 °F	-40 to 85 °C / -40 to 185 °F	-40 to 85 °C / -40 to 185 °F
RoHS compliant	lead-free	lead-free	lead-free
Manufactured in	ISO/TS 16949 certified production sites	ISO/TS 16949 certified production sites	ISO/TS 16949 certified production sites
ELECTRICAL DATA			
Power supply DC	3.3 to 4.4 V	3.0 to 3.6 V	3.0 to 3.6 V
Power consumption	Idle (3G, DRX7) 1.3 mA / GPRS Data 175 - 400 mA / HSPA 500 - 800 mA	Idle: 1.8 mA / LTE max power: 815 mA	Idle: 1.8 mA / LTE max power: 815 mA
Certifications and approvals	GCF, R&TTE, PTCRB, FCC, IC, Giteki (Japan), A-tic (Australia), CCC (China), NCC (Taiwan), KCC (Korea), IDA (Singapore), ANATEL (Brazil), ICASA (South Africa), AT&T, DoCoMo, Softbank, SKT (South Korea), Telstra (Australia), Vodafone, BellMobility, Telus, Rogers (Canada)	FCC, CE, RED (R&TTE)	FCC, CE, RED (R&TTE)

Virtual appliances

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. The CloudGen Firewall Vx provides the same powerful technology, comprehensive features, and ease-of-use found in a CloudGen Firewall hardware appliance. It is ideally suited for organizations that are standardizing hardware platforms or deploying virtual environments.

Beyond its powerful network firewall, IPS, and VPN technologies, CloudGen Firewall Vx integrates a comprehensive set of next-generation firewall technologies, including application control, availability, and traffic flow optimization across the wide area network, web filtering, antivirus, anti-spam, and network access control enforcement.

For more details on Barracuda virtual appliances, please visit barracuda.com/solutions/virtual.

All virtual editions are available for:

vmware®

Microsoft Hyper-V

KVM

CITRIX XenServer

VX EDITIONS	VF10	VF25	VF50	VF100	VF250	VF500	VF1000	VF2000	VF4000	VF8000
CAPACITY										
Number of protected IPs	10	25	50	100	250	500	Unlimited	Unlimited	Unlimited	Unlimited
Allowed cores	1	2	2	2	2	2	2	4	8	16
AVAILABLE SUBSCRIPTIONS										
Malware Protection	-	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Advanced Threat Protection	-	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Advanced Remote Access	-	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Advanced Threat and Malware Protection Bundle	-	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional

Features and capabilities

BARRACUDA CLOUDGEN FIREWALL **FIREWALL**	F12	F18	F80	F82	F180	F183	F280	F380	F400	F600	F800	F900	F1000	VIRTUAL
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 [6])	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
IP-less configuration via named networks (IPv4, IPv6)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Wildcard network objects	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Gigabit performance	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Object oriented rule set	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Virtual rule sets	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Virtual rule test environment	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
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))	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Deep inspection of ICS / SCADA protocols	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
DHCP relaying with packet loop protection & configurable agent-ID policy	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Standby mode	Active-Active (with external load balancer only) and Active-Passive													
Network notification on failover	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Key-based authentication	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Encrypted HA communication	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Provider/link failover	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Transparent failover without session loss	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

6　IPv6 firewall forwarding traffic, IPS, and application control - only in conjunction with administration via Barracuda Firewall Admin.

BARRACUDA CLOUDGEN FIREWALL APPLICATION CONTROL	F12	F18	F80	F82	F180	F183	F280	F380	F400	F600	F800	F900	F1000	VIRTUAL
Deep packet inspection	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Application behavior analysis	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Thousands of applications and protocols supported (Skype, BitTorrent, etc.)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Social media application support (Facebook, Google+, etc.)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Media streaming application support (YouTube, Netflix, etc.)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Proxy and anonymizer detection (Hide Me, Cyberghost, etc.)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Application objects based on category, risk, properties, and popularity	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Predefined categories such as business, conferencing, instant messaging, media streaming, etc.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Interception of SSL/TLS encrypted traffic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Inspection of SSL/TLS encrypted traffic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Filtering of SSL/TLS encrypted traffic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Creation of customized applications	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Deep application context	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Google SafeSearch enforcement	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Google Accounts enforcement	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Application Based Provider Selection	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Bandwidth and QoS assignment	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Application logging	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Application blocking	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Application monitor and drill-down function	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Reporting	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

BARRACUDA CLOUDGEN FIREWALL INTRUSION PREVENTION SYSTEM	F12	F18	F80	F82	F180	F183	F280	F380	F400	F600	F800	F900	F1000	VIRTUAL
Inline intrusion prevention	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Generic pattern filter	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Active ARP handling	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SYN / DoS / DDoS attack protection	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Reverse routing path check	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ICMP flood ping protection	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Malformed packet check	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
TCP split handshake protection	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
TCP stream segmentation check	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
URL obfuscation check	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
FTP evasion check	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
RPC defragmentation check	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
HTML decoding	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
HTML decompression	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SMB & NetBios evasion protection	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Regular online pattern updates	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
IPS exception (whitelisting)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
IPS EXCEPTIONS BASED ON														
Source / destination	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Port & port range	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Signature / CVE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

BARRACUDA CLOUDGEN FIREWALL MALWARE PROTECTION	F12	F18	F80	F82	F180	F183	F280	F380	F400	F600	F800	F900	F1000	VIRTUAL
Single-pass mode	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [8]
Proxy mode	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [8]
Configurable archive recursion depth	✓ [7]	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [8]
Quarantine functionality for proxy	✓ [7]	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [8]
Configurable unknown archive policy	✓ [7]	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [8]
Configurable maximum archive size	✓ [7]	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [8]
Archiver package support	✓ [7]	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [8]
Office file-types support	✓ [7]	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [8]
Proactive detection of new threats	✓ [7]	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [8]
Advanced heuristics detection techniques	✓ [7]	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [8]
Number of signatures	Billions [7]	Hundreds of thousands [8]												
Frequency of signature updates	Online [7]	Multiple updates per day [8]												
Dynamic, on-demand analysis of malware programs (sandbox)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [8]

7   Model F12 doesn't provide on-board malware protection but online malware protection as part of an active Advanced Threat Protection subscription. Hash calculation takes place on-board and the hash is then sent to BATP for verification.
8   Does not apply for virtual model VF10.

BARRACUDA CLOUDGEN FIREWALL ADVANCED THREAT PROTECTION	F12	F18	F80	F82	F180	F183	F280	F380	F400	F600	F800	F900	F1000	VIRTUAL
Dynamic analysis of documents with embedded exploits (PDF, Office, etc.)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [9]
Detailed forensics for both, malware binaries, and web threats (exploits)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [9]
High resolution malware analysis (monitoring, execution from the inside)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [9]
TypoSquatting and link protection for emails	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [9]
Support for multiple operating systems (Windows, Android, etc.)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [9]
Flexible malware analysis in the cloud	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [9]
SUPPORTED FILE TYPES														
Microsoft executables (exe, msi, dll)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [9]
Adobe PDF documents	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [9]
Android APK files	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [9]
ZIP archives	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [9]
RAR archives	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [9]
macOS executables (dmg)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [9]
Microsoft Office (doc, docx, xls, xslx, ...)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [9]
Microsoft Office macro enabled (doc, docx, xls, xslx, ...)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [9]
OpenOffice (odt, ods, ...)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [9]
Other archives (7z, lzh, bz, bz2, chm, cab, tar)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [9]
SUPPORTED PROTOCOLS														
HTTP	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [9]
HTTPS	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [9]
FTP	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [9]
SMTP	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [9]
SMTPS	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [9]

BARRACUDA CLOUDGEN FIREWALL WEB FILTER	F12	F18	F80	F82	F180	F183	F280	F380	F400	F600	F800	F900	F1000	VIRTUAL
Black lists/white lists (per rule)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [9]
Filter categories	95 [9]													
Number of URLs categorized	>100 million [9]													
Alexa top 1 million coverage	> 90% [9]													
Temporal constraints	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [9]
User specific / group specific restrictions	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [9]
Cached online category database	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [9]
Local update interval	N/A													
Online update interval	continuously [9]													

9   Does not apply for virtual model VF10.

BARRACUDA CLOUDGEN FIREWALL TRAFFIC INTELLIGENCE & SD-WAN	F12	F18	F80	F82	F180	F183	F280	F380	F400	F600	F800	F900	F1000	VIRTUAL
Traffic shaping (incl. inside VPN tunnels)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Distribution of site-to-site VPN across up to 24 uplinks	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Quality of service (QoS)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Automatic backup uplink activation	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Automatic activation of alternate QoS policy upon main WAN failure and backup uplink activation	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Dynamic bandwidth and latency detection between VPN peers	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Performance-based transport selection	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Adaptive bandwidth protection	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Adaptive session balancing	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Traffic replication	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Firewall / VPN compression	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Zero-touch deployment	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	-
Data deduplication	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Link aggregation	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Maximum overall bandwidth per interface	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
On-the-fly reprioritization via firewall status GUI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Ingress shaping per interface	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Application-specific bandwidth assignment	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Application-based provider selection	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
URL-filter-category specific provider selection	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

BARRACUDA CLOUDGEN FIREWALL ROUTING & NETWORKING	F12	F18	F80	F82	F180	F183	F280	F380	F400	F600	F800	F900	F1000	VIRTUAL
HA capable with transparent session failover	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
GbE ethernet support	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Max number of physical interfaces	5	4	4	5	6	5-7	6	8	12	12	20	24	40	n/a
Integrated switch	-	-	-	-	8-port	-	8-port	-	-	-	-	-	-	n/a
Integrated DSL modem	-	-	-	✓	-	-	-	-	-	-	-	-	-	n/a
802.1q VLAN support	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
xDSL support (PPPoE, PPTP (multi-link))	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
DHCP client support	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ISDN support (EuroISDN (syncppp, rawip))	✓	✓	✓	✓	✓	✓	✓	-	-	-	-	-	-	-
Link monitoring (DHCP, 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 9,000 bytes)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
IPinIP and GRE tunnels	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
PPTP	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
BGP	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Virtual routing and forwarding (VFR) instances	-	-	1	3	3	3	3	3	3	9	19	19	24	✓ [10]
Dynamic VPN routing	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Dynamic routing (BGP, OSPF, RIP)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

10   For detailed information regarding VRF instances on virtual deployments, please check Barracuda Campus.

BARRACUDA CLOUDGEN FIREWALL VPN	F12	F18	F80	F82	F180	F183	F280	F380	F400	F600	F800	F900	F1000	VIRTUAL
Encryption support	AES-128/256, 3DES/ DES, CAST, Blowfish, Null													
Private CA (up to 4,096 bit RSA)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
External PKI support	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
x.509v3 policy extensions (fully recognized)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Certificate revocation (OCSP, CRL)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Site-to-site VPN with traffic intelligence	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Dynamic mesh VPN	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
WAN traffic compression via data deduplication	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Star (hub and spoke) VPN network topology	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
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)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Dynamic routing (OSPF, BGP) over VPN	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

BARRACUDA CLOUDGEN FIREWALL SYSTEM MANAGEMENT	F12	F18	F80	F82	F180	F183	F280	F380	F400	F600	F800	F900	F1000	VIRTUAL
Central management	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Local management	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Comprehensive GUI-based configuration management	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
WebUI-based configuration management	-	✓	✓	-	✓	✓	✓	✓	✓	-	-	-	-	-[11]
Command-line interface (CLI) available	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SSH-based access	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Multiple administrators	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Role-based administrators	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Real-time accounting and visualization	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Easy roll-out and recovery	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
USB installation and recovery	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Zero-touch deployment	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	-
Full life-cycle management	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
In-band management	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Dedicated management interface	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Serial interfaces	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Central management interface	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
All management via VPN tunnel	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

11   WebUI-based configuration management is available for deployments in Amazon Web Services (BYOL and PAYG), Microsoft Azure (BYOL and PAYG), and Google Cloud Platform (BYOL)

BARRACUDA CLOUDGEN FIREWALL LOGGING/MONITORING/ACCOUNTING	F12	F18	F80	F82	F180	F183	F280	F380	F400	F600	F800	F900	F1000	VIRTUAL
System health, activity monitoring	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Human readable log files	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Statistics	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Active event notification	Email/SNMP trap													
Real-time accounting and reporting	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Syslog streaming (fully GUI configurable)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

BARRACUDA CLOUDGEN FIREWALL ADDITIONAL FUNCTIONS	F12	F18	F80	F82	F180	F183	F280	F380	F400	F600	F800	F900	F1000	VIRTUAL
SNMP queries	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SMS control	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
NTP4 time server and clients	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

BARRACUDA CLOUDGEN FIREWALL DNS	F12	F18	F80	F82	F180	F183	F280	F380	F400	F600	F800	F900	F1000	VIRTUAL
Multi-domain support	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
DNS operation types	Master, slave, forwarder, cacher													
DNS doctoring	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

BARRACUDA CLOUDGEN FIREWALL SSH GATEWAY	F12	F18	F80	F82	F180	F183	F280	F380	F400	F600	F800	F900	F1000	VIRTUAL
Termination of SSHv2 terminal access sessions (not supported: remote execution/secure copy/secure FTP)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [12]
Central user authentication	MSNT, MSAD, LDAP, RADIUS, RSA-ACE, TACACS+ [12]													
User specific / group specific restrictions	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [12]
Public key authentication on target system	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [12]
Session / activity tracing	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [12]
Customizable login greeting text	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [12]

BARRACUDA CLOUDGEN FIREWALL DHCP	F12	F18	F80	F82	F180	F183	F280	F380	F400	F600	F800	F900	F1000	VIRTUAL
DHCP server	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
DHCP relay	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Lease DB visualization & management	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Multi-homing, multi-netting	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Class-based filtering	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Dynamic DNS support	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

12   Does not apply for virtual model VF10.

BARRACUDA CLOUDGEN FIREWALL FTP GATEWAY	F12	F18	F80	F82	F180	F183	F280	F380	F400	F600	F800	F900	F1000	VIRTUAL
Restrict active/passive data transfer	-	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [13]
Restrict non-RFC FTP commands	-	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [13]
Full integration with malware protection	-	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [13]
Buffer overflow protection	-	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [13]
Central user authentication	-	-	-	-	MSNT, MSAD, LDAP, Radius, RSA-ACE, TACACS+ [13]									
Customizable login greeting text	-	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [13]
User / Group specific restrictions	-	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [13]
Destination redirection / specific restrictions	-	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [13]
Time restrictions	-	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [13]
Deny file/directory download	-	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [13]
Deny file/directory modifications	-	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [13]
Deny specific file extensions	-	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [13]
Activity visualization & reporting	-	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [13]
Advanced Threat Protection for FTP	-	-	-	-	optional [13]									

BARRACUDA CLOUDGEN FIREWALL MAIL SECURITY	F12	F18	F80	F82	F180	F183	F280	F380	F400	F600	F800	F900	F1000	VIRTUAL
Supported protocols	SMTP, SMTP with StartTLS, SMTPS, POP3, POP3S [13]													
SSL Interception	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [13]
DNS blacklist	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [13]
Antivirus for email	-	optional [13]												
Advanced Threat Protection for email	✓	optional [13]												

BARRACUDA CLOUDGEN FIREWALL WEB PROXY	F12	F18	F80	F82	F180	F183	F280	F380	F400	F600	F800	F900	F1000	VIRTUAL
Supports cache hierarchies (parenting, neighboring)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cache hierarchies supporting protocols	ICP, HTCP, CARP, Cache Digest, WCCP													
Proxying and caching (HTTP, FTP, and others)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Proxying for SSL (no inspection)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Transparent caching	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
HTTP server acceleration	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Caching of DNS lookups	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Central user authentication	Native NTLM, RADIUS, RSA ACE, LDAP, MS Active Directory, TACACS+													
Support for external virus scanning (ICAP)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

13 Does not apply for virtual model VF10.

BARRACUDA CLOUDGEN FIREWALL SPAM FILTER	F12	F18	F80	F82	F180	F183	F280	F380	F400	F600	F800	F900	F1000	VIRTUAL
Visualization of mail activity backlog	-	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [14]
Spool-queue synchronization for HA	-	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [14]
Restrictable mail reception	-	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [14]
Configurable maximum mail data size	-	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [14]
Configurable maximum number of mail recipients	-	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [14]
Support for external virus scanning	-	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [14]
Activity visualization & reporting	-	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [14]
Mail delivery	-	-	-	-	Explicit, MX [14]									
Accept policies	-	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [14]
Recipient database	-	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [14]
Configurable block criteria (host, subject, sender, recipient)	-	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [14]
Attachment and/or header stripping	-	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [14]
Subject rewriting	-	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [14]
Cloning	-	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [14]
Grey listing	-	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [14]
Supports a scripting language for configuration	-	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [14]
Subject modification on spam	-	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [14]
White lists / black lists	-	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [14]
Online tests	-	-	-	-	DCC, RBL [14]									
Auto learning / training	-	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [14]
Customizable rules for spam rating	-	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ [14]

BARRACUDA CLOUDGEN FIREWALL CLOUD-SPECIFICS	MICROSOFT AZURE	AMAZON WEB SERVICES	GOOGLE CLOUD PLATFORM
In addition to supporting features as mentioned above in column "Virtual", the public cloud editions support unique capabilities.			
Auto Scaling Cluster	-	✓	-
Cold Standby Cluster	-	✓	-
Log File Streaming and Custom Metrics for AWS CloudWatch	-	✓	-
Log File Streaming to Azure OMS	✓	-	-
Azure Virtual WAN support	✓	-	-

14   Does not apply for virtual model VF10.

ADVANCED REMOTE ACCESS **VPN & NETWORK ACCESS CLIENTS**	VPN CLIENT	NETWORK ACCESS 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 Vista (32-bit, 64-bit)	✓	✓
Microsoft Windows 7 (32-bit, 64-bit)	✓	✓
Microsoft Windows 8 (32-bit, 64-bit)	✓	✓
Microsoft Windows 10 (32-bit, 64-bit)	✓	✓
Linux (kernel 2.4, kernel 2.6)	✓	-
macOS (10.5, 10.6, 10.7, 10.8, 10.9, 10.10, 10.11)	✓	-
MANAGEMENT		
Central management of VPN configuration	✓	✓
VPN diagnostics log and report	✓	✓
VPN status monitoring	✓	✓
Attack access cache	✓	✓
Packet log (capture)	✓	✓
VPN groups	✓	✓
Silent client setup	✓	✓
Password protection of settings [15], [16]	✓	✓
AUTHENTICATION SUPPORT		
Microsoft® Certificate Management (Crypto API)	✓ [15]	✓
Microsoft® Active Directory [17]	✓ [15]	✓
LDAP [17]	✓	✓
RADIUS [17]	✓	✓
MSNT [17]	✓ [15]	✓
RSAACE [17]	✓	✓
External X509 certificates	✓	✓
SMS PASSCODE [17]	✓	✓
RSA tokens [17]	✓	✓
Smart cards [18]	✓ [15]	✓
Microsoft domain logon support (prelogon)	✓ [15]	✓
PERSONAL FIREWALL CAPABILITIES		
Dynamic adapter object & 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	✓	✓

15 Only for Microsoft operating systems.
16 Also prevents changes to client settings by users with administrator rights.
17 Queried by Barracuda CloudGen Firewall VPN server on behalf of client.
18 For manufacturer with Microsoft Crypto Service Provider.

