



FortiNAC - Release Notes

Version 9.1.9

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FortiNAC 9.1.9 Release Notes

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Change log

| Date | Change Description |
|-----------|--------------------|
| 2-23-2023 | Initial release. |

Overview of Version 9.1.9

Version 9.1.9 is the latest release being made available to customers to provide functionality and address some known issues.

Build number: 0179

Important

- 9.1.0+ uses a new GUI format. FortiNAC cannot go backwards to a previous version. Snapshots should always be taken on virtual appliances prior to upgrade.
- 8.8.x: When upgrading from a pre-8.8 version to 8.8 or higher, the upgrade may hang if the appliance does not have external FTP access. The upgrade introduces a new local RADIUS server feature that requires additional CentOS patches. The download and installation of the patches occur during the upgrade process. A new .repo file is written in order to download the patches and specifies FTP as the transfer protocol.

Customers that currently do not have a README and want to upgrade themselves should do the following:

- a. Modify firewall to allow FTP access for the eth0 IP address for each appliance until upgrade is completed
- b. Once completed, modify the repo files to the desired protocol for future OS updates. For instructions, see section "Change Transfer Protocol to HTTP/HTTPS" in the [CentOS Updates](#) document in the Fortinet Document Library.

Customers that currently have a README, do not want to upgrade themselves, or cannot make the temporary firewall change should contact Support to schedule the upgrade.

- Requires access to downloads.bradfordnetworks.com from each appliance or virtual machine. The update automatically installs CentOS files for the new Local Radius Server feature on the Control Server(s). If access is blocked, the software upgrade will fail. The default transfer protocol can be changed from FTP to either HTTPS or HTTP. For instructions, refer to the Appendix of the CentOS Updates (<https://docs.fortinet.com/document/fortinac/8.3.0/updating-centos>) reference manual.
- Prior to upgrade, review the FortiNAC Known Anomalies posted in the [Fortinet Document Library](#).
- If using agents or configured for High Availability, additional steps may be required after upgrade for proper functionality. See [Upgrade Instructions and Considerations](#) posted in the Fortinet Document Library.
- Requires CentOS 7.4 or higher. The current CentOS version installed is listed as "Distribution" in the CLI login banner or typing "sysinfo".

Example:

```
> sysinfo
*****
```

```
Recognized platform: Linux
```

```
Distribution: CentOS Linux release 7.6.1810 (Core)
```

If the CentOS version is below 7.4, run OS updates and reboot before upgrading. For instructions on updating CentOS, refer to the Fortinet Document Library.

- For upgrade procedure, see [Upgrade Instructions and Considerations](#) posted in the Fortinet Document Library.

Supplemental Documentation

The following can be found in the [Fortinet Document Library](#).

- 8.x Fixes and Enhancements Summary
- FortiNAC Release Matrix

Version Information

These Release Notes contain additional Enhancements, Device Support, and features. Unique numbering is used for the various components of the product. The software version and Agent version supplied with this release are listed below.

Version: 9.1.9

Agent Version: 5.2.6

A newer Persistent Agent may be required to support certain antivirus and anti-spyware products. Refer to the Agent Release Notes in the [Fortinet Document Library](#).

Firmware version represents a collection of system services and operating system features imaged on to the appliance before it leaves manufacturing. The firmware image cannot be updated by a Fortinet customer. Services within the image are updated by Fortinet or a certified Fortinet Partner in appliance maintenance packages released as new more robust and secure versions of services become available.

Note that upgrading software versions does not change firmware nor does it automatically require an upgrade to the Persistent Agent. Newer Persistent Agents are not compatible with older software versions unless that capability is specifically highlighted in the corresponding release notes.

Compatibility

FortiNAC Product releases are not backwards compatible. It is not possible to go from a newer release to any older release.

Example: 7.2 F cannot be downgraded to any other release.

To backup the current system prior to upgrade on virtual machines, perform a snapshot. For physical appliances refer to the document Back Up and Restore an Image of a FortiNAC Appliance.

Agents

FortiNAC Agent Package releases 5.x are compatible with FortiNAC Product release 9.x. Compatibility of Agent Package versions 4.x and below with FortiNAC versions 8.x and greater are not guaranteed.

Web Browsers for the Administration UI

Safari web browser version 6 or greater

Google Chrome version 26 or greater

Mozilla Firefox version 20 or greater

Internet Explorer version 9.0 or greater

Opera version 12.15 or greater

Many of the views in FortiNAC are highly dependent on JavaScript. The browser used directly impacts the performance of these views. For example, the new Host view in one browser may take 2 seconds to load, but the same view in a different browser may take 20 seconds. To improve performance, it is recommended that you choose a browser which is fast at processing JavaScript, such as, Google Chrome. Articles on comparing the performance of various web browsers are freely available on the internet. Some performance sites include:

- <http://legitreviews.com/article/1347/1/>
- <http://w-shadow.com/blog/2010/04/20/web-browser-performance-comparison/>
- <http://sixrevisions.com/infographs/browser-performance/>
- <http://w-shadow.com/blog/2010/11/03/browser-performance-comparison/>

If your browser is not optimized for processing JavaScript, you may see an error message display when accessing a view that uses JavaScript. The message will vary depending on your browser.

Example:

Warning: Unresponsive script

A script on this page may be busy, or it may have stopped responding. You can stop the script now or you can continue to see if the script will complete.

Script: http://<IP>/js/yui/yahoo-dom-event/yahoo-dom-event.js:8"

Operating Systems Supported Without an Agent

| | | | |
|--------------|----------------|---------------|------------------|
| Android | Apple iOS | Blackberry OS | BlackBerry 10 OS |
| Chrome OS | Free BSD | Kindle | Kindle Fire |
| iOS for iPad | iOS for iPhone | iOS for iPod | Linux |
| Mac OS X | Open BSD | Net BSD | RIM Tablet OS |
| Solaris | Symian | Web OS | Windows |
| Windows CE | Windows Phone | Windows RT | |

New Features

| | |
|------------------------------------|-----------|
| New Features in 9.1.9 | 10 |
| New Features in 9.1.8 | 10 |
| New Features in 9.1.7 | 10 |
| New Features in 9.1.6 | 10 |
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| New Features in 9.1.3 | 11 |
| New Features in 9.1.2 | 11 |
| New Features in 9.1.0 | 11 |

New Features in 9.1.9

There are no new features in 9.1.9.0179.

New Features in 9.1.8

There are no new features in 9.1.8.0172.

New Features in 9.1.7

There are no new features in 9.1.7.0166

New Features in 9.1.6

There are no new features in 9.1.6.0162

New Features in 9.1.5

There are no new features in 9.1.5.0147.

New Features in 9.1.4

There are no new features in 9.1.4.0141.

New Features in 9.1.3

There are no new features in version 9.1.3.0134.

New Features in 9.1.2

- Added the ability to send FSSO information to the FortiGate even when the endpoint is not directly connected. Requires the Persistent Agent. For details, see section "Unknown Location Endpoint Management" of the FortiNAC Security Fabric Integration Guide in the Document Library.

New Features in 9.1.0

- New GUI Format
- Added ability to customize SMS and e-mail message client receives during Self Registration. For detail, see Send SMS messages in the Administration Guide.
- Added support for multiple VDOMs for WLC
- Detection of:
 - WIRELESS connectivity to non-whitelisted SSIDs (hotspot)
 - Dual-homed connections
- FortiNAC Portal Theme updated to look more modern
- Added MDM polling to the NCM level
- Captive Portal enhancements and Social Media Login options. See Social Media for Captive Portal in the Administration Guide for more details.

Enhancements and Addressed Issues

These changes have been made in FortiNAC Version 9.1. These are in addition to the device support added in previous releases.

Version 9.1.9

| Ticket # | Description (9.1.9.0179) |
|----------|---|
| 883146 | campusMgr restarting over and over. |
| 835782 | Applying a license key in the Configuration Wizard can result in a "HTTP Status 500 – Unable to compile class for JSP" error message. |
| 719358 | Call to systemd-detect-virt is failing. |
| 764415 | REST API consumed different media types than the UI provided. |
| 808088 | Alarms stop generating notifications. Affects environments with notifications configured for high frequency alarms. |
| 830534 | SQL syntax error displayed when configuring High Availability. |
| 833327 | Static Routes no longer present after reboot/FortiNAC service restart. |
| 835838 | S5735-L24P4X-A1 and AR129CGVW-L have duplicate mappings. |
| 836136 | Guest passwords not read correctly out of the database. |
| 837023 | Exception unmarshalling REST Ping message. |
| 841405 | Users & Hosts - Locate Hosts: Clicking icon in Views column leads to view with 'Login failed for: root' message. |
| 842713 | Clicking "Resume Control" returns red message "Unknown Error has occurred". |
| 845454 | Remote backup fails to copy files to remote server. |
| 845894 | Display Public SSH Keys not returning key data. |
| 846257 | HTTP 415 error occurs when generating a guest password. |
| 848620 | Appliances do not start after configuring L2 High Availability with a shared IP. |
| 852946 | System Management settings cannot be saved due to error (HTTP 500). |
| 855199 | Config Wizard apply script not completing. |
| 703770 | Merged control_manager and master_loader. Logs now written to output.master. |
| 730181 | Custom Reporting tabs not available. |
| 766858 | Administration UI not accessible after ResetToFactoryDefaults. |

| Ticket # | Description (9.1.9.0179) |
|------------------|---|
| 853025 | Nested port groups are not synchronized from Manager (NCM) to managed FortiNAC appliance. |
| 869097 | Prioritize the IP -> MAC value provided by RadiusServer for managed wireless clients. |
| 875588 | Allow users to be removed from the All Administrators group. |
| 877934 | LDAP communication failure if Primary AD is reachable but Secondary is not. |
| 879782 | Create/Modify Administrator User Generates Error But Still Performs Action. |
| 0830902, 0789649 | High Availability configurations may fail with a DHCP related error when appliances do not have eth1 interfaces configured. |
| 834094 | Manager (NCM) not properly synchronizing nested Global Groups |
| 834089 | |
| 845493 | |
| 845505 | |

