

Purpose-Built Appliance Platforms

Optimized for Forefront Security Services Delivery

- Enterprise class hardware for optimum performance and reliability
 SNMP based real-time system environment and health monitoring
- Remote lights out management and call-home functionality
- · Easy field maintenance via automated Pit Online recovery, restore and factory reset
- Worldwide Hardware Support Services



Forefront Optimized Appliance Platform Feature Guide

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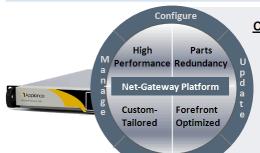
Integrated service and support plans for Forefront powered security appliances



Net-Gateway Appliance Platform Overview

Forefront Optimized "Turn-Key" Appliance Solution

nAppliance Forefront appliances are purpose-built, high performance hardware devices integrated with nAppliance designed Oneface system management tools and Microsoft Forefront Edge Security Software Solutions.



Recover

Oneface® Appliance Management System

Embedded Recovery Manager

Embedded Lights-Out Manager

Embedded LCD Manager

Integrated Windows System Manager

- HA and Fail-Over
- Backup/Snapshot
- Security Manager
- · Component Manager
- Update Manager
- Configuration Manager
- SNMP Agents

Forefront Optimized

"Turn-Key" Appliance Platform

nAppliance Forefront appliance platforms are purpose-built, high performance hardware devices integrated with nAppliance designed Oneface system management tools and Microsoft Forefront Edge Security Software

Solutions.

Security Hardened Appliance Platforms for Microsoft Forefront Network Edge Solution Delivery

Our Net-Gateway appliance platforms for Microsoft Forefront Security solutions are designed for organizations that want an integrated leading edge hardware, security and software service offering from Microsoft on an optimized hardware platform. These platforms offer best-of-breed Microsoft Forefront Edge security packaged with nAppliance's, security hardened system, performance tuned platform, value added OneFace technology, and world-class support.

nAppliance powered system and hardware management software provides a complete integrated solution for Microsoft Forefront Threat Management Gateway (TMG) and Unified Access Gateway (UAG) and Direct Access (DA) edge security software suites. We have net Gateway models that can be deployed either as standalone units, or as fully redundant, highly available arrays. Our standard business edition appliances are deployed as a standalone device and enterprise edition appliances can be deployed as a standalone device or high-availability (HA) devices with network load balancing (NLB) in a large clustered array for optimal service resiliency.

Purpose-Built for Optimum Performance and System Reliability

nAppliance offers a wide range of hardware configurations, each of the models are pre-configured with most optimized hardware components and system management tools to meet our customers unique business requirements. Configurations are fine tuned to deliver various levels of system performance, capacity, scalability and availability required to meet the requirements of small to large size business, small to large size enterprise and branch offices.

nAppliance platforms running Microsoft Forefront Edge Security systems provide the security and management benefits of special purpose hardware products, and provide the familiar management interfaces of other Microsoft technologies. Security appliances often have special purpose hardware specific to network security. Appliance products running Microsoft Embedded Edge Security technologies have the following unique advantages:

The Net-Gateway Platform Appliance Advantage

Each security appliance has various software and hardware components installed and integrated. This configuration is then carefully tuned and hardened to maximize the security posture of each system. This hardening is exhaustive, costly and difficult to provide in general IT hardware and software only implementations, but imperative on edge security devices.

nAppliance has the lowest total cost of ownership as compared to traditional software alternatives. The nAppliance appliance based architecture eliminates many of the costs of traditional systems management including software and hardware



procurement, installation, off-site training, and the resources required for ongoing upgrades, system maintenance and technical support. Our appliance advantage offers security hardened configurations for smooth "Out-Of-the-Box" experience.

nAppliance Forefront Powered Appliance Platform Advantage

Microsoft Forefront Edge Security Software Optimized Platforms

Oneface Windows System Manager

- Centralized management system.
- Backup Manager, Update Manager, HW Fail-Over Manager, Configuration and Alert Manager
- SNMP based real-time system enviornment and health monitoring

Packaged Microsoft Forefront Edge Security Suite

- Platform Optimization: Pre-installed, pre-tested and certified.
- Security Audit: Pre-hardened security policies
- Microsoft Embedded Windows Server 2008 R2 and Forefront Gateway Security Optimized