ADVANCED REMOTE ACCESS	CUDALAUNCH				
CUDALAUNCH & SSL VPN	WINDOWS	MACOS	IOS	ANDROID	BROWSER-BASED SSL VPN
Access to web apps (reverse proxied internal apps)	✓	✓	✓	✓	✓
Access to tunnel web apps (internal apps via SSL tunnel)	✓	✓	✓	✓	-
RDP (via SSL tunnel)	✓	✓	✓	✓	-
SSL tunnels for native client apps	✓	✓	✓	✓	-
IP VPN connections (connect device to network)	Automatically via TINA VPN	Manually via TINA VPN	Automatically via TINA VPN	Automatically via TINA VPN	-
Built-in demo setup	✓	✓	✓	✓	✓
Central administration via Barracuda CloudGen Firewall and Barracuda Firewall Admin	✓	✓	✓	✓	✓
Automatic self-configuration and management of VPN connections	✓	✓	✓	✓	-
Integration with CloudGen Firewall User Authentication	✓	✓	✓	✓	✓
Access policies utilizing multi-factor and multi-policy authentication	✓	✓	✓	✓	✓
Google Authenticator support	✓	✓	✓	✓	✓
Client certificate authentication	✓	✓	✓	✓	-
Single sign-on to internal apps	✓	✓	✓	✓	✓
Launchpad favorites (apps or VPN connections)	✓	✓	✓	✓	-
User attributes (ability for end users to edit)	✓	✓	✓	✓	✓
Dynamic firewall rule control (for system administrators)	✓	✓	✓	✓	✓
Custom help or info text for your organization	✓	✓	✓	✓	✓
Manually edit and create IP VPN connections	✓	✓	✓	✓	-
Debug log for easy support	✓	✓	✓	✓	-

BARRACUDA FIREWALL CONTROL CENTER	STANDARD EDITION (VC400 / VCC400)	ENTERPRISE EDITION (VC610 / VCC610)	GLOBAL EDITION (VC820)
CONFIGURATION MANAGEMENT			
Tenants	1	1 [19]	5
Configuration groups [20]	1	Unlimited	Unlimited
Maximum managed gateways [recommended]	Unlimited [20]	Unlimited [200]	Unlimited [1000+ depends on HW]
Configuration templates (repositories)	✓	✓	✓
Shared configuration data	✓	✓	✓
Zero-touch deployment	✓	✓	✓
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	✓	✓	✓
Dynamic mesh site-to-site VPN support	✓	✓	✓
Barracuda Network Access Client policy management	✓	✓	✓
Multi-release management	-	✓	✓
Multi-platform management	✓	✓	✓

19   The public cloud edition VCC610 supports two tenants.
20   "Configuration Groups" ("cluster" in the firmware) refers to an administratively bundled group of CloudGen Firewall appliances and not to a load sharing cluster.

BARRACUDA FIREWALL CONTROL CENTER STATUS MONITORING	STANDARD EDITION (VC400 / VCC400)	ENTERPRISE EDITION (VC610 / VCC610)	GLOBAL EDITION (VC820)
Gateway health state	✓	✓	✓
Launch pad functionality	✓	✓	✓
Customizable layout	✓	✓	✓
Barracuda Earth support	-	✓	✓

BARRACUDA FIREWALL CONTROL CENTER TRUST CENTER	STANDARD EDITION (VC400 / VCC400)	ENTERPRISE EDITION (VC610 / VCC610)	GLOBAL EDITION (VC820)
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	✓	✓	✓

BARRACUDA FIREWALL CONTROL CENTER LICENSE CENTER	STANDARD EDITION (VC400 / VCC400)	ENTERPRISE EDITION (VC610 / VCC610)	GLOBAL EDITION (VC820)
License timestamp server	✓	✓	✓
License status display	✓	✓	✓
Central event message list	✓	✓	✓
Event forwarding (SNMP, mail)	✓	✓	✓
Event log	✓	✓	✓

BARRACUDA FIREWALL CONTROL CENTER CENTRAL SOFTWARE UPDATE	STANDARD EDITION (VC400 / VCC400)	ENTERPRISE EDITION (VC610 / VCC610)	GLOBAL EDITION (VC820)
Real-time version display	✓	✓	✓
Kernel and OS updates	✓	✓	✓
Barracuda CloudGen Firewall updates & log viewer	✓	✓	✓

BARRACUDA FIREWALL CONTROL CENTER SECURE REMOTE EXEC. ENVIRONMENT (SSHV2)	STANDARD EDITION (VC400 / VCC400)	ENTERPRISE EDITION (VC610 / VCC610)	GLOBAL EDITION (VC820)
Job scheduling	✓	✓	✓
Script management	✓	✓	✓
Execution log viewer	✓	✓	✓

BARRACUDA FIREWALL CONTROL CENTER **ADMINISTRATIVE MODEL**	STANDARD EDITION (VC400 / VCC400)	ENTERPRISE EDITION (VC610 / VCC610)	GLOBAL EDITION (VC820)
Fully GUI-based access (Barracuda Firewall Admin management tool)	✓	✓	✓
Strong authentication & AES encryption	✓	✓	✓
Configurable role-based administration	✓	✓	✓
Adjustable view on configuration tree	✓	✓	✓
Configurable administrative domains	-	✓	✓
Multiple domains per administrator	-	✓	✓
Configurable access on OS level	✓	✓	✓
Configurable access notification	✓	✓	✓

BARRACUDA FIREWALL CONTROL CENTER **REPORTING AND ACCOUNTING**	STANDARD EDITION (VC400 / VCC400)	ENTERPRISE EDITION (VC610 / VCC610)	GLOBAL EDITION (VC820)
Historical reports on gateway activity	✓	✓	✓
Customer-based gateway activity reports	✓	✓	✓
Policy distribution	✓	✓	✓
Control Center resource utilization	✓	✓	✓
Gateway-resource utilization	✓	✓	✓
Central log host	✓	✓	✓
Streaming/relaying to external log host	✓	✓	✓
Barracuda Report Server integration	✓	✓	✓

BARRACUDA FIREWALL CONTROL CENTER **ADDITIONAL FUNCTIONS**	STANDARD EDITION (VC400 / VCC400)	ENTERPRISE EDITION (VC610 / VCC610)	GLOBAL EDITION (VC820)
NTP4 time server for gateways	✓	✓	✓
Integrated DNS server	✓	✓	✓
High availability	Optional	Optional	HA license included
SIEM syslog interface	✓	✓	✓
Public key infrastructure	-	✓	✓
Revision control system	✓	✓	✓
Access monitor	✓	✓	✓

Available subscriptions

Availability matrix

| BARRACUDA CLOUDGEN FIREWALL | F12 | F18 | F80 | F82 | F180 | F183 | F183R | F280 | F380 | F400 | F600 | F800 | F900 | F1000 | VX | PUBLIC CLOUD | |
																BYOL	PAYG
AVAILABLE SOFTWARE/FEATURE SUBSCRIPTIONS																	
Energize Updates	**Mandatory**																
Malware Protection	Optional [21]																-
Advanced Threat Protection	Optional																-
Advanced Threat and Malware Protection Bundle	-	Optional															-
Advanced Remote Access	-	Optional															✓
AVAILABLE HARDWARE/SUPPORT SUBSCRIPTIONS																	
Warranty Extension	Optional														-	-	-
Instant Replacement	Optional														-	-	-
Premium Support	depends on product mix and size of deployment								Optional								
On-site cold spare unit	Optional														-	-	-
Total Protect subscription bundle	-	Optional													-	-	-
Total Protect PLUS subscription bundle	Optional [22]														-	-	-
Total Protect hardware & subscription bundle	-	Optional													-	-	-
Total Protect PLUS hardware & Subscription bundle	Optional [22]														-	-	-

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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.

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21 For model F12, malware protection utilizes cloud-based malware protection as part of an active Advanced Threat Protection subscription.
22 For model F12, the Total Protect PLUS bundle utilizes cloud-based
malware protection; item Advanced Remote Access is not available.

Energize Updates

Barracuda Energize Updates help you secure your investment in the ever-changing IT world. Benefit from security updates to patch or repair any security vulnerabilities, keep your Barracuda product up-to-date and fully functional at all times, and get access to our award-winning support.

> Energize Updates are available for all CloudGen 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 CloudGen Firewall.

Energize Updates includes:

- Basic support, i.e., email support 24/7, and phone support Monday through Friday (9:00 am - 5:00 pm)
- Firmware maintenance including new firmware updates with feature enhancements and bug fixes
- Early Release Firmware program (optional)
- Unlimited number of client-to-site VPN connections
- Security updates to patch/repair any security vulnerabilities
- URL filter based on Barracuda Web Filter online URL categorization in single-pass as well as in proxy mode
- Regular updates for Application Control database
- IPS signature and pattern updates.

On-Site Cold Spare Unit

The cold spare unit provides Barracuda customers a cold standby appliance of the same type as the main unit.

This cold standby unit can be activated quickly in case the active unit fails for any reason. The cold standby appliance includes a "Cold Standby License" for Barracuda CloudGen Firewall firmware only; no productive use for firewalling or other functions is possible. In this way, the firmware of the appliance can be upgraded 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 backup file ("par" file, including the license) of the defective main unit for a period of up to 15 days.

If the defective unit is covered under Instant Replacement or is still under warranty, Barracuda Networks will ship the customer a replacement unit of the same type as the defective unit. 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 become 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 CloudGen Firewall deployment.

Warranty Extension

Provides an extended warranty, and ships a replacement unit on the next business day (best effort) with standard mail upon notification of a failed unit.

> Must be purchased within 60 days of hardware purchase and is a continuous subscription from date of activation. Available as 1 and 3 year subscriptions with a maximum coverage of 5 years.

Instant Replacement

One hundred percent uptime is important in corporate environments, but sometimes equipment can fail. In the rare case that a Barracuda product fails, Barracuda ships a replacement unit on the same or next business day. And by means of the Hardware Refresh Program, we ensure that customers benefit from the latest hardware improvements and firmware capabilities:

- Enhanced support providing phone and email support 24/7
- Hard disk replacement on models that have swappable RAID drives
- Free hardware refresh after four years of continuous IR coverage.

> 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.

Comparison "Warranty Extension - Instant Replacement"

	WARRANTY EXTENSION	INSTANT REPLACEMENT
Replacement	Next business day (best effort)	Same day or next business day
Shipment	Standard	Express
Hard disk replacement (swappable RAID)	Standard shipping	
Support	Basic Support (with EU)	Enhanced Support
Available subscriptions	1, 3 years	1, 3, 5 years
Free hardware refresh after 4 years	-	✓

Premium Support

Premium Support ensures that an organisation's network is running at its peak performance by providing the highest level of 24/7 technical support for mission-critical environments. A dedicated Premium Support Account Manager and a team of technical engineers provide fast solutions to high-priority support issues, thereby ensuring that Barracuda Networks equipment maintains continuous uptime.

Key benefits of Premium Support:

• Dedicated phone and email support 24/7

• Priority response time to resolve mission-critical issues

• Priority Level Agreement (PLAs) to guarantee that issues are handled, resolved, and closed quickly

• Dedicated Support Account Manager who is familiar with the customer's environment

• Proactive ticket monitoring and reporting to provide comprehensive information and control

Note:

Available for all Barracuda CloudGen Firewall hardware and virtual models. Premium Support for Barracuda CloudGen Firewall hardware appliances can only be purchased in combination with Instant Replacement. Premium Support may be purchased on Barracuda CloudGen 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.

Advanced Remote Access

This optional subscription adds a customizable and easy-to-use portal-based SSL VPN as well as sophisticated Network Access Control (NAC) functionality and CudaLaunch support.

Barracuda's responsive **SSL VPN** Portal enables you to provide simple browser based remote access on desktop or mobile devices. When accessing the portal via the web browser on a desktop or mobile device, users can browse apps, network folders, and files as if they were connected to the office network.

CudaLaunch is a simple-to-use remote connectivity application specifically designed to securely extend the company network to BYOD and mobile devices. The app is available for Windows, macOS, iOS, and Android, can be downloaded from the App Stores.

The Barracuda **Network Access Client** provides a sophisticated VPN client for Windows, macOS, and Linux that provides richer performance and functionality than standard IPsec client software. The Barracuda Network Access Client, when used with a Barracuda CloudGen Firewall, provides centrally managed Network Access Control (NAC) and an advanced Personal Firewall. This enforces client health and security policies for remote users connecting to the corporate network.

For Barracuda CloudGen Firewall deployments in Public Cloud offerings like Amazon Web Services and/or Azure with Pay-As-You-Go licencing, this subscription is included.

User Session Limits

• Unlimited concurrent SSL VPN user sessions

• Unlimited concurrent CudaLaunch sessions

• Multiple concurrent client-to-site VPN sessions by the same user

Advanced Threat Protection

Prevent malicious files—even unknown ones—from entering the organization. Avoid network breaches, identify zero-day malware exploits, targeted attacks, advanced persistent threats and other advanced malware that routinely bypass traditional signature based IPS and antivirus engines before they do harm to your network.

Compatibility and Licensing:

Available for Barracuda CloudGen Firewall models F18 and higher, as well as all Barracuda CloudGen Firewall virtual appliances.

Available as 1, 3, and 5 years subscriptions. Requires a valid Web Security or Malware Protection subscription.

In case the monthly file capacity is reached, the system stops forwarding files to the ATP cloud for the rest of the current month.

Environment and Number of Files Inspected Per Month

HARD-WARE	# OF FILES		VIRTUAL	# OF FILES		PUBLIC CLOUD	# OF FILES
F12	108,000		VF10	n/a		Level 2	108,000
F18	108,000		VF25	43,200		Level 4	216,000
F80	108,000		VF50	108,000		Level 6	324,000
F82	108,000		VF100	216,000		Level 8	750,000
F180	108,000		VF250	324,000			
F183	108,000		VF500	432,000			
F280	216,000		VF1000	540,000			
F380	260,000		VF2000	648,000			
F400	324,000		VF4000	750,000			
F600	540,000		VF8000	1,000,000			
F800	750,000						
F900	1,000,000						
F1000	on request						

Malware Protection

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

Key Benefits of 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
- Hundreds of thousands signatures

Barracuda CloudGen Firewall model F12 features online malware protection as part of this subscription.

Compatibility and Licensing:

Available for Barracuda Barracuda CloudGen Firewall models F12 and higher, as well as all Barracuda Barracuda CloudGen Firewall virtual appliances. Unlimited user license if purchased with a CloudGen 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.

Advanced Threat and Malware Protection Bundle

For your convenience, the subscriptions "Advanced Threat Protection" and "Malware Protection" are also available in a bundled subscription.

However, the specifications, compatibility, and licensing restrictions are the same as for single licensing.

Total Protect Bundles

For your convenience, Barracuda offers different pre-configured bundles **Total Protect** and **Total Protect PLUS** (listed below). Of course, you may configure subscriptions "à la carte" as required.

	TOTAL PROTECT		TOTAL PROTECT PLUS	
Bundle Type	Subscription	Hardware & Subscription	Subscription	Hardware & Subscription
Energize Updates (includes: Application Control, IPS, VPN, mail security, URL filter, WAN Optimization, SSL Interception, firmware updates, etc.)	✓	✓	✓	✓
Dual Malware Protection	✓	✓	✓	✓
Support	Standard 8x5	Standard 8x5	Standard 8x5	Enhanced 24x7
Hardware Appliance included	-	✓	-	✓
Extended Hardware Warranty	-	Warranty Extension	-	Instant Replacement
Advanced Threat Protection (Sandboxing) incl. Botnet Protection	-	-	✓	✓
Advanced Remote Access (CudaLaunch)	-	-	✓	✓

Ordering information

Barracuda CloudGen Firewall

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 does credit early termination of subscriptions using these daily rates.

Available bundles

For your convenience, Barracuda offers different pre-configured bundles (listed below). Of course, you may configure subscriptions "à la carte" as required.

HARDWARE & SUBSCRIPTION BUNDLE	
TOTAL PROTECT	**TOTAL PROTECT PLUS**
Hardware unit	Hardware unit
Warranty extension	Instant replacement
Energize Updates	Energize Updates
8x5 support	24x7 support
Application control	Application control
IPS	IPS
Web filter	Web filter
Anti-spam	Anti-spam
Antivirus	Advanced Threat and Malware Protection [23]
	Botnet protection
	Advanced Remote Access

23 The "Advanced Threat and Malware Protection" subscription bundles "Malware Protection" subscription and "Advanced Threat Protection" subscription.