Version 9.1.8

| Ticket # | Description (9.1.8.0172) |
|----------|--|
| 775679 | Hosts are incorrectly enabled after an LDAP sync. |
| 795932 | RADIUS authentication fails when primary LDAP directory is down. |
| 802969 | Account Requests view has incorrect or missing sort keys. |
| 804759 | In Users & Hosts > User Accounts, clearing a value in the search box and clicking enter results in several empty rows. |
| 810167 | iOS fingerprints misclassified as macOS. |
| 811775 | Performance improvements with client lookups. |
| 812581 | Duplicate user ID exceptions during RADIUS authentication when userID does not match the name in an email address. |
| 812674 | CoA is not being sent to Huawei wireless after host has registered. |
| 812908 | /var/log/messages is not rotating, generating large files and high disk usage. |
| 813564 | FortiNAC fails to find API port from FortiSwitch. |
| 816407 | FortiGate L3 polling doesn't update the client IP. |
| 816871 | System Update settings do not update on the Secondary Server in High Availability environments. |
| 817845 | L2 Polling queue backed up, excessive polling completion times. |

| Ticket # | Description (9.1.8.0172) |
|------------------------|---|
| 819384 | Added DHCP fingerprint for Fortinet IP Phone. |
| 819753 | FSSO Tag assignment is not triggered before the next L3 poll. |
| 821244 | Device Profiler failing to match Fortiguard method when Fortiguard polling returns confidence values over 127. |
| 821527 | RADIUS does not start after upgrade from 9.4.0.0717 GA to 10.0.0.0013. |
| 823955 | Wireless clients connected to FortiAP show up in FortiNAC on wrong interface. |
| 825755 | FSSO fails to send groups to FortiGate. |
| 825920 | Ruckus SZ Controller: When NAS ID = Controller IP and the Source IP = Access Point IP, RADIUS CoA fails unexpectedly. |
| 826155 | Updated OUIs. |
| 832965 | COA Disconnect not working on Juniper EX. |
| 833332 | When an Admin user changes their own password, and error message appears and they are immediately logged out. |
| 833351 | Guests: Cannot modify Guest - Invalid Password error. |
| 833429 | Config Wizard: Clicking Next or Back on any non-Basic Network page returns user to Basic Network page. |
| 833440 | Config Wizard: Clicking Cancel in Add Scopes page gives 500 Internal Server Error. |
| 833700 | RADIUS server fails to enable when upgrading from build 0721 to 0722. |
| 834144 | HTTP 500 error when entering license code. |
| 834302 | Updating NTP generates "Failed to save Time Config". |
| 834479 | When creating a new user via the REST API (and thus GUI), the password was not hashed properly. |
| 751468, 811479, 770730 | RADIUS/Winbind services need manual startup to handle system reboot. |

Version 9.1.7

| Ticket # | Description (9.1.7.0166) |
|----------|---|
| 770974 | Event Lifetime alarm trigger rule is not being honored when configured. |
| 781520 | RADIUS COA failing for FortiAP when hosts are deleted. |
| 789970 | Portal renaming does not rename the associated CSS files. |
| 795260 | Motorola controllers proxying AP auth requests send Proxy-State attr and expect it unchanged in response. RADIUS (local) does not send it back. |

| Ticket # | Description (9.1.7.0166) |
|------------------|--|
| 796065 | Unable to set device profiling to Host to Logged in User (if Present) on NCM. |
| 800408 | API query for FortiLink FortiSwitch data deprecated in FOS 7.2+.Prevents FortiSwitches in Link mode from being added to Inventory when the managing FortiGate is discovered. |
| 802114 | Juniper EX9253 and qfx5120-48y-8c, Type is "Unknown" and Version is null in the Inventory. |
| 802923 | ClassCastException when creating/deleting trigger. |
| 802942 | Parsing issue with Mobile Iron Cloud integration. |
| 805866 | Scheduled Shared Filter Reports result in error event. |
| 806122 | Roles not being assigned properly to Registered Hosts. |
| 806567 | known_hosts file has duplicate host entries. |
| 806616 | RADIUS COA failing for a variety of devices when hosts are deleted. |
| 807062 | On upgrade, FortiNAC loses its eth0 IP Address. |
| 807689 | For endpoints managed in SSO integrations, FortiNAC no longer performs L3 polls for Rogue hosts. They are not necessary. |
| 801948 803681 | New deployed server will not start: java.sql.SQLException: Connections could not be acquired from the underlying database. |
| 809538 | High Availability Database sync failure |
| 804518 | Local Radius leaves out Tunnel-Private-Group-ID and Filter-ID when Quarantine enforcement is set to bypass |
| 811447 | Upgrade failed due to: Operation CREATE USER failed for nac@localhost |
| 810180 810167 | Fixed fingerprints for iOS, FGT and FSW |
| 812590 | Config wizard inaccessible |

Version 9.1.6

| Ticket # | Description (9.1.6.0162) |
|----------|--|
| 640841 | SSH connection to some Alaxala switches fail. |
| 741373 | Support for Mobile Iron V2 API |
| 743180 | Issue with parsing saved filters that are blank in SharedClient Filters. |
| 746585 | Cisco Mac Move Notification Trap support. |

| Ticket # | Description (9.1.6.0162) |
|----------|---|
| 752792 | Device Profiling Rule registration not setting user/group membership. |
| 754605 | Added Tripp Lite DHCP fingerprints |
| 756499 | Support for "ethernetMacAddress" for MicroSoft InTune MDM integration for the latest API. |
| 757705 | Legacy SSO requires tags to be configured even though they are not used.Applies to FortiGate integrations. |
| 758009 | Added support to change VLANs via CLI on Allied Telesyn 8000S. |
| 759018 | Admin user with admin user profile permissions to Access, Add/Modify and delete "Users" is unable to create a new regular user. |
| 761276 | User/Host Profile with Location does not use Portal defined in Portal Configuration. |
| 762081 | bsc-rename-ethers service fails on virtual machines. |
| 762702 | Improved FortiClient EMS polling.Previously, not all hosts were retrieved upon a poll, causing some hosts not to register. |
| 765477 | FortiClient EMS test connect still fails after correcting a credential mistake. |
| 765483 | Fortinet EMS Version parsing is broken for EMS 7.0. |
| 766600 | L3 polling support for Inhand IR915L Router |
| 767209 | Aerohive VLAN interfaces do not update on resynchronization after VLAN ID or Profile ID change. |
| 768329 | Fail to determine port type for Cisco SG Switches with latest Cisco firmware. |
| 768785 | The GUI value "Registered Host" now displays as "Registered Host With Owner". |
| 768822 | FortiSwitch does not respond to Change of Auth (COA) packet due to FortiNAC not sending the correct secret. |
| 769558 | NullPointerException registering a rogue host from the Hosts View. |
| 769851 | Accounting Stop Message is discarded from Link Mode FortiSwitches when using Local Radius. |
| 770034 | FGT 1800F labeled as 1500D |
| 770208 | Juniper switches fail to change VLAN on ports that are RADIUS enabled. |
| 770695 | Local RADIUS fails to find correct port on Extreme Summit X, preventing proper VLAN assignment. |
| 770738 | Ruckus API version detection not working for login API |
| 770930 | High L3 Polling frequency in environments with no SSO management configured. |
| 771038 | Port State Actions without clear actions cannot be saved in Event to Alarm mapping. |

| Ticket # | Description (9.1.6.0162) |
|----------|---|
| 771149 | "Confirm Device Rule on Connect" does not work properly when "Confirm Device Rule on Interval" is also enabled within the same Device Profiling rule. |
| 771157 | MobileIron Cloud application poll can fail if licenseID is too long. |
| 771506 | Erroneous creation of redundant unique keys could overfill Group table key limits. |
| 771685 | Apresia integration RADIUS 802.1x support incomplete. |
| 771705 | Change Inhand mib file to not use WRITE_HIDDEN in 9.1. and 9.2. |
| 773828 | Not polling L2 information from PNetworks switches with latest firmware. |
| 773841 | Meraki Switch VLAN read/set fails when the ifIndex does not match the dot1d index. |
| 774202 | Adjusted timestamp in syslog CEF message format. Previous formatting prevented some systems from properly processing syslog from FortiNAC. |
| 774724 | Unable to filter Hosts and Adapters by status through API. |
| 776123 | Unable to add/modify groups starting with "!" (bang). |
| 777124 | A higher ranked policy more general than a lower ranked policy is still honored if disabled. Lower ranked policy displays with a strike-through and is ignored. |
| 777511 | RADIUS support for HP 2910 and 2920 switches. |
| 777778 | Juniper switch VLAN change fails using 802.1x authentication and Proxy RADIUS. |
| 778108 | Windows domain check Device Profiling method fails if there is no domain user logged on. |
| 778112 | Performance issue when performing group membership lookups. Symptoms include usually high CPU utilization. |
| 778157 | L2 Polling issues with Cisco 9800 WLC firmware 17.3. |
| 778520 | Added SQL query for GroupManager.getGroupsMembershipIDs() when determining group membership in order to improve performance. |
| 779901 | Vulnerabilities in mysql versions less than 5.6.42. |
| 780626 | Huawei Wireless controller imports nameless APs. |
| 780790 | CLI Failing to Alcatel Omni 6860-P48. |
| 782374 | L2 polling not parsing correctly for Motorola 7.X devices. |
| 782740 | Unable to read default and current vlans for Ruijie switches. |
| 783227 | Operating System updates from the UI fail when freeradius gpg key is not present. |
| 783544 | Fortigate FG-200F improperly labeled as FG-201E. |
| 783621 | Host import related Memory issues. |
| 783944 | Exception reading VLANs or SSIDs on Meru 4100 with firmware 5.1-93. |

