

**DATA SHEET**

**FortiNAC™**

Available in



Appliance



Virtual Machine

**FortiNAC 500C, 550C, 600C, 700C, VM, and Licenses**



**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

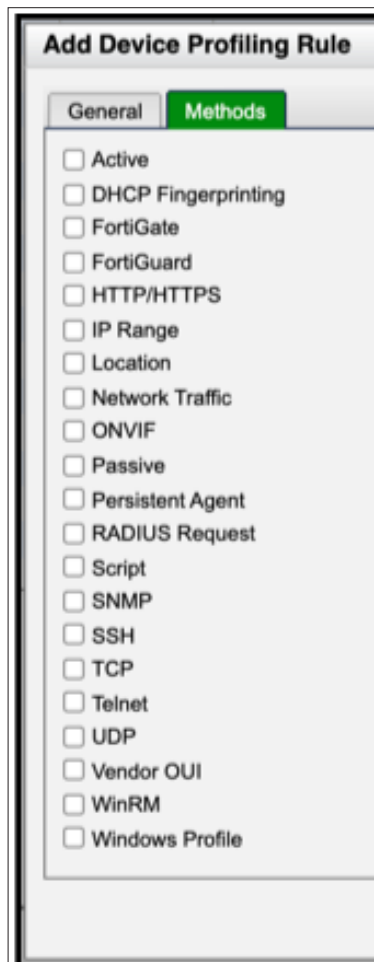
## HIGHLIGHTS

### 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 21 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.



**Add Device Profiling Rule**

General **Methods**

- Active
- DHCP Fingerprinting
- FortiGate
- FortiGuard
- HTTP/HTTPS
- IP Range
- Location
- Network Traffic
- ONVIF
- Passive
- Persistent Agent
- RADIUS Request
- Script
- SNMP
- SSH
- TCP
- Telnet
- UDP
- Vendor OUI
- WinRM
- Windows Profile

**FortiNAC 21 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.



# HIGHLIGHTS

## FortiGate Sessions View

The FortiGate Sessions view adds the ability to accept netflow data from third party devices. Flows from other devices would also show up in this view.