Hardware appliances

CLOUDGEN FIREWALL F12	EMEA / INTERNATIONAL	NORTH AMERICA
Barracuda CloudGen Firewall F12 hardware unit	BNGIF12a	BNGF12a
Total Protect Subscription Bundle (1Y, 3Y, 5Y) [24]	BNGIF12a-tp1,3,5	BNGF12a-tp1,3,5
Total Protect PLUS Subscription Bundle (1Y, 3Y, 5Y) [28]	BNGIF12a-tpp1,3,5	BNGF12a-tpp1,3,5
Total Protect Hardware & Subscription Bundle (1Y, 3Y, 5Y) [26]	BNGIF12atp1,3,5	BNGF12atp1,3,5
Total Protect PLUS Hardware & Subscription Bundle (1Y, 3Y, 5Y) [29]	BNGIF12atpp1,3,5	BNGF12atpp1,3,5
Energize Updates (1Y, 3Y, 5Y)	BNGIF12a-e1,3,5	BNGF12a-e1,3,5
Instant Replacement (1Y, 3Y, 5Y)	BNGIF12a-h1,3,5	BNGF12a-h1,3,5
Warranty extension (1Y, 3Y)	BNGIF12a-we1,3	BNGF12a-we1,3
Premium Support (1Y, 3Y, 5Y)	BNGIF12a-p1,3,5	BNGF12a-p1,3,5
Advanced Threat Protection (1Y, 3Y, 5Y)	BNGIF12a-a1,3,5	BNGF12a-a1,3,5
Cold Spare F12	BNGIF12a-c	BNGF12a-c
L-shape Rack Mount Bracket (2x)	BPIRAC-02	BPRAC-02
USB Modem 3G/UMTS	BNGIM30a	BNGM30a
USB Modem 3G/UMTS Instant Replacement (1Y, 3Y, 5Y)	BNGIM30a-h1,3,5	BNGM30a-h1,3,5
USB Modem 3G/UMTS Warranty extension (1Y, 3Y)	BNGIM30a-we1,3	BNGM30a-we1,3
USB Modem 4G/LTE	BNGIM40a	BNGM41a
USB Modem 4G/LTE Instant Replacement (1Y, 3Y, 5Y)	BNGIM40a-h1,3,5	BNGM41a-h1,3,5
USB Modem 4G/LTE Warranty extension (1Y, 3Y)	BNGIM40a-we1,3	BNGM41a-we1,3

CLOUDGEN FIREWALL F18	EMEA / INTERNATIONAL	NORTH AMERICA
Barracuda CloudGen Firewall F18 hardware unit	BNGIF18a	BNGF18a
Total Protect Subscription Bundle (1Y, 3Y, 5Y) [24]	BNGIF18a-tp1,3,5	BNGF18a-tp1,3,5
Total Protect PLUS Subscription Bundle (1Y, 3Y, 5Y) [25]	BNGIF18a-tpp1,3,5	BNGF18a-tpp1,3,5
Total Protect Hardware & Subscription Bundle (1Y, 3Y, 5Y) [26]	BNGIF18atp1,3,5	BNGF18atp1,3,5
Total Protect PLUS Hardware & Subscription Bundle (1Y, 3Y, 5Y) [27]	BNGIF18atpp1,3,5	BNGF18atpp1,3,5
Energize Updates (1Y, 3Y, 5Y)	BNGIF18a-e1,3,5	BNGF18a-e1,3,5
Instant Replacement (1Y, 3Y, 5Y)	BNGIF18a-h1,3,5	BNGF18a-h1,3,5
Warranty extension (1Y, 3Y)	BNGIF18a-we1,3	BNGF18a-we1,3
Premium Support (1Y, 3Y, 5Y)	BNGIF18a-p1,3,5	BNGF18a-p1,3,5
Malware Protection (1Y, 3Y, 5Y)	BNGIF18a-m1,3,5	BNGIF18a-m1,3,5
Advanced Threat Protection (1Y, 3Y, 5Y)	BNGIF18a-a1,3,5	BNGF18a-a1,3,5
Advanced Threat and Malware Protection (1Y, 3Y, 5Y)	BNGIF18a-am1,3,5	BNGF18a-am1,3,5
Advanced Remote Access (1Y, 3Y, 5Y)	BNGIF18a-vp1,3,5	BNGF18a-vp1,3,5
Cold Spare F18	BNGIF18a-c	BNGF18a-c
L-shape Rack Mount Bracket (2x)	BPIRAC-02	BPRAC-02
USB Modem 3G/UMTS	BNGIM30a	BNGM30a
USB Modem 3G/UMTS Instant Replacement (1Y, 3Y, 5Y)	BNGIM30a-h1,3,5	BNGM30a-h1,3,5
USB Modem 3G/UMTS Warranty extension (1Y, 3Y)	BNGIM30a-we1,3	BNGM30a-we1,3
USB Modem 4G/LTE	BNGIM40a	BNGM41a
USB Modem 4G/LTE Instant Replacement (1Y, 3Y, 5Y)	BNGIM40a-h1,3,5	BNGM41a-h1,3,5
USB Modem 4G/LTE Warranty extension (1Y, 3Y)	BNGIM40a-we1,3	BNGM41a-we1,3

24 Comprising of application control, IPS, web filter, anti-spam, antivirus, 8x5 support, and Energize Updates.
25 Comprising of application control, IPS, web filter, anti-spam, Advanced Threat and Malware Protection, botnet protection, Advanced Remote Access, 8x5 support, and Energize Updates.
26 Comprising of application control, IPS, web filter, anti-spam, antivirus, 8x5 support, Energize Updates, hardware unit, and warranty extension.
27 Comprising of application control, IPS, web filter, anti-spam, Advanced Threat and Malware Protection, botnet protection, Advanced Remote Access, 24x7 enhanced support, Energize Updates, hardware unit, and Instant Replacement.
28 Comprising of application control, IPS, web filter, anti-spam, cloud-based Malware Protection, Advanced Threat Protection, botnet protection, Advanced Remote Access, 8x5 support, and Energize Updates.
29 Comprising of application control, IPS, web filter, anti-spam, cloud-based Malware Protection, Advanced Threat Protection, botnet protection, Advanced Remote Access, 24x7 enhanced support, Energize Updates, hardware unit, and Instant Replacement.

CLOUDGEN FIREWALL F80	EMEA / INTERNATIONAL	NORTH AMERICA
Barracuda CloudGen Firewall F80 hardware unit	BNGIF80a	BNGF80a
Total Protect Subscription Bundle (1Y, 3Y, 5Y) [30]	BNGIF80a-tp1,3,5	BNGF80a-tp1,3,5
Total Protect PLUS Subscription Bundle (1Y, 3Y, 5Y) [31]	BNGIF80a-tpp1,3,5	BNGF80a-tpp1,3,5
Total Protect Hardware & Subscription Bundle (1Y, 3Y, 5Y) [32]	BNGIF80atp1,3,5	BNGF80atp1,3,5
Total Protect PLUS Hardware & Subscription Bundle (1Y, 3Y, 5Y) [33]	BNGIF80atpp1,3,5	BNGF80atpp1,3,5
Energize Updates (1Y, 3Y, 5Y)	BNGIF80a-e1,3,5	BNGF80a-e1,3,5
Instant Replacement (1Y, 3Y, 5Y)	BNGIF80a-h1,3,5	BNGF80a-h1,3,5
Warranty extension (1Y, 3Y)	BNGIF80a-we1,3	BNGF80a-we1,3
Premium Support (1Y, 3Y, 5Y)	BNGIF80a-p1,3,5	BNGF80a-p1,3,5
Malware Protection (1Y, 3Y, 5Y)	BNGIF80a-m1,3,5	BNGF80a-m1,3,5
Advanced Threat Protection (1Y, 3Y, 5Y)	BNGIF80a-a1,3,5	BNGF80a-a1,3,5
Advanced Threat and Malware Protection (1Y, 3Y, 5Y)	BNGIF80a-am1,3,5	BNGF80a-am1,3,5
Advanced Remote Access (1Y, 3Y, 5Y)	BNGIF80a-vp1,3,5	BNGF80a-vp1,3,5
Cold Spare F80	BNGIF80a-c	BNGF80a-c
L-shape Rack Mount Bracket (2x)	BPIRAC-02	BPRAC-02
USB Modem 3G/UMTS	BNGIM30a	BNGM30a
USB Modem 3G/UMTS Instant Replacement (1Y, 3Y, 5Y)	BNGIM30a-h1,3,5	BNGM30a-h1,3,5
USB Modem 3G/UMTS Warranty extension (1Y, 3Y)	BNGIM30a-we1,3	BNGM30a-we1,3
USB Modem 4G/LTE	BNGIM40a	BNGM41a
USB Modem 4G/LTE Instant Replacement (1Y, 3Y, 5Y)	BNGIM40a-h1,3,5	BNGM41a-h1,3,5
USB Modem 4G/LTE Warranty extension (1Y, 3Y)	BNGIM40a-we1,3	BNGM41a-we1,3

CLOUDGEN FIREWALL F82.DSLA	EMEA / INTERNATIONAL	NORTH AMERICA
Barracuda CloudGen Firewall F82.DSLA hardware unit	BNGIF82a.DSLA	BNGF82a.DSLA
Total Protect Subscription Bundle (1Y, 3Y, 5Y) [30]	BNGIF82a.DSLA.tp1,3,5	BNGF82a.DSLA.tp1,3,5
Total Protect PLUS Subscription Bundle (1Y, 3Y, 5Y) [31]	BNGIF82a.DSLA.tpp1,3,5	BNGF82a.DSLA.tpp1,3,5
Total Protect Hardware & Subscription Bundle (1Y, 3Y, 5Y) [32]	BNGIF82a.DSLA.tp1,3,5	BNGF82a.DSLA.tp1,3,5
Total Protect PLUS Hardware & Subscription Bundle (1Y, 3Y, 5Y) [33]	BNGIF82a.DSLA.tpp1,3,5	BNGF82a.DSLA.tpp1,3,5
Energize Updates (1Y, 3Y, 5Y)	BNGIF82a.DSLA-e1,3,5	BNGF82a.DSLA-e1,3,5
Instant Replacement (1Y, 3Y, 5Y)	BNGIF82a.DSLA-h1,3,5	BNGF82a.DSLA-h1,3,5
Warranty extension (1Y, 3Y)	BNGIF82a.DSLA-we1,3	BNGF82a.DSLA-we1,3
Premium Support (1Y, 3Y, 5Y)	BNGIF82a.DSLA-p1,3,5	BNGF82a.DSLA-p1,3,5
Malware Protection (1Y, 3Y, 5Y)	BNGIF82a.DSLA-m1,3,5	BNGF82a.DSLA-m1,3,5
Advanced Threat Protection (1Y, 3Y, 5Y)	BNGIF82a.DSLA-a1,3,5	BNGF82a.DSLA-a1,3,5
Advanced Threat and Malware Protection (1Y, 3Y, 5Y)	BNGIF82a.DSLA-am1,3,5	BNGF82a.DSLA-am1,3,5
Advanced Remote Access (1Y, 3Y, 5Y)	BNGIF82a.DSLA-vp1,3,5	BNGF82a.DSLA-vp1,3,5
Cold Spare F82	BNGIF82a.DSLA-c	BNGF82a.DSLA-c
L-shape Rack Mount Bracket (2x)	BPIRAC-02	BPIRAC-02
USB Modem 3G/UMTS	BNGIM30a	BNGM30a
USB Modem 3G/UMTS Instant Replacement (1Y, 3Y, 5Y)	BNGIM30a-h1,3,5	BNGM30a-h1,3,5
USB Modem 3G/UMTS Warranty extension (1Y, 3Y)	BNGIM30a-we1,3	BNGM30a-we1,3
USB Modem 4G/LTE	BNGIM40a	BNGM41a
USB Modem 4G/LTE Instant Replacement (1Y, 3Y, 5Y)	BNGIM40a-h1,3,5	BNGM41a-h1,3,5
USB Modem 4G/LTE Warranty extension (1Y, 3Y)	BNGIM40a-we1,3	BNGM41a-we1,3

30 Comprising of application control, IPS, web filter, anti-spam, antivirus, 8x5 support, and Energize Updates.
31 Comprising of application control, IPS, web filter, anti-spam, Advanced Threat and Malware Protection, botnet protection, Advanced Remote Access, 8x5 support, and Energize Updates.
32 Comprising of application control, IPS, web filter, anti-spam, antivirus, 8x5 support, Energize Updates, hardware unit, and warranty extension.
33 Comprising of application control, IPS, web filter, anti-spam, Advanced Threat and Malware Protection, botnet protection, Advanced Remote Access, 24x7 enhanced support, Energize Updates, hardware unit, and Instant Replacement.

CLOUDGEN FIREWALL F82.DSLB	EMEA / INTERNATIONAL	NORTH AMERICA
Barracuda CloudGen Firewall F82.DSLBº hardware unit	BNGIF82a.DSLB	-
Total Protect Subscription Bundle (1Y, 3Y, 5Y) [34]	BNGIF82a.DSLB.tp1,3,5	-
Total Protect PLUS Subscription Bundle (1Y, 3Y, 5Y) [35]	BNGIF82a.DSLB.tpp1,3,5	-
Total Protect Hardware & Subscription Bundle (1Y, 3Y, 5Y) [36]	BNGIF82a.DSLB.tp1,3,5	-
Total Protect PLUS Hardware & Subscription Bundle (1Y, 3Y, 5Y) [37]	BNGIF82a.DSLB.tpp1,3,5	-
Energize Updates (1Y, 3Y, 5Y)	BNGIF82a.DSLB-e1,3,5	-
Instant Replacement (1Y, 3Y, 5Y)	BNGIF82a.DSLB-h1,3,5	-
Warranty extension (1Y, 3Y)	BNGIF82a.DSLB-we1,3	-
Premium Support (1Y, 3Y, 5Y)	BNGIF82a.DSLB-p1,3,5	-
Malware Protection (1Y, 3Y, 5Y)	BNGIF82a.DSLB-m1,3,5	-
Advanced Threat Protection (1Y, 3Y, 5Y)	BNGIF82a.DSLB-a1,3,5	-
Advanced Threat and Malware Protection (1Y, 3Y, 5Y)	BNGIF82a.DSLB-am1,3,5	-
Advanced Remote Access (1Y, 3Y, 5Y)	BNGIF82a.DSLB-vp1,3,5	-
Cold Spare F82	BNGIF82a.DSLB-c	-
L-shape Rack Mount Bracket (2x)	BPIRAC-02	BPIRAC-02
USB Modem 3G/UMTS	BNGIM30a	BNGM30a
USB Modem 3G/UMTS Instant Replacement (1Y, 3Y, 5Y)	BNGIM30a-h1,3,5	BNGM30a-h1,3,5
USB Modem 3G/UMTS Warranty extension (1Y, 3Y)	BNGIM30a-we1,3	BNGM30a-we1,3
USB Modem 4G/LTE	BNGIM40a	BNGM41a
USB Modem 4G/LTE Instant Replacement (1Y, 3Y, 5Y)	BNGIM40a-h1,3,5	BNGM41a-h1,3,5
USB Modem 4G/LTE Warranty extension (1Y, 3Y)	BNGIM40a-we1,3	BNGM41a-we1,3

CLOUDGEN FIREWALL F180	EMEA / INTERNATIONAL	NORTH AMERICA
Barracuda CloudGen Firewall F180 hardware unit	BNGIF180a	BNGF180a
Total Protect Subscription Bundle (1Y, 3Y, 5Y) [34]	BNGIF180a-tp1,3,5	BNGF180a-tp1,3,5
Total Protect PLUS Subscription Bundle (1Y, 3Y, 5Y) [35]	BNGIF180a-tpp1,3,5	BNGF180a-tpp1,3,5
Total Protect Hardware & Subscription Bundle (1Y, 3Y, 5Y) [36]	BNGIF180atp1,3,5	BNGF180atp1,3,5
Total Protect PLUS Hardware & Subscription Bundle (1Y, 3Y, 5Y) [37]	BNGIF180atpp1,3,5	BNGF180atpp1,3,5
Energize Updates (1Y, 3Y, 5Y)	BNGIF180a-e1,3,5	BNGF180a-e1,3,5
Instant Replacement (1Y, 3Y, 5Y)	BNGIF180a-h1,3,5	BNGF180a-h1,3,5
Warranty extension (1Y, 3Y)	BNGIF180a-we1,3	BNGF180a-we1,3
Premium Support (1Y, 3Y, 5Y)	BNGIF180a-p1,3,5	BNGF180a-p1,3,5
Malware Protection (1Y, 3Y, 5Y)	BNGIF180a-m1,3,5	BNGF180a-m1,3,5
Advanced Threat Protection (1Y, 3Y, 5Y)	BNGIF180a-a1,3,5	BNGF180a-a1,3,5
Advanced Threat and Malware Protection (1Y, 3Y, 5Y)	BNGIF180a-am1,3,5	BNGF180a-am1,3,5
Advanced Remote Access (1Y, 3Y, 5Y)	BNGIF180a-vp1,3,5	BNGF180a-vp1,3,5
Cold Spare F180	BNGIF180a-c	BNGF180a-c
USB Modem 3G/UMTS	BNGIM30a	BNGM30a
USB Modem 3G/UMTS Instant Replacement (1Y, 3Y, 5Y)	BNGIM30a-h1,3,5	BNGM30a-h1,3,5
USB Modem 3G/UMTS Warranty extension (1Y, 3Y)	BNGIM30a-we1,3	BNGM30a-we1,3
USB Modem 4G/LTE	BNGIM40a	BNGM41a
USB Modem 4G/LTE Instant Replacement (1Y, 3Y, 5Y)	BNGIM40a-h1,3,5	BNGM41a-h1,3,5
USB Modem 4G/LTE Warranty extension (1Y, 3Y)	BNGIM40a-we1,3	BNGM41a-we1,3

34 Comprising of application control, IPS, web filter, anti-spam, antivirus, 8x5 support, and Energize Updates.
35 Comprising of application control, IPS, web filter, anti-spam, Advanced Threat and Malware Protection, botnet protection, Advanced Remote Access, 8x5 support, and Energize Updates.
36 Comprising of application control, IPS, web filter, anti-spam, antivirus, 8x5 support, Energize Updates, hardware unit, and warranty extension.
37 Comprising of application control, IPS, web filter, anti-spam, Advanced Threat and Malware Protection, botnet protection, Advanced Remote Access, 24x7 enhanced support, Energize Updates, hardware unit, and Instant Replacement.