| Ticket # | Description (9.1.6.0162) |
|----------|--|
| 784601 | Group membership lookup causing high CPU utilization. |
| 784957 | Not polling L2 information from Cisco ME-3400E-24TS-M router. |
| 786401 | Remote Scan -> Linux x86_64 -> 500 Error |
| 787563 | NullPointerException (NPE) during L2 poll of Meraki. |
| 787585 | DHCP fingerprints are not matching DHCP message type. |
| 788825 | <p>DHCP fingerprint additions, changes or improvements.</p> <p>Added: "Camera","D-Link"; "Camera","TRENDnet"; "HVAC","Honeywell"</p> <p>Updated: "Mobile","Samsung SmartWatch"; "Gaming","Nintendo"; "Network","Router/Netgear"; "Network","Router/D-Link"; "Network","Router/Trendnet"</p> <p>Changed Device Type: "Network","Apple TV" -> "internet_tv","Apple TV"; "Network","Amazon Fire TV" -> "internet_tv","Amazon Fire TV"; "Network","Chromecast" -> "internet_tv","Chromecast"; "Network","DIRECTV" -> "internet_tv","DIRECTV"; "Network","DVR/TiVo" -> "internet_tv","DVR/TiVo"; "Network","Roku Media Player" -> "internet_tv","Roku Media Player"</p> |
| 790403 | ClassCastException in AirespaceSwitch during WAP read. |
| 790747 | FortiGate interface with VLANs does not show device connections to VLAN sub interfaces for device detection traps. |
| 794362 | System Update not reliably trusting fnac-updates.fortinet.net. |
| 793920 | Default Admin Profiles Have No Permissions |
| 782760 | Huawei S7706 switch does not correctly reflect the interface port number in Label column. |
| 792522 | Fix Database auth changes for initial install |
| 797465 | Nested group memberships not detected. |
| 794362 | System Update not reliably trusting fnac-updates.fortinet.net. |
| 799842 | Endpoint Compliance - Policies: Takes 30 seconds to create policy, exception occurs due to user clicking OK more than once. |
| 756499 | MS InTune MDM integration does not support latest API. |
| 782433 | Fix Integration for D-Link DGS-3130-30TS. |
| 784618 | RADIUS Failures after upgrading from 8.5 to 8.8 due to bad secret. |
| 788729 | Randomly RADIUS 802.1x proxy stops working. |
| 790854 | Failure to properly read Cisco trunk ports results in undesired VLAN switching. |

| Ticket # | Description (9.1.6.0162) |
|----------|--|
| 791304 | Admin Profile > Uncheck All removes General permissions. |
| 791327 | FortiNAC is changing WAP Uplink ports Current VLAN to match the Default VLAN. |
| 791342 | Manually Registered IP Phones get incorrect device type assigned. |
| 798511 | Upgrading from 0159 to 0160 results in error: Access denied for user nac@localhost (using password: NO). |

Version 9.1.5

| Ticket # | Description (9.1.5.0147) |
|----------|---|
| 566257 | Huawei wireless controller integration |
| 609121 | Support reading new SSID table format for Aruba IAP. |
| 707136 | Audit Log overlay uses the same filters as the parent datatable. |
| 723743 | Unable to change VLANs on Cisco 9500 switch with TwentyFiveGigEthernet ports. |
| 740427 | FortiNAC REST API: Added API call "/device/move" (move a Network Device from one container to other container). |
| 741639 | Parsing issue reading VLANs and L3 data of DellSwitchOS10 models |
| 742523 | LDAP server shows up as a rogue host icon in Topology/Inventory. |
| 742889 | Virtualized Devices UI/Tab should not show the internal dmngmt-vdom. |
| 746629 | Support for Aruba switch mac notification traps. |
| 746729 | Added support for MobileIron cloud solution. |
| 747920 | During Device Discovery, SNMP v2c is now used by default instead of v1. |
| 749846 | Evaluation Time and High Availability tooltips are undefined in the License Management view. |
| 751181 | Cisco SG/SF switches with the word "All" in the banner fail to log-in. |
| 753384 | FortiNAC REST API: Added an optional boolean for "add-to-parents" that determines if doing an add or replace. Previously, would remove existing group membership unless both existing parent group and new parent group IDs were specified. |
| 753385 | FortiNAC REST API: Add-members now able to add a group to another group of same type (Host, User or Port) using Group ID. |

| Ticket # | Description (9.1.5.0147) |
|----------|---|
| 753662 | Telnet/SSH timeouts can now be configured per device from the CLI or from the "Credentials" tab in the UI. |
| 754212 | Security events not always resolving IP to MAC, resulting in inconsistent security event generation. |
| 754619 | Hosts CSV files with rule names could not be cleanly imported. |
| 757749 | Added REST API support for Ruckus v6.0. Previously, wireless clients connected to Ruckus were inaccurately showing offline in FortiNAC. |
| 758282 | DeviceManager NullPointerException |
| 758517 | Creating Guest accounts in GUI adds start date in the incorrect format. |
| 758535 | Improved performance of CSV imports. Previously, import was very slow. |
| 759181 | Improved event storage management. Previously, databases had the potential to grow unusually large, causing issues with upgrades and database replication in High Availability environments. |
| 759245 | DHCP fingerprints: Updated Wii and added definitions for LG internet TV and PS5. |
| 759768 | RADIUS disconnect not sent for Juniper wired switches when using RADIUS authentication. |
| 760197 | macOS Monterey hosts running the Dissolvable Agent are unable to obtain configuration from server. |
| 760409 | Cannot L2 poll Ruijie switches. |
| 760424 | Check for OS updates from the GUI is failing. |
| 760596 | API reporting wrong FortiNAC version in its system/local-properties/cluster GET. |
| 761362 | ForwardingInterface debug: Enhanced API related output for FortiGate and FortiSwitch integrations. |
| 761623 | Added option to find host by serial number in PA server if unable to find by MAC address. Addresses issue where MicroSoft InTune sometimes returns randomized WiFi MAC Address (which are ignored by FortiNAC). |
| 762240 | Duplicate Groups in FortiNAC causing SSO Tags to not be sent. |
| 762421 | Proxy RADIUS to Cisco switch fails due to port lookup failure. |
| 762438 | EMS server integration failing to correctly report compliance. |
| 762456 | FortiNAC attempts to Deauth hosts that are not managed by FortiNAC from Aruba Controller SSID. |
| 762743 | Accounting Stop Message Discarded from Link Mode FortiSwitches. This prevents hosts from being marked "offline" as expected. |
| 764011 | Control Manager (NCM) Server List sometimes takes a long time to load. |
| 765227 | Roles on Manager (NCM) cannot be changed. |

| Ticket # | Description (9.1.5.0147) |
|----------|--|
| 765252 | Exception in CheckMacRunnable after initializing database. |
| 765411 | Not able to change VLAN's on Cisco Meraki MS250-48FP. |
| 765562 | Resynchronization of SSO sessions does not re-add any missing SSO sessions. |
| 766595 | NoSuchProviderException in Radius Certificate initialization logic. |
| 768711 | Cannot import host record CSV due to serialization error. |
| 764017 | New DHCP fingerprint definitions for FortiFone and FortiCamera (Operating System). |

Version 9.1.4

| Ticket # | Description (9.1.4.0142) |
|----------|--|
| 611613 | Topology > Set Model Configuration option does not apply selected "Send Groups to the Firewall" and "Selected Groups" options for the FortiGate Virtual Device Model Configuration |
| 666285 | FGT interface with VLANs does not show device connections to VLAN sub interfaces |
| 691918 | Improved Local RADIUS/winbind service operation visibility and debugging in GUI |
| 709559 | Mist AP L2 Polling failure |
| 721204 | D-Link Switch Mac Notification trap support |
| 728862 | Enhanced DeviceImport CLI tool including SNMPv3 support. For details on all options, type "DeviceImport" in the CLI |
| 734133 | Pnetworks switch integration |
| 735553 | CLI and Vlan switching not functioning for Allied and Rugged devices |
| 735791 | Secondary servers do not retain contract entitlements |
| 739674 | Local RADIUS post-auth failing - Null Pointer Exception attempting to auth on generic/unknown devices (Moxa) |
| 740229 | Control Manager (NCM): Renaming scans and syncing creates duplicate scans |
| 741811 | Update of Adapter IPs causes empty replaces of DYNAMIC table |
| 741864 | Switching port vlans fails for Rugged devices |
| 741929 | Control Manager (NCM) is throwing an IOException for Too many open files |
| 741938 | HostRecords are cached by mac & used by multiple processes which can overwrite PolicyHints field in use by different process |