Firewall	Protocol	Source Address	Source MAC	Source Port	Destination Address	Destination MAC	Hostname	Device
10.12.228.1	udp	10.12.235.213	B4-B6-86-89-AD-13	59099	10.12.10.13	00:09:0F:09:00:0A		window-gc
10.12.228.1	udp	10.12.231.234	00:50:56:89:66:CE	58267	10.12.10.13	00:09:0F:09:00:0A	qa-win10-3	window-pc
10.12.228.1	udp	10.12.231.234	00:05:1B:A1:E1:85	62423	10.12.10.13	00:09:0F:09:00:0A	DESKTOP-L6MKJPC	window-gc
10.12.228.1	udp	10.12.231.215	00:50:56:89:17:D9	58493	10.12.10.13	00:09:0F:09:00:0A	DESKTOP-GMGA93Q	window-pc
10.12.228.1	tcp	10.12.231.234	00:50:56:89:66:CE	61050	10.12.102.12	00:09:0F:09:00:0A	qa-win10-3	window-gc
10.12.228.1	tcp	10.12.235.213	B4-B6-86-89-AD-13	56925	10.12.12.33	00:09:0F:09:00:0A		window-gc
10.12.228.1	tcp	10.12.233.141	B4:0C:25:4C:4B:30	19176	10.12.12.39	00:09:0F:09:00:0A		router-nat-device
10.12.228.1	tcp	10.12.231.234	00:50:56:89:66:CE	61052	10.12.14.54	00:09:0F:09:00:0A	qa-win10-3	window-gc
10.12.228.1	udp	10.12.235.213	B4-B6-86-89-AD-13	60826	10.12.228.11	00:50:56:98:36:DF		window-gc
10.12.228.1	tcp	10.12.233.141	B4:0C:25:4C:4B:30	39565	10.12.231.219	AD:CE:C8:5A:02:16		router-nat-device
10.12.228.1	tcp	10.12.231.225	00:50:56:AC:4D:80	56628	10.12.232.42	00:50:56:89:C8:7A	win81-test	window-pc
10.12.228.1	tcp	10.12.233.141	B4:0C:25:4C:4B:30	9335	10.12.242.57	AD:E0:AF:FF:A1:E4		router-nat-device
10.12.228.1	tcp	10.12.231.234	00:05:1B:A1:E1:85	57214	104.300.158.206	00:09:0F:09:00:0A	DESKTOP-L6MKJPC	window-pc
10.12.228.1	tcp	10.12.231.234	00:50:56:89:66:CE	60034	104.102.109.35	00:09:0F:09:00:0A	qa-win10-3	window-gc
10.12.228.1	tcp	10.12.231.234	00:05:1B:A1:E1:85	64311	104.130.146.177	00:09:0F:09:00:0A	DESKTOP-L6MKJPC	window-pc
10.12.228.1	tcp	10.12.231.234	00:50:56:89:66:CE	62160	104.130.146.177	00:09:0F:09:00:0A	qa-win10-3	window-gc
10.12.228.1	tcp	10.12.233.141	B4:0C:25:4C:4B:30	17311	104.155.21.255	00:09:0F:09:00:0A		router-nat-device
10.12.228.1	udp	10.12.231.234	00:50:56:89:66:CE	63810	104.16.19.94	00:09:0F:09:00:0A	qa-win10-3	window-gc
10.12.228.1	tcp	10.12.231.234	00:50:56:89:66:CE	59845	104.16.248.249	00:09:0F:09:00:0A	qa-win10-3	window-gc
10.12.228.1	tcp	10.12.231.234	00:50:56:89:66:CE	60885	104.16.249.249	00:09:0F:09:00:0A	qa-win10-3	window-gc
10.12.228.1	tcp	10.12.231.234	00:50:56:89:66:CE	59946	104.17.244.73	00:09:0F:09:00:0A	qa-win10-3	window-gc
10.12.228.1	tcp	10.12.231.234	00:50:56:89:66:CE	64627	104.17.86.204	00:09:0F:09:00:0A	qa-win10-3	window-gc
10.12.228.1	tcp	10.12.231.234	00:50:56:89:66:CE	64628	104.17.89.204	00:09:0F:09:00:0A	qa-win10-3	window-gc
10.12.228.1	tcp	10.12.231.234	00:50:56:89:66:CE	60009	104.38.101.194	00:09:0F:09:00:0A	qa-win10-3	window-gc

FortiNAC 21 Profiling Methods for Device Classification

## Security Fabric Integrations

FortiNAC integrates with multiple Fortinet products such as FortiGate, FortiSIEM, FortiAnalyzer, FortiEDR, and FortiDeceptor. The Security Rules are triggered by syslog/ snmp messages from the other Fortinet products as shown below.

Rank	Enabled	Name	Trigger	User/Host Profile	Action	Rule Match Email Group	Action Taken Email Group
1	✓	FortiGate Command and Control - Untrusted	FortiGate CnC	≡ Guest Device Profile	Disable Host	All Management Group	All Management Group
2	✓	FortiGate Command and Control - Trusted	FortiGate CnC	≡ Corporate Device Profile	Send Message	All Management Group	All Management Group
3	✓	FortiSIEM Brute Force - Untrusted	Brute Force Trigger	≡ Windows Laptop - Untrusted	Disable Host		
4	✓	FortiSIEM Brute Force - Critical Device	Brute Force Trigger	≡ PLC Profile	Send Message	All Management Group	All Management Group
5	✓	FortiEDR Ransomware - Untrusted	EDR Trigger	≡ Contractor Profile	Disable Host		
6	✓	FortiEDR Ransomware - Critical Device	EDR Trigger	≡ PLC Profile	Send Message		
7	✓	FortiDeceptor - Untrusted	Deceptor Trigger	≡ Guest Profile	Disable Host		
8	✓	FortiDeceptor - Trusted	Deceptor Trigger	≡ HMI Profile	Send Message	All Management Group	All Management Group

FortiNAC Security Rules



# INTEGRATION

Host Status	IP Address	Physical Address	Location	Vendor Name	Access Val...	Connected Container	Rule Name
	10.14.15.10	FC:83:99:44:92:60	OMA_MODG_MDF_SRVR_NX9K_2 Etherne...	Avaya Inc	15	Omaha	Avaya IP Phone
	10.14.15.11	FC:83:99:44:2F:C8	OMA_MODG_MDF_SRVR_NX9K_1 Etherne...	Avaya Inc	15	Omaha	Avaya IP Phone
	10.14.15.12	FC:83:99:44:0E:C8	OMA_MODG_MDF_SRVR_NX9K_1 Etherne...	Avaya Inc	15	Omaha	Avaya IP Phone
	10.14.72.171	00:1D:45:61:69:43	OMA_OOSG_USER_4510_1 Gi1/20	Cisco Systems, Inc	71	Omaha	Cisco IP Phone
	10.14.72.35	00:1D:45:61:6E:EF	OMA_OOSG_USER_4510_1 Gi1/18	Cisco Systems, Inc	71	Omaha	Cisco IP Phone
	10.14.72.41	00:1D:A2:1A:5E:A0	OMA_OOSG_USER_4510_1 Gi1/17	Cisco Systems, Inc	71	Omaha	Cisco IP Phone
	10.14.72.13	00:1D:45:B6:7E:E7	OMA_OOSG_USER_4510_1 Gi1/6	Cisco Systems, Inc	71	Omaha	Cisco IP Phone
	10.14.72.14	00:1D:45:61:61:FD	OMA_OOSG_USER_4510_1 Gi1/5	Cisco Systems, Inc	71	Omaha	Cisco IP Phone
	10.14.72.21	00:1D:45:61:70:6E	OMA_OOSG_USER_4510_1 Gi1/3	Cisco Systems, Inc	71	Omaha	Cisco IP Phone
	10.14.72.23	00:1D:45:7E:1A:DB	OMA_OOSG_USER_4510_1 Gi1/23	Cisco Systems, Inc	71	Omaha	Cisco IP Phone
W	10.14.71.28	98:E7:43:C4:39:7F	OMA_OOSG_USER_4510_1 Gi1/22	Dell Inc.	71	Omaha	Central - Windows
	10.14.72.22	00:1D:45:B6:43:25	OMA_OOSG_USER_4510_1 Gi1/22	Cisco Systems, Inc	71	Omaha	Cisco IP Phone
W	10.14.127.6	CB:F7:50:26:4C:F6	OMA_HBLV_USER_3850_1 Gi1/0/22 [A, Da...	Dell Inc.	127	Omaha	Central - Windows
	10.14.160.177	00:1D:45:B6:41:53	OMA_OODG_EAST_USER_4507_1 Gi2/45	Cisco Systems, Inc	159	Omaha	Cisco IP Phone
	10.14.160.141	00:1D:45:61:68:38	OMA_OODG_EAST_USER_4507_1 Gi2/44	Cisco Systems, Inc	159	Omaha	Cisco IP Phone
	10.14.160.145	00:1D:45:43:A0:D6	OMA_OODG_EAST_USER_4507_1 Gi2/43	Cisco Systems, Inc	159	Omaha	Cisco IP Phone
	10.14.160.64	00:1D:45:61:64:F1	OMA_OODG_EAST_USER_4507_1 Gi2/42	Cisco Systems, Inc	159	Omaha	Cisco IP Phone
	10.14.160.41	00:1C:58:A2:A7:1B	OMA_OODG_EAST_USER_4507_1 Gi2/41	Cisco Systems, Inc	159	Omaha	Cisco IP Phone
	10.14.160.164	00:1D:45:61:70:55	OMA_OODG_EAST_USER_4507_1 Gi2/36	Cisco Systems, Inc	159	Omaha	Cisco IP Phone
	10.14.159.251	00:21:87:0F:59:87	OMA_OODG_EAST_USER_4507_1 Gi6/25	LEXMARK INTERNATI...	159	Omaha	Lexmark Printer
	10.14.159.253	00:21:87:0F:45:E5	OMA_OODG_EAST_USER_4507_1 Gi6/24	LEXMARK INTERNATI...	159	Omaha	Lexmark Printer
	10.14.160.161	00:1D:45:B6:42:CC	OMA_OODG_EAST_USER_4507_1 Gi2/32	Cisco Systems, Inc	159	Omaha	Cisco IP Phone
	10.14.159.254	00:21:87:0F:59:2F	OMA_OODG_EAST_USER_4507_1 Gi6/23	LEXMARK INTERNATI...	159	Omaha	Lexmark Printer

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FortiNAC Adapter View

Device Type 12

Operating System 57

Vendor 21

Source 4

Rogue 943
Registered 3,698
Both

Physical Address	Device Type	Operating System	IP Address	Host Name	Vendor	Vendor OUI	Source
FE:39:67:D8:BF:84	Apple iOS	Apple iPhone/iPad/IP...				FE:39:67	DHCPv4
FE:39:67:D8:BF:84	Apple iOS	Apple iPhone/iPad/IP...				FE:39:67	DHCPv4
FE:39:67:D8:BF:84	Apple iOS	Apple iPhone/iPad/IP...				FE:39:67	DHCPv4
FC:FB:FB:CA:32:22	IP Phone	Cisco embedded HP e...	10.24.183.35		Cisco Systems, Inc	FC:FB:FB	Active
FC:FB:FB:11:BD:19	IP Phone	Cisco embedded HP e...	10.24.170.215		Cisco Systems, Inc	FC:FB:FB	Active
FC:FB:FB:11:BC:87	IP Phone	Cisco embedded HP e...	10.24.182.59		Cisco Systems, Inc	FC:FB:FB	Active
FC:FB:FB:11:BC:87	IP Phone	Cisco		SEPFCEFBFB11BC87	Cisco Systems, Inc	FC:FB:FB	DHCPv4
FC:FB:FB:11:BC:0F	IP Phone	Cisco embedded HP e...	10.24.176.141		Cisco Systems, Inc	FC:FB:FB	Active
FC:FB:FB:11:B9:10	IP Phone	Cisco embedded HP e...	10.24.170.220		Cisco Systems, Inc	FC:FB:FB	Active
FC:FB:FB:10:54:C6	IP Phone	Cisco embedded HP e...	10.24.170.240		Cisco Systems, Inc	FC:FB:FB	Active
FC:FB:FB:10:54:54	IP Phone	Cisco embedded HP e...	10.24.173.63		Cisco Systems, Inc	FC:FB:FB	Active
FC:83:99:44:92:60			10.14.15.10		Avaya Inc	FC:83:99	Active
F8:BC:12:A0:F2:C9	W Windows	Windows 10	10.59.90.123	CCEN0WCA38TMN22	Dell Inc.	F8:BC:12	DHCPv4
F8:BC:12:A0:F2:C9	W Windows	Windows 10		CCEN0WCA38TMN22	Dell Inc.	F8:BC:12	DHCPv4
F8:BC:12:A0:F2:C9	W Windows	Windows 10		CCEN0WCA38TMN22	Dell Inc.	F8:BC:12	DHCPv4

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FortiNAC New Endpoint Fingerprints View



## INTEGRATION

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\*:



<b>Network Infrastructure</b>	Adtran, Aerohive, Alaxala Networks, Alcatel-Lucent, Allied Telesis, Alteon, APC, Apple, APRESIA Systems, Avaya, Brocade/Foundry Networks/Ruckus, Cisco/Meraki, D-Link, Extreme/Enterasys/Siemens, H3C, HP/Colubris/3Com/Aruba, Intel, Juniper, NEC, Riverbed/Xirrus, and SonicWall
<b>Security Infrastructure</b>	CheckPoint, Cisco/SourceFire, Cyphort, FireEye, Juniper/Netscreen, Qualys, Sonicwall, Tenable
<b>Authentication and Directory Services</b>	RADIUS — Cisco ACS, Free RADIUS, Microsoft IAS, LDAP — Google SSO, Microsoft Active Directory, OpenLDAP
<b>Operating Systems</b>	Android, Apple MAC OSX and iOS, Linux, Microsoft Windows
<b>Endpoint Security Applications</b>	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
<b>Mobile Device Management</b>	AirWatch, Google GSuite, MaaS360, Microsoft InTune, Mobile Iron, XenMobile, JAMF, Nozomi Networks

\* 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.

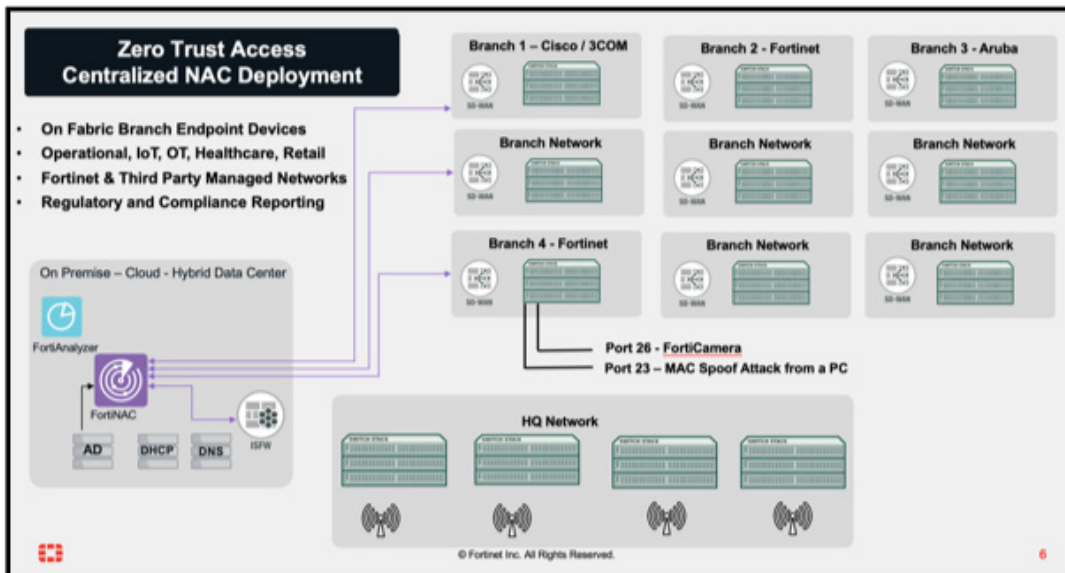
- Application and Control (required)
- Management (optional)
- FortiAnalyzer for Reports (optional)

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.

### High Availability

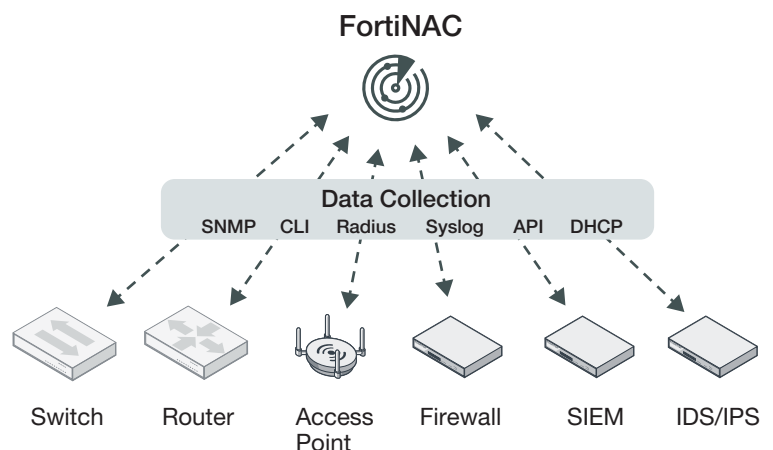
FortiNAC offers High Availability for disaster recovery to ensure redundancy. This state is achieved through active and passive instances where the passive (backup) becomes active when the main is no longer functioning normally. FortiNAC Manager can manage multiple high availability clusters distributed throughout the network as needed.



### 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
Visibility	Network	Network Discovery	☑	☑	☑
		Rogue Identification	☑	☑	☑
		Device Profiling and Classification	☑	☑	☑
	Endpoint	Enhanced Visibility	☑	☑	☑
		Anomaly Detection	☑	☑	☑
		MDM Integration	☑	☑	☑
		Persistent Agent		☑	☑
	User	Authentication		☑	☑
		Captive Portal		☑	☑
		Network Access Policies	☑	☑	☑
Automation / Control	IoT Onboarding with Sponsor	☑	☑	☑	
	Rogue Device Detection and Restriction	☑	☑	☑	
	Firewall Segmentation	☑	☑	☑	
	MAC Address Bypass (MAB)	☑	☑	☑	
	Full RADIUS (EAP)		☑	☑	
	BYOD / Onboarding		☑	☑	
	Guest Management		☑	☑	
	Endpoint Compliance		☑	☑	
	Web and Firewall Single Sign-on		☑	☑	
	Event Correlation			☑	
Incident Response	Extensible Actions and Audit Trail			☑	
	Alert Criticality and Routing			☑	
	Guided Triage Workflows			☑	
Integrations	Inbound Security Events			☑	
	Outbound Security Events		☑	☑	
Reporting	REST API	☑	☑	☑	
	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 2500 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

	FNC-M-550C	FNC-CA-600C	FNC-CA-500C
<b>System</b>			
<b>CPU</b>	Intel Xeon Silver 4210 2.2G, 10C/20T, 9.6GT/s, 13.75M Cache, Turbo, HT (85W) DDR4-2400 (Qty 2)		Intel Xeon E-2124 3.3GHz, 8M cache, 4C/4T, turbo (71W) (Qty 1)
<b>Memory</b>	8GB RDIMM, 3200MT/s, Single Rank (Qty 4)		8GB 2666MT/s DDR4 ECC UDIMM (Qty 2)
<b>Hard Disk</b>	1TB 7.2K RPM SATA 6 Gbps 2.5in Hot-plug Hard Drive (Qty 2)		1TB 7.2K RPM SATA 6 Gbps 3.5in Hot-plug Hard Drive RAID1 (Qty 2)
<b>BMC</b>	iDRAC9 Express, integrated (Qty 1)		iDRAC8 Express (Qty 1)
<b>Network Interface</b>	4× 10/100/1000 Ethernet, RJ45		4× 10/100/1000 Ethernet, RJ45
<b>RAID Card</b>	PERC H330 Integrated RAID Controller (Qty 1)		PERC H330 Integrated RAID Controller (Qty 1)
<b>RAID Configuration</b>	RAID 1		RAID 1
<b>Console Access</b>	Yes *		Yes *
<b>Form Factor</b>	1U Rack Mountable		1U Rack Mountable
<b>Dimensions</b>			
<b>Height x Width x Length (inches)</b>	1.68 × 18.9 × 29.73		1.68 × 17.08 × 24.60
<b>Height x Width x Length (mm)</b>	42.8 × 482.4 × 755.12		42.8 × 434.0 × 625.0
<b>Weight</b>	43.056 lbs (19.76 kg)		43.87 lbs (19.9 kg)
<b>Environment</b>			
<b>Power Supply</b>	Dual 550W Hot Plug Power Supply		Dual 350W Hot Plug Power Supplies
<b>Input Power</b>	100-240V AC Autoranging		100-240V AC Autoranging
<b>Input Current</b>	6.25 A		3.0 A
<b>Cooling</b>	7 fans		4 fans
<b>Panel Display</b>	No LCD		20 Char LCD
<b>Heat Dissipation</b>	2559 BTU/hr		13571 BTU/hr
<b>Operation Temperature Range</b>	50–95°F (10–35°C)		50–95°F (10–35°C)
<b>Storage Temperature Range</b>	-40–149°F (-40–65°C)		-40–149°F (-40–65°C)
<b>Humidity (Operating)</b>	10–80% non-condensing		10–80% non-condensing
<b>Humidity (Non-operating)</b>	5–95% non-condensing		5–95% non-condensing
<b>Certification</b>			
<b>Safety</b>	Certified as applicable by Product Safety authorities worldwide, including United States (NRTL), Canada (SCC), European Union (CE).		
<b>Electromagnetic (EMC)</b>	Certified as applicable by EMC authorities worldwide, including United States (FCC), Canada (ICES), European Union (CE).		
<b>Materials</b>	Certified as applicable by Materials authorities worldwide, including European Union (ROHS) and China (ROHS).		

\* 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	
<b>System</b>	
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)
BMC	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
<b>Dimensions</b>	
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)
<b>Environment</b>	
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)	10–80% non-condensing
Humidity (Non-operating)	5–95% non-condensing
<b>Certification</b>	
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).

\* 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	Type	Target Environment	Capacity
FortiNAC-CA-500C	Standalone Appliance (Integrated Control Server and Application Server)	Small Environments	Manages up to 2000 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

\* "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 2000 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	20	32 GB	100 GB
Up to 25 000 ports in the network*	Large Environment	FNC-CA-VM	36	96 GB	100 GB
Unlimited	Large Environment	FNC-M-VM	20	32 GB	100 GB

\* "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.

\*\* The values in the vCPU column are only guidelines. Individual environments may vary.

## ORDER INFORMATION

Appliances	SKU	Description
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.



## ORDER INFORMATION

LICENSES		
Upgrade License	SKU	Description
<b>BASE to PLUS License Upgrade</b>	FNC-LIC-BASE-UPG-100	BASE to PLUS License Upgrade for 100 concurrent endpoint device.
<b>BASE to PRO License Upgrade</b>	FNC-LIC-PRO-UPG-100	BASE to PRO License Upgrade for 100 concurrent endpoint devices.
<b>PLUS to PRO License Upgrade</b>	FNC-LIC-PLUS-UPG-100	PLUS to PRO License Upgrade for 100 concurrent endpoint devices.
Subscription License*	SKU	Description
<b>FortiNAC Subscription Visibility (BASE) 25</b>	FC1-10-FNAC1-215-01-DD	FortiNAC Subscription Visibility (BASE) License for 25 concurrent endpoint devices including 24/7 support. MOQ 500.
<b>FortiNAC Subscription Visibility (BASE) 500</b>	FC2-10-FNAC1-215-01-DD	FortiNAC Subscription Visibility (BASE) License for 500 concurrent endpoint devices including 24/7 support. MOQ 500.
<b>FortiNAC Subscription Visibility (BASE) 10K</b>	FC3-10-FNAC1-215-01-DD	FortiNAC Subscription Visibility (BASE) License for 10K concurrent endpoint devices including 24/7 support. MOQ 500.
<b>FortiNAC Subscription Visibility+Control (PLUS) 25</b>	FC1-10-FNAC1-213-01-DD	FortiNAC Subscription Visibility+Control (PLUS) License for 25 concurrent endpoint devices including 24/7 support. MOQ 500.
<b>FortiNAC Subscription Visibility+Control (PLUS) 500</b>	FC2-10-FNAC1-213-01-DD	FortiNAC Subscription Visibility+Control (PLUS) License for 500 concurrent endpoint devices including 24/7 support. MOQ 500.
<b>FortiNAC Subscription Visibility+Control (PLUS) 10K</b>	FC3-10-FNAC1-213-01-DD	FortiNAC Subscription Visibility+Control (PLUS) License for 10K concurrent endpoint devices including 24/7 support. MOQ 500.
<b>FortiNAC Subscription Visibility+Control+Response (PRO) 25</b>	FC2-10-FNAC1-209-01-DD	FortiNAC Subscription Visibility+Control+Response (PRO) License for 25 concurrent endpoint devices including 24/7 support. MOQ 500.
<b>FortiNAC Subscription Visibility+Control+Response (PRO) 500</b>	FC3-10-FNAC1-209-01-DD	FortiNAC Subscription Visibility+Control+Response (PRO) License for 500 concurrent endpoint devices including 24/7 support. MOQ 500.
<b>FortiNAC Subscription Visibility+Control+Response (PRO) 10K</b>	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
<b>FortiNAC Classroom Training</b>	FT-BNS-TR	One seat in a 3-day Administration and Operations training class. Classes are held in Concord NH and at regional locations.
<b>FortiNAC Online Training</b>	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
<b>FortiNAC Professional Service</b>	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.

\* 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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