CLOUDGEN FIREWALL F183	EMEA / INTERNATIONAL	NORTH AMERICA
Barracuda CloudGen Firewall F183 hardware unit	BNGIF183a	BNGF183a
Total Protect Subscription Bundle (1Y, 3Y, 5Y) [38]	BNGIF183a-tp1,3,5	BNGF183a-tp1,3,5
Total Protect PLUS Subscription Bundle (1Y, 3Y, 5Y) [39]	BNGIF183a-tpp1,3,5	BNGF183a-tpp1,3,5
Total Protect Hardware & Subscription Bundle (1Y, 3Y, 5Y) [40]	BNGIF183atp1,3,5	BNGF183atp1,3,5
Total Protect PLUS Hardware & Subscription Bundle (1Y, 3Y, 5Y) [41]	BNGIF183atpp1,3,5	BNGF183atpp1,3,5
Energize Updates (1Y, 3Y, 5Y)	BNGIF183a-e1,3,5	BNGF183a-e1,3,5
Instant Replacement (1Y, 3Y, 5Y)	BNGIF183a-h1,3,5	BNGF183a-h1,3,5
Warranty extension (1Y, 3Y)	BNGIF183a-we1,3	BNGF183a-we1,3
Premium Support (1Y, 3Y, 5Y)	BNGIF183a-p1,3,5	BNGF183a-p1,3,5
Malware Protection (1Y, 3Y, 5Y)	BNGIF183a-m1,3,5	BNGF183a-m1,3,5
Advanced Threat Protection (1Y, 3Y, 5Y)	BNGIF183a-a1,3,5	BNGF183a-a1,3,5
Advanced Threat and Malware Protection (1Y, 3Y, 5Y)	BNGIF183a-am1,3,5	BNGF183a-am1,3,5
Advanced Remote Access (1Y, 3Y, 5Y)	BNGIF183a-vp1,3,5	BNGF183a-vp1,3,5
Cold Spare F183	BNGIF183a-c	BNGF183a-c
External power supply unit	BNGIEPSU1a	BNGEPSU1a
USB Modem 3G/UMTS	BNGIM30a	BNGM30a
USB Modem 3G/UMTS Instant Replacement (1Y, 3Y, 5Y)	BNGIM30a-h1,3,5	BNGM30a-h1,3,5
USB Modem 3G/UMTS Warranty extension (1Y, 3Y)	BNGIM30a-we1,3	BNGM30a-we1,3
USB Modem 4G/LTE	BNGIM40a	BNGM41a
USB Modem 4G/LTE Instant Replacement (1Y, 3Y, 5Y)	BNGIM40a-h1,3,5	BNGM41a-h1,3,5
USB Modem 4G/LTE Warranty extension (1Y, 3Y)	BNGIM40a-we1,3	BNGM41a-we1,3

CLOUDGEN FIREWALL F183R	EMEA / INTERNATIONAL	NORTH AMERICA
Barracuda CloudGen Firewall F183R (Rugged) hardware unit	BNGIF183Ra	BNGF183Ra
Total Protect Subscription Bundle (1Y, 3Y, 5Y) [38]	BNGIF183Ra-tp1,3,5	BNGF183Ra-tp1,3,5
Total Protect PLUS Subscription Bundle (1Y, 3Y, 5Y) [39]	BNGIF183Ra-tpp1,3,5	BNGF183Ra-tpp1,3,5
Total Protect Hardware & Subscription Bundle (1Y, 3Y, 5Y) [40]	BNGIF183Ratp1,3,5	BNGF183Ratp1,3,5
Total Protect PLUS Hardware & Subscription Bundle (1Y, 3Y, 5Y) [41]	BNGIF183Ratpp1,3,5	BNGF183Ratpp1,3,5
Energize Updates (1Y, 3Y, 5Y)	BNGIF183Ra-e1,3,5	BNGF183Ra-e1,3,5
Instant Replacement (1Y, 3Y, 5Y)	BNGIF183Ra-h1,3,5	BNGF183Ra-h1,3,5
Warranty extension (1Y, 3Y)	BNGIF183Ra-we1,3	BNGF183Ra-we1,3
Premium Support (1Y, 3Y, 5Y)	BNGIF183Ra-p1,3,5	BNGF183Ra-p1,3,5
Malware Protection (1Y, 3Y, 5Y)	BNGIF183Ra-m1,3,5	BNGF183Ra-m1,3,5
Advanced Threat Protection (1Y, 3Y, 5Y)	BNGIF183Ra-a1,3,5	BNGF183Ra-a1,3,5
Advanced Threat and Malware Protection (1Y, 3Y, 5Y)	BNGIF183Ra-am1,3,5	BNGF183Ra-am1,3,5
Advanced Remote Access (1Y, 3Y, 5Y)	BNGIF183Ra-vp1,3,5	BNGF183Ra-vp1,3,5
Cold Spare F183R	BNGIF183Ra-c	BNGF183Ra-c
External power supply unit	BNGIEPSU1a	BNGEPSU1a
USB Modem 3G/UMTS	BNGIM30a	BNGM30a
USB Modem 3G/UMTS Instant Replacement (1Y, 3Y, 5Y)	BNGIM30a-h1,3,5	BNGM30a-h1,3,5
USB Modem 3G/UMTS Warranty extension (1Y, 3Y)	BNGIM30a-we1,3	BNGM30a-we1,3
USB Modem 4G/LTE	BNGIM40a	BNGM41a
USB Modem 4G/LTE Instant Replacement (1Y, 3Y, 5Y)	BNGIM40a-h1,3,5	BNGM41a-h1,3,5
USB Modem 4G/LTE Warranty extension (1Y, 3Y)	BNGIM40a-we1,3	BNGM41a-we1,3

38 Comprising of application control, IPS, web filter, anti-spam, antivirus, 8x5 support, and Energize Updates.
39 Comprising of application control, IPS, web filter, anti-spam, Advanced Threat and Malware Protection, botnet protection, Advanced Remote Access, 8x5 support, and Energize Updates.
40 Comprising of application control, IPS, web filter, anti-spam, antivirus, 8x5 support, Energize Updates, hardware unit, and warranty extension.
41 Comprising of application control, IPS, web filter, anti-spam, Advanced Threat and Malware Protection, botnet protection, Advanced Remote Access, 24x7 enhanced support, Energize Updates, hardware unit, and Instant Replacement.

CLOUDGEN FIREWALL F280	EMEA / INTERNATIONAL	NORTH AMERICA
Barracuda CloudGen Firewall F280 hardware unit	BNGIF280a	BNGF280a
Total Protect Subscription Bundle (1Y, 3Y, 5Y) [42]	BNGIF280a-tp1,3,5	BNGF280a-tp1,3,5
Total Protect PLUS Subscription Bundle (1Y, 3Y, 5Y) [43]	BNGIF280a-tpp1,3,5	BNGF280a-tpp1,3,5
Total Protect Hardware & Subscription Bundle (1Y, 3Y, 5Y) [44]	BNGIF280atp1,3,5	BNGF280atp1,3,5
Total Protect PLUS Hardware & Subscription Bundle (1Y, 3Y, 5Y) [45]	BNGIF280atpp1,3,5	BNGF280atpp1,3,5
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
Warranty extension (1Y, 3Y)	BNGIF280a-we1,3	BNGF280a-we1,3
Premium Support (1Y, 3Y, 5Y)	BNGIF280a-p1,3,5	BNGF280a-p1,3,5
Malware Protection (1Y, 3Y, 5Y)	BNGIF280a-m1,3,5	BNGF280a-m1,3,5
Advanced Threat Protection (1Y, 3Y, 5Y)	BNGIF280a-a1,3,5	BNGF280a-a1,3,5
Advanced Threat and Malware Protection (1Y, 3Y, 5Y)	BNGIF280a-am1,3,5	BNGF280a-am1,3,5
Advanced Remote Access (1Y, 3Y, 5Y)	BNGIF280a-vp1,3,5	BNGF280a-vp1,3,5
Cold Spare F280	BNGIF280a-c	BNGF280a-c
USB Modem 3G/UMTS	BNGIM30a	BNGM30a
USB Modem 3G/UMTS Instant Replacement (1Y, 3Y, 5Y)	BNGIM30a-h1,3,5	BNGM30a-h1,3,5
USB Modem 3G/UMTS Warranty extension (1Y, 3Y)	BNGIM30a-we1,3	BNGM30a-we1,3
USB Modem 4G/LTE	BNGIM40a	BNGM41a
USB Modem 4G/LTE Instant Replacement (1Y, 3Y, 5Y)	BNGIM40a-h1,3,5	BNGM41a-h1,3,5
USB Modem 4G/LTE Warranty extension (1Y, 3Y)	BNGIM40a-we1,3	BNGM41a-we1,3

CLOUDGEN FIREWALL F380	EMEA / INTERNATIONAL	NORTH AMERICA
Barracuda CloudGen Firewall F380 hardware unit	BNGIF380a	BNGF380a
Total Protect Subscription Bundle (1Y, 3Y, 5Y) [42]	BNGIF380a-tp1,3,5	BNGF380a-tp1,3,5
Total Protect PLUS Subscription Bundle (1Y, 3Y, 5Y) [43]	BNGIF380a-tpp1,3,5	BNGF380a-tpp1,3,5
Total Protect Hardware & Subscription Bundle (1Y, 3Y, 5Y) [44]	BNGIF380atp1,3,5	BNGF380atp1,3,5
Total Protect PLUS Hardware & Subscription Bundle (1Y, 3Y, 5Y) [45]	BNGIF380atpp1,3,5	BNGF380atpp1,3,5
Energize Updates (1Y, 3Y, 5Y)	BNGIF380a-e1,3,5	BNGF380a-e1,3,5
Instant Replacement (1Y, 3Y, 5Y)	BNGIF380a-h1,3,5	BNGF380a-h1,3,5
Warranty extension (1Y, 3Y)	BNGIF380a-we1,3	BNGF380a-we1,3
Premium Support (1Y, 3Y, 5Y)	BNGIF380a-p1,3,5	BNGF380a-p1,3,5
Malware Protection (1Y, 3Y, 5Y)	BNGIF380a-m1,3,5	BNGF380a-m1,3,5
Advanced Threat Protection (1Y, 3Y, 5Y)	BNGIF380a-a1,3,5	BNGF380a-a1,3,5
Advanced Threat and Malware Protection (1Y, 3Y, 5Y)	BNGIF380a-am1,3,5	BNGF380a-am1,3,5
Advanced Remote Access (1Y, 3Y, 5Y)	BNGIF380a-vp1,3,5	BNGF380a-vp1,3,5
Cold Spare F380	BNGIF380a-c	BNGF380a-c
Rail kit	BPNGIRAC-02	BPNGRAC-02
USB Modem 3G/UMTS	BNGIM30a	BNGM30a
USB Modem 3G/UMTS Instant Replacement (1Y, 3Y, 5Y)	BNGIM30a-h1,3,5	BNGM30a-h1,3,5
USB Modem 3G/UMTS Warranty extension (1Y, 3Y)	BNGIM30a-we1,3	BNGM30a-we1,3
USB Modem 4G/LTE	BNGIM40a	BNGM41a
USB Modem 4G/LTE Instant Replacement (1Y, 3Y, 5Y)	BNGIM40a-h1,3,5	BNGM41a-h1,3,5
USB Modem 4G/LTE Warranty extension (1Y, 3Y)	BNGIM40a-we1,3	BNGM41a-we1,3

42 Comprising of application control, IPS, web filter, anti-spam, antivirus, 8x5 support, and Energize Updates.
43 Comprising of application control, IPS, web filter, anti-spam, Advanced Threat and Malware Protection, botnet protection, Advanced Remote Access, 8x5 support, and Energize Updates.
44 Comprising of application control, IPS, web filter, anti-spam, antivirus, 8x5 support, Energize Updates, hardware unit, and warranty extension.
45 Comprising of application control, IPS, web filter, anti-spam, Advanced Threat and Malware Protection, botnet protection, Advanced Remote Access, 24x7 enhanced support, Energize Updates, hardware unit, and Instant Replacement.

CLOUDGEN FIREWALL F400 STANDARD	EMEA / INTERNATIONAL	NORTH AMERICA
Barracuda CloudGen Firewall F400 standard model hardware unit	BNGIF400a	BNGF400a
Total Protect Subscription Bundle (1Y, 3Y, 5Y) [46]	BNGIF400a-tp1,3,5	BNGF400a-tp1,3,5
Total Protect PLUS Subscription Bundle (1Y, 3Y, 5Y) [47]	BNGIF400a-tpp1,3,5	BNGF400a-tpp1,3,5
Total Protect Hardware & Subscription Bundle (1Y, 3Y, 5Y) [48]	BNGIF400atp1,3,5	BNGF400atp1,3,5
Total Protect PLUS Hardware & Subscription Bundle (1Y, 3Y, 5Y) [49]	BNGIF400atpp1,3,5	BNGF400atpp1,3,5
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
Warranty extension (1Y, 3Y)	BNGIF400a-we1,3	BNGF400a-we1,3
Premium Support (1Y, 3Y, 5Y)	BNGIF400a-p1,3,5	BNGF400a-p1,3,5
Malware Protection (1Y, 3Y, 5Y)	BNGIF400a-m1,3,5	BNGF400a-m1,3,5
Advanced Threat Protection (1Y, 3Y, 5Y)	BNGIF400a-a1,3,5	BNGF400a-a1,3,5
Advanced Threat and Malware Protection (1Y, 3Y, 5Y)	BNGIF400a-am1,3,5	BNGF400a-am1,3,5
Advanced Remote Access (1Y, 3Y, 5Y)	BNGIF400a-vp1,3,5	BNGF400a-vp1,3,5
Cold Spare F400	BNGIF400a-c	BNGF400a-c
Rail kit	BPNGIRAC-02	BPNGRAC-02
USB Modem 3G/UMTS	BNGIM30a	BNGM30a
USB Modem 3G/UMTS Instant Replacement (1Y, 3Y, 5Y)	BNGIM30a-h1,3,5	BNGM30a-h1,3,5
USB Modem 3G/UMTS Warranty extension (1Y, 3Y)	BNGIM30a-we1,3	BNGM30a-we1,3
USB Modem 4G/LTE	BNGIM40a	BNGM41a
USB Modem 4G/LTE Instant Replacement (1Y, 3Y, 5Y)	BNGIM40a-h1,3,5	BNGM41a-h1,3,5
USB Modem 4G/LTE Warranty extension (1Y, 3Y)	BNGIM40a-we1,3	BNGM41a-we1,3

CLOUDGEN FIREWALL F400.F20	EMEA / INTERNATIONAL	NORTH AMERICA
Barracuda CloudGen Firewall F400.F20 hardware unit	BNGIF400a.F20	BNGF400a.F20
Total Protect Subscription Bundle (1Y, 3Y, 5Y) [46]	BNGIF400a.F20-tp1,3,5	BNGF400a.F20-tp1,3,5
Total Protect PLUS Subscription Bundle (1Y, 3Y, 5Y) [47]	BNGIF400a.F20-tpp1,3,5	BNGF400a.F20-tpp1,3,5
Total Protect Hardware & Subscription Bundle (1Y, 3Y, 5Y) [48]	BNGIF400a.F20.tp1,3,5	BNGF400a.F20.tp1,3,5
Total Protect PLUS Hardware & Subscription Bundle (1Y, 3Y, 5Y) [49]	BNGIF400a.F20.tpp1,3,5	BNGF400a.F20.tpp1,3,5
Energize Updates (1Y, 3Y, 5Y)	BNGIF400a.F20-e1,3,5	BNGF400a.F20-e1,3,5
Instant Replacement (1Y, 3Y, 5Y)	BNGIF400a.F20-h1,3,5	BNGF400a.F20-h1,3,5
Warranty extension (1Y, 3Y)	BNGIF400a.F20-we1,3	BNGF400a.F20-we1,3
Premium Support (1Y, 3Y, 5Y)	BNGIF400a.F20-p1,3,5	BNGF400a.F20-p1,3,5
Malware Protection (1Y, 3Y, 5Y)	BNGIF400a.F20-m1,3,5	BNGF400a.F20-m1,3,5
Advanced Threat Protection (1Y, 3Y, 5Y)	BNGIF400a.F20-a1,3,5	BNGF400a.F20-a1,3,5
Advanced Threat and Malware Protection (1Y, 3Y, 5Y)	BNGIF400a.F20-am1,3,5	BNGF400a.F20-am1,3,5
Advanced Remote Access (1Y, 3Y, 5Y)	BNGIF400a.F20-vp1,3,5	BNGF400a.F20-vp1,3,5
Spare Power Supply	BNGIRPS1a	BNGIRPS1a
Cold Spare F400	BNGIF400a-c	BNGF400a-c
Rail kit	BPNGIRAC-02	BPNGRAC-02
USB Modem 3G/UMTS	BNGIM30a	BNGM30a
USB Modem 3G/UMTS Instant Replacement (1Y, 3Y, 5Y)	BNGIM30a-h1,3,5	BNGM30a-h1,3,5
USB Modem 3G/UMTS Warranty extension (1Y, 3Y)	BNGIM30a-we1,3	BNGM30a-we1,3
USB Modem 4G/LTE	BNGIM40a	BNGM41a
USB Modem 4G/LTE Instant Replacement (1Y, 3Y, 5Y)	BNGIM40a-h1,3,5	BNGM41a-h1,3,5
USB Modem 4G/LTE Warranty extension (1Y, 3Y)	BNGIM40a-we1,3	BNGM41a-we1,3

46 Comprising of application control, IPS, web filter, anti-spam, antivirus, 8x5 support, and Energize Updates.
47 Comprising of application control, IPS, web filter, anti-spam, Advanced Threat and Malware Protection, botnet protection, Advanced Remote Access, 8x5 support, and Energize Updates.
48 Comprising of application control, IPS, web filter, anti-spam, antivirus, 8x5 support, Energize Updates, hardware unit, and warranty extension.
49 Comprising of application control, IPS, web filter, anti-spam, Advanced Threat and Malware Protection, botnet protection, Advanced Remote Access, 24x7 enhanced support, Energize Updates, hardware unit, and Instant Replacement.