| Ticket # | Description (9.1.4.0142) |
|----------|--|
| 741952 | No response when adding new network devices |
| 742347 | IndexOutOfBoundsException in BridgeManager.VlanVerifyVector.put() |
| 743243 | Remove unnecessary exceptions for Jamf JSON parsing |
| 743543 | Caching of dot1qIDtoVIDMappings not working on Juniper switches |
| 743627 | RADIUS CoA not working with Ruckus mac-authentication sessions |
| 744025 | Location based Device profiling rule does not work consistently |
| 744100 | Unable to pull mac address information from Ruckus running V 5.2. Ruckus requires REST queries to contain a serviceTicket |
| 744313 | SNMP errors for Mist APs in Event Logs |
| 744371 | Request count is set to startIndex+999, rather than endIndex-startIndex |
| 745058 | Unexpected duplicate and invalid mac addresses in Airwatch MDM cause slow or failed MDM polls |
| 745083 | Control Manager (NCM) Sync fails with ArrayIndexOutOfBoundsException |
| 745133 | SSH is intermittently failing to some Cisco devices |
| 745444 | Certificate Upload and Delete not working for RADIUS targets |
| 746551 | TAG not assigned in VDOM other than root |
| 746570 | Importing using Start Discovery errors with start IP must be after end IP |
| 746923 | Server startup may hang if the appliance doesn't have access to the web |
| 746958 | Local RADIUS can't find root VDOM for wireless authentication |
| 746959 | nacprobe service does not restart after failure |
| 746986 | Separate app servers unable to update OS when using fnac-updates.fortinet.net |
| 747265 | Hosts learned from AirWatch with unusually long hostnames |
| 747276 | Mist APs created with incorrectly formatted MAC address, L2 polling doesn't work |
| 747324 | When using port security on this switch, FortiNAC can no longer see any MAC addresses connected and is unable to read anything |
| 747378 | Unable to register multiple hosts as a device from host view |
| 747935 | Local RADIUS - "Authentication Failure" event/alarm is triggered after successful authentication |
| 748041 | Default Portal Self-signed cert is owned by root, should be nac. Causes deployment of new self-signed certs to fail |
| 748661 | Not sending SSO tags for Fortinet VPN clients |
| 749837 | Potential ClassCastException syncing objects between Control Manager (NCM) and pods |

| Ticket # | Description (9.1.4.0142) |
|----------|--|
| 750264 | Network Inventory incorrect after moving FortiGate with managed AP's to another container |
| 750287 | Rebooting Ruckus SZ Controller causes SSID configurations to return to use Inherited |
| 750513 | SSO information is not sent in 3rd party SSO integrations |
| 751158 | Rename existing RADIUS attribute group throws sql exception, can no longer retrieve all groups |
| 751194 | When adding a new Security Fabric Service Connector did not default to port 8013 when it should |
| 751408 | Local RADIUS should use VDOM for radius mode when SSID context exists but is set to inherit config from device |
| 751753 | Ports view blank for some FortiSwitches in Link mode. |
| 751780 | Error dialog is displayed when registering an adapter as a device in Topology |
| 752512 | Unable to Assign VLANs on Ruckus Using Local RADIUS |
| 752785 | Control Manager (NCM) Synchronization can produce Null Pointer Exceptions in the logs |
| 752788 | Alarm view fails to load due to Null Pointer Exception |
| 752838 | Profiled Devices edit Rule Settings unable to be disabled |
| 752951 | SNMP occasionally parsing MAC addresses incorrectly |
| 753414 | Roaming Guest configuration left off of Aruba model configuration |
| 753566 | Dropdowns in the VDOM Configuration view are bounded by the body of the dialog |
| 753908 | Unable to import/export Device Profiling rules via UI or REST interface |
| 755323 | Assigning VLAN ID to Dead End Vlan fails with UI error "Invalid ID - Dead VLAN" |
| 756126 | Unnecessary FortiGate related log messages printing by default.Moved these messages to debug level logging |
| 741938 | Policy Details in GUI shows wrong results. |
| 753267 | |

Version 9.1.3

| Ticket # | Description (9.1.3.0134) |
|----------|--|
| 650216 | Unable to set firewall tags for PaloAlto model |

| Ticket # | Description (9.1.3.0134) |
|----------|--|
| 666660 | If a shared filter contains an exclamation point (!), a delete or edit silently fails |
| 676232 | Host with a disabled logged on user is not moved to dead end |
| 684657 | <p>Improved the communication method between Control Manager (NCM) and pods by using REST API and certificate client authentication over HTTP</p> <p>Requirements:</p> <ul style="list-style-type: none"> • Manager must be installed with License key containing certificates (not required for pods). For more information see related KB article FD52784 • Firewalls allow TCP port 8443 between Manager and pods <p>If the above requirements are not met, the Manager will use original communication methods</p> |
| 693625 | REST API > Groups > Groups service does not check for usage across different configurations |
| 700276 | Added Contact Status Polling to Element tab for Link Mode FortiSwitches |
| 705845 | Searching groups by name in Roles and Network Device Roles views doesn't work |
| 709965 | Server List panel in Control Manager Dashboard takes several minutes to build |
| 712678 | Clicking on a user count in the User Summary Dashboard panel does not create a Filter when it opens Host View |
| 712695 | Could not log in with a password containing a plus (+) symbol |
| 713181 | Added Import button for uploading hosts from an external file |
| 713259 | Meraki Ports/Interface creation issue when the Group Policy name is assigned to Production Logical Networks |
| 713505 | Nokia switch port names do not contain switch name |
| 723563 | Event Alarm Mapping not adding host or event information to Email Action |
| 724173 | CoA not working on Fortigates with FortiLink switch, where secret is defined on the switch |
| 724383 | Intermittent failure polling clients connected to FortiSwitch in Link mode |
| 724769 | When choosing groups for a Role, the slide-in panel lists all groups instead of limiting to User and Host groups |
| 725360 | Fix potential ClassCastException in MibObject |
| 725604 | Hosts are automatically approved by the system when "Registrations Require Approval" is configured under "Standard User Registration Approval" in the Captive Portal |
| 725746 | Communication issues between Control Manager (NCM) and POD can cause Endpoint Compliance scan failures |
| 725751 | "Sync initiated" event added. Generated when a synchronization of servers by |

| Ticket # | Description (9.1.3.0134) |
|----------|---|
| | Control Manager has been triggered. Provides server IP, the user who triggered the sync and status. |
| 725757 | Scheduler Modify dialog, Next Scheduled Time validator doesn't accept new time format |
| 725969 | "System Error" balloon pop-up when creating roles |
| 725972 | Removed unnecessary startup RelationInterface message from output.master |
| 726099 | FSSO processing performance enhancements |
| 726410 | When a FortiLink Switch is renamed, the device and port model names in FNAC are not updated |
| 726458 | DPC rule does not revalidate upon connect for RADIUS clients ("Confirm Device Rule on Connect") |
| 726678 | Added custom Network Devices Admin Profile permission set to view/hide the device model Credentials tab |
| 727066 | Error dialog when setting device mapping to Generic SNMP using set device mapping option |
| 727336 | When collecting ARP information from ArubaOS WLC, the user table that contains the correct ARP entries is not being queried |
| 727710 | On upgrade from 8.8 to 9.1 or higher, the error "com.mysql.jdbc.exceptions.jdbc4.MySQLSyntaxErrorException: Unknown table 'bsc.DatabaseAuditView'" may appear in the logs |
| 728409 | Hosts and Adapters views only show 999 Entries. The REST API is returning just the count of records in the current page. |
| 728677 | Local RADIUS Server fails to disconnect clients from Ruckus Virtual SmartZone (SZ) controller due to missing RADIUS attributes |
| 728719 | Add Device Profile Rule > Vendor OUI > Clicking Vendor OUI link results in HTTP 500 Error |
| 729007 | NullPointerException during V3 device creation via API when no v1 community strings provided |
| 729585 | Cisco ASA VPN clients not moved to the unrestricted group due to multiple values returned when reading object-group |
| 730236 | Failure to read SSID on Ubiquiti causes all SSID models to be removed |
| 730601 | Changing Endpoint Compliance scan causes agents to be rescanned even when monitors were not changed |
| 730789 | When wired clients are authenticated by the Local RADIUS Server, the default VLAN is returned. Network Access Policy look-up is skipped |
| 730823 | Multiple calls to edit a User Host Profile via the API results in failure after the first attempt |

| Ticket # | Description (9.1.3.0134) |
|----------|--|
| 730892 | VPN solution L2 polling process excessively long. |
| 730908 | Errors with secrets with special characters like % |
| 730990 | UI rendering for Authentication Policies/Configs tied to wrong permissions |
| 731215 | Added support to read L3 tables on Dell OS10 switches with VRFs configured |
| 731633 | SQL Exception is thrown during FortiNAC server startup |
| 732229 | Missing event and alarm definitions for ADMIN_PROFILE_MODIFICATION |
| 732265 | Aruba Controller model configuration view is not showing supported RADIUS controls |
| 732340 | dumpports does not show port IP address (requestString) |
| 732580 | Added "sar" output in grab-log-snapshot |
| 732965 | Local RADIUS Server functionality not working properly upon failover or recovery in High Availability configuration |
| 733232 | Unable to save private filters |
| 733903 | Setting Host Expiration field to "Never" resulted in inaccurate expiration dates (example 12/31/1969) |
| 733969 | Unable to poll Airwatch MDM hosts. Although MDM poll appears to complete, new registered hosts are not created |
| 734792 | API communication issues with FortiGate |
| 734895 | Unable to parse L2 table on Dell OS10 Switches |
| 735444 | All RuggedCom switch models are shown as RSG2300 in the Model Configuration views |
| 735880 | Versa switch property files not loaded correctly |
| 736110 | Excessive exceptions for DatabaseObjectAlreadyExistsException seen in logs |
| 736465 | MAC address label is hidden if the IP address field is disabled in the Game Register portal configuration |
| 736501 | Cisco ASA VPN users are not always unrestricted after connecting. |
| 736553 | Log format has changed to include the thread ID and to remove redundant timestamp in heartbeat messages |
| 738093 | ISO build missing bc package |
| 738257 | Improved user look-up method to handle the different userID formats when matching Network Access Policies based on user record criteria. Previously, this was seen to cause delays in responding to RADIUS Accepts in some environments. |
| 738375 | RADIUS processing performance issues when RadiusManager debug is enabled |

| Ticket # | Description (9.1.3.0134) |
|------------------|--|
| 738805 | Unable to set SSH port on Device Credentials page. Effects customers upgraded to 9.1.2 |
| 739465 | Removed Local RADIUS requirement that request must contain Service-Type=10 (Call-check) |
| 739674 | Local RADIUS MAB & CHAP fixes |
| 740034 | Exception in RadiusManager with logging enabled. |
| 740677 | Backport of Model generation depends on updated Object Model |
| 733892 733914 | LicenseTool APPLIANCE shows EFFECTIVE count/level/certs if both are requested. |
| 707284 | VLAN ID and VLAN Name drop-down menu contents are now sorted in the Model Configuration View |
| 714641 | fortiGuardCB error in Device Profiling Rules view |
| 732965 | Local RADIUS not working properly upon failover and resume in a High Availability configuration |
| 735553 | CLI and Vlan switching not functioning for Allied and Rugged devices |
| 739131 | Replaced mysql-connector |
| 739380 | AirWatch does not retrieve all MAC addresses for enrolled devices |
| 739674 | Local RADIUS not working properly for MAC-address-based authentication (MAB) with generic/unknown devices (Moxa) |
| 740723 | Devices with VDOMs that specify Local RADIUS server/secret and use the Management IP - on restart the NAS DB tbl entry is removed |
| 740749 | Local RADIUS can only handle secrets of 60 characters or less |
| 740962 | Events on the Control Manager (NCM) to indicate synchronization of servers started and completed successfully or if there is a failure |
| 741811 | Update of Adapter IPs causes empty replaces of DYNAMIC table |
| 741994 | SSIDs added to groups with wrong type when added via SSID -> Group Membership preventing policy engine match on the group |
| 742260 | NullPointerException in DeviceServer.getVoiceVlans() |
| 742261 | NullPointerException in ProbeTelnet.getProbeObjectsByIpAddress() |

Version 9.1.2

| Ticket # | Description (9.1.2.0128) |
|----------|--|
| 725629 | Unable to properly manage Aruba 9012 WLC due to incorrect mapping |
| 677981 | VPN Host FSSO tags not re-evaluated when host is disabled |
| 704761 | If the "Delete Hosts No Longer Managed By MDM" option is enabled, hosts that are managed by Jamf may be deleted incorrectly |
| 518423 | 802.1x support for Aerohive SR2208P |
| 522462 | Trigger "System Created Uplink" Events for Learned and User created Uplinks |
| 543215 | The Native VLAN on Juniper EX switches is no longer used. Juniper does not use or recommend using native VLANs |
| 594554 | VLAN Switch Success Event and Alarm now contain the "from" and "to" VLAN information |
| 607004 | MAC spoofing events do not generate when two endpoints with the same MAC address reside on two different switches at the same time. For configuration instructions, refer to the Administration Guide. |
| 611202 | Added support to report the status of the connection to the FortiGate |
| 624926 | Select Form Fields layout are not consistent with other fields in the Captive Portal |
| 640641 | The Persistent Agent Summary dashboard panel does not display the correct number of agents in the MAC-OS-X column |
| 642707 | Model Configuration View not accepting VLAN names in the Quarantine field (only VLAN IDs) |
| 659675 | "Rogue Connected" and "Device Created" events now include location (switch/AP and port), IP address, and "Connected Container" information |
| 665191 | Unable to get list of Devices in a container when querying FortiNAC using REST API |
| 671704 | FortiGate VPN - Host is registered as a device with no "Registered To" information and with "NAC-Default" Role |
| 671997 | Juniper Flex-CLI needs to account for configure mode prompt |
| 672391 | Generate MAC Spoofing events when spoofing and spoofed machines are on the same switch. For configuration instructions, refer to the Administration Guide. |
| 676196 | Sorting by columns does not work in the Legal Documents view |
| 677981 | Improved multiple VDOM support for FortiGate VPN integrations. Previously, FortiNAC was unable to determine correct tags to apply to sessions |
| 682525 | Added support to register MicroSoft Intune clients with wired-only interfaces. Requires the FortiNAC agent. For details, refer to the MDM Integration reference manual |

| Ticket # | Description (9.1.2.0128) |
|----------|---|
| 682625 | ISO install now uses serial console for logging of VM builds. |
| 684437 | When validating credentials, SNMP V3 succeeds even if the encryption protocol is incorrect |
| 685185 | Support for duplicate userids in multiple AD servers |
| 687183 | NCM does not support RADIUS for admin user authentication |
| 687874 | Add build type field to version file, displayed version in GUI |
| 689049 | Unable to properly manage Dell Switch S4128T due to incorrect mapping |
| 691918 | Improved diagnostic tools in Administration UI for local radius/winbind services |
| 693627 | Generated REST API token is shown in logs |
| 693628 | Uploading a trusted certificate to the same target multiple times throws an exception |
| 695021 | Added the ability to send FSSO information to the FortiGate even when the endpoint is not directly connected. Requires the Persistent Agent. For details, see section "Unknown Location Endpoint Management" of the FortiNAC Security Fabric Integration Guide in the Document Library. |
| 696231 | UI:Upgraded to Neutrino 1.0 library |
| 696833 | FortiNAC integration with FortiEMS:wrong API version used |
| 697296 | The Custom Ignored Adapters List (/bsc/campusMgr/master_loader/vendorCodes/ignoredAdapters.txt) is now added to System Backup |
| 697937 | Monitors are removed when any adapter is not found in the database, which can happen with virtual adapters |
| 697994 | VLAN Interface type Ports are Disabled on non-FortiGate devices |
| 698090 | Fortigate L3 polls do not support reading IPv6 arp data |
| 698298 | AP discovery not working for Extreme/Motrola Wing controllers on 7.X firmware |
| 698728 | Telnet/SSH to a FortiGate fail when post-login-banner is enabled |
| 699077 | Device Profiler - OUI method should take precedence over all other methods in a DPC Rule |
| 699140 | Radius port lookup fails on Nokia switch (Group ID 637) |
| 699153 | DeviceImport tool does not set the CLI credentials correctly on the created model |
| 699606 | A warning message now appears when attempting to install a legacy (NetworkSentry) license key using either the Administration UI or Configuration Wizard |
| 700035 | Minor formatting issue in dumpports password masking |
| 700128 | FortiGate model creation takes a long time. |

| Ticket # | Description (9.1.2.0128) |
|----------|---|
| 700312 | Vendor OUI update are in agent/templates repo |
| 700577 | DHCP rule re-validation not working |
| 700580 | When polling the Fortigate, if there are multiple ARP entries for the same MAC address, the newest entry may not be used |
| 700580 | Fortigate L3 Poller throws exceptions for static arp entries |
| 700610 | Kiosk Page is not loading |
| 700973 | FortiNAC changing native VLAN instead of access VLAN and disabling PoE on VLAN switch |
| 700992 | Only ASCII characters are supported in FSSO Groups and tags |
| 701358 | Attempting to disable a host in Host View without proper permissions locks table, stays grayed out |
| 701378 | All API requests to a FortiGate fail when the post-login-banner is enabled |
| 701766 | Nessus loader shutdown and was not restarted |
| 701796 | Extreme switches detected wrongly as stacked in certain circumstances |
| 702091 | PersistentAgent server is failing to add monitor failure results when the last interface in list from agent doesn't have an adapter in FortiNAC |
| 702259 | Hostname information collected from FortiGate firewall sessions is no longer used for updating rogue host records. The information was sometimes inaccurate |
| 702584 | Delay in Local RADIUS authentication of EAP-TLS hosts |
| 702585 | Local RADIUS TLS Config omits v1.1 and writes tls_min_version=1.2 in error |
| 702597 | Missing event def RADIUS_SERVICE_RESTARTED |
| 702978 | Security Fabric Service Connector loads wrong record on edit |
| 702989 | Mist Wireless AP Discovery does not remove rogue |
| 703008 | FortiNAC now skips processing EMS device records that are no longer managed by EMS ("is_managed" value set to false) |
| 703033 | Added ability to skip registering EMS devices to a user. For configuration instructions, refer to the EMS Integration reference manual |
| 703342 | Added Address and Address Group Objects for use in VDOMs |
| 703771 | High Availability view in Administration UI now populates with default values read from /bsc/campusMgr/bin/.networkConfig |
| 704582 | NCM Dashboard Server List link to pod is broken |
| 704591 | Legacy Hosts view - Auth Type and EAP Type columns not human readable |
| 704601 | Potential server startup deadlock |
| 704603 | Miscrosoft InTune Azure authentication not working |