Reliable, Non-Stop System Availability

- Enterprise Grade, higher MTBF Parts
- Redundant Disks, Fans and PS
- Redundant OS Image on Disk
- Remote Lights-Out (LOM) based Out-of-Band management
- Flash based Embedded ARRMS technology for bare-metal recovery
- Standalone or HA/NLB configurations

Oneface Embedded Recovery Manager

- nAppliance designed Appliance Recovery and Remote Managment System (ARRMS) technology
- Failure-proof in-field hardware image maintenance services for easy appliance PiT Online Recovery, Backup, Restore and Factory Reset



Scalable, High Performance Hardware

Built Appliance Hardware Platforms

Net-Gateway - Purpose

- Multi-Core 64-bit architecture
- Large LAN port density, higher throughput and redundancy
- SSL HW Accelerator, 100% CPU Offload
- HSM Certified HW and Management
- High capacity, Enterprise performance, Redundant SATA and SAS disks

Oneface Embedded LOM Manager

Remote Appliance HW Management

Lights-Out iKVM (IPMI) support for BIOS level access using standard web browser over internet

Oneface Embedded LCD Manager

deploymnet and field-

maintenance

Graphical LCD for easy headless

Appliance Support, Services and Accountability

- Help Desk Options include Silver, Gold and Platinum 24x7 Support Plans
- Forefront certified expert support via web, email and phone
- Advance Hardware Replacement
- Microsoft Forefront OEM Partnership
- Support service centers in USA, Europe & Asia

Custom-Tailored , Multiple Configurations

- Entery Level: Model -500 provides low cost small business solution
- Business Class: Model-1500 and 2500 provide entry level SMB or small enterprise or branch office solutions
- Enterprise: Model-3500 and 5500 are best suited for large enterprise and branch offices

Worldwide Support Coverage - Forefront TMG and UAG Sales, Help Desk and Warranty Services

nAppliance delivers Integrated "Turnkey" Appliance Solutions:

nAppliance Networks, an ISO 9001:2000 company, is a provider of mission critical network edge security infrastructure solutions. Unlike alternatives that are simply based on proprietary or general-purpose server hardware, our appliances are designed for highest reliability, optimized for maximum performance, and manufactured to exact quality specifications. You can trust nAppliance Net-Gateway appliances to deliver the most reliable and comprehensive Forefront solutions.

Oneface System Managment Tools



Net-Gateway Appliance Platform Key Features & Benefits

nAppliance Net-Gateway Hardware Platform Key Features and Benefits:

The nAppliance Net-Gateway appliance family supports a wide range of models, each of the models are right-sized to meet the unique business requirements of our customers. Our appliances deliver the performance, capacity, and availability required in each environment; from the smallest branch office, to the largest enterprise datacenter, including:

- Multi-Core 64-bit architecture for high-performance network security: nAppliance platform design includes multi-core x86 architecture, high-speed processor cache, larger memory and multi lane PCIe bandwidth, designs for maximized performance, scalability and reduced power consumption. This provides accelerated deep packet inspection and content protection against ever evolving complex attack in real time from both inside and outside the network perimeter.
- Enterprise grade high availability: nAppliance solutions take system fault tolerance and failover to a new level for core network security service appliances. Our appliances offer:
 - Hardware availability thru components level redundancy of disks, power supplies and fans.
 - Windows operating system availability through system image redundancy and online PiT snapshot recovery system.
 - Network level system availability thru network load balancing and fail-over systems.
- **High copper and fiber network port density:** The high port-density Gigabit Ethernet interfaces provide the performance and operational flexibility and redundancy required to secure a high-availability network infrastructure, along with economies of scale needed by large companies, enterprise, data centers, and service providers.
- Embedded high performance SSL acceleration hardware for 100% TCP/IP Offload: High performance hardware SSL acceleration co- processor from Cavium helps reduce CPU workload and provides following benefits:
 - o Shorter response time delay: The reduction in CPU load results in reduced delay for each of the individual clients.
 - Increased burst rate thru faster SSL handshake: It can support 100's of new concurrent logins per second. It provides significant burst rate performance gain and system stability over software-only solutions.
 - Increased Peak Time Performance: Reduced CPU workload helps increases the number of transaction each of the appliance system can process.
 - o Increased Security: Server private keys are stored in write-only flash devices embedded into the Cavium processors as oppose to storing it on hard disk drives, making unauthorized access more difficult.
- **HSM certificate management:** HSM hardware provides a certificate repository and generation facility. Certificates can be compromised if a system is compromised, unless the certificates are generated and stored in these special hardware components.
- Integrated security audits: nAppliance appliance systems are built with security best practices in mind. Various
 software add-ons, hardware components and system configurations will change a system profile; each of image
 versions is systematically packaged, tested for reliability and receives complete security audit on an ongoing basis by
 our security system experts.

nAppliance Oneface® System Management Platform Key Features and Benefits:

The nAppliance Oneface Management System suite provides a pre-integrated management system for any sized appliance implementation from a single appliance installation to a distributed enterprise with a widely distributed number of systems.

- Embedded Recovery Manager Appliance Recovery and Remote Management System (ARRMS): ARRMS is an embedded operating environment built into all nAppliance systems and allows the administrator to provide offline system management and maintenance to the appliance hardware and software image. The embedded ARRMS operating environment functions completely independently of the main appliance hardware and software environment. The appliance can boot using ARRMS into "maintenance mode" where the administrator has full BIOS-level access to the hardware and software environments, even with the appliance operating system shutdown or the hardware powered off. It provides services such as:
 - Appliance System Configuration to manage server network port, lights-out management iKVM port, network shares and hardware diagnostics services



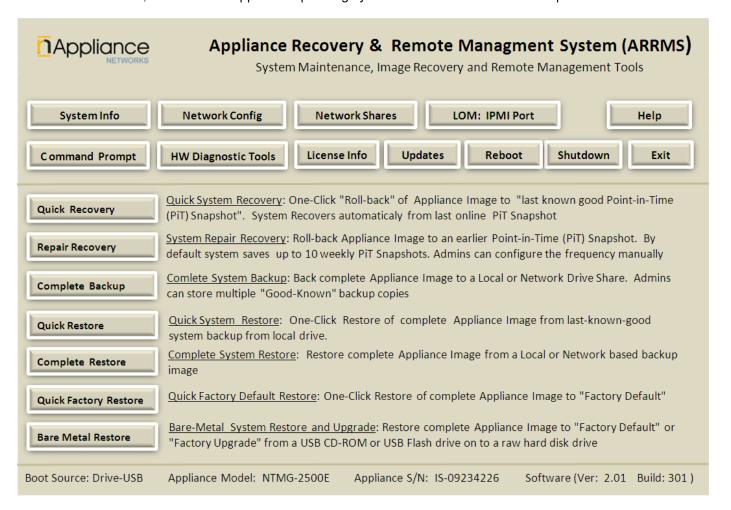
- Appliance Image Management to manage online PiT system OS recovery, multi image backups, restores, factory default reset and bare-metal appliance reset services.
- Lights-Out-Management (LOM) Manager Remote Appliance Hardware Management System: nAppliance appliance LOM functionality is embedded into most of the nAppliance platforms, and comes complete with network and serial ports to provide rich and secure SSL web-based "out of band" BIOS-level remote management functionality. It provides full "in-front-of-the-server" remote server management experience from practically anywhere in the world through a web GUI interface which includes remote KVM access, system power on/off/reboot, full integration with ARRMS manager and storage media access, system console access, comprehensive health monitoring and notifications user rights and access management support for LDAP and RADIUS.
- LCD Manager Headless Appliance Deployment System: Appliance systems include LCD hardware and software which allows simple installations without connecting keyboard, mouse and video monitors. This greatly simplifies installs, including remote installs without local IT support.
- Oneface® Integrated Windows System Manager: nAppliance designed management MMC based UI to administer
 one or multiple nAppliance systems from a single interface. This system centralizes and simplifies the management
 and deployment of the nAppliance hardware and software systems including network configurations, TMG rule wizards,
 Microsoft clustering management, and other 3rd party security packages. Key Oneface Windows System Manager
 components include:
 - o Hardware Failover Manager
 - o Backup Manager
 - o Security Manager
 - o Component Manager
 - Update Manager
 - Configuration Manager
 - o Alert Manager
 - SNMP Agents Support
 - Lightweight Enterprise Manager
- Support for Microsoft System Central and Similar Enterprise Management Systems: The nAppliance systems include SNMP protocol support with custom configurations for HP Openview and Microsoft Systems Center PAKs. This SNMP support provides direct integration with Enterprise Management systems in use by nearly all large enterprise IT departments.



Oneface Embedded Recovery Manager

Embedded Field Recovery Manager - Appliance Recovery and Remote Management System (ARRMS)

ARRMS is an embedded operating environment built into all nAppliance systems and allows the administrator to provide offline system management and maintenance to the appliance hardware and software image. The embedded ARRMS operating environment functions completely independent of the main appliance hardware and software environment. The appliance can boot using ARRMS into "maintenance mode" where the administrator has full BIOS-level "out-of-band" access to the hardware and software environments, even with the appliance operating system shutdown or the hardware powered off.



ARRMS provides the administrator a fully functional maintenance and management environment without the need for recovery CD utilities or for the IT personnel to be located anywhere near the appliance hardware. This gives IT departments a powerful management environment for centralized IT operations or to provide management to remote "branch" office environments without local IT support.

Key Features and Benefits

- Online, Quick Point in Time (PiT) snapshot Backups and Recovery
 - o AARMS includes an embedded backup system providing VSS compliant online backups. Backups can be scheduled



- to both a hardware embedded backup providing "Last Known Good Configuration" rollbacks, and to remote network locations providing Disaster Recovery services.
- VSS compliance provides snapshot integrity for online backups of "in-motion" file systems and to the SQL logging and management databases
- Backups to remote file systems allow full system backups to be scheduled for each appliance, and merged into the normal IT backup infrastructure.
- Bare Metal Restore: System hardware replacement or upgrades: ARRMS facilitates complete hardware
 replacements in the field, migrating the operating environment for "bare-metal-recovery" or replacement hardware
 systems. Each appliance can be completely re-imaged "in the field" easily by the local IT staff with a single mouse click
- System Configuration and Management Functionalities:
 - o System Info Static display of hardware and software versions and configuration details
 - o Network Config Allows the IT Administrator to configure network interfaces with IP Addresses, routes, etc.
 - Network Shares The IT Administrator can attach remote shares to make offline ad-hoc backups as well as restore
 the appliance from remote network share backups
 - o HW Diagnostics Tools Built-in utilities for diagnostics and repair of the system
 - License Info interrogates the system to retrieve license and asset details as well as installed Microsoft embedded server software license keys
 - Updates Software downloads and updates can be applied while the main operating environment is down via this facility
- **High Availability, Fail-Over Option (sold separately)**: ARRMS provides the foundation for High Availability or for near real-time failover to a standby appliance. The appliances have dedicated LAN port which can be cabled as a failover pair for the models where native windows HA/NLB is not available.

Embedded system environment:

ARRMS runs on a dedicated hardware embedded flash drive, which allows maintenance to be performed on all aspects of the appliance, including bare-metal-recovery by replacing and reformatting the hard drives and other hardware components

- WinPE 2.0 operating environment: ARRMS run the Windows Vista Pre-Install Environment, which is a light-weight embedded version of Microsoft Vista. This provides a rich and flexible environment to the administrator to manage the system using familiar Windows commands
- Full GUI interface with windows CLI support: ARRMS provides a Windows GUI environment providing a rich and easy to use environment. Supports the major Windows Management utilities including almost any Windows command line utilities; these commands can be used directly by the administrator for more advanced configurations and system interrogations

ARRMS Access Options: Local, Remote over internet and Headless via LCD

nAppliance ARRMS supports multiple access options for advanced, flexible and efficient administration of appliance systems. In addition to local access via keyboard, video and mouse, it can be accessed through remote LOM based iKVM (KVM over IPMI) or via the LCD screen and keypad.

- Full Web-based Lights-Out management (LOM) for remote operations: AARMS provides LOM configuration management assistance. LOM functionality is embedded into most of the nAppliance platforms, and comes complete with network and serial ports to provide
 - o Rich and secure SSL web-based "out of band" BIOS-level remote management functionality.
 - o Complete "in-front-of-the-server" remote server management experience from practically anywhere in the world through a web GUI interface providing remote KVM access.
 - System power on/off/reboot,



- o Full integration with ARRMS manager and storage media access, system console access,
- o Comprehensive health monitoring and notifications
- o User rights and access management support for LDAP, RADIUS and Active Directory

• LCD based Headless deployment option:

ARRMS is available via a simple LCD interface so the appliance can be managed, repaired and upgraded via a simple LCD menu interface. This provides a simple monitoring and management environment without an attached monitor and keyboard for