CLOUDGEN FIREWALL F600.C10	EMEA / INTERNATIONAL	NORTH AMERICA
Barracuda CloudGen Firewall F600.C10 hardware unit	BNGIF600a.C10	BNGF600a.C10
Total Protect Subscription Bundle (1Y, 3Y, 5Y)[50]	BNGIF600a.C10-tp1,3,5	BNGF600a.C10-tp1,3,5
Total Protect PLUS Subscription Bundle (1Y, 3Y, 5Y)[51]	BNGIF600a.C10-tpp1,3,5	BNGF600a.C10-tpp1,3,5
Total Protect Hardware & Subscription Bundle (1Y, 3Y, 5Y)[52]	BNGIF600a.C10.tp1,3,5	BNGF600a.C10.tp1,3,5
Total Protect PLUS Hardware & Subscription Bundle (1Y, 3Y, 5Y)[53]	BNGIF600a.C10.tpp1,3,5	BNGF600a.C10.tpp1,3,5
Energize Updates (1Y, 3Y, 5Y)	BNGIF600a.C10-e1,3,5	BNGF600a.C10-e1,3,5
Instant Replacement (1Y, 3Y, 5Y)	BNGIF600a.C10-h1,3,5	BNGF600a.C10-h1,3,5
Warranty extension (1Y, 3Y)	BNGIF600a.C10-we1,3	BNGF600a.C10-we1,3
Premium Support (1Y, 3Y, 5Y)	BNGIF600a.C10-p1,3,5	BNGF600a.C10-p1,3,5
Malware Protection (1Y, 3Y, 5Y)	BNGIF600a.C10-m1,3,5	BNGF600a.C10-m1,3,5
Advanced Threat Protection (1Y, 3Y, 5Y)	BNGIF600a.C10-a1,3,5	BNGF600a.C10-a1,3,5
Advanced Threat and Malware Protection (1Y, 3Y, 5Y)	BNGIF600a.C10-am1,3,5	BNGF600a.C10-am1,3,5
Advanced Remote Access (1Y, 3Y, 5Y)	BNGIF600a.C10-vp1,3,5	BNGF600a.C10-vp1,3,5
Cold Spare F600	BNGIF600a.C10-c	BNGF600a.C10-c
Rail kit	BPNGIRAC-02	BPNGRAC-02
USB Modem 3G/UMTS	BNGIM30a	BNGM30a
USB Modem 3G/UMTS Instant Replacement (1Y, 3Y, 5Y)	BNGIM30a-h1,3,5	BNGM30a-h1,3,5
USB Modem 3G/UMTS Warranty extension (1Y, 3Y)	BNGIM30a-we1,3	BNGM30a-we1,3
USB Modem 4G/LTE	BNGIM40a	BNGM41a
USB Modem 4G/LTE Instant Replacement (1Y, 3Y, 5Y)	BNGIM40a-h1,3,5	BNGM41a-h1,3,5
USB Modem 4G/LTE Warranty extension (1Y, 3Y)	BNGIM40a-we1,3	BNGM41a-we1,3

CLOUDGEN FIREWALL F600.C20	EMEA / INTERNATIONAL	NORTH AMERICA
Barracuda CloudGen Firewall F600.C20 hardware unit	BNGIF600a.C20	BNGF600a.C20
Total Protect Subscription Bundle (1Y, 3Y, 5Y)[50]	BNGIF600a.C20-tp1,3,5	BNGF600a.C20-tp1,3,5
Total Protect PLUS Subscription Bundle (1Y, 3Y, 5Y)[51]	BNGIF600a.C20-tpp1,3,5	BNGF600a.C20-tpp1,3,5
Total Protect Hardware & Subscription Bundle (1Y, 3Y, 5Y)[52]	BNGIF600a.C20.tp1,3,5	BNGF600a.C20.tp1,3,5
Total Protect PLUS Hardware & Subscription Bundle (1Y, 3Y, 5Y)[53]	BNGIF600a.C20.tpp1,3,5	BNGF600a.C20.tpp1,3,5
Energize Updates (1Y, 3Y, 5Y)	BNGIF600a.C20-e1,3,5	BNGF600a.C20-e1,3,5
Instant Replacement (1Y, 3Y, 5Y)	BNGIF600a.C20-h1,3,5	BNGF600a.C20-h1,3,5
Warranty extension (1Y, 3Y)	BNGIF600a.C20-we1,3	BNGF600a.C20-we1,3
Premium Support (1Y, 3Y, 5Y)	BNGIF600a.C20-p1,3,5	BNGF600a.C20-p1,3,5
Malware Protection (1Y, 3Y, 5Y)	BNGIF600a.C20-m1,3,5	BNGF600a.C20-m1,3,5
Advanced Threat Protection (1Y, 3Y, 5Y)	BNGIF600a.C20-a1,3,5	BNGF600a.C20-a1,3,5
Advanced Threat and Malware Protection (1Y, 3Y, 5Y)	BNGIF600a.C20-am1,3,5	BNGF600a.C20-am1,3,5
Advanced Remote Access (1Y, 3Y, 5Y)	BNGIF600a.C20-vp1,3,5	BNGF600a.C20-vp1,3,5
Spare Power Supply	BNGIRPS1a	BNGIRPS1a
Cold Spare F600	BNGIF600a.C20-c	BNGF600a.C20-c
Rail kit	BPNGIRAC-02	BPNGRAC-02
USB Modem 3G/UMTS	BNGIM30a	BNGM30a
USB Modem 3G/UMTS Instant Replacement (1Y, 3Y, 5Y)	BNGIM30a-h1,3,5	BNGM30a-h1,3,5
USB Modem 3G/UMTS Warranty extension (1Y, 3Y)	BNGIM30a-we1,3	BNGM30a-we1,3
USB Modem 4G/LTE	BNGIM40a	BNGM41a
USB Modem 4G/LTE Instant Replacement (1Y, 3Y, 5Y)	BNGIM40a-h1,3,5	BNGM41a-h1,3,5
USB Modem 4G/LTE Warranty extension (1Y, 3Y)	BNGIM40a-we1,3	BNGM41a-we1,3

50 Comprising of application control, IPS, web filter, anti-spam, antivirus, 8x5 support, and Energize Updates.
51 Comprising of application control, IPS, web filter, anti-spam, Advanced Threat and Malware Protection, botnet protection, Advanced Remote Access, 8x5 support, and Energize Updates.
52 Comprising of application control, IPS, web filter, anti-spam, antivirus, 8x5 support, Energize Updates, hardware unit, and warranty extension.
53 Comprising of application control, IPS, web filter, anti-spam, Advanced Threat and Malware Protection, botnet protection, Advanced Remote Access, 24x7 enhanced support, Energize Updates, hardware unit, and Instant Replacement.

CLOUDGEN FIREWALL F600.F10	EMEA / INTERNATIONAL	NORTH AMERICA
Barracuda CloudGen Firewall F600.F10 hardware unit	BNGIF600a.F10	BNGF600a.F10
Total Protect Subscription Bundle (1Y, 3Y, 5Y) [54]	BNGIF600a.F10-tp1,3,5	BNGF600a.F10-tp1,3,5
Total Protect PLUS Subscription Bundle (1Y, 3Y, 5Y) [55]	BNGIF600a.F10-tpp1,3,5	BNGF600a.F10-tpp1,3,5
Total Protect Hardware & Subscription Bundle (1Y, 3Y, 5Y) [56]	BNGIF600a.F10.tp1,3,5	BNGF600a.F10.tp1,3,5
Total Protect PLUS Hardware & Subscription Bundle (1Y, 3Y, 5Y) [57]	BNGIF600a.F10.tpp1,3,5	BNGF600a.F10.tpp1,3,5
Energize Updates (1Y, 3Y, 5Y)	BNGIF600a.F10-e1,3,5	BNGF600a.F10-e1,3,5
Instant Replacement (1Y, 3Y, 5Y)	BNGIF600a.F10-h1,3,5	BNGF600a.F10-h1,3,5
Warranty extension (1Y, 3Y)	BNGIF600a.F10-we1,3	BNGF600a.F10-we1,3
Premium Support (1Y, 3Y, 5Y)	BNGIF600a.F10-p1,3,5	BNGF600a.F10-p1,3,5
Malware Protection (1Y, 3Y, 5Y)	BNGIF600a.F10-m1,3,5	BNGF600a.F10-m1,3,5
Advanced Threat Protection (1Y, 3Y, 5Y)	BNGIF600a.F10-a1,3,5	BNGF600a.F10-a1,3,5
Advanced Threat and Malware Protection (1Y, 3Y, 5Y)	BNGIF600a.F10-am1,3,5	BNGF600a.F10-am1,3,5
Advanced Remote Access (1Y, 3Y, 5Y)	BNGIF600a.F10-vp1,3,5	BNGF600a.F10-vp1,3,5
Cold Spare F600	BNGIF600a.F10-c	BNGF600a.F10-c
Rail kit	BPNGIRAC-02	BPNGRAC-02
USB Modem 3G/UMTS	BNGIM30a	BNGM30a
USB Modem 3G/UMTS Instant Replacement (1Y, 3Y, 5Y)	BNGIM30a-h1,3,5	BNGM30a-h1,3,5
USB Modem 3G/UMTS Warranty extension (1Y, 3Y)	BNGIM30a-we1,3	BNGM30a-we1,3
USB Modem 4G/LTE	BNGIM40a	BNGM41a
USB Modem 4G/LTE Instant Replacement (1Y, 3Y, 5Y)	BNGIM40a-h1,3,5	BNGM41a-h1,3,5
USB Modem 4G/LTE Warranty extension (1Y, 3Y)	BNGIM40a-we1,3	BNGM41a-we1,3

CLOUDGEN FIREWALL F600.F20	EMEA / INTERNATIONAL	NORTH AMERICA
Barracuda CloudGen Firewall F600.F20 hardware unit	BNGIF600a.F20	BNGF600a.F20
Total Protect Subscription Bundle (1Y, 3Y, 5Y) [54]	BNGIF600a.F20-tp1,3,5	BNGF600a.F20-tp1,3,5
Total Protect PLUS Subscription Bundle (1Y, 3Y, 5Y) [55]	BNGIF600a.F20-tpp1,3,5	BNGF600a.F20-tpp1,3,5
Total Protect Hardware & Subscription Bundle (1Y, 3Y, 5Y) [56]	BNGIF600a.F20.tp1,3,5	BNGF600a.F20.tp1,3,5
Total Protect PLUS Hardware & Subscription Bundle (1Y, 3Y, 5Y) [57]	BNGIF600a.F20.tpp1,3,5	BNGF600a.F20.tpp1,3,5
Energize Updates (1Y, 3Y, 5Y)	BNGIF600a.F20-e1,3,5	BNGF600a.F20-e1,3,5
Instant Replacement (1Y, 3Y, 5Y)	BNGIF600a.F20-h1,3,5	BNGF600a.F20-h1,3,5
Warranty extension (1Y, 3Y)	BNGIF600a.F20-we1,3	BNGF600a.F20-we1,3
Premium Support (1Y, 3Y, 5Y)	BNGIF600a.F20-p1,3,5	BNGF600a.F20-p1,3,5
Malware Protection (1Y, 3Y, 5Y)	BNGIF600a.F20-m1,3,5	BNGF600a.F20-m1,3,5
Advanced Threat Protection (1Y, 3Y, 5Y)	BNGIF600a.F20-a1,3,5	BNGF600a.F20-a1,3,5
Advanced Threat and Malware Protection (1Y, 3Y, 5Y)	BNGIF600a.F20-am1,3,5	BNGF600a.F20-am1,3,5
Advanced Remote Access (1Y, 3Y, 5Y)	BNGIF600a.F20-vp1,3,5	BNGF600a.F20-vp1,3,5
Spare Power Supply	BNGIRPS1a	BNGIRPS1a
Cold Spare F600	BNGIF600a.F20-c	BNGF600a.F20-c
Rail kit	BPNGIRAC-02	BPNGRAC-02
USB Modem 3G/UMTS	BNGIM30a	BNGM30a
USB Modem 3G/UMTS Instant Replacement (1Y, 3Y, 5Y)	BNGIM30a-h1,3,5	BNGM30a-h1,3,5
USB Modem 3G/UMTS Warranty extension (1Y, 3Y)	BNGIM30a-we1,3	BNGM30a-we1,3
USB Modem 4G/LTE	BNGIM40a	BNGM41a
USB Modem 4G/LTE Instant Replacement (1Y, 3Y, 5Y)	BNGIM40a-h1,3,5	BNGM41a-h1,3,5
USB Modem 4G/LTE Warranty extension (1Y, 3Y)	BNGIM40a-we1,3	BNGM41a-we1,3

54 Comprising of application control, IPS, web filter, anti-spam, antivirus, 8x5 support, and Energize Updates.
55 Comprising of application control, IPS, web filter, anti-spam, Advanced Threat and Malware Protection, botnet protection, Advanced Remote Access, 8x5 support, and Energize Updates.
56 Comprising of application control, IPS, web filter, anti-spam, antivirus, 8x5 support, Energize Updates, hardware unit, and warranty extension.
57 Comprising of application control, IPS, web filter, anti-spam, Advanced Threat and Malware Protection, botnet protection, Advanced Remote Access, 24x7 enhanced support, Energize Updates, hardware unit, and Instant Replacement.

CLOUDGEN FIREWALL F600.E20	EMEA / INTERNATIONAL	NORTH AMERICA
Barracuda CloudGen Firewall F600.E20 hardware unit	BNGIF600a.E20	BNGF600a.E20
Total Protect Subscription Bundle (1Y, 3Y, 5Y) [58]	BNGIF600a.E20-tp1,3,5	BNGF600a.E20-tp1,3,5
Total Protect PLUS Subscription Bundle (1Y, 3Y, 5Y) [59]	BNGIF600a.E20-tpp1,3,5	BNGF600a.E20-tpp1,3,5
Total Protect Hardware & Subscription Bundle (1Y, 3Y, 5Y) [60]	BNGIF600a.E20.tp1,3,5	BNGF600a.E20.tp1,3,5
Total Protect PLUS Hardware & Subscription Bundle (1Y, 3Y, 5Y) [61]	BNGIF600a.E20.tpp1,3,5	BNGF600a.E20.tpp1,3,5
Energize Updates (1Y, 3Y, 5Y)	BNGIF600a.E20-e1,3,5	BNGF600a.E20-e1,3,5
Instant Replacement (1Y, 3Y, 5Y)	BNGIF600a.E20-h1,3,5	BNGF600a.E20-h1,3,5
Warranty extension (1Y, 3Y)	BNGIF600a.E20-we1,3	BNGF600a.E20-we1,3
Premium Support (1Y, 3Y, 5Y)	BNGIF600a.E20-p1,3,5	BNGF600a.E20-p1,3,5
Malware Protection (1Y, 3Y, 5Y)	BNGIF600a.E20-m1,3,5	BNGF600a.E20-m1,3,5
Advanced Threat Protection (1Y, 3Y, 5Y)	BNGIF600a.E20-a1,3,5	BNGF600a.E20-a1,3,5
Advanced Threat and Malware Protection (1Y, 3Y, 5Y)	BNGIF600a.E20-am1,3,5	BNGF600a.E20-am1,3,5
Advanced Remote Access (1Y, 3Y, 5Y)	BNGIF600a.E20-vp1,3,5	BNGF600a.E20-vp1,3,5
Spare Power Supply	BNGIRPS1a	BNGIRPS1a
Cold Spare F600	BNGIF600a.E20-c	BNGF600a.E20-c
Rail kit	BPNGIRAC-02	BPNGRAC-02
USB Modem 3G/UMTS	BNGIM30a	BNGM30a
USB Modem 3G/UMTS Instant Replacement (1Y, 3Y, 5Y)	BNGIM30a-h1,3,5	BNGM30a-h1,3,5
USB Modem 3G/UMTS Warranty extension (1Y, 3Y)	BNGIM30a-we1,3	BNGM30a-we1,3
USB Modem 4G/LTE	BNGIM40a	BNGM41a
USB Modem 4G/LTE Instant Replacement (1Y, 3Y, 5Y)	BNGIM40a-h1,3,5	BNGM41a-h1,3,5
USB Modem 4G/LTE Warranty extension (1Y, 3Y)	BNGIM40a-we1,3	BNGM41a-we1,3