| Ticket # | Description (9.1.2.0128) |
|----------|---|
| 704713 | Proxy RADIUS not ignoring empty string for VDOM shared secret causing RADIUS authentication to fail |
| 705017 | Settings > System Communication > Incorrect help text for Message Templates |
| 706684 | Device Profiler unable to set IP range 10.0.*.1 - 10.0.*.254 |
| 706706 | Inconsistent scanning with "Scan on Connect" when connecting via VPN |
| 706757 | When creating a Device Profiling Rule under the Adapter View, the "Add Device Profiling Rule" option does not default to the NAC-Default role |
| 707107 | Unable to save Device Profiling Rule with Network Traffic method |
| 707166 | When doing a quick search from Host View, if a host has multiple adapters that all match the search query, each Dynamic Client is displayed independently |
| 707270 | Cameras are not matching the device profiling rule for DHCP Fingerprint Type Camera |
| 707291 | Fixed CLI Credential timing issue during device modeling |
| 707581 | Configuring Monitors on a Scan may fail |
| 707655 | Under certain conditions, guest sponsors get multiple approval emails |
| 707722 | Added CLI Tool to read arp cache entries collected by FortiNAC. |
| 708193 | NumberFormatException and IndexOutOfBoundsException when deleting a Fortigate (especially with no dependent devices) |
| 708194 | Ruckus device integration throws exceptions when CLI credentials are missing |
| 708197 | NASClientManager.multiObjectRemoved throws ClassCastException |
| 708247 | UI: Fixed navigation list component with new themes in Neutrino 1.0 |
| 708342 | Meraki MX "Validate Credentials" and "Test Device Mapping" not working |
| 708670 | Install.bin cleanup: Remove code that is no longer needed |
| 708671 | Resync interfaces scheduled task for modeled FortiGate causes FortiGate SSL VPN FSSO client logoff. Hibernate Exception when removing extended client attributes |
| 709269 | FortiGuard Device Profiling method is not available on the NCM |
| 709278 | Secondary Server in High Availability responds to RADIUS after Primary Server resumes control |
| 709294 | When using macOS browser to add FortiAnalyzer as a log receiver in the Administration UI: - Default port is now set to 514 - Ability to populate the Security string has been removed as it is no longer used |
| 709318 | SSH Known host keys can now be removed on-demand from the Credentials tab or automatically whenever a device is removed |

| Ticket # | Description (9.1.2.0128) |
|----------|---|
| 709319 | VPN integration code sends a VLAN-Switch to the Persistent Agent to inform it that its at risk.This leads to problems with Scan On Connect and unnecessary agent reconnection |
| 709320 | Device SSH keys didnt match /bsc/.ssh/known_hosts |
| 709363 | OS updates may fail due to i686 dependencies |
| 709544 | Eclipse environment error with non-jar ivy artifacts |
| 709561 | Passive Agent Policy group pull down does not show any AD groups if one of the AD servers is not reachable |
| 709828 | FortiNAC is using a default SSL certificate when connecting to FortiAnalyzer |
| 709842 | Improved reporting of the FortiAnalyzer connection state in output.master |
| 709861 | Added support for new API introduced in FortiGate/FOS version 7.x |
| 709866 | Fingerprint information not removed from database when host record is deleted |
| 709868 | Not Updating Rogue Host Name from DHCP Fingerprint |
| 710058 | ISO install is failing |
| 710576 | Additional data needed for FortiNAC CTAP reports |
| 710646 | Device Profiler Windows Profile method not working in HTTPS mode due to Command Line Too Long error |
| 710971 | Update MacAddressTable command to get RADIUS working for Huawei switch |
| 711025 | Removing an MDM service connector while there is poll in progress does not remove it |
| 711510 | PortLinkType not updated after resync interfaces |
| 711696 | Failure to switch VLANs on Cisco SG200-50 switches |
| 712375 | User/host profile does not match policy if Adapter information is used |
| 712591 | Changed wording for password configuration pop-up box in High Availability configuration for clarification. |
| 712658 | Network Inventory takes a long time to load |
| 712887 | Fixed issue that might cause Device Profiler custom rules to not match correctly |
| 712889 | Only primary interface is imported to FortiNAC when host has multiple adapters |
| 712980 | Fail to display interfaces on certain Extreme switch models due to unexpected port format |
| 713591 | NEC QX Switches are discovered as generic SNMP devices. |
| 713629 | System/Settings/System Communication/Email Settings > Test Email settings works but SendEmail tool doesnt |
| 713870 | Failing to read arp cache on H3C |

| Ticket # | Description (9.1.2.0128) |
|----------|---|
| 713962 | Added L3 Polling support for Versa router |
| 714399 | Unable to add Cisco switch to Topology due to a Null Pointer Exception during modeling |
| 714692 | Removed iOS and Android from the "Add Device Profiling Rule" view. |
| 714702 | Not reading L3 from all VDOMs on a FortiGate |
| 714764 | Added license key upload button in Configuration Wizard. |
| 714768 | Unable to properly manage Alcatel-Lucent Enterprise OS6860E-P24 due to incorrect mapping. |
| 714808 | Ruckus L2 poll does not work with Ruckus version 6.x due to API changes. |
| 715251 | When RadiusManager debug is enabled and an unknown RADIUS attribute is received, NullPointerException is printed and FortiNAC stops processing the request. |
| 715418 | Trap handler debug states incorrect method says it's calling linkDown when it's calling linkUp |
| 716371 | "IllegalArgumentException:Invalid IPv4 address" log messages. |
| 716411 | FSSO tags are not sent when host role changes. |
| 716599 | RADIUS packets are dropped at times of peak usage. |
| 716897 | System>Settings>Trap Mib Files throws exception and does not function |
| 717813 | FortiNAC sometimes uses shutdown / No shutdown port to disconnect wired RADIUS client instead of RADIUS CoA |
| 718168 | Added API call /api/v2/user/set-password with userID and password parameters to modify a local user's password |
| 718402 | UI:SvgIconInterface isn't being loaded properly during build |
| 718783 | FortiGate VPN failed to register for syslog and failed to login correct user if connection was lost without notification. |
| 718802 | Unable to collect host/user information from 6.4.3 EMS server. |
| 718831 | InTune group add causes database issues |
| 719360 | Unable to upgrade appliance if a legacy license Key is installed without Hot-Standby-Capable (High Availability). |
| 719780 | Catch All rule name in Device Profiler is no longer modifiable. |
| 720071 | 9.1 Online Help Generates 404 Error |
| 720129 | Upgrade to 9.x fails with "Unsupported group policy type java.util.ArrayList" |
| 720360 | Added FirmwareVersion attribute on the Aerohive SR22XX/Unifi switch models for 802.1x RADIUS CoA functionality |

| Ticket # | Description (9.1.2.0128) |
|----------|--|
| 720439 | RadiusManager property included in "radiusManager.properties" file |
| 720467 | FortiClient EMS integration: Added support for the mac_list property in the API |
| 720471 | Added cyber-blue MAC address 00:1A:7D:DA:71:15 to IgnoredAdapters.txt (Custom Ignored Adapters List) |
| 721009 | L3 polling of Viptela devices not working properly due to a missing property. |
| 721566 | Custom Scans Registry-Keys view produces an error |
| 723851 | DHCP Fingerprint for Mac OSX Bug Sur missing |
| 725009 | Imported LDAP group does not map to Administrators |
| 716411 | Hosts at risk do not trigger network change with FortiGate VPN and FSSO device |
| 715316 | synchronization doesnt work properly with VDOMs. |
| 717912 | Group Membership performance is too slow to handle load from policy engine |
| 715316 | |
| 721743 | Solo Randomized WiFi adapters ignored by PA server, Agent-Local IPs being set |
| 715316 | on adapters. |
| | Potential NullPointerException when generating agent fingerprint event. |

Version 9.1.0

| Ticket # | Description (9.1.0) |
|----------|--|
| | New GUI Format |
| 662191 | Added ability to customize SMS and e-mail message client receives during Self Registration. See Send SMS messages in the Administration Guide for more details. |
| 632115 | L3 Polling when FNAC enforces a VLAN change to any client. |
| 643102 | Sponsor input type using LDAP Group shows members of group twice |
| 648169 | REST API improvements related to the following: <ul style="list-style-type: none"> • If no rank is specified when creating new role object, it will be created and placed at the bottom of the rank list for evaluation. • Ability to create a new device type using one of the images available in the image archive on the appliance. • Adding group members by type • Improved internal handling when adding new groups |
| 653147 | Improved lookups for Plus and Base subscription license levels. |
| 655545 | FNAC VMs are missing FreeRadius/winbind packages |

| Ticket # | Description (9.1.0) |
|------------------|---|
| 662036 | FortiNAC does not support SSH to devices configured with DH group-18 |
| 670023 | GSuite integration uses cached user ID instead of the value entered in the UI |
| 677062 | Self Registration Login fails with "Multiple sponsors provided. None are valid." |
| 680495 | With None or Email selected for approval, no sponsor was associated with the Account Request |
| 693091 | Upload Image is blurry in Portal Configuration |
| 693247 | Local RADIUS loses NAS shared secrets on startup |
| 693520 | FortiGate VPN ports were not shown in inventory and VPN session initiation is slow. |
| 696668 | Admin UI should direct users to the config wizard when the appliance is unlicensed |
| 697305 | Proxy Radius throws exception when trying to log empty vendor-specific-attribute (VSA). |
| 697636 | logrotate permissions errors when run from cron for winbind and hotstandby logs |
| 697984 | When a VPN host is deleted from FNAC, the internal entry for it is not being removed. |
| 698066 | We fail to retry properly when the auth token expires for InTune API |
| 592831 671272 | Add an option to run an action on alarm clear. Also limit clear events to applicable events. |
| 626004 | Palo Alto Security Event Parser severity field value does not match Palo Alto event field value |
| 664989 | Admin user unable to enable host with access/modify/delete permissions |
| 670356 | Update GUI references from "Citrix Xenmobile" to "Citrix Endpoint Management" |
| 694398 | Vendor OUI database is not updating after auto-definition updates complete. |
| 695021 | SSO notifications for user logon/logoff to unknown location clients aren't processed. |
| 696939 | Changed mapping to support HPE1950 hybrid ports |
| 698344 | Corrected format for the default sponsor email in the tool tip. |
| 699103 | Firewall Polling should be Firewall Session Polling |
| 699919 | High Availability: database stops replicating and no error is reported |
| 699942 | The GroupModifyDialog doesn't always pull new data and is causing inconsistencies due to cached results |
| 700035 | dumpports cli tool exposes radius secrets |

| Ticket # | Description (9.1.0) |
|----------|---|
| 700216 | Update VLANs can sometimes take a long time |
| 700574 | Event to alarm mapping window checkbox and combos are not working correctly |
| 701045 | Model configuration view missing components for several Cisco WLC devices |
| 701069 | Cannot filter on "Date Added" in Firewall Sessions view |
| 701399 | Fortinet EMS endpoint paging not working correctly |
| | Wrong column checked in trigger for TLSServiceConfiguration update |