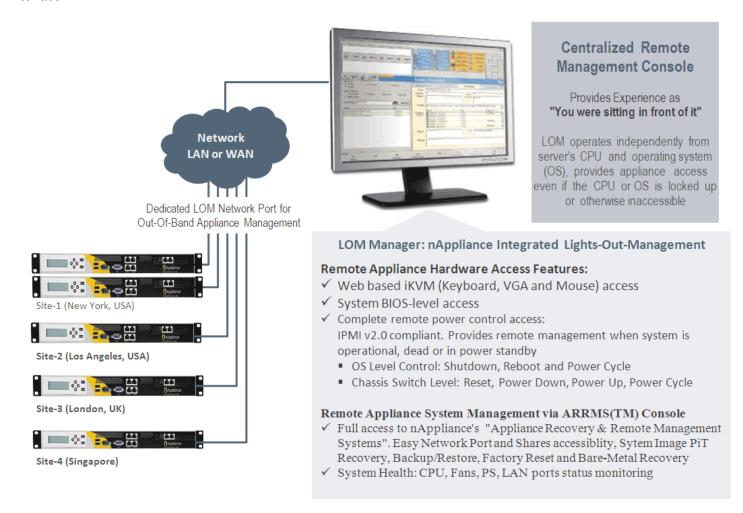
- o Quick administrative tasks
- o Remote operation in remote or branch locations without local IT support



Oneface LOM (Lights-Out Management) Manager

Integrated LOM Manager – Out-Of-Band, web based remote appliance management system

nAppliance appliance LOM functionality is embedded into most of the nAppliance platforms, and comes complete with network and serial ports to provide rich and secure SSL web-based "out of band" BIOS-level remote management functionality. It provides full "in-front-of-the-server" remote server management experience from practically anywhere in the world through web GUI interface.



LOM is iKVM/ IPMI v2.0 compliant and offers following benefits:

Out of Band management:

Administrator can access the appliance, power the system on or off, and perform other advance level system maintenance function.

- Remote Storage Media Support:
 - Remote access to internal and external CD/DVD media, appliance ISO image
- Remote access to ARRMS manager interface:

LOM provides remote access to the ARRMS manager for easy management of network port and shares configuration, troubleshooting, system appliance image backups/recovery/restore/upgrade and other supported functionalities.

- iKVM (Keyboard/VGA/Mouse support over IP) Support:
 - System console redirection for remote web access and remote keyboard, video and mouse access via web console
- Rich enterprise system standard support:
 - It supports IPMI, SSL, and SNMP traps for easy enterprise system integration

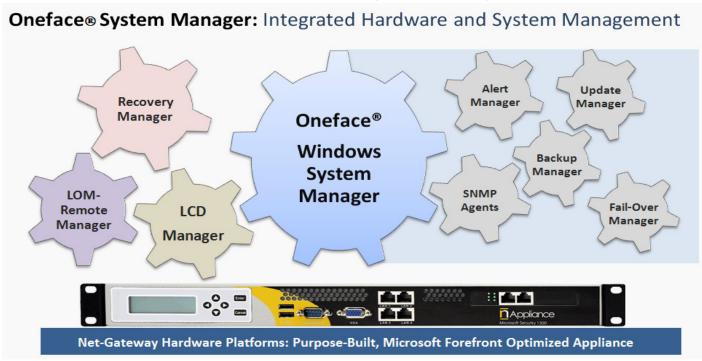


- User Rights and access management: LDAP and RADIUS
- Health Monitoring and Notification:

 Comprehensive health monitoring of over 100 system parameters and Email/SMTP notification alerts for hardware errors and faults.



Oneface® Windows System Manager:

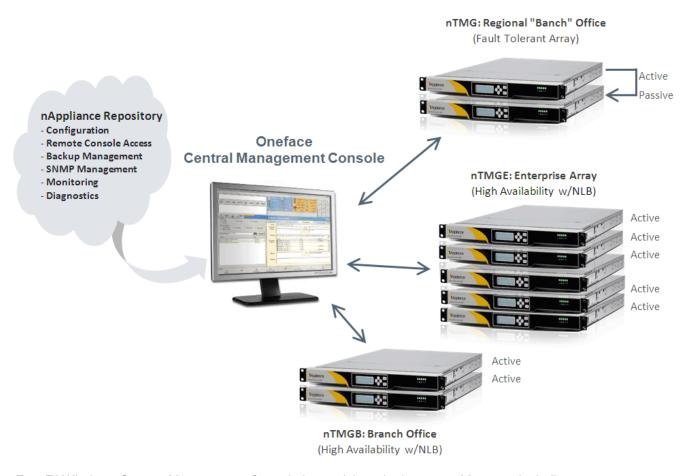


The nAppliance Oneface™ Management System provides a pre-integrated management system for any sized appliance implementation from a single appliance installation to a distributed enterprise with any number of systems. Oneface™ is Microsoft Windows MMC 2.0 based. This makes Oneface™ completely compatible with the Microsoft Management infrastructure and extendable with other Microsoft MMC snap-ins.

The nAppliance OneFace™ Management System central console is a centralized management dashboard that can manage one or more local or remote appliances. The console manages the configuration, upgrades, monitoring and management of each appliance from a central location. Oneface™ can also plug directly into Enterprise SNMP management systems such as HP Openview or Microsoft Systems Center.



nAppliance Oneface Integrated Management Environment



The OneFace™ Windows System Management Console has a rich and robust set of features including:

High Availability and Fault Tolerance Manager – Oneface™ provides support and management for Microsoft clustering and for the nAppliance proprietary and inexpensive Fault Tolerant "Warm Standby" technology. The Warm Standby technology provides an automated active/passive technology, where the active system is replicated to a redundant hardware appliance. This provides for a redundant and secure fault tolerant system without the costs associated with purchasing multiple licenses in active-active configurations.

Backup Manager – Several backup options are available to provide Point-in-Time snapshot backups of the entire appliance system, either internally to the appliance, or to remote network servers. The backup snapshots provide guaranteed disaster plan contingencies or for simple roll-backs of system configurations to a "Last Known Good State".

Embedded System Manager (ARRMS) – The Embedded System Manager works in conjunction with the Backup Manager to provide offline recovery and snapshot roll-back services. This system provides full access to the hardware and software components by a remote administrator.

Security Manager – Each appliance runs internal monitoring systems to remove the possibilities of security vulnerabilities due to configuration or other security compromises.



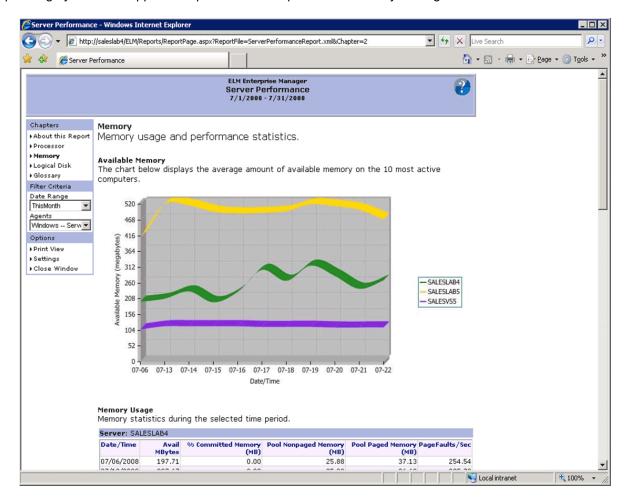
Component Manager – nAppliance products have numerous 3rd party integrated software add-ons which greatly extend the capabilities of each appliance. These add-ons include QOS, content management, WAN Optimization, reporting and many other components. The Component Manager allows the customer to add or remove components as desired.

Update Manager – The Update Manager provides ongoing monitoring of new software patch releases and provides an integrated patch management system for the entire appliance from drivers, OS to all installed application systems.

Configuration Manager – The Configuration Manager allows the administrator to manage one or more appliance configurations including network, operating system and operational configurations from a central management station.

SNMP Agents – the nAppliance integrated SNMP agent plugs directly into SNMP or SYSLOG management systems using standard protocols used to manage Enterprise Class servers and network devices.

Lightweight Enterprise Manager – nAppliance provides an SNMP network management system pre-integrated with the hardware, operating system and application products. This provides a turnkey management dashboard out-of-the-box.



nAppliance Oneface Management System integrates hardware and software management into a cohesive management system. This provides a integrated Enterprise Class management system without enterprise cost and staffing requirements.



Scalable Family of Forefront Hardware Models

The nAppliance Net-Gateway appliance family supports wide range of models, each of the models are right-sized to meet the unique business requirements of our customers. Our appliances deliver the performance, capacity and availability required in each environment from a smallest branch office to the largest enterprise datacenter.

Business Series Forefront Appliance Platforms:

The nAppliance Business Series appliance platform is designed to serve SMB and small enterprise and branch-office deployments. Model 1500 and 2500 are the "most affordable" platform on the market; they offer better performance and cost saving against "general purpose" servers with standard operating systems.

nTMG based models are deployed as a standalone units., Both nTMGE (enterprise datacenter or branch office editions) and nUAG can be deployed in high-availability (HA) and network load balancing (NLB) configurations.

	Model-1500	Model-2500
	Pustro:	Pouro ::::
Storage Capacity	500GB	500GB
TMG Optimized Configurations	nTMG-1500S, nTMGE-1500E, nTMGB-1500B	nTMG-2500S, nTMGE-2500E, nTMGB- 2500B
Deployment Type	Small Business	Medium Business
Recommended Corporate PCs	500	1,000
Recommended Corporate Web Users	2,500	5,000
Firewall Throughput (Mbps)	2,000	2,000
HTTP Throughput (Mbps)	150	160
VPN Throughput (Mbps)	160	160
SSL/IPSec Acceleration Rating (TPS)	Software Based	17,000
UAG Optimized Configurations	nUAG-1500	nUAG-2500
Deployment Type	Small Business	Medium Business
Recommended Named Users (1:2)	1,000	2,000
Concurrent Users (<5 Applications, Low Activity Usage)	600	1,200
Concurrent Users (Medium Activity Usage, 5-10 Apps)	400	800
Concurrent Users (High Activity Usage, 11-20 Apps)	150	300
Concurrent Users (High Activity Usage, 11-20 Apps)	100	150



Burst Mode: Concurrent New User Login / Minute	90	100
Burst Mode: Concurrent New User Login < 3 minutes	250	250

Hardware Specifications		
	Model-1500	Model-2500
	Bestro	Postror States
Processor	Single, Dual Cores i3	Single, Quad Cores Xeon
Memory	4GB	6GB
Network Interfaces (RJ45)	8x GbE LAN	8x GbE LAN
Remote HW Management Interface (RJ45)	1x iKVM Lights-Out (IPMI)	1x iKVM Lights-Out (IPMI)
Storage - Data (Redundant)	Dual SATA Fixed Disks, Mirroring (RAID-1)	Dual SATA Fixed Disks, Mirroring (RAID-1)
Oneface Embedded Recovery OS (ARRMS)	2GB, USB Flash DOM, Internal	2GB, USB Flash DOM, Internal
SSL HW Accelerator	No	PCIe Cavium CN1600 Series
LCD w/Keypad Display	Graphical w/6-Keypad	Graphical w/6-Keypad
System IO Ports (VGA/USB/Serial)	1/2/1	1/2/1
AC Power Supply	Single, 260 Watts 100 to 240 VAC Auto 47 to 63 Hz, 3A	Single, 260 Watts 100 to 240 VAC Auto 47 to 63 Hz, 3A
Physical Dimensions	Chassis: 19", 2-post rack-mountable Height: 1.5" (1U), 1 rack unit Width: 17.5" Depth: 15" Weight: 15 lbs.	Chassis: 19", 2-post rack-mountable Height: 1.5" (1U), 1 rack unit Width: 17.5" Depth: 15" Weight: 15 lbs.
Storage Temperature	-40°F to 122°F (-40°C to 50°C) 5% to 95% relative humidity, non-condensing	-40 °F to 122 °F (-40 °C to 50 °C) 5% to 95% relative humidity, non-condensing



Operating Temperature	35°F to 95°F (1.7°C to 35°C) 5% to 95% relative humidity, non-condensing	35 °F to 95 °F (1.7 °C to 35 °C) 5% to 95% relative humidity, non-condensing
Agency Certifications	Safety: UL, FCC, CE, TUV, CB Environmental: WEEE and RoHS	Safety: UL, FCC, CE, TUV, CB Environmental: WEEE and RoHS
Support and Services	Standard warranty includes 30-day software support with one-year hardware support; upgradable	Standard warranty includes 30-day software support with one-year hardware support; upgradable

Enterprise Series Forefront Appliance Platforms

The nAppliance Enterprise Series appliance platform is designed to serve enterprise and branch-office for all types of network deployments.

Models 3500 and 5500 are the most advanced fault tolerant systems in their class. System components such as hard disk drives, power supplies, cooling fans etc are fully redundant and hot swappable to ensure the highest possible availability of all the moving parts. In case of a component failure or during routine system maintenance, there is no need to power down a system or stop services to replace a failed component.

nTMG based models are deployed as standalone units, both nTMGE (enterprise datacenter or branch office editions) and nUAG can be deployed in high-availability (HA) and network load balancing (NLB) configurations.

Performance Specifications for Capacity Planning		
	Model-3500	Model-5500
	Matro ::::	Nackroo ::::
Storage Capacity	300GB	300GB
TMG Optimized Configurations	nTMG-3500S, nTMGE-3500E, nTMGB- 3500B	nTMG-5500S, nTMGE-5500E, nTMGB-5500B
Deployment Type	Small/Mid-Size Enterprise	Large Enterprise
Recommended Corporate PCs	3,000	4,000
Recommended Corporate Web Users	15,000	20,000
Firewall Throughput (Mbps)	2400	2600
HTTP Throughput (Mbps)	200	240
VPN Throughput (Mbps)	200	200
SSL Acceleration Rating (TPS)	17,000	17,000
UAG Optimized Configurations	nUAG-3500	nUAG-5500
Deployment Type	Small/Mid-Size Enterprise	Large Enterprise
Recommended Named Users (1:2)	10,000	15,000
Concurrent Users (<5 Applications, Low Activity Usage)	5,000	7,500



Concurrent Users (Medium Activity Usage, 5-10 Apps)	3,000	5,000
Concurrent Users (High Activity Usage, 11-20 Apps)	1,200	2,000
Concurrent Users (High Activity Usage, 11-20 Apps)	700	1,000
Burst Mode: Concurrent New User Login / Minute	200	350
Burst Mode: Concurrent New User Login < 3 minutes	500	1,000

	Model-3500	Model-5500
	Nacione	Mexico
Processor	Single Processor, Quad Cores Xeon	Dual Processor, Eight Cores Xeon
Memory	12GB	16GB
Network Interfaces (RJ45)	8x GbE LAN	8x GbE LAN
Remote HW Management Interface (RJ45)	1x iKVM Lights-Out (IPMI)	1x iKVM Lights-Out (IPMI)
Storage – Data (Redundant)	Dual SATA Disk, Mirroring (RAID-1), Hot swap disk drives	Three SAS Disk, Mirroring (RAID-1) + Hot spare, Hot swap disk drives
Oneface Embedded Recovery OS (ARRMS)	2GB, USB Flash DOM	2GB, USB Flash DOM
SSL HW Accelerator	Cavium CN1600 Series	Cavium CN1600 Series
LCD w/Keypad Display	Graphical w/6-Keypad	Graphical w/6-Keypad
System IO Ports (VGA/USB/Serial)	1/2/1	1/2/1
AC Power Supply (Redundant)	Dual Hotswap Redundant, 650 Watts 100 to 240 VAC Auto 47 to 63 Hz. 3A	Dual Hotswap Redundant, 650 Watts 100 to 240 VAC Auto 47 to 63 Hz, 3A





Physical Dimensions	Chassis: 19", 2-post rack-mountable Height: 1.5" (1U), 1 rack unit Width: 17.5" Depth: 27" Weight: 30 lbs.	Chassis: 19", 2-post rack-mountable Height: 1.5" (1U), 1 rack unit Width: 17.5" Depth: 27" Weight: 30 lbs.
Storage Temperature	-40 °F to 122 °F (-40 °C to 50 °C) 5% to 95% relative humidity, non-condensing	-40°F to 122°F (-40°C to 50°C) 5% to 95% relative humidity, non-condensing
Operating Temperature	35°F to 95°F (1.7°C to 35°C) 5% to 95% relative humidity, non-condensing	35°F to 95°F (1.7°C to 35°C) 5% to 95% relative humidity, non-condensing
Agency Certifications	Safety: UL, FCC, CE, TUV, CB Environmental: WEEE and RoHS	Safety: UL, FCC, CE, TUV, CB Environmental: WEEE and RoHS
Support and Services	Standard warranty includes 30-day software support with one-year hardware support; upgradable	Standard warranty includes 30-day software support with one-year hardware support; upgradable



Hardware Warranty: Integrated service and support plans for Forefront powered security appliances

The system has a 30-day warranty that will meet published specifications. The standard hardware depot-repair warranty is for a period of one year. Optional premium support and advance replacement maintenance service plans are also available for 1, 3 and 5 years that extend the hardware and software support warranty.

- Advance hardware replacement plans are available providing new hardware replacements in the case of outages or preventive maintenance of failing components.
- Software Assurance and Help Desk service options are recommended to ensure the appliance is kept updated with the latest software enhancements and to ensure the security and availability of the system.
- Professional services and customized training courses are also available to help provide variety of real-world deployment and troubleshooting experience.