CLOUDGEN FIREWALL F800.CCC	EMEA / INTERNATIONAL	NORTH AMERICA
Barracuda CloudGen Firewall F800.CCC hardware unit	BNGIF800a.CCC	BNGF800a.CCC
Total Protect Subscription Bundle (1Y, 3Y, 5Y) [58]	BNGIF800a.CCC-tp1,3,5	BNGF800a.CCC-tp1,3,5
Total Protect PLUS Subscription Bundle (1Y, 3Y, 5Y) [59]	BNGIF800a.CCC-tpp1,3,5	BNGF800a.CCC-tpp1,3,5
Total Protect Hardware & Subscription Bundle (1Y, 3Y, 5Y) [60]	BNGIF800a.CCC.tp1,3,5	BNGF800a.CCC.tp1,3,5
Total Protect PLUS Hardware & Subscription Bundle (1Y, 3Y, 5Y) [61]	BNGIF800a.CCC.tpp1,3,5	BNGF800a.CCC.tpp1,3,5
Energize Updates (1Y, 3Y, 5Y)	BNGIF800a.CCC-e1,3,5	BNGF800a.CCC-e1,3,5
Instant Replacement (1Y, 3Y, 5Y)	BNGIF800a.CCC-h1,3,5	BNGF800a.CCC-h1,3,5
Warranty extension (1Y, 3Y)	BNGIF800a.CCC-we1,3	BNGF800a.CCC-we1,3
Premium Support (1Y, 3Y, 5Y)	BNGIF800a.CCC-p1,3,5	BNGF800a.CCC-p1,3,5
Malware Protection (1Y, 3Y, 5Y)	BNGIF800a.CCC-m1,3,5	BNGF800a.CCC-m1,3,5
Advanced Threat Protection (1Y, 3Y, 5Y)	BNGIF800a.CCC-a1,3,5	BNGF800a.CCC-a1,3,5
Advanced Threat and Malware Protection (1Y, 3Y, 5Y)	BNGIF800a.CCC-am1,3,5	BNGF800a.CCC-am1,3,5
Advanced Remote Access (1Y, 3Y, 5Y)	BNGIF800a.CCC-vp1,3,5	BNGF800a.CCC-vp1,3,5
Spare Power Supply	BNGIRPS2a	BNGIRPS2a
Cold Spare F800	BNGIF800a.CCC-c	BNGF800a.CCC-c
Replacement / Spare Network Module 8x1GbE Copper	BNGIM806a	BNGM806a
Replacement / Spare Network Module 8x1GbE SFP	BNGIM807a	BNGM807a
Replacement / Spare Network Module 4x10GbE SFP+	BNGIM808a	BNGM808a
USB Modem 3G/UMTS	BNGIM30a	BNGM30a
USB Modem 3G/UMTS Instant Replacement (1Y, 3Y, 5Y)	BNGIM30a-h1,3,5	BNGM30a-h1,3,5
USB Modem 3G/UMTS Warranty extension (1Y, 3Y)	BNGIM30a-we1,3	BNGM30a-we1,3
USB Modem 4G/LTE	BNGIM40a	BNGM41a
USB Modem 4G/LTE Instant Replacement (1Y, 3Y, 5Y)	BNGIM40a-h1,3,5	BNGM41a-h1,3,5
USB Modem 4G/LTE Warranty extension (1Y, 3Y)	BNGIM40a-we1,3	BNGM41a-we1,3

58 Comprising of application control, IPS, web filter, anti-spam, antivirus, 8x5 support, and Energize Updates.
59 Comprising of application control, IPS, web filter, anti-spam, Advanced Threat and Malware Protection, botnet protection, Advanced Remote Access, 8x5 support, and Energize Updates.
60 Comprising of application control, IPS, web filter, anti-spam, antivirus, 8x5 support, Energize Updates, hardware unit, and warranty extension.
61 Comprising of application control, IPS, web filter, anti-spam, Advanced Threat and Malware Protection, botnet protection, Advanced Remote Access, 24x7 enhanced support, Energize Updates, hardware unit, and Instant Replacement.

CLOUDGEN FIREWALL F800.CCF	EMEA / INTERNATIONAL	NORTH AMERICA
Barracuda CloudGen Firewall F800.CCF hardware unit	BNGIF800a.CCF	BNGF800a.CCF
Total Protect Subscription Bundle (1Y, 3Y, 5Y) [62]	BNGIF800a.CCF-tp1,3,5	BNGF800a.CCF-tp1,3,5
Total Protect PLUS Subscription Bundle (1Y, 3Y, 5Y) [63]	BNGIF800a.CCF-tpp1,3,5	BNGF800a.CCF-tpp1,3,5
Total Protect Hardware & Subscription Bundle (1Y, 3Y, 5Y) [64]	BNGIF800a.CCF.tp1,3,5	BNGF800a.CCF.tp1,3,5
Total Protect PLUS Hardware & Subscription Bundle (1Y, 3Y, 5Y) [65]	BNGIF800a.CCF.tpp1,3,5	BNGF800a.CCF.tpp1,3,5
Energize Updates (1Y, 3Y, 5Y)	BNGIF800a.CCF-e1,3,5	BNGF800a.CCF-e1,3,5
Instant Replacement (1Y, 3Y, 5Y)	BNGIF800a.CCF-h1,3,5	BNGF800a.CCF-h1,3,5
Warranty extension (1Y, 3Y)	BNGIF800a.CCF-we1,3	BNGF800a.CCF-we1,3
Premium Support (1Y, 3Y, 5Y)	BNGIF800a.CCF-p1,3,5	BNGF800a.CCF-p1,3,5
Malware Protection (1Y, 3Y, 5Y)	BNGIF800a.CCF-m1,3,5	BNGF800a.CCF-m1,3,5
Advanced Threat Protection (1Y, 3Y, 5Y)	BNGIF800a.CCF-a1,3,5	BNGF800a.CCF-a1,3,5
Advanced Threat and Malware Protection (1Y, 3Y, 5Y)	BNGIF800a.CCF-am1,3,5	BNGF800a.CCF-am1,3,5
Advanced Remote Access (1Y, 3Y, 5Y)	BNGIF800a.CCF-vp1,3,5	BNGF800a.CCF-vp1,3,5
Spare Power Supply	BNGIRPS2a	BNGIRPS2a
Cold Spare F800	BNGIF800a.CCF-c	BNGF800a.CCF-c
Replacement / Spare Network Module 8x1GbE Copper	BNGIM806a	BNGM806a
Replacement / Spare Network Module 8x1GbE SFP	BNGIM807a	BNGM807a
Replacement / Spare Network Module 4x10GbE SFP+	BNGIM808a	BNGM808a
USB Modem 3G/UMTS	BNGIM30a	BNGM30a
USB Modem 3G/UMTS Instant Replacement (1Y, 3Y, 5Y)	BNGIM30a-h1,3,5	BNGM30a-h1,3,5
USB Modem 3G/UMTS Warranty extension (1Y, 3Y)	BNGIM30a-we1,3	BNGM30a-we1,3
USB Modem 4G/LTE	BNGIM40a	BNGM41a
USB Modem 4G/LTE Instant Replacement (1Y, 3Y, 5Y)	BNGIM40a-h1,3,5	BNGM41a-h1,3,5
USB Modem 4G/LTE Warranty extension (1Y, 3Y)	BNGIM40a-we1,3	BNGM41a-we1,3

CLOUDGEN FIREWALL F800.CCE	EMEA / INTERNATIONAL	NORTH AMERICA
Barracuda CloudGen Firewall F800.CCE hardware unit	BNGIF800a.CCE	BNGF800a.CCE
Total Protect Subscription Bundle (1Y, 3Y, 5Y) [62]	BNGIF800a.CCE-tp1,3,5	BNGF800a.CCE-tp1,3,5
Total Protect PLUS Subscription Bundle (1Y, 3Y, 5Y) [63]	BNGIF800a.CCE-tpp1,3,5	BNGF800a.CCE-tpp1,3,5
Total Protect Hardware & Subscription Bundle (1Y, 3Y, 5Y) [64]	BNGIF800a.CCE.tp1,3,5	BNGF800a.CCE.tp1,3,5
Total Protect PLUS Hardware & Subscription Bundle (1Y, 3Y, 5Y) [65]	BNGIF800a.CCE.tpp1,3,5	BNGF800a.CCE.tpp1,3,5
Energize Updates (1Y, 3Y, 5Y)	BNGIF800a.CCE-e1,3,5	BNGF800a.CCE-e1,3,5
Instant Replacement (1Y, 3Y, 5Y)	BNGIF800a.CCE-h1,3,5	BNGF800a.CCE-h1,3,5
Warranty extension (1Y, 3Y)	BNGIF800a.CCE-we1,3	BNGF800a.CCE-we1,3
Premium Support (1Y, 3Y, 5Y)	BNGIF800a.CCE-p1,3,5	BNGF800a.CCE-p1,3,5
Malware Protection (1Y, 3Y, 5Y)	BNGIF800a.CCE-m1,3,5	BNGF800a.CCE-m1,3,5
Advanced Threat Protection (1Y, 3Y, 5Y)	BNGIF800a.CCE-a1,3,5	BNGF800a.CCE-a1,3,5
Advanced Threat and Malware Protection (1Y, 3Y, 5Y)	BNGIF800a.CCE-am1,3,5	BNGF800a.CCE-am1,3,5
Advanced Remote Access (1Y, 3Y, 5Y)	BNGIF800a.CCE-vp1,3,5	BNGF800a.CCE-vp1,3,5
Spare Power Supply	BNGIRPS2a	BNGIRPS2a
Cold Spare F800	BNGIF800a.CCE-c	BNGF800a.CCE-c
Replacement / Spare Network Module 8x1GbE Copper	BNGIM806a	BNGM806a
Replacement / Spare Network Module 8x1GbE SFP	BNGIM807a	BNGM807a
Replacement / Spare Network Module 4x10GbE SFP+	BNGIM808a	BNGM808a
USB Modem 3G/UMTS	BNGIM30a	BNGM30a
USB Modem 3G/UMTS Instant Replacement (1Y, 3Y, 5Y)	BNGIM30a-h1,3,5	BNGM30a-h1,3,5
USB Modem 3G/UMTS Warranty extension (1Y, 3Y)	BNGIM30a-we1,3	BNGM30a-we1,3
USB Modem 4G/LTE	BNGIM40a	BNGM41a
USB Modem 4G/LTE Instant Replacement (1Y, 3Y, 5Y)	BNGIM40a-h1,3,5	BNGM41a-h1,3,5
USB Modem 4G/LTE Warranty extension (1Y, 3Y)	BNGIM40a-we1,3	BNGM41a-we1,3

62 Comprising of application control, IPS, web filter, anti-spam, antivirus, 8x5 support, and Energize Updates.
63 Comprising of application control, IPS, web filter, anti-spam, Advanced Threat and Malware Protection, botnet protection, Advanced Remote Access, 8x5 support, and Energize Updates.
64 Comprising of application control, IPS, web filter, anti-spam, antivirus, 8x5 support, Energize Updates, hardware unit, and warranty extension.
65 Comprising of application control, IPS, web filter, anti-spam, Advanced Threat and Malware Protection, botnet protection, Advanced Remote Access, 24x7 enhanced support, Energize Updates, hardware unit, and Instant Replacement.

CLOUDGEN FIREWALL F900.CCC	EMEA / INTERNATIONAL	NORTH AMERICA
Barracuda CloudGen Firewall F900.CCC hardware unit	BNGIF900a.CCC	BNGF900a.CCC
Total Protect Subscription Bundle (1Y, 3Y, 5Y) [66]	BNGIF900a.CCC-tp1,3,5	BNGF900a.CCC-tp1,3,5
Total Protect PLUS Subscription Bundle (1Y, 3Y, 5Y) [67]	BNGIF900a.CCC-tpp1,3,5	BNGF900a.CCC-tpp1,3,5
Total Protect Hardware & Subscription Bundle (1Y, 3Y, 5Y) [68]	BNGIF900a.CCC.tp1,3,5	BNGF900a.CCC.tp1,3,5
Total Protect PLUS Hardware & Subscription Bundle (1Y, 3Y, 5Y) [69]	BNGIF900a.CCC.tpp1,3,5	BNGF900a.CCC.tpp1,3,5
Energize Updates (1Y, 3Y, 5Y)	BNGIF900a.CCC-e1,3,5	BNGF900a.CCC-e1,3,5
Instant Replacement (1Y, 3Y, 5Y)	BNGIF900a.CCC-h1,3,5	BNGF900a.CCC-h1,3,5
Warranty extension (1Y, 3Y)	BNGIF900a.CCC-we1,3	BNGF900a.CCC-we1,3
Premium Support (1Y, 3Y, 5Y)	BNGIF900a.CCC-p1,3,5	BNGF900a.CCC-p1,3,5
Malware Protection (1Y, 3Y, 5Y)	BNGIF900a.CCC-m1,3,5	BNGF900a.CCC-m1,3,5
Advanced Threat Protection (1Y, 3Y, 5Y)	BNGIF900a.CCC-a1,3,5	BNGF900a.CCC-a1,3,5
Advanced Threat and Malware Protection (1Y, 3Y, 5Y)	BNGIF900a.CCC-am1,3,5	BNGF900a.CCC-am1,3,5
Advanced Remote Access (1Y, 3Y, 5Y)	BNGIF900a.CCC-vp1,3,5	BNGF900a.CCC-vp1,3,5
Spare Power Supply	BNGIRPS2a	BNGIRPS2a
Cold Spare F900	BNGIF900a.CCC-c	BNGF900a.CCC-c
Replacement / Spare Network Module 8x1GbE Copper	BNGIM806a	BNGM806a
Replacement / Spare Network Module 8x1GbE SFP	BNGIM807a	BNGM807a
Replacement / Spare Network Module 4x10GbE SFP+	BNGIM808a	BNGM808a
Replacement / Spare Network Module 2x40GbE QSFP+	BNGIM809a	BNGM809a
USB Modem 3G/UMTS	BNGIM30a	BNGM30a
USB Modem 3G/UMTS Instant Replacement (1Y, 3Y, 5Y)	BNGIM30a-h1,3,5	BNGM30a-h1,3,5
USB Modem 3G/UMTS Warranty extension (1Y, 3Y)	BNGIM30a-we1,3	BNGM30a-we1,3
USB Modem 4G/LTE	BNGIM40a	BNGM41a
USB Modem 4G/LTE Instant Replacement (1Y, 3Y, 5Y)	BNGIM40a-h1,3,5	BNGM41a-h1,3,5
USB Modem 4G/LTE Warranty extension (1Y, 3Y)	BNGIM40a-we1,3	BNGM41a-we1,3

CLOUDGEN FIREWALL F900.CCE	EMEA / INTERNATIONAL	NORTH AMERICA
Barracuda CloudGen Firewall F900.CCE hardware unit	BNGIF900a.CCE	BNGF900a.CCE
Total Protect Subscription Bundle (1Y, 3Y, 5Y) [66]	BNGIF900a.CCE-tp1,3,5	BNGF900a.CCE-tp1,3,5
Total Protect PLUS Subscription Bundle (1Y, 3Y, 5Y) [67]	BNGIF900a.CCE-tpp1,3,5	BNGF900a.CCE-tpp1,3,5
Total Protect Hardware & Subscription Bundle (1Y, 3Y, 5Y) [68]	BNGIF900a.CCE.tp1,3,5	BNGF900a.CCE.tp1,3,5
Total Protect PLUS Hardware & Subscription Bundle (1Y, 3Y, 5Y) [69]	BNGIF900a.CCE.tpp1,3,5	BNGF900a.CCE.tpp1,3,5
Energize Updates (1Y, 3Y, 5Y)	BNGIF900a.CCE-e1,3,5	BNGF900a.CCE-e1,3,5
Instant Replacement (1Y, 3Y, 5Y)	BNGIF900a.CCE-h1,3,5	BNGF900a.CCE-h1,3,5
Warranty extension (1Y, 3Y)	BNGIF900a.CCE-we1,3	BNGF900a.CCE-we1,3
Premium Support (1Y, 3Y, 5Y)	BNGIF900a.CCE-p1,3,5	BNGF900a.CCE-p1,3,5
Malware Protection (1Y, 3Y, 5Y)	BNGIF900a.CCE-m1,3,5	BNGF900a.CCE-m1,3,5
Advanced Threat Protection (1Y, 3Y, 5Y)	BNGIF900a.CCE-a1,3,5	BNGF900a.CCE-a1,3,5
Advanced Threat and Malware Protection (1Y, 3Y, 5Y)	BNGIF900a.CCE-am1,3,5	BNGF900a.CCE-am1,3,5
Advanced Remote Access (1Y, 3Y, 5Y)	BNGIF900a.CCE-vp1,3,5	BNGF900a.CCE-vp1,3,5
Spare Power Supply	BNGIRPS2a	BNGIRPS2a
Cold Spare F900	BNGIF900a.CCE-c	BNGF900a.CCE-c
Replacement / Spare Network Module 8x1GbE Copper	BNGIM806a	BNGM806a
Replacement / Spare Network Module 8x1GbE SFP	BNGIM807a	BNGM807a
Replacement / Spare Network Module 4x10GbE SFP+	BNGIM808a	BNGM808a
Replacement / Spare Network Module 2x40GbE QSFP+	BNGIM809a	BNGM809a
USB Modem 3G/UMTS	BNGIM30a	BNGM30a
USB Modem 3G/UMTS Instant Replacement (1Y, 3Y, 5Y)	BNGIM30a-h1,3,5	BNGM30a-h1,3,5
USB Modem 3G/UMTS Warranty extension (1Y, 3Y)	BNGIM30a-we1,3	BNGM30a-we1,3
USB Modem 4G/LTE	BNGIM40a	BNGM41a
USB Modem 4G/LTE Instant Replacement (1Y, 3Y, 5Y)	BNGIM40a-h1,3,5	BNGM41a-h1,3,5
USB Modem 4G/LTE Warranty extension (1Y, 3Y)	BNGIM40a-we1,3	BNGM41a-we1,3

66 Comprising of application control, IPS, web filter, anti-spam, antivirus, 8x5 support, and Energize Updates.
67 Comprising of application control, IPS, web filter, anti-spam, Advanced Threat and Malware Protection, botnet protection, Advanced Remote Access, 8x5 support, and Energize Updates.
68 Comprising of application control, IPS, web filter, anti-spam, antivirus, 8x5 support, Energize Updates, hardware unit, and warranty extension.
69 Comprising of application control, IPS, web filter, anti-spam, Advanced Threat and Malware Protection, botnet protection, Advanced Remote Access, 24x7 enhanced support, Energize Updates, hardware unit, and Instant Replacement.

CLOUDGEN FIREWALL F900.CFE	EMEA / INTERNATIONAL	NORTH AMERICA
Barracuda CloudGen Firewall F900.CFE hardware unit	BNGIF900a.CFE	BNGF900a.CFE
Total Protect Subscription Bundle (1Y, 3Y, 5Y) [70]	BNGIF900a.CFE-tp1,3,5	BNGF900a.CFE-tp1,3,5
Total Protect PLUS Subscription Bundle (1Y, 3Y, 5Y) [71]	BNGIF900a.CFE-tpp1,3,5	BNGF900a.CFE-tpp1,3,5
Total Protect Hardware & Subscription Bundle (1Y, 3Y, 5Y) [72]	BNGIF900a.CFE.tp1,3,5	BNGF900a.CFE.tp1,3,5
Total Protect PLUS Hardware & Subscription Bundle (1Y, 3Y, 5Y) [73]	BNGIF900a.CFE.tpp1,3,5	BNGF900a.CFE.tpp1,3,5
Energize Updates (1Y, 3Y, 5Y)	BNGIF900a.CFE-e1,3,5	BNGF900a.CFE-e1,3,5
Instant Replacement (1Y, 3Y, 5Y)	BNGIF900a.CFE-h1,3,5	BNGF900a.CFE-h1,3,5
Warranty extension (1Y, 3Y)	BNGIF900a.CFE-we1,3	BNGF900a.CFE-we1,3
Premium Support (1Y, 3Y, 5Y)	BNGIF900a.CFE-p1,3,5	BNGF900a.CFE-p1,3,5
Malware Protection (1Y, 3Y, 5Y)	BNGIF900a.CFE-m1,3,5	BNGF900a.CFE-m1,3,5
Advanced Threat Protection (1Y, 3Y, 5Y)	BNGIF900a.CFE-a1,3,5	BNGF900a.CFE-a1,3,5
Advanced Threat and Malware Protection (1Y, 3Y, 5Y)	BNGIF900a.CFE-am1,3,5	BNGF900a.CFE-am1,3,5
Advanced Remote Access (1Y, 3Y, 5Y)	BNGIF900a.CFE-vp1,3,5	BNGF900a.CFE-vp1,3,5
Spare Power Supply	BNGIRPS2a	BNGIRPS2a
Cold Spare F900	BNGIF900a.CFE-c	BNGF900a.CFE-c
Replacement / Spare Network Module 8x1GbE Copper	BNGIM806a	BNGM806a
Replacement / Spare Network Module 8x1GbE SFP	BNGIM807a	BNGM807a
Replacement / Spare Network Module 4x10GbE SFP+	BNGIM808a	BNGM808a
Replacement / Spare Network Module 2x40GbE QSFP+	BNGIM809a	BNGM809a
USB Modem 3G/UMTS	BNGIM30a	BNGM30a
USB Modem 3G/UMTS Instant Replacement (1Y, 3Y, 5Y)	BNGIM30a-h1,3,5	BNGM30a-h1,3,5
USB Modem 3G/UMTS Warranty extension (1Y, 3Y)	BNGIM30a-we1,3	BNGM30a-we1,3
USB Modem 4G/LTE	BNGIM40a	BNGM41a
USB Modem 4G/LTE Instant Replacement (1Y, 3Y, 5Y)	BNGIM40a-h1,3,5	BNGM41a-h1,3,5
USB Modem 4G/LTE Warranty extension (1Y, 3Y)	BNGIM40a-we1,3	BNGM41a-we1,3

CLOUDGEN FIREWALL F900.CFEQ	EMEA / INTERNATIONAL	NORTH AMERICA
Barracuda CloudGen Firewall F900.CFEQ hardware unit	BNGIF900a.CFEQ	BNGF900a.CFEQ
Total Protect Subscription Bundle (1Y, 3Y, 5Y) [70]	BNGIF900a.CFEQ-tp1,3,5	BNGF900a.CFEQ-tp1,3,5
Total Protect PLUS Subscription Bundle (1Y, 3Y, 5Y) [71]	BNGIF900a.CFEQ-tpp1,3,5	BNGF900a.CFEQ-tpp1,3,5
Total Protect Hardware & Subscription Bundle (1Y, 3Y, 5Y) [72]	BNGIF900a.CFEQ.tp1,3,5	BNGF900a.CFEQ.tp1,3,5
Total Protect PLUS Hardware & Subscription Bundle (1Y, 3Y, 5Y) [73]	BNGIF900a.CFEQ.tpp1,3,5	BNGF900a.CFEQ.tpp1,3,5
Energize Updates (1Y, 3Y, 5Y)	BNGIF900a.CFEQ-e1,3,5	BNGF900a.CFEQ-e1,3,5
Instant Replacement (1Y, 3Y, 5Y)	BNGIF900a.CFEQ-h1,3,5	BNGF900a.CFEQ-h1,3,5
Warranty extension (1Y, 3Y)	BNGIF900a.CFEQ-we1,3	BNGF900a.CFEQ-we1,3
Premium Support (1Y, 3Y, 5Y)	BNGIF900a.CFEQ-p1,3,5	BNGF900a.CFEQ-p1,3,5
Malware Protection (1Y, 3Y, 5Y)	BNGIF900a.CFEQ-m1,3,5	BNGF900a.CFEQ-m1,3,5
Advanced Threat Protection (1Y, 3Y, 5Y)	BNGIF900a.CFEQ-a1,3,5	BNGF900a.CFEQ-a1,3,5
Advanced Threat and Malware Protection (1Y, 3Y, 5Y)	BNGIF900a.CFEQ-am1,3,5	BNGF900a.CFEQ-am1,3,5
Advanced Remote Access (1Y, 3Y, 5Y)	BNGIF900a.CFEQ-vp1,3,5	BNGF900a.CFEQ-vp1,3,5
Spare Power Supply	BNGIRPS2a	BNGIRPS2a
Cold Spare F900	BNGIF900a.CFEQ-c	BNGF900a.CFEQ-c
Replacement / Spare Network Module 8x1GbE Copper	BNGIM806a	BNGM806a
Replacement / Spare Network Module 8x1GbE SFP	BNGIM807a	BNGM807a
Replacement / Spare Network Module 4x10GbE SFP+	BNGIM808a	BNGM808a
Replacement / Spare Network Module 2x40GbE QSFP+	BNGIM809a	BNGM809a
USB Modem 3G/UMTS	BNGIM30a	BNGM30a
USB Modem 3G/UMTS Instant Replacement (1Y, 3Y, 5Y)	BNGIM30a-h1,3,5	BNGM30a-h1,3,5
USB Modem 3G/UMTS Warranty extension (1Y, 3Y)	BNGIM30a-we1,3	BNGM30a-we1,3
USB Modem 4G/LTE	BNGIM40a	BNGM41a
USB Modem 4G/LTE Instant Replacement (1Y, 3Y, 5Y)	BNGIM40a-h1,3,5	BNGM41a-h1,3,5
USB Modem 4G/LTE Warranty extension (1Y, 3Y)	BNGIM40a-we1,3	BNGM41a-we1,3

70 Comprising of application control, IPS, web filter, anti-spam, antivirus, 8x5 support, and Energize Updates.
71 Comprising of application control, IPS, web filter, anti-spam, Advanced Threat and Malware Protection, botnet protection, Advanced Remote Access, 8x5 support, and Energize Updates.
72 Comprising of application control, IPS, web filter, anti-spam, antivirus, 8x5 support, Energize Updates, hardware unit, and warranty extension.
73 Comprising of application control, IPS, web filter, anti-spam, Advanced Threat and Malware Protection, botnet protection, Advanced Remote Access, 24x7 enhanced support, Energize Updates, hardware unit, and Instant Replacement.

CLOUDGEN FIREWALL F1000.CE0	EMEA / INTERNATIONAL	NORTH AMERICA
Barracuda CloudGen Firewall F1000.CE0 hardware unit	BNGIF1000a.CE0	BNGF1000a.CE0
Total Protect Subscription Bundle (1Y, 3Y, 5Y) [74]	BNGIF1000a.CE0-tp1,3,5	BNGF1000a.CE0-tp1,3,5
Total Protect PLUS Subscription Bundle (1Y, 3Y, 5Y) [75]	BNGIF1000a.CE0-tpp1,3,5	BNGF1000a.CE0-tpp1,3,5
Total Protect Hardware & Subscription Bundle (1Y, 3Y, 5Y) [76]	BNGIF1000a.CE0.tp1,3,5	BNGF1000a.CE0.tp1,3,5
Total Protect PLUS Hardware & Subscription Bundle (1Y, 3Y, 5Y) [77]	BNGIF1000a.CE0.tpp1,3,5	BNGF1000a.CE0.tpp1,3,5
Energize Updates (1Y, 3Y, 5Y)	BNGIF1000a.CE0-e1,3,5	BNGF1000a.CE0-e1,3,5
Instant Replacement (1Y, 3Y, 5Y)	BNGIF1000a.CE0-h1,3,5	BNGF1000a.CE0-h1,3,5
Warranty extension (1Y, 3Y)	BNGIF1000a.CE0-we1,3	BNGF1000a.CE0-we1,3
Premium Support (1Y, 3Y, 5Y)	BNGIF1000a.CE0-p1,3,5	BNGF1000a.CE0-p1,3,5
Malware Protection (1Y, 3Y, 5Y)	BNGIF1000a.CE0-m1,3,5	BNGF1000a.CE0-m1,3,5
Advanced Threat Protection (1Y, 3Y, 5Y)	BNGIF1000a.CE0-a1,3,5	BNGF1000a.CE0-a1,3,5
Advanced Threat and Malware Protection (1Y, 3Y, 5Y)	BNGIF1000a.CE0-am1,3,5	BNGF1000a.CE0-am1,3,5
Advanced Remote Access (1Y, 3Y, 5Y)	BNGIF1000a.CE0-vp1,3,5	BNGF1000a.CE0-vp1,3,5
Maintenance Kit	BPNGIKITF1000	BPNGKITF1000
Cold Spare F1000	BNGIF1000a.CE0-c	BNGF1000a.CE0-c
Replacement / Spare Network Module 16x1GbE Copper	BNGIM1001a	BNGM1001a
Replacement / Spare Network Module 16x1GbE SFP	BNGIM1002a	BNGM1002a
Replacement / Spare Network Module 4x10GbE SFP+	BNGIM1003a	BNGM1003a
Rail kit	BPNGRAC-04	BPNGRAC-04
USB Modem 3G/UMTS	BNGIM30a	BNGM30a
USB Modem 3G/UMTS Instant Replacement (1Y, 3Y, 5Y)	BNGIM30a-h1,3,5	BNGM30a-h1,3,5
USB Modem 3G/UMTS Warranty extension (1Y, 3Y)	BNGIM30a-we1,3	BNGM30a-we1,3
USB Modem 4G/LTE	BNGIM40a	BNGM41a
USB Modem 4G/LTE Instant Replacement (1Y, 3Y, 5Y)	BNGIM40a-h1,3,5	BNGM41a-h1,3,5
USB Modem 4G/LTE Warranty extension (1Y, 3Y)	BNGIM40a-we1,3	BNGM41a-we1,3

CLOUDGEN FIREWALL F1000.CFE	EMEA / INTERNATIONAL	NORTH AMERICA
Barracuda CloudGen Firewall F1000.CFE hardware unit	BNGIF1000a.CFE	BNGF1000a.CFE
Total Protect Subscription Bundle (1Y, 3Y, 5Y) [74]	BNGIF1000a.CFE-tp1,3,5	BNGF1000a.CFE-tp1,3,5
Total Protect PLUS Subscription Bundle (1Y, 3Y, 5Y) [75]	BNGIF1000a.CFE-tpp1,3,5	BNGF1000a.CFE-tpp1,3,5
Total Protect Hardware & Subscription Bundle (1Y, 3Y, 5Y) [76]	BNGIF1000a.CFE.tp1,3,5	BNGF1000a.CFE.tp1,3,5
Total Protect PLUS Hardware & Subscription Bundle (1Y, 3Y, 5Y) [77]	BNGIF1000a.CFE.tpp1,3,5	BNGF1000a.CFE.tpp1,3,5
Energize Updates (1Y, 3Y, 5Y)	BNGIF1000a.CFE-e1,3,5	BNGF1000a.CFE-e1,3,5
Instant Replacement (1Y, 3Y, 5Y)	BNGIF1000a.CFE-h1,3,5	BNGF1000a.CFE-h1,3,5
Warranty extension (1Y, 3Y)	BNGIF1000a.CFE-we1,3	BNGF1000a.CFE-we1,3
Premium Support (1Y, 3Y, 5Y)	BNGIF1000a.CFE-p1,3,5	BNGF1000a.CFE-p1,3,5
Malware Protection (1Y, 3Y, 5Y)	BNGIF1000a.CFE-m1,3,5	BNGF1000a.CFE-m1,3,5
Advanced Threat Protection (1Y, 3Y, 5Y)	BNGIF1000a.CFE-a1,3,5	BNGF1000a.CFE-a1,3,5
Advanced Threat and Malware Protection (1Y, 3Y, 5Y)	BNGIF1000a.CFE-am1,3,5	BNGF1000a.CFE-am1,3,5
Advanced Remote Access (1Y, 3Y, 5Y)	BNGIF1000a.CFE-vp1,3,5	BNGF1000a.CFE-vp1,3,5
Maintenance Kit	BPNGIKITF1000	BPNGKITF1000
Cold Spare F1000	BNGIF1000a.CFE-c	BNGF1000a.CFE-c
Replacement / Spare Network Module 16x1GbE Copper	BNGIM1001a	BNGM1001a
Replacement / Spare Network Module 16x1GbE SFP	BNGIM1002a	BNGM1002a
Replacement / Spare Network Module 4x10GbE SFP+	BNGIM1003a	BNGM1003a
Rail kit	BPNGRAC-04	BPNGRAC-04
USB Modem 3G/UMTS	BNGIM30a	BNGM30a
USB Modem 3G/UMTS Instant Replacement (1Y, 3Y, 5Y)	BNGIM30a-h1,3,5	BNGM30a-h1,3,5
USB Modem 3G/UMTS Warranty extension (1Y, 3Y)	BNGIM30a-we1,3	BNGM30a-we1,3
USB Modem 4G/LTE	BNGIM40a	BNGM41a
USB Modem 4G/LTE Instant Replacement (1Y, 3Y, 5Y)	BNGIM40a-h1,3,5	BNGM41a-h1,3,5
USB Modem 4G/LTE Warranty extension (1Y, 3Y)	BNGIM40a-we1,3	BNGM41a-we1,3

74 Comprising of application control, IPS, web filter, anti-spam, antivirus, 8x5 support, and Energize Updates.
75 Comprising of application control, IPS, web filter, anti-spam, Advanced Threat and Malware Protection, botnet protection, Advanced Remote Access, 8x5 support, and Energize Updates.
76 Comprising of application control, IPS, web filter, anti-spam, antivirus, 8x5 support, Energize Updates, hardware unit, and warranty extension.
77 Comprising of application control, IPS, web filter, anti-spam, Advanced Threat and Malware Protection, botnet protection, Advanced Remote Access, 24x7 enhanced support, Energize Updates, hardware unit, and Instant Replacement.

CLOUDGEN FIREWALL F1000.CFEQ	EMEA / INTERNATIONAL	NORTH AMERICA
Barracuda CloudGen Firewall F1000.CFEQ hardware unit	BNGIF1000a.CFEQ	BNGF1000a.CFEQ
Total Protect Subscription Bundle (1Y, 3Y, 5Y) [78]	BNGIF1000a.CFEQ-tp1,3,5	BNGF1000a.CFEQ-tp1,3,5
Total Protect PLUS Subscription Bundle (1Y, 3Y, 5Y) [79]	BNGIF1000a.CFEQ-tpp1,3,5	BNGF1000a.CFEQ-tpp1,3,5
Total Protect Hardware & Subscription Bundle (1Y, 3Y, 5Y) [80]	BNGIF1000a.CFEQ.tp1,3,5	BNGF1000a.CFEQ.tp1,3,5
Total Protect PLUS Hardware & Subscription Bundle (1Y, 3Y, 5Y) [81]	BNGIF1000a.CFEQ.tpp1,3,5	BNGF1000a.CFEQ.tpp1,3,5
Energize Updates (1Y, 3Y, 5Y)	BNGIF1000a.CFEQ-e1,3,5	BNGF1000a.CFEQ-e1,3,5
Instant Replacement (1Y, 3Y, 5Y)	BNGIF1000a.CFEQ-h1,3,5	BNGF1000a.CFEQ-h1,3,5
Warranty extension (1Y, 3Y)	BNGIF1000a.CFEQ-we1,3	BNGF1000a.CFEQ-we1,3
Premium Support (1Y, 3Y, 5Y)	BNGIF1000a.CFEQ-p1,3,5	BNGF1000a.CFEQ-p1,3,5
Malware Protection (1Y, 3Y, 5Y)	BNGIF1000a.CFEQ-m1,3,5	BNGF1000a.CFEQ-m1,3,5
Advanced Threat Protection (1Y, 3Y, 5Y)	BNGIF1000a.CFEQ-a1,3,5	BNGF1000a.CFEQ-a1,3,5
Advanced Threat and Malware Protection (1Y, 3Y, 5Y)	BNGIF1000a.CFEQ-am1,3,5	BNGF1000a.CFEQ-am1,3,5
Advanced Remote Access (1Y, 3Y, 5Y)	BNGIF1000a.CFEQ-vp1,3,5	BNGF1000a.CFEQ-vp1,3,5
Maintenance Kit	BPNGIKITF1000	BPNGKITF1000
Cold Spare F1000	BNGIF1000a.CFEQ-c	BNGF1000a.CFEQ-c
Replacement / Spare Network Module 16x1GbE Copper	BNGIM1001a	BNGM1001a
Replacement / Spare Network Module 16x1GbE SFP	BNGIM1002a	BNGM1002a
Replacement / Spare Network Module 4x10GbE SFP+	BNGIM1003a	BNGM1003a
Replacement / Spare Network Module 4x40GbE QSFP	BNGIM1004a	BNGM1004a
Rail kit	BPNGRAC-04	BPNGRAC-04
USB Modem 3G/UMTS	BNGIM30a	BNGM30a
USB Modem 3G/UMTS Instant Replacement (1Y, 3Y, 5Y)	BNGIM30a-h1,3,5	BNGM30a-h1,3,5
USB Modem 3G/UMTS Warranty extension (1Y, 3Y)	BNGIM30a-we1,3	BNGM30a-we1,3
USB Modem 4G/LTE	BNGIM40a	BNGM41a
USB Modem 4G/LTE Instant Replacement (1Y, 3Y, 5Y)	BNGIM40a-h1,3,5	BNGM41a-h1,3,5
USB Modem 4G/LTE Warranty extension (1Y, 3Y)	BNGIM40a-we1,3	BNGM41a-we1,3

Virtual Appliances

BARRACUDA CLOUDGEN FIREWALL VX	EMEA / INTERNATIONAL	NORTH AMERICA
Barracuda CloudGen Firewall VF10, VF25, VF50, VF100, VF250, VF500, VF1000, VF2000, VF4000, VF8000	BNGIVF10a,....BNGIVF8000a	BNGVF10a,....BNGVF8000a
Energize Updates (1Y, 3Y, 5Y)	BNGIVF<user>-e<sub duration>, e.g., BNGIVF25a-e1	BNGVF<user>-e<sub duration>, e.g., BNGVF25a-e1
Premium Support (1Y, 3Y, 5Y)	BNGIVF<user>-p<sub duration>, e.g., BNGIVF25a-p1	BNGVF<user>-p<sub duration>, e.g., BNGVF25a-p1
Malware Protection (1Y, 3Y, 5Y)	BNGIVF<user>-m<sub duration>, e.g., BNGIVF25a-m1	BNGVF<user>-m<sub duration>, e.g., BNGVF25a-m1
Advanced Threat Protection (1Y, 3Y, 5Y)	BNGIVF<user>-a<sub duration>, e.g., BNGIVF25a-a1	BNGVF<user>-a<sub duration>, e.g., BNGVF25a-a1
Advanced Threat and Malware Protection (1Y, 3Y, 5Y)	BNGIVF<user>-am<sub duration>, e.g., BNGIVF25a-am1	BNGVF<user>-am<sub duration>, e.g., BNGVF25a-am1
Advanced Remote Access (1Y, 3Y, 5Y)	BNGIVF<user>-vp<sub duration>, e.g., BNGIVF25a-vp1	BNGVF<user>-vp<sub duration>, e.g., BNGVF25a-vp1

78 Comprising of application control, IPS, web filter, anti-spam, antivirus, 8x5 support, and Energize Updates.
79 Comprising of application control, IPS, web filter, anti-spam, Advanced Threat and Malware Protection, botnet protection, Advanced Remote Access, 8x5 support, and Energize Updates.
80 Comprising of application control, IPS, web filter, anti-spam, antivirus, 8x5 support, Energize Updates, hardware unit, and warranty extension.
81 Comprising of application control, IPS, web filter, anti-spam, Advanced Threat and Malware Protection, botnet protection, Advanced Remote Access, 24x7 enhanced support, Energize Updates, hardware unit, and Instant Replacement.

Amazon Web Services (AWS)

FOR AMAZON WEB SERVICE ACCOUNT LEVEL 2	EMEA / INTERNATIONAL	NORTH AMERICA
Barracuda CloudGen Firewall for Amazon Web Service Account Level 2	BNGICAW002a	BNGCAW002a
Malware Protection (1Y, 3Y, 5Y)	BNGICAW002a-m1,3,5	BNGCAW002a-m1,3,5
Advanced Threat Protection (1Y, 3Y, 5Y)	BNGICAW002a-a1,3,5	BNGCAW002a-a1,3,5
Advanced Threat and Malware Protection (1Y, 3Y, 5Y)	BNGICAW002a-am1,3,5	BNGCAW002a-am1,3,5
Advanced Remote Access (1Y, 3Y, 5Y)	BNGICAW002a-vp1,3,5	BNGCAW002a-vp1,3,5
Premium Support (1Y, 3Y, 5Y)	BNGICAW002a-p1,3,5	BNGCAW002a-p1,3,5

FOR AMAZON WEB SERVICE ACCOUNT LEVEL 4	EMEA / INTERNATIONAL	NORTH AMERICA
Barracuda CloudGen Firewall for Amazon Web Service Account Level 4	BNGICAW004a	BNGCAW004a
Malware Protection (1Y, 3Y, 5Y)	BNGICAW004a-m1,3,5	BNGCAW004a-m1,3,5
Advanced Threat Protection (1Y, 3Y, 5Y)	BNGICAW004a-a1,3,5	BNGCAW004a-a1,3,5
Advanced Threat and Malware Protection (1Y, 3Y, 5Y)	BNGICAW004a-am1,3,5	BNGCAW004a-am1,3,5
Advanced Remote Access (1Y, 3Y, 5Y)	BNGICAW004a-vp1,3,5	BNGCAW004a-vp1,3,5
Premium Support (1Y, 3Y, 5Y)	BNGICAW004a-p1,3,5	BNGCAW004a-p1,3,5

FOR AMAZON WEB SERVICE ACCOUNT LEVEL 6	EMEA / INTERNATIONAL	NORTH AMERICA
Barracuda CloudGen Firewall for Amazon Web Service Account Level 6	BNGICAW006a	BNGCAW006a
Malware Protection (1Y, 3Y, 5Y)	BNGICAW006a-m1,3,5	BNGCAW006a-m1,3,5
Advanced Threat Protection (1Y, 3Y, 5Y)	BNGICAW006a-a1,3,5	BNGCAW006a-a1,3,5
Advanced Threat and Malware Protection (1Y, 3Y, 5Y)	BNGICAW006a-am1,3,5	BNGCAW006a-am1,3,5
Advanced Remote Access (1Y, 3Y, 5Y)	BNGICAW006a-vp1,3,5	BNGCAW006a-vp1,3,5
Premium Support (1Y, 3Y, 5Y)	BNGICAW006a-p1,3,5	BNGCAW006a-p1,3,5

FOR AMAZON WEB SERVICE ACCOUNT LEVEL 8	EMEA / INTERNATIONAL	NORTH AMERICA
Barracuda CloudGen Firewall for Amazon Web Service Account Level 8	BNGICAW008a	BNGCAW008a
Malware Protection (1Y, 3Y, 5Y)	BNGICAW008a-m1,3,5	BNGCAW008a-m1,3,5
Advanced Threat Protection (1Y, 3Y, 5Y)	BNGICAW008a-a1,3,5	BNGCAW008a-a1,3,5
Advanced Threat and Malware Protection (1Y, 3Y, 5Y)	BNGICAW008a-am1,3,5	BNGCAW008a-am1,3,5
Advanced Remote Access (1Y, 3Y, 5Y)	BNGICAW008a-vp1,3,5	BNGCAW008a-vp1,3,5
Premium Support (1Y, 3Y, 5Y)	BNGICAW008a-p1,3,5	BNGCAW008a-p1,3,5

Microsoft Azure

FOR MICROSOFT AZURE ACCOUNT LEVEL 2	EMEA / INTERNATIONAL	NORTH AMERICA
Barracuda CloudGen Firewall for Microsoft Azure Account Level 2	BNGICAZ002a	BNGCAZ002a
Malware Protection (1Y, 3Y, 5Y)	BNGICAZ002a-m1,3,5	BNGCAZ002a-m1,3,5
Advanced Threat Protection (1Y, 3Y, 5Y)	BNGICAZ002a-a1,3,5	BNGCAZ002a-a1,3,5
Advanced Threat and Malware Protection (1Y, 3Y, 5Y)	BNGICAZ002a-am1,3,5	BNGCAZ002a-am1,3,5
Advanced Remote Access (1Y, 3Y, 5Y)	BNGICAZ002a-vp1,3,5	BNGCAZ002a-vp1,3,5
Premium Support (1Y, 3Y, 5Y)	BNGICAZ002a-p1,3,5	BNGCAZ002a-p1,3,5

FOR MICROSOFT AZURE ACCOUNT LEVEL 4	EMEA / INTERNATIONAL	NORTH AMERICA
Barracuda CloudGen Firewall for Microsoft Azure Account Level 4	BNGICAZ004a	BNGICAZ004a
Malware Protection (1Y, 3Y, 5Y)	BNGICAZ004a-m1,3,5	BNGCAZ004a-m1,3,5
Advanced Threat Protection (1Y, 3Y, 5Y)	BNGICAZ004a-a1,3,5	BNGICAZ004a-a1,3,5
Advanced Threat and Malware Protection (1Y, 3Y, 5Y)	BNGICAZ004a-am1,3,5	BNGCAZ004a-am1,3,5
Advanced Remote Access (1Y, 3Y, 5Y)	BNGICAZ004a-vp1,3,5	BNGCAZ004a-vp1,3,5
Premium Support (1Y, 3Y, 5Y)	BNGICAZ004a-p1,3,5	BNGCAZ004a-p1,3,5

FOR MICROSOFT AZURE ACCOUNT LEVEL 6	EMEA / INTERNATIONAL	NORTH AMERICA
Barracuda CloudGen Firewall for Microsoft Azure Account Level 6	BNGICAZ006a	BNGCAZ006a
Malware Protection (1Y, 3Y, 5Y)	BNGICAZ006a-m1,3,5	BNGCAZ006a-m1,3,5
Advanced Threat Protection (1Y, 3Y, 5Y)	BNGICAZ006a-a1,3,5	BNGCAZ006a-a1,3,5
Advanced Threat and Malware Protection (1Y, 3Y, 5Y)	BNGICAZ006a-am1,3,5	BNGCAZ006a-am1,3,5
Advanced Remote Access (1Y, 3Y, 5Y)	BNGICAZ006a-vp1,3,5	BNGCAZ006a-vp1,3,5
Premium Support (1Y, 3Y, 5Y)	BNGICAZ006a-p1,3,5	BNGCAZ006a-p1,3,5

FOR MICROSOFT AZURE ACCOUNT LEVEL 8	EMEA / INTERNATIONAL	NORTH AMERICA
Barracuda CloudGen Firewall for Microsoft Azure Account Level 8	BNGICAZ008a	BNGCAZ008a
Malware Protection (1Y, 3Y, 5Y)	BNGICAZ008a-m1,3,5	BNGCAZ008a-m1,3,5
Advanced Threat Protection (1Y, 3Y, 5Y)	BNGICAZ008a-a1,3,5	BNGCAZ008a-a1,3,5
Advanced Threat and Malware Protection (1Y, 3Y, 5Y)	BNGICAZ008a-am1,3,5	BNGCAZ008a-am1,3,5
Advanced Remote Access (1Y, 3Y, 5Y)	BNGICAZ008a-vp1,3,5	BNGCAZ008a-vp1,3,5
Premium Support (1Y, 3Y, 5Y)	BNGICAZ008a-p1,3,5	BNGCAZ008a-p1,3,5

Google Cloud Platform

FOR GOOGLE CLOUD - LEVEL 2	EMEA / INTERNATIONAL	NORTH AMERICA
Barracuda CloudGen Firewall for Google Cloud - Level 2	BNGICLD002a	BNGCLD002a
Malware Protection (1Y, 3Y, 5Y)	BNGICLD002a-m1,3,5	BNGCLD002a-m1,3,5
Advanced Threat Protection (1Y, 3Y, 5Y)	BNGICLD002a-a1,3,5	BNGCLD002a-a1,3,5
Advanced Threat and Malware Protection (1Y, 3Y, 5Y)	BNGICLD002a-am1,3,5	BNGCLD002a-am1,3,5
Advanced Remote Access (1Y, 3Y, 5Y)	BNGICLD002a-vp1,3,5	BNGCLD002a-vp1,3,5
Premium Support (1Y, 3Y, 5Y)	BNGICLD002a-p1,3,5	BNGCLD002a-p1,3,5

FOR GOOGLE CLOUD - LEVEL 4	EMEA / INTERNATIONAL	NORTH AMERICA
Barracuda CloudGen Firewall for Google Cloud - Level 4	BNGICLD004a	BNGCLD004a
Malware Protection (1Y, 3Y, 5Y)	BNGICLD004a-m1,3,5	BNGCLD004a-m1,3,5
Advanced Threat Protection (1Y, 3Y, 5Y)	BNGICLD004a-a1,3,5	BNGCLD004a-a1,3,5
Advanced Threat and Malware Protection (1Y, 3Y, 5Y)	BNGICLD004a-am1,3,5	BNGCLD004a-am1,3,5
Advanced Remote Access (1Y, 3Y, 5Y)	BNGICLD004a-vp1,3,5	BNGCLD004a-vp1,3,5
Premium Support (1Y, 3Y, 5Y)	BNGICLD004a-p1,3,5	BNGCLD004a-p1,3,5

FOR GOOGLE CLOUD - LEVEL 6	EMEA / INTERNATIONAL	NORTH AMERICA
Barracuda CloudGen Firewall for Google Cloud - Level 6	BNGICLD006a	BNGCLD006a
Malware Protection (1Y, 3Y, 5Y)	BNGICLD006a-m1,3,5	BNGCLD006a-m1,3,5
Advanced Threat Protection (1Y, 3Y, 5Y)	BNGICLD006a-a1,3,5	BNGCLD006a-a1,3,5
Advanced Threat and Malware Protection (1Y, 3Y, 5Y)	BNGICLD006a-am1,3,5	BNGCLD006a-am1,3,5
Advanced Remote Access (1Y, 3Y, 5Y)	BNGICLD006a-vp1,3,5	BNGCLD006a-vp1,3,5
Premium Support (1Y, 3Y, 5Y)	BNGICLD006a-p1,3,5	BNGCLD006a-p1,3,5

FOR GOOGLE CLOUD - LEVEL 8	EMEA / INTERNATIONAL	NORTH AMERICA
Barracuda CloudGen Firewall for Google Cloud - Level 8	BNGICLD008a	BNGCLD008a
Malware Protection (1Y, 3Y, 5Y)	BNGICLD008a-m1,3,5	BNGCLD008a-m1,3,5
Advanced Threat Protection (1Y, 3Y, 5Y)	BNGICLD008a-a1,3,5	BNGCLD008a-a1,3,5
Advanced Threat and Malware Protection (1Y, 3Y, 5Y)	BNGICLD008a-am1,3,5	BNGCLD008a-am1,3,5
Advanced Remote Access (1Y, 3Y, 5Y)	BNGICLD008a-vp1,3,5	BNGCLD008a-vp1,3,5
Premium Support (1Y, 3Y, 5Y)	BNGICLD008a-p1,3,5	BNGCLD008a-p1,3,5

Barracuda Firewall Control Center

Virtual Edition

FIREWALL CONTROL CENTER VC400	EMEA / INTERNATIONAL	NORTH AMERICA
Barracuda Firewall 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

FIREWALL CONTROL CENTER VC610	EMEA / INTERNATIONAL	NORTH AMERICA
Barracuda Firewall 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

FIREWALL CONTROL CENTER VC820	EMEA / INTERNATIONAL	NORTH AMERICA
Barracuda Firewall 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 Firewall Control Center VC820 (monthly)	BNCI-b1	BNC-b1

Microsoft Azure

FIREWALL CONTROL CENTER VCC400	EMEA / INTERNATIONAL	NORTH AMERICA
Barracuda Firewall Control Center VCC400 - Standard Edition	BNCICAZ400a	BNCCAZ400a
Premium Support (1Y, 3Y, 5Y)	BNCICAZ400a-p1,3,5	BNCCAZ400a-p1,3,5

FIREWALL CONTROL CENTER VCC610	EMEA / INTERNATIONAL	NORTH AMERICA
Barracuda Firewall Control Center VCC610 - Enterprise Edition	BNCICAZ610a	BNCCAZ610a
Premium Support (1Y, 3Y, 5Y)	BNCICAZ610a-p1,3,5	BNCCAZ610a-p1,3,5

Amazon Web Services (AWS)

FIREWALL CONTROL CENTER VCC400	EMEA / INTERNATIONAL	NORTH AMERICA
Barracuda Firewall Control Center VCC400 - Standard Edition	BNCICAW400a	BNCCAW400a
Premium Support (1Y, 3Y, 5Y)	BNCICAW400a-p1,3,5	BNCCAW400a-p1,3,5

FIREWALL CONTROL CENTER VCC610	EMEA / INTERNATIONAL	NORTH AMERICA
Barracuda Firewall Control Center VCC610 - Enterprise Edition	BNCICAW610a	BNCCAW610a
Premium Support (1Y, 3Y, 5Y)	BNCICAW610a-p1,3,5	BNCCAW610a-p1,3,5

Google Cloud Platform (GCP)

FIREWALL CONTROL CENTER VCC400	EMEA / INTERNATIONAL	NORTH AMERICA
Barracuda Firewall Control Center VCC400 - Standard Edition	BNCICLD400a	BNCCLD400a
Premium Support (1Y, 3Y, 5Y)	BNCICLD400a-p1,3,5	BNCCLD400a-p1,3,5

FIREWALL CONTROL CENTER VCC610	EMEA / INTERNATIONAL	NORTH AMERICA
Barracuda Firewall Control Center VCC610 - Enterprise Edition	BNCICLD610a	BNCCLD610a
Premium Support (1Y, 3Y, 5Y)	BNCICLD610a-p1,3,5	BNCCLD610a-p1,3,5

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Document version 2.0
Applies for firmware version 7.2.x

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