

#### **DATA SHEET**

# **FortiNAC™**

Available in:

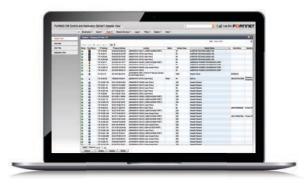






Appliance





## **Security for Networks with IoT**

FortiNAC™ is Fortinet's network access control solution that enhances the Security Fabric with visibility, control, and automated response for everything that connects to the network. FortiNAC provides protection against IoT threats, extends control to third-party devices, and orchestrates automatic responses to a wide range of networking events.



#### Visibility Across the Network for Every Device and User

FortiNAC provides detailed profiling of even headless devices on your network using multiple information and behavior sources to accurately identify what is on your network.



#### **Extend Control of the Network to Third-Party Products**

Implement micro-segmentation policies and change configurations on switches and wireless products from more than 70 vendors. Extend the reach of the Security Fabric in heterogeneous environments.



#### **Automated Responsiveness**

React to events in your network in seconds to contain threats before they spread. FortiNAC offers a broad and customizable set of automation policies that can instantly trigger configuration changes when the targeted behavior is observed.

# **Highlights**

- Scan the network for detection and classification of devices via agent or agentless (automated)
- Create an inventory of all devices on the network
- Assess risk of every endpoint on the network
- Centralize architecture for easier deployment and management
- Provide extensive support for third-party network devices to ensure effectiveness with existing network infrastructure
- Automate onboarding process for a large number of endpoints, users, and guests
- Enforce dynamic network access control and enable network segmentation
- Reduce containment time from days to seconds
- Provide event reporting to SIEM with detailed contextual data to reduce investigation time

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#### **HIGHLIGHTS**

## **Device Visibility**

Fundamental to the security of a constantly changing network is an understanding of its makeup. FortiNAC sees everything on the network providing complete visibility. FortiNAC scans your network to discover every user, application, and device. With up to 20 different techniques, FortiNAC can then profile each element based on observed characteristics and responses, as well as calling on FortiGuard's IoT Services, a cloud-based database for identification look-ups.

Scanning can be done actively or passively and can utilize permanent agents, dissolvable agents, or no agents. Additionally, FortiNAC can assess a device to see if it matches approved profiles, noting the need for software updates to patch vulnerabilities. With FortiNAC deployed, the entire network is known.

In addition to knowing the entire network, FortiNAC's enhanced visibility can also use passive traffic analysis, leveraging Fortinet FortiGate appliances as sensors, to identify anomalous traffic patterns, a possible indication of compromise that can be followed up by the SOC team.

# Methods General Active ☐ DHCP Fingerprinting FortiGate FortiGuard HTTP/HTTPS □ IP Range Location Network Traffic ONVIE Passive Persistent Agent Script SNMP ☐ SSH TCP Telnet □ UDP Vendor OUI WinRM WMI Profile

FortiNAC Profiling Methods for Device Classification

## **Dynamic Network Control**

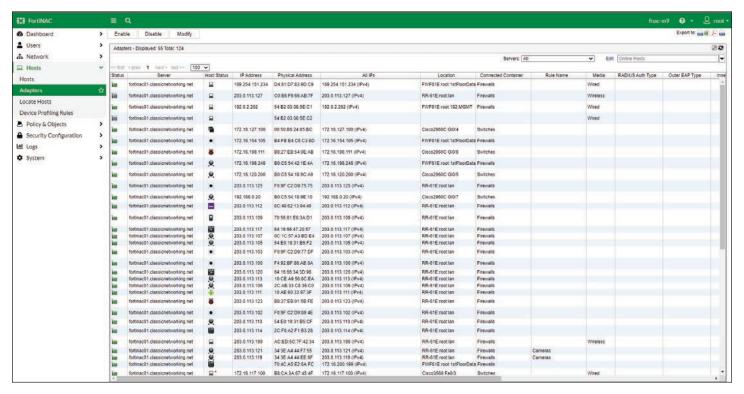
Once the devices are classified and the users are known, FortiNAC enables detailed segmentation of the network to enable devices and users access to necessary resources while blocking non-authorized access. FortiNAC uses dynamic role-based network access control to logically create network segments by grouping applications and like data together to limit access to a specific group of users and/ or devices. In this manner, if a device is compromised, its ability to travel in the network and attack other assets will be limited. FortiNAC helps to protect critical data and sensitive assets while ensuring compliance with internal, industry, and government regulations and mandates.

Ensuring the integrity of devices before they connect to the network minimizes risk and the possible spread of malware. FortiNAC validates a device's configuration as it attempts to join the network. If the configuration is found to be non-compliant, the device can be handled appropriately such as by an isolated or limited access VLAN that has no access to corporate resources.

## **Automated Response**

FortiNAC will monitor the network on an ongoing basis, evaluating endpoints to ensure they conform to their profile. FortiNAC will rescan devices to ensure MAC-address spoofing does not bypass your network access security. Additionally, FortiNAC can watch for anomalies in traffic patterns. This passive anomaly detection works in conjunction with FortiGate appliances. Once a compromised or vulnerable endpoint is detected as a threat, FortiNAC triggers an automated response to contain the endpoint in real-time.

#### INTEGRATION



FortiNAC Adapter View

Extensive integration with desktop security software, directories, network infrastructure, and third-party security systems provides unparalleled visibility and control across the network environment. The FortiNAC family integrates with\*:



Network Infrastructure	Adtran, Aerohive, Alcatel-Lucent, Allied Telesis, Alteon, APC, Apple, Avaya, Brocade/Foundry Networks/Ruckus, Cisco/Meraki, D-Link, Extreme/Enterasys/Siemens, H3C, HP/Colubris/3Com/Aruba, Intel, Juniper, Riverbed/Xirrus, SonicWall
Security Infrastructure	CheckPoint, Cisco/SourceFire, Cyphort, FireEye, Juniper/Netscreen, Qualys, Sonicwall, Tenable
Authentication and Directory Services	RADIUS — Cisco ACS, Free RADIUS, Microsoft IAS, LDAP — Google SSO, Microsoft Active Directory, OpenLDAP
Operating Systems	Android, Apple MAC OSX and iOS, Linux, Microsoft Windows
Endpoint Security Applications	Authentium, Avast, AVG, Avira, Blink, Bullguard, CA, ClamAV, Dr. Web, Enigma, ESET, F-Prot, F-Secure, G Data, Intego, Javacool, Lavasoft, Lightspeed, McAfee, Microsoft, MicroWorld, Norman, Norton, Panda, PC Tools, Rising, Softwin, Sophos, Spyware Bot, Sunbelt, Symantec, Trend Micro, Vexira, Webroot SpySweeper, Zone Alarm
Mobile Device Management	AirWatch, Google GSuite, MaaS360, Microsoft InTune, Mobile Iron, XenMobile, JAMF, Nozomi Networks

<sup>\*</sup> FortiNAC can be integrated with other vendors and technologies in addition to those listed here. This list represents integrations that have been validated in both test lab and production network environments.



#### **DEPLOYMENT OPTIONS**

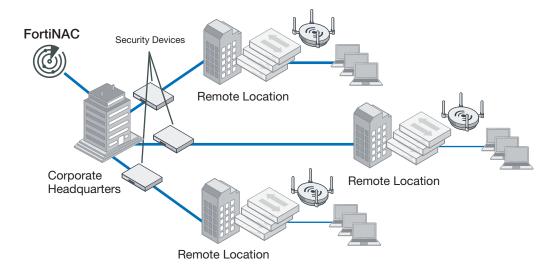
## **Easy Deployment**

FortiNAC is a flexible and scalable solution that spans from mid-size to very large enterprise deployments. There are three elements to the FortiNAC solution:

- Application and Control (required)
- Management (optional)
- FortiAnalyzer for Reports (optional)

The Application provides the visibility, and the Control provides the configuration capabilities and automated responsiveness features. The Management portion enables the sharing of concurrent users across a multi-server deployment. FortiAnalyzer provides reports and analytics based on the information gathered from the network through FortiNAC.

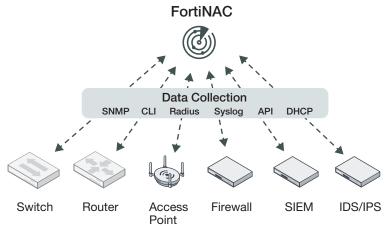
FortiNAC can be deployed in virtual machines (VMWare/Hyper-V/AWS/Azure/KVM) or on hardware appliances. The Application and Control Servers can be deployed in a variety of sizes, depending on the number of ports they need to support. FortiNAC is ideal for support distributed architectures, including SD-Branch locations.



#### **Centralized Architecture**

FortiNAC is an 'out of band' solution, meaning it does not sit in-line of user traffic. This architecture allows FortiNAC to be deployed centrally and manage many remote locations. Visibility, control, and response are achieved by integrating with, and leveraging the capabilities of, the network infrastructure. Control can be applied at the point of connection, at the very edge of the network while security device integrations allow FortiNAC to process security alerts and treat them as triggers for automated threat mitigation through customizable work flows.

Data collection is gathered from multiple sources using a variety of methods. SNMP, CLI, RADIUS, SYSLOG, API and DHCP fingerprints can all be used to achieve the detailed end-to-end visibility necessary to create a truly secure environment.



#### **LICENSING**

## **FortiNAC Licensing**

FortiNAC offers flexible deployment options based on the level of coverage and functionality desired.

#### **BASE License**

# ■ The BASE license level provides easy, one-step IoT security solution to close pressing endpoint security gaps by seeing all endpoint devices on the network, automating authorization, and enabling micro-segmentation and network lockdown. The BASE license level is appropriate for organizations that need to secure IoT and headless devices, and enable network lockdown with dynamic VLAN steering, but do not require more advanced user/network controls or automated threat response.

#### **PLUS License**

■ The PLUS license level builds on all the functionality of BASE with enhanced visibility and more advanced Network Access Controls and automated provisioning for users, guests, and devices as well as reporting and analytics. The reporting and analytics can greatly assist in providing audit documentation of compliance. The PLUS license level is appropriate for organizations that want complete endpoint visibility and a granular control, but do not require automated threat response.

#### **PRO License**

The PRO license level provides the ultimate in visibility, control and response. PRO license offers real-time endpoint visibility, comprehensive access control, and automated threat response and delivers contextual information with triaged alerts. The PRO license level is appropriate for organizations that want complete endpoint visibility, a flexible NAC solution with granular controls, as well as accurate event triage and real-time automated threat response.

		FORTINAC LICENSE TYPES	BASE	PLUS	PRO
	Network	Network Discovery	$\odot$	$\odot$	$\odot$
		Rogue Identification	$\odot$	$\odot$	$\odot$
		Device Profiling & Classification	$\odot$	$\odot$	$\otimes$
	Endpoint	Enhanced Visiblity	$\odot$	$\odot$	$\odot$
Visibility		Anomaly Detection	$\odot$	$\odot$	$\bigcirc$
		MDM Integration	$\odot$	$\odot$	$\oslash$
		Persistent Agent		$\odot$	Ø
	User	Authentication		$\odot$	$\otimes$
		Captive Portal		$\odot$	$\odot$
		Network Access Policies	$\odot$	$\odot$	$\odot$
		IoT Onboarding with Sponsor	$\odot$	$\odot$	$\odot$
		Rogue Device Detection & Restriction	$\odot$	$\odot$	$\odot$
		Firewall Segmentation	$\odot$	$\bigcirc$	$\odot$
		MAC Address Bypass (MAB)	$\odot$	$\odot$	$\odot$
Automation / Control		Full RADIUS (EAP)		$\odot$	$\odot$
		BYOD / Onboarding		$\odot$	$\odot$
		Guest Management		$\odot$	$\odot$
		Endpoint Compliance		$\odot$	$\oslash$
		Web & Firewall Single Sign-on		$\bigcirc$	$\bigcirc$
		Event Correlation			$\odot$
In all I and December		Extensible Actions & Audit Trail			$\odot$
Incident Response		Alert Criticality & Routing			⊘
		Guided Triage Workflows			<b>⊘</b>
Integrations		Inbound Security Events			$\odot$
		Outbound Security Events		$\bigcirc$	$\bigcirc$
		REST API	<b>⊘</b>	$\odot$	<b>⊘</b>
Reporting		Customizable Reports	····		



#### **SERVICES**

#### **FortiCare Services**

As your business rapidly evolves, it is critical to advance your security capabilities as well. Often though, you do not have expertise within your organization to deploy, operate, and maintain these new capabilities or are up against tight deadlines to implement change. We understand this challenge and help thousands of organizations every year tackle this problem with FortiCare Services. Our experts provide accelerated implementation of your technology, reliable assistance through advanced support, and proactive care to ensure your success with Fortinet investment. No matter the size or location of your organization, we are ready to provide you with an elevated experience to help you achieve your business goals with superior security and performance.

## **FortiCare Support**

A FortiCare Support contract entitles you not only to receive updates to the FortiNAC firmware, but also receive two important feeds:

- 1) Network device database update- FortiNAC supports more than 2,500 switching, wireless, or firewall devices on the market. As new devices are released, FortiNAC's network device database should be updated to reflect these new models. The weekly update from the FortiNAC team will keep your deployment up to date.
- 2) FortiGuard IoT Service One of the means that FortiNAC has to identify devices is to use the cloud-look up service hosted by FortiGuard Labs. A FortiCare Support contract entitles you to use that service at no additional cost, giving you access to a database of millions of devices.



# **SPECIFICATIONS**

CPU         Intel Xeon Silver 4210 2.26, IDC/267, 1867 is, 13.27 M Cache, Turbo, HT (85W)         Intel Xeon E-2124 3.3GHz, 8M cache, 4C/4T, turbo (71W) (0ty 1)           Memory         868 RDIMM, 3200MTS, Single Rank (Qty 4)         868 2666MT/s DDR4 ECC UDIMM (Qty 2)           Hard Disk         1TB 72K RPM SATA 6 Gbps 2.5in Hot-plug Hard Drive (Qty 2)         1TB 72K RPM SATA 6 Gbps 3.5in Hot-plug Hard Drive RAID1 (Qty 2)           BMC         IDRAC9 Express, integrated (Qty 1)         IDRAC8 Express (Qty 1)           Network Interface         4 10/000/000 Ethernet, RAI5         4 10/000/000 Ethernet, RAI5           RAID Card         PERC H330 Integrated RAID Controller (Qty 1)         PERC H330 Integrated RAID Controller (Qty 1)           RAID Card         PERC H330 Integrated RAID Controller (Qty 1)         RAID 1           Console Access         Yes *         Yes *           Form Factor         10 Rack Mountable         10 Rack Mountable           Dimensions         168 × 18.9 × 29.73         1.68 × 17.08 × 24.60           Height x Width x Length (inches)         1.68 × 18.9 × 29.73         1.68 × 17.09 × 24.60           Height x Width x Length (inches)         1.68 × 18.9 × 29.73         1.68 × 17.09 × 24.60           Height x Width x Length (inches)         1.08 × 18.9 × 29.73         1.09 × 20.00           Height x Width x Length (inches)         0.10 × 20.00         0.00 × 20.00         0.00		FNC-M-550C	FNC-CA-600C	FNC-CA-500C	
DRR-2-400 (Gty 2)   8GB RDIMM, 3200MT/s, Single Rank (Gty 4)   8GB 2666MT/s DDR4 ECC UDIMM (Gty 2)   1 Hard Disk   1 TB 72K RPM SATA 6 Gbps 2.5in Hot-plug Hard Drive (Gty 2)   1 RPACP Express (Gty 1)   1 RPACP Express (Gty 1	System				
THE TOLK	CPU			Intel Xeon E-2124 3.3GHz, 8M cache, 4C/4T, turbo (71W) (Qty 1)	
G(by 2)	Memory	8GB RDIMM, 3200	MT/s, Single Rank (Qty 4)	8GB 2666MT/s DDR4 ECC UDIMM (Qty 2)	
Network Interface         4 x 10/100/1000 Ethernet, RJ45         4 x 10/100/1000 Ethernet, RJ45           RAID Card         PERC H330 Integrated RAID Controller (Qty 1)         PERC H330 Integrated RAID Controller (Qty 1)           RAID Configuration         RAID 1         RAID 1           Console Access         Yes *         Yes *           Form Factor         1U Rack Mountable         1U Rack Mountable           Dimensions           Height x Width x Length (inches)         1.68 x 18.9 x 29.73         1.68 x 17.08 x 24.60           Height x Width x Length (mm)         42.8 x 482.4 x 755.12         42.8 x 434.0 x 625.0           Weight         43.056 lbs (19.76 kg)         43.87 lbs (19.9 kg)           Environment         Power Supply         Dual 350W Hot Plug Power Supply         Dual 350W Hot Plug Power Supply           Power Supply         Dual 550W Hot Plug Power Supply         Dual 350W Hot Plug Power Supply         Dual 350W Hot Plug Power Supply           Input Power         100-240V AC Autoranging         100-240V AC Autoranging         100-240V AC Autoranging           Input Quirent         6.25 A         3.0 A         3.0 A           Cooling         7 fans         4 fans           Panel Display         No LCD         20 Char LCD           Heat Dissipation         2559 BTU/hr	Hard Disk				
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RAID Configuration         RAID 1         RAID 1           Console Access         Yes *         Yes *           Form Factor         1U Rack Mountable         1U Rack Mountable           Dimensions           Height x Width x Length (inches)         1.68 × 18.9 × 29.73         1.68 × 17.08 × 24.60           Height x Width x Length (mm)         42.8 × 482.4 × 755.12         42.8 × 434.0 × 625.0           Weight         43.056 lbs (19.76 kg)         43.87 lbs (19.9 kg)           Environment         Fower Supply         Dual 350W Hot Plug Power Supplies           Input Power         100-240V AC Autoranging         100-240V AC Autoranging           Input Current         6.25 A         3.0 A           Cooling         7 fans         4 fans           Panel Display         No LCD         20 Char LCD           Heat Dissipation         2559 BTU/hr         13571 BTU/hr           Operation Temperature Range         50-95°F (10-35°C)         50-95°F (10-35°C)           Storage Temperature Range         40-149°F (+40-65°C)         -40-149°F (+40-65°C)           Humidity (Operating)         10-80% non-condensing         5-95% non-condensing           Certification         5-95% non-condensing         5-95% non-condensing           Certification <t< td=""><td>Network Interface</td><td>4× 10/100/1</td><td>000 Ethernet, RJ45</td><td>4× 10/100/1000 Ethernet, RJ45</td></t<>	Network Interface	4× 10/100/1	000 Ethernet, RJ45	4× 10/100/1000 Ethernet, RJ45	
Console Access         Yes *         Yes *           Form Factor         1U Rack Mountable         1U Rack Mountable           Dimensions         Height x Width x Length (inches)         1.68 × 18.9 × 29.73         1.68 × 17.08 × 24.60           Height x Width x Length (mm)         42.8 x 482.4 x 755.12         42.8 x 43.40 x 625.0           Weight         43.056 lbs (19.76 kg)         43.87 lbs (19.9 kg)           Environment         Power Supply         Dual 350W Hot Plug Power Supply         Dual 350W Hot Plug Power Supplies           Input Power         100-240V AC Autorranging         100-240V AC Autorranging         100-240V AC Autorranging           Input Current         6.25 A         3.0 A           Cooling         7 fans         4 fans           Panel Display         No LCD         20 Char LCD           Heat Dissipation         2559 BTU/hr         13571 BTU/hr           Operation Temperature Range         50-95°F (10-35°C)         50-95°F (10-35°C)           Storage Temperature Range         -40-149°F (-40-65°C)         -40-149°F (-40-65°C)           Humidity (Operating)         10-80% non-condensing         5-95% non-condensing           Certification         5-95% non-condensing         5-95% non-condensing           Certificed as applicable by Product Safety authorities worldwide, including United Sta	RAID Card	PERC H330 Integra	ted RAID Controller (Qty 1)	PERC H330 Integrated RAID Controller (Qty 1)	
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Height x Width x Length (inches)         1.68 × 18.9 × 29.73         1.68 × 17.08 × 24.60           Height x Width x Length (mm)         42.8 × 482.4 × 755.12         42.8 × 434.0 × 625.0           Weight         43.056 lbs (19.76 kg)         43.87 lbs (19.9 kg)           Environment         Power Supply         Dual 350W Hot Plug Power Supplies           Input Power         100-240V AC Autoranging         100-240V AC Autoranging           Input Current         6.25 A         3.0 A           Cooling         7 fans         4 fans           Panel Display         No LCD         20 Char LCD           Heat Dissipation         2559 BTU/hr         1357.1 BTU/hr           Operation Temperature Range         50-95°F (10-35°C)         50-95°F (10-35°C)           Storage Temperature Range         -40-149°F (-40-65°C)         -40-149°F (-40-65°C)           Humidity (Operating)         10-80% non-condensing         10-80% non-condensing           Humidity (Non-operating)         5-95% non-condensing         5-95% non-condensing           Certification         2559 Etectromagnetic (EMC)         Certified as applicable by Product Safety authorities worldwide, including United States (NRTL), Canada (ICES), European Union (CE).	Form Factor	1U Ra	ck Mountable	1U Rack Mountable	
Height x Width x Length (mm)         42.8 x 482.4 x 755.12         42.8 x 434.0 x 625.0           Weight         43.056 lbs (19.76 kg)         43.87 lbs (19.9 kg)           Environment         Power Supply         Dual 350W Hot Plug Power Supplies           Input Power         100-240V AC Autoranging         100-240V AC Autoranging           Input Current         6.25 A         3.0 A           Cooling         7 fans         4 fans           Panel Display         No LCD         20 Char LCD           Heat Dissipation         2559 BTU/hr         13571 BTU/hr           Operation Temperature Range         50-95°F (10-35°C)         50-95°F (10-35°C)           Storage Temperature Range         -40-149°F (-40-65°C)         -40-149°F (-40-65°C)           Humidity (Operating)         10-80% non-condensing         10-80% non-condensing           Humidity (Non-operating)         5-95% non-condensing         5-95% non-condensing           Certification         Safety         Certified as applicable by Product Safety authorities worldwide, including United States (NRTL), Canada (SCC), European Union (CE).           Electromagnetic (EMC)         Certified as applicable by EMC authorities worldwide, including United States (FCC), Canada (ICES), European Union (CE).	Dimensions				
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Environment  Power Supply Dual 550W Hot Plug Power Supply Dual 350W Hot Plug Power Supplies Input Power 100-240V AC Autoranging 100-240V AC Autoranging Input Current 6.25 A 3.0 A  Cooling 7 fans 4 fans  Panel Display No LCD 20 Char LCD  Heat Dissipation 2559 BTU/hr 1357.1 BTU/hr Operation Temperature Range 50-95°F (10-35°C) 50-95°F (10-35°C)  Storage Temperature Range -40-149°F (-40-65°C) -40-149°F (-40-65°C)  Humidity (Operating) 10-80% non-condensing 10-80% non-condensing 5-95% non-condensing  Certification  Safety Certified as applicable by Product Safety authorities worldwide, including United States (NRTL), Canada (SCC), European Union (CE).  Electromagnetic (EMC) Certified as applicable by EMC authorities worldwide, including United States (FCC), Canada (ICES), European Union (CE).	Height x Width x Length (mm)	42.8 × 4	182.4 × 755.12	42.8 × 434.0 × 625.0	
Power Supply         Dual 550W Hot Plug Power Supply         Dual 350W Hot Plug Power Supplies           Input Power         100-240V AC Autoranging         100-240V AC Autoranging           Input Current         6.25 A         3.0 A           Cooling         7 fans         4 fans           Panel Display         No LCD         20 Char LCD           Heat Dissipation         2559 BTU/hr         13571 BTU/hr           Operation Temperature Range         50-95°F (10-35°C)         50-95°F (10-35°C)           Storage Temperature Range         -40-149°F (-40-65°C)         -40-149°F (-40-65°C)           Humidity (Operating)         10-80% non-condensing         10-80% non-condensing           Humidity (Non-operating)         5-95% non-condensing         5-95% non-condensing           Certification         Safety         Certified as applicable by Product Safety authorities worldwide, including United States (NRTL), Canada (SCC), European Union (CE).           Electromagnetic (EMC)         Certified as applicable by EMC authorities worldwide, including United States (FCC), Canada (ICES), European Union (CE).	Weight	43.056	lbs (19.76 kg)	43.87 lbs (19.9 kg)	
Input Power 100-240V AC Autoranging 100-240V AC Autoranging Input Current 6.25 A 3.0 A  Cooling 7 fans 4 fans  Panel Display No LCD 20 Char LCD  Heat Dissipation 2559 BTU/hr 13571 BTU/hr  Operation Temperature Range 50-95°F (10-35°C) 50-95°F (10-35°C)  Storage Temperature Range -40-149°F (-40-65°C) -40-149°F (-40-65°C)  Humidity (Operating) 10-80% non-condensing 10-80% non-condensing 5-95% non-condensing Humidity (Non-operating) 5-95% non-condensing 5-95% non-condensing Certification  Safety Certified as applicable by Product Safety authorities worldwide, including United States (NRTL), Canada (SCC), European Union (CE).	Environment				
Input Current 6.25 A 3.0 A  Cooling 7 fans 4 fans  Panel Display No LCD 20 Char LCD  Heat Dissipation 2559 BTU/hr 13571 BTU/hr Operation Temperature Range 50-95°F (10-35°C) 50-95°F (10-35°C) Storage Temperature Range -40-149°F (-40-65°C) -40-149°F (-40-65°C) Humidity (Operating) Humidity (Operating) Humidity (Non-operating) Certification Safety Certified as applicable by Product Safety authorities worldwide, including United States (NRTL), Canada (SCC), European Union (CE). Electromagnetic (EMC) Certified as applicable by EMC authorities worldwide, including United States (FCC), Canada (ICES), European Union (CE).	Power Supply	Dual 550W Ho	t Plug Power Supply	Dual 350W Hot Plug Power Supplies	
Cooling 7 fans 4 fans  Panel Display No LCD 20 Char LCD  Heat Dissipation 2559 BTU/hr 13571 BTU/hr  Operation Temperature Range 50–95°F (10–35°C) 50–95°F (10–35°C)  Storage Temperature Range -40–149°F (-40–65°C) -40–149°F (-40–65°C)  Humidity (Operating) 10–80% non-condensing 10–80% non-condensing 5–95% non-condensing  Humidity (Non-operating) 5–95% non-condensing 5–95% non-condensing  Certification  Safety Certified as applicable by Product Safety authorities worldwide, including United States (NRTL), Canada (SCC), European Union (CE).  Electromagnetic (EMC) Certified as applicable by EMC authorities worldwide, including United States (FCC), Canada (ICES), European Union (CE).	Input Power	100-240V	AC Autoranging	100-240V AC Autoranging	
Panel Display  No LCD  20 Char LCD  Heat Dissipation  2559 BTU/hr  13571 BTU/hr  Operation Temperature Range  50-95°F (10-35°C)  Storage Temperature Range  -40-149°F (-40-65°C)  -40-149°F (-40-65°C)  Humidity (Operating)  Humidity (Non-operating)  10-80% non-condensing  10-80% non-condensing  Humidity (Non-operating)  Certification  Safety  Certified as applicable by Product Safety authorities worldwide, including United States (NRTL), Canada (SCC), European Union (CE).  Electromagnetic (EMC)  Certified as applicable by EMC authorities worldwide, including United States (FCC), Canada (ICES), European Union (CE).	Input Current		6.25 A	3.0 A	
Heat Dissipation  2559 BTU/hr  13571 BTU/hr  Operation Temperature Range  50-95°F (10-35°C)  Storage Temperature Range  -40-149°F (-40-65°C)  Humidity (Operating)  Humidity (Non-operating)  10-80% non-condensing  10-80% non-condensing  Humidity (Non-operating)  Certification  Safety  Certified as applicable by Product Safety authorities worldwide, including United States (NRTL), Canada (SCC), European Union (CE).  Electromagnetic (EMC)  Certified as applicable by EMC authorities worldwide, including United States (FCC), Canada (ICES), European Union (CE).	Cooling		7 fans	4 fans	
Operation Temperature Range 50–95°F (10–35°C) 50–95°F (10–35°C)  Storage Temperature Range -40–149°F (-40–65°C) -40–149°F (-40–65°C)  Humidity (Operating) 10–80% non-condensing 10–80% non-condensing 5–95% non-condensing 5–95% non-condensing  Certification  Safety Certified as applicable by Product Safety authorities worldwide, including United States (NRTL), Canada (SCC), European Union (CE).  Electromagnetic (EMC) Certified as applicable by EMC authorities worldwide, including United States (FCC), Canada (ICES), European Union (CE).	Panel Display	1	lo LCD	20 Char LCD	
Storage Temperature Range -40-149°F (-40-65°C) -40-149°F (-40-65°C)  Humidity (Operating) 10-80% non-condensing 10-80% non-condensing 5-95% non-condensing 5-95% non-condensing  Certification  Safety Certified as applicable by Product Safety authorities worldwide, including United States (NRTL), Canada (SCC), European Union (CE).  Electromagnetic (EMC) Certified as applicable by EMC authorities worldwide, including United States (FCC), Canada (ICES), European Union (CE).	Heat Dissipation	255	9 BTU/hr	1357.1 BTU/hr	
Humidity (Operating) Humidity (Operating) Humidity (Non-operating) 10–80% non-condensing 5–95% non-condensing 5–95% non-condensing Certification Safety Certified as applicable by Product Safety authorities worldwide, including United States (NRTL), Canada (SCC), European Union (CE). Electromagnetic (EMC) Certified as applicable by EMC authorities worldwide, including United States (FCC), Canada (ICES), European Union (CE).	Operation Temperature Range	50-95	°F (10-35°C)	50-95°F (10-35°C)	
Humidity (Non-operating) 5–95% non-condensing 5–95%	Storage Temperature Range	-40-149	°F (-40-65°C)	-40-149°F (-40-65°C)	
Safety Certified as applicable by Product Safety authorities worldwide, including United States (NRTL), Canada (SCC), European Union (CE).  Electromagnetic (EMC) Certified as applicable by EMC authorities worldwide, including United States (FCC), Canada (ICES), European Union (CE).	Humidity (Operating) Humidity (Non-operating)				
Electromagnetic (EMC) Certified as applicable by EMC authorities worldwide, including United States (FCC), Canada (ICES), European Union (CE).	Certification				
	Safety	Certified as applicable by Pro	duct Safety authorities worldwide, including	United States (NRTL), Canada (SCC), European Union (CE).	
	Electromagnetic (EMC)	Certified as applicable b	Certified as applicable by EMC authorities worldwide, including United States (FCC), Canada (ICES), European Union (CE).		
	Materials	Certified as applicable by Materials authorities worldwide, including European Union (ROHS) and China (ROHS).			

<sup>\*</sup> The console port can be used for access if the appliance has an issue i.e. you can connect a monitor and a keyboard to it. FortiNAC does not use the console port for access.



# **SPECIFICATIONS**

	FNC-CA-700C		
System			
CPU	Intel Xeon Gold 6240 2.6G, 18C/36T, 10.4GT/s, 24.75M Cache, Turbo, - HT (150W) DDR4-2933 (Qty 2)		
Memory	8GB RDIMM, 3200MT/s, Single Rank (Qty 12)		
Hard Disk	600 GB 15K RPM SAS 12 Gbps 2.5in Hot-plug Hard Drive (Qty 2)		
вмс	iDRAC9 Express, integrated (Qty 1)		
Network Interface	4× 10/100/1000 Ethernet, RJ45		
RAID Card	PERC H730P+ RAID Controller, 2 GB Cache (Qty 1)		
RAID Configuration	RAID 1		
Console Access	Yes *		
Form Factor	1U Rack Mountable		
Dimensions			
Height x Width x Length (inches)	1.68 × 18.9 × 29.73		
Height x Width x Length (mm)	42.8 × 482.4 × 755.12		
Weight	43.056 lbs (19.76 kg)		
Environment			
Power Supply	Dual, Hot Plug, Redundant Power Supply (1+1), 550W		
Input Power	100−240V AC, Autoranging		
Input Current	6.25 A		
Cooling	7 fans		
Panel Display	No LCD		
Heat Dissipation	2559 BTU/hr		
Operation Temperature Range	50-95°F (10-35°C)		
Storage Temperature Range	-40-149°F (-40-65°C)		
Humidity (Operating) Humidity (Non-operating)	10–80% non-condensing 5–95% non-condensing		
Certification			
Safety	Certified as applicable by Product Safety authorities worldwide, including United States (NRTL), Canada (SCC), European Union (CE).		
Electromagnetic (EMC)	Certified as applicable by EMC authorities worldwide, including United States (FCC), Canada (ICES), European Union (CE).		
Materials	Certified as applicable by Materials authorities worldwide, including European Union (ROHS) and China (ROHS).		

<sup>\*</sup> The console port can be used for access if the appliance has an issue i.e. you can connect a monitor and a keyboard to it. FortiNAC does not use the console port for access.



# **HARDWARE SERVER SIZING**

		HARDWARE	
Hardware Server	Туре	Target Environment	Capacity
FortiNAC-CA-500C	Standalone Appliance (Integrated Control Server and Application Server)	Small Environments	Manages up to 2,000 ports in the network*
FortiNAC-CA-600C	High Performance Control and Application Server	Medium Environments	Manages up to 15,000 ports in the network*
FortiNAC-CA-700C	Ultra High Performance Control and Application Server	Large Environments with few Persistent Agents	Manages up to 25,000 ports in the network*
FortiNAC-M-550C	Management Appliance (Provides centralized management when multiple appliances are deployed)	Multi-site environments with multiple appliances	Unlimited

<sup>\* &</sup>quot;Ports" in the network = total number of switch ports + maximum number of concurrent wireless connections. FortiNAC sizes the appliance capacity based on total port counts not total number of devices.

# **VM SERVER RESOURCE SIZING**

Network Size	Target Environment	SKU	vCPU**	Memory	Disk	
Up to 2,000 ports in the network*	Small Environment	FNC-CA-VM	4	16 GB	100 GB	
Up to 15,000 ports in the network*	Medium Environment	FNC-CA-VM	6	32 GB	100 GB	
Up to 25,000 ports in the network*	Large Environment	FNC-CA-VM	14	96 GB	100 GB	
Unlimited	Large Environment	FNC-M-VM	4	12 GB	100 GB	

<sup>\* &</sup>quot;Ports" in the network = total number of switch ports + maximum number of concurrent wireless connections. FortiNAC sizes the appliance capacity based on total port counts not total number of devices.

Description

SKU

## **ORDER INFORMATION**

Appliances

• •		•
FortiNAC-CA-500C	FNC-CA-500C	FortiNAC 500, Network Control and Application Server with RAID and Redundant Power Supplies
FortiNAC-CA-600C	FNC-CA-600C	FortiNAC 600, High Performance Network Control and Application Server with RAID and Redundant Power Supplies
FortiNAC-CA-700C	FNC-CA-700C	FortiNAC 700, Ultra High Performance Network Control and Application Server with RAID and Redundant Power Supplies
FortiNAC-M-550C	FNC-M-550C	FortiNAC Manager 550, Network Manager with RAID and Redundant Power Supplies
Virtual Machines	SKU	Description
FortiNAC Control and Application VM	FNC-CA-VM	FortiNAC Control and Application VM Server (VMware or Hyper-V or AWS or Azure or KVM)
FortiNAC Manager VM	FNC-M-VM	FortiNAC Manager VM Server (VMware or Hyper-V or AWS or Azure or KVM)
		LICENSES
Perpetual License	SKU	Description
FortiNAC BASE License 100	LIC-FNAC-BASE-100	FortiNAC BASE License for 100 concurrent endpoint devices. The BASE license provides Endpoint Visibility and Dynamic VLAN Steering.
FortiNAC BASE License 1K	LIC-FNAC-BASE-1K	FortiNAC BASE License for 1K concurrent endpoint devices. The BASE license provides Endpoint Visibility and Dynamic VLAN Steering.
FortiNAC BASE License 10K	LIC-FNAC-BASE-10K	FortiNAC BASE License for 10K concurrent endpoint devices. The BASE license provides Endpoint Visibility and Dynamic VLAN Steering.
FortiNAC BASE License 50K	LIC-FNAC-BASE-50K	FortiNAC BASE License for 50K concurrent endpoint devices. The BASE license provides Endpoint Visibility and Dynamic VLAN Steering.
FortiNAC PLUS License 100	LIC-FNAC-PLUS-100	FortiNAC PLUS License for 100 concurrent endpoint devices. All the functionality of BASE with more advanced Network Access Controls and automated provisioning for users, guests, and devices.
FortiNAC PLUS License 1K	LIC-FNAC-PLUS-1K	FortiNAC PLUS License for 1K concurrent endpoint devices. All the functionality of BASE with more advanced Network Access Controls and automated provisioning for users, guests, and devices.
FortiNAC PLUS License 10K	LIC-FNAC-PLUS-10K	FortiNAC PLUS License for 10K concurrent endpoint devices. All the functionality of BASE with more advanced Network Access Controls and automated provisioning for users, guests, and devices.
FortiNAC PLUS License 50K	LIC-FNAC-PLUS-50K	FortiNAC PLUS License for 50K concurrent endpoint devices. All the functionality of BASE with more advanced Network Access Controls and automated provisioning for users, guests, and devices.
FortiNAC PRO License 100	LIC-FNAC-PRO-100	FortiNAC PRO License for 100 concurrent endpoint devices. PRO license level provides the ultimate in visibility, control and response.
FortiNAC PRO License 1K	LIC-FNAC-PRO-1K	FortiNAC PRO License for 1K concurrent endpoint devices. PRO license level provides the ultimate in visibility, control and response.
FortiNAC PRO License 10K	LIC-FNAC-PRO-10K	FortiNAC PRO License for 10K concurrent endpoint devices. PRO license level provides the ultimate in visibility, control and response.
FortiNAC PRO License 50K	LIC-FNAC-PRO-50K	FortiNAC PRO License for 50K concurrent endpoint devices. PRO license level provides the ultimate in visibility, control and response.



 $<sup>\</sup>ensuremath{^{**}}$  The values in the vCPU column are only guidelines. Individual environments may vary.

## **ORDER INFORMATION**

		LICENSES
Upgrade License	SKU	Description
BASE to PLUS License Upgrade	FNC-LIC-BASE-UPG-100	BASE to PLUS License Upgrade for 100 concurrent endpoint device.
BASE to PRO License Upgrade	FNC-LIC-PRO-UPG-100	BASE to PRO License Upgrade for 100 concurrent endpoint devices.
PLUS to PRO License Upgrade	FNC-LIC-PLUS-UPG-100	PLUS to PRO License Upgrade for 100 concurrent endpoint devices.
Subscription License*	SKU	Description
FortiNAC Subscription Visibility (BASE) 25	FC1-10-FNAC1-215-01-DD	FortiNAC Subscription Visibility (BASE) License for 25 concurrent endpoint devices including 24/7 support. MOQ 500.
FortiNAC Subscription Visibility (BASE) 500	FC2-10-FNAC1-215-01-DD	FortiNAC Subscription Visibility (BASE) License for 500 concurrent endpoint devices including 24/7 support. MOQ 500.
FortiNAC Subscription Visibility (BASE) 10K	FC3-10-FNAC1-215-01-DD	FortiNAC Subscription Visibility (BASE) License for 10K concurrent endpoint devices including 24/7 support. MOQ 500.
FortiNAC Subscription Visibility+Control (PLUS) 25	FC1-10-FNAC1-213-01-DD	FortiNAC Subscription Visibility+Control (PLUS) License for 25 concurrent endpoint devices including 24/7 support. MOQ 500.
FortiNAC Subscription Visibility+Control (PLUS) 500	FC2-10-FNAC1-213-01-DD	FortiNAC Subscription Visibility+Control (PLUS) License for 500 concurrent endpoint devices including 24/7 support. MOQ 500.
FortiNAC Subscription Visibility+Control (PLUS) 10K	FC3-10-FNAC1-213-01-DD	FortiNAC Subscription Visibility+Control (PLUS) License for 10K concurrent endpoint devices including 24/7 support. MOQ 500.
FortiNAC Subscription Visibility+Control+Response (PRO) 25	FC2-10-FNAC1-209-01-DD	FortiNAC Subscription Visibility+Control+Response (PRO) License for 25 concurrent endpoint devices including 24/7 support. MOQ 500.
FortiNAC Subscription Visibility+Control+Response (PRO) 500	FC3-10-FNAC1-209-01-DD	FortiNAC Subscription Visibility+Control+Response (PRO) License for 500 concurrent endpoint devices including 24/7 support. MOQ 500.
FortiNAC Subscription Visibility+Control+Response (PRO) 10K	FC4-10-FNAC1-209-01-DD	FortiNAC Subscription Visibility+Control+Response (PRO) License for 10K concurrent endpoint devices including 24/7 support. MOQ 500.
Training	SKU	Description
FortiNAC Classroom Training	FT-BNS-TR	One seat in a 3-day Administration and Operations training class. Classes are held in Concord NH and at regional locations.
FortiNAC Online Training	FT-BS-TWB	One seat in a 3-session (total 12 hours) web-based Administration and Operation overview training. Remote sessions are delivered online.
Professional Service	SKU	Description
FortiNAC Professional Service	FP-10-PS001-830-01-01	FortiNAC Professional Service - FortiCare Contract Per Day, Contract Based delivery of FortiNAC professional services. Prepaid service that can be used within 1 year of date of purchase.

<sup>\*</sup> Require to purchase FortiNAC VM and/or FortiNAC Manager (for multi-pods deployment) with FortiCare Support contract separately for the Subscription license.



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