Known Issues Version 9.1.9

| Ticket # | Description (9.1.9.0179) |
|---------------|---|
| 800326 | Cisco chassis switch with a Cisco WLC connected via port channel shows as a rogue. |
| 904535 | 3Com 4800G unable to read MAC Addresses from MAC Address Table. |
| 897151 | Device mapping for Cisco C9800-AP's adds AP's as a Cisco 9800 Wireless controller. Cisco C9800-AP Software is not currently supported. |
| 894165 | Test Device Profiling Rule results in "Rule Does Not Match" if rule name contains a double space between words. Workaround: Remove the extra space. |
| 890893 | Global objects synchronization not completing between manager and appliances |
| 872245 | The migration procedure to move existing FortiNAC servers from CentOS to FortiNAC-OS is currently not supported. |
| 809769 | HTML is not supported when using "Guest Account Details" message type template. |
| 811404 807309 | Admin UI showing error "You do not have permission to access this page". Workaround: Restart tomcat-admin service. |
| 686910 714219 | Control Manager (NCM) communication issues when the NAC systems are connected through the WAN. For details see related KB article https://community.fortinet.com/t5/FortiNAC/Technical-Note-NCM-communication-issues-with-systems-across-WAN/ta-p/192434 . |
| 5889702 | Analytics Agent continues to run after configuration is removed from the UI. For details and workaround, see related KB article https://community.fortinet.com/t5/FortiNAC/Technical-Tip-Manually-Remove-Analytics-Server/ta-p/208596 . |
| 884414 | Unable to switch VLANs manually in Port Properties for Aruba CX switch. |
| 884077 | Guests & Contractors Modifying a Guest account with "Can view passwords:" permission disabled generates error. |
| 882265 | FortiNAC is not sending the correct serial number field to FAZ. |
| 878059 | Using Location that specifies a device will not work if that device is a FortiLinked FortiSwitch |
| 875720 | REST API v2 query for Scan Results returns no results. |
| 874812 | Private VLAN switching is not working > Cisco switches. |
| 874037 | GUI > Users & Hosts > Host View > Quick Search - Unable to locate host by hyphen or no delimiter. |
| 867183 | Unable to perform seamless failover of Aruba Controller with FortiNAC. |

| Ticket # | Description (9.1.9.0179) |
|----------|--|
| 866378 | Custom Login using a Guest Self Registration account fails with error Registered Client Not Found. |
| 861201 | Windows 11 Domain Check |
| 860206 | Polling threads get locked when communications are terminated unexpectedly from the NCM |
| 856192 | FortiNAC FSSO does not send required groups to FortiGate. |
| 855891 | FSSO failing to send to FortiGate for hosts with PA |
| 852670 | AP showing up as learned uplink not WAP Uplink |
| 849497 | The FreeRADIUS service is restarted whenever a new network device is modeled even if local RADIUS is not enabled. |
| 845930 | When a managed pod is removed from the Network Control Manager, not all references to the previously managed pod are removed from the database. The result is a "Sync failed to replace xyz" error message when a sync is attempted. |
| 845412 | When a sync is performed on the Network Control Manager, modified group names are not synchronized to the managed pod. |
| 845003 | Unable to register hosts to usernames in format of an email address. An "Error – Failed to Save Host – null" message appears. |
| 845000 | Unable to add a new LDAP or local user account when the username is in the format of an email address. A "Failed to modify User" message appears. |
| 842370 | Radius will ignore incoming requests from a device if the Model Configuration or VDOM configuration does not specify a secret and local radius mode (and for a VDOM, additionally a Source IP address). |
| 840796 | InTune records without unique serial numbers can cause issues with FortiNAC's device lookups. Records are currently looked up via serial number first and MAC address second. Lookup order should be reversed. |
| 838525 | Configuring Remote Backup results in a "HTTP Status 500 – Internal Server" error. |
| 836606 | When polling GSuite, if communication times out part way through, the poll is still reported as successful even though not all records were obtained. |
| 836435 | Unable to read VLANs on Huawei 6508 WLC. |
| 836146 | radius.log file can grow too large if debug is left enabled. |
| 835149 | When an endpoint is registered as a device in Host AND Inventory/Topology, it is not possible to edit the host role. The option is available, but changes do not apply. |
| 835143 | When querying Microsoft Intunes network details, FortiNAC does not validate whether the response is successful. As a result, additional queries fail until the token is refreshed. |

| Ticket # | Description (9.1.9.0179) |
|----------|--|
| 834461 | All required radius CoA attributes are not sent to Ruckus controllers in a disconnect request. |
| 833735 | Host icons in the Inventory view are not updated until a Layer 2 poll occurs. |
| 833305 | Guest account password is unmasked when printing badge even though admin user does not have password viewing permissions. |
| 832313 | Device integration does not handle CLI connections to infrastructure configured with keyboard-interactive password challenge. |
| 830932 | Entitlement Polling Success event is not listed as an option for triggering or clearing an Alarm Mapping. |
| 830581 | IP Phones will not match policy if host group membership is configured as a User/Host Profile requirement despite the phone being a member of the host group. |
| 828912 | MaaS360 MDM poll fails. |
| 828242 | Layer 3 polling Ruckus ICX7450 switches running 8.0.95g and later may result in fewer arp entries than expected. |
| 828128 | Unable to add Allowed Domains containing underscore symbols. |
| 827870 | When a FortiGate device model's IP address is changed in the Inventory view, add/delete/move syslog messages from the new IP address is discarded until FortiNAC services are restarted. |
| 827283 | Roaming Guest Logical Network missing from FortiGate Model Configuration. |
| 826913 | Creating a Network Device Role using Direct Configurations reverts to Logical Networks. |
| 825436 | IP addresses appended to network device names during discovery are truncated resulting in duplicate device and port names. |
| 824088 | Unable to update existing Registered Host records using Legacy View > Hosts > Import. |
| 820160 | Roles view is not available with a Base License. |
| 818504 | Linux Persistent Agent fails to install using the .deb package. |
| 817040 | FortiNAC Manager fails to connect to pods configured for L2 High Availability with a virtual IP. Manager is querying eth0 IP instead of Virtual IP. |
| 816877 | Profiled device icon does not match the icon assigned by Device Profiling Rule. |
| 816451 | When importing DHCP Scopes with spaces in the names, the Configuration Wizard Summary displays blank scope data. |
| 815352 | Logical network configuration mappings can return the wrong value when host is connected via more than one interface. |
| 814631 | %port% variable is reading port id rather than port number. Affects FlexCLI |

| Ticket # | Description (9.1.9.0179) |
|----------|--|
| | configurations. |
| 814183 | Unable to view all Certificate Details in the Certificate Management view. |
| 813652 | Security Alarms are not generating from Security Events. |
| 811783 | Links in the Persistent Agent Summary panel produce redundant results. |
| 810574 | Unable to scan message when using Dissolvable agent if scan configuration label contains non US-ASCII characters. |
| 810209 | Not all SSIDs are read from Aruba controllers. |
| 809769 | HTML is not supported when using "Guest Account Details" message type template |
| 806936 | Importing Mist devices using the CLI deviceimport tool does not add the AP's to the proper groups. |
| 806106 | Juniper Change of Authorization (CoA) fails. |
| 800255 | Device Profiling IP Range Method does not include .255 when using wildcards. |
| 793634 | MDM Server Last Polled and Last Successful Poll information removed in 9.x. |
| 792968 | Legacy View for Users & Hosts > Hosts does not display items in tables. Workaround: Enter "*" (asterisk) in search field. |
| 791751 | Host Import - importing same file twice results in "null" error and exception in logs. |
| 791442 | Able to delete a Portal Configuration which is in use by a Portal Policy. Removal is done without warning the user. |
| 784543 | 403 error is displayed when sending an email from Guests and Contractors view. Affects FortiNAC admins with limited permissions. Workaround: Enable portal policy permissions in the admin profile. |
| 783304 | DHCP responds with unexpected addresses in the DHCP-Server-Identifier attribute. This causes release/renew to fail. Affects appliances configured for separate isolation networks (Registration, Remediation, DeadEnd, etc). |
| 780312 | FortiNAC does not integrate with Azure Active Directory due to SAML connection requirements. |
| 776077 | Local Radius to Winbind connection cannot be secured at this time. |
| 774048 | L2 HA + VIP Pairing Process Failing. Configuration completes but leaves both appliances in a "processes down" state. Workaround: Reboot appliances. |
| 773088 | No VLAN Information for Adtran NetVanta 1638. |
| 770974 | Event to Alarm mappings failing for Clear on Event criteria |
| 770091 | Port changes/VLAN assignments made using local RADIUS are not being logged as port changes. |
| 769014 | Generate Password Error is displayed when adding new Guest/Contractor |

| Ticket # | Description (9.1.9.0179) |
|----------|--|
| | account. For details and workaround see KB article https://community.fortinet.com/t5/FortiNAC/Technical-Tip-Generate-Password-Error-when-adding-new-Guest/ta-p/209272 . |
| 767548 | Register Game system with Host Inventory success page is not working. |
| 766850 | Landing page defined by an Admin profile is not honored. User with that Admin Profile is presented with the FortiNAC Dashboard instead. Workaround: Manually browse to intended landing page. |
| 765172 | Configuration Wizard does not check whether user input subnet masks are valid. |
| 762704 | After clicking the 'restart services' button when applying SSL certificates to the Admin UI Certificate Target, the prompt does not clear and there is no confirmation dialogue (even though it was successful). Clicking the 'restart services' button again generates an error. |
| 761745 | Mist AP - Port Connection State NOT WAP Uplink. |
| 760926 | Removal/Addition of LDAP model can cause user attribute synchronization issues. For details and workaround see KB article https://community.fortinet.com/t5/FortiNAC/Technical-Tip-Removal-Addition-of-LDAP-model-can-cause-user/ta-p/209296 . |
| 754346 | Selecting Port Changes under the Ports tab of a specific device in Network > Inventory does not display expected results. For details and workaround, see KB article https://community.fortinet.com/t5/FortiNAC/Technical-Tip-Default-filter-for-Port-Changes-does-not-populate/ta-p/209297 . |
| 752538 | When in the Users & Hosts > Applications view, selecting an application and clicking the Show Hosts option displays a page that does not provide accurately filtered results. Workaround: Navigate Users & Hosts > Hosts and create a custom filter to list hosts associated to an application. |
| 747921 | Portal renaming does not rename the associated CSS files. |
| 733943 | Using "Set Model Config" for multiple Meraki wired devices can change Serial number to all be the same. It is recommended that edits to the device model are done on an individual basis as opposed to in bulk. There is no current workaround. |
| 730221 | Stacked Meraki switches currently not supported. If required, contact sales or support to submit a New Feature Request (NFR). |
| 730181 | Custom reporting and Archive options are not available. |
| 726333 | Entitlements (such as concurrent licenses) for Subscription Licenses are not accurately reflected in the Administration UI License Management view and only show Base licenses. Workaround: Use the License Information panel in the Dashboard instead. |
| 710583 | L2 Polling Mist APs can result in more API requests than Mist allows per hour. |
| 708936 | FortiNAC will logoff SSO for sessions that remain connected to a managed |

| Ticket # | Description (9.1.9.0179) |
|----------|--|
| | FortiGate IPSec VPN tunnel after 12 hours. |
| 708720 | Policy evaluation may not be triggered after a host status update in Microsoft InTune. This can prevent the host from being moved to the proper network. For details and workaround see related KB article https://community.fortinet.com/t5/FortiNAC/Technical-Tip-Policy-evaluation-not-triggered-after-Microsoft/ta-p/203843 . |
| 699106 | After a reboot, FortiNAC may change the Native VLAN on a wired switch port following a layer 2 poll. This may cause issues for ip phones should they connect to a port where the native/default VLAN isn't the correct VLAN. |
| 695435 | FortiEDR is currently not supported. If required, contact sales or open a support ticket to submit a New Feature Request (NFR). |
| 694407 | Linux hosts running CrowdStrike Falcon sensor 6.11 and later are not being detected by the agent. This causes hosts running CrowdStrike Falcon to incorrectly fail scans. For details and workaround, see related KB article https://community.fortinet.com/t5/FortiNAC/Troubleshooting-Tip-Linux-hosts-running-CrowdStrike-Falcon/ta-p/202694 . |
| 682438 | Page Unresponsive' error when exporting hosts. For details and workaround see related KB article https://community.fortinet.com/t5/FortiNAC/Technical-Note-Page-Unresponsive-error-when-exporting-hosts/ta-p/193878 . |
| 674438 | Processes Scan Type option is not available when creating custom scans for macOS systems. |
| 641036 | Multi-factor authentication (MFA) for the Administration GUI login is currently not supported. |
| 631115 | Only 50000 records display in Adapter and Host Views.Example:Adapters - Displayed: 50000 Total: 57500 |
| | Not all models of all network devices can be configured to perform Physical MAC Address Filtering even though the Admin UI indicates that the configuration can be set. Resolution: Hosts can be disabled by implementing a Dead-end VLAN. |
| | For Portal v2 configurations, web pages that are stored in the site directory to be used for Scan Configurations will not be included when you do an Export of the Portal v2 configuration. Resolution: The files in the site directory are backed up with the Remote Backup feature, but otherwise keep a copy of these files in a safe place. |
| | In a Layer 3 High Availability (HA) environment, configWizard must have a DHCP scope defined. Running configWizard without a DHCP scope can cause a failover. |
| | On FortiNAC appliances with CentOS 7, duplicate log messages may appear in dhcpd.log for each sub interface (eth1, eth1:1, eth1:2, etc). |
| | Only English versions of AV/AS and their corresponding definitions are supported. |

| Ticket # | Description (9.1.9.0179) |
|----------|---|
| | Anti-Virus product Iolo technologies System Mechanic Professional is currently not supported. |
| | Sophos UTM is currently not supported. |

Device Support Considerations

| Ticket # | Description |
|----------|--|
| 730221 | Stacked Meraki switches currently not supported. If required, contact sales or support to submit a New Feature Request (NFR). |
| 548902 | Management of wired ports on Aerohive AP-150W controlled by AerohiveNG is currently unsupported. |
| 679230 | Aruba 9012-US currently not supported. If required, contact sales or support to submit a New Feature Request (NFR). |
| 711696 | Cisco SG200 support is limited to visibility only. The switch does not provide the management capabilities required for control/enforcement. |
| 829009 | The Allowed VLAN list is not properly managed on Aruba CX switches. When FortiNAC performs a VLAN change, only the new VLAN is set. The previously configured Allowed VLAN is not removed. This causes the Allowed VLANs list to grow over time. |
| 836831 | Layer 2 polling HPE Walljacks fails if special characters are found in the devices mac-address table. |
| 842181 | FortiNAC does not support the custom RADIUS attribute Fortinet-Host-Port-AVPair action=bounce-port for Change of Authorization (CoA) with FortiSwitches. |
| 843509 | FortiNAC is unable to communicate with Dell x1026 switches. |
| 846782 | FortiNAC is unable to read roles and potentially other data from Aruba IAPs due to a # symbol automatically added to the wireless network name. |
| | At this time, integration with Juniper MAG6610 VPN Gateway is not supported. This includes Pulse Connect Secure ASA. |
| | At this time, integration with Cisco 1852i Controller is not supported due to the device's limited CLI and SNMP capability. For details, see related KB article 189545. |
| | At this time, Fortinet does not support wired port management for the Cisco 702W. The access point does not provide the management capabilities required. |
| | At this time, Fortinet is not able to support the Linksys LAPN600 Wireless-N600 Dual Band Access Point. |
| | Ports on Avaya Networks 4850GTS-PWR+ switches sometimes show "Not Connected" even though the port is active. This is due to multiple ports on the switch using the same MAC Address. This prevents NAC from correctly discerning which are "Connected" versus "Not Connected". There is no workaround. |
| | Device models for Avaya 4800 switches (and potentially other related models) only support SSH. Device models for Avaya Ethernet Routing Switches only support Telnet. Contact Support if the alternate protocol is required. |

Device Support

These changes have been made in FortiNAC Version 9.1. These are in addition to the device support added in 8.7 and previous releases.

Version 9.1.9

| Ticket # | Description (9.1.9.0179) |
|----------|--|
| 831482 | Aruba JL727A 6200F 48G CL4 4SFP+370W Huawei S5735-L12P4S-A PowerConnect 7024 Alcatel-Lucent OAW-AP1201 4.0.2 Huawei S5732-H24S6Q Symbol AP7522 Access Point FortiGate Meraki MR36H Cloud Managed AP |
| 838902 | Cisco IOS Software, C2960SM Software (C2960SM-LANBASEK9-M) Huawei AirEngine9700-M1 Meraki MR57 Cloud Managed Indoor AP |
| 845410 | Cisco CBS350-24P-4X 24-Port Gigabit PoE Stackable Managed Switch Huawei S6720-30C-EI-24S-AC Huawei S6730-H48X6C Huawei S5735-L8P4X-IA1 |
| 847082 | Huawei NE40E-X3 Extreme SLX9540 Switch/Router 3Com Baseline Switch 2250-SFP Plus D-Link WS6-DGS-1210-10P/F1 |
| 849478 | Cisco IOS Software [Gibraltar], ISR Software (ARMV8EL_LINUX_IOSD-UNIVERSALK9-M) D-Link DGS-1210-28P/C1 |
| 851405 | FortiGate Alcatel-Lucent Enterprise OS6360-P24X Meraki MX75 FortiAP Aruba JL667A 6300F 48G 4SFP56 ArubaOS (MODEL: 635) |

| Ticket # | Description (9.1.9.0179) |
|----------|--|
| 852981 | Allied Telesis router/switch, Software (AlliedWare Plus) |
| 875730 | S5720-28X-SI-24S-AC Huawei Versatile Routing Platform Software VRP S1720-52GWR-PWR-4P-E Huawei Versatile Routing Platform Software VRP S5735-S32ST4X Huawei Versatile Routing Platform Software VRP AC6805 Huawei Versatile Routing Platform Software VRP Alcatel-Lucent Enterprise AOS-W Version 6.4.2.6-4.1.1.13 Cisco CBS250-8PP-D 8-Port Gigabit PoE Smart Switch Cisco CBS350-8T-E-2G 8-Port Gigabit Managed Switch Cisco SX350X-24F 24-Port 10G SFP+ Stackable Managed Switch Cisco IOS Software, C1700 Software (AP3G2-K9W7-M), Version 15.3(3)JD |
| 836420 | Juniper eqfx5120-48t-6c switch Managed Hardened PoE+ Switch, (8) 10/100/1000Base-T PoE+ Ports + (4) 100/1000Base-X SFP Palo Alto Networks PA-400 series firewall Dell EMC Networking OS10 Enterprise S5296F-ON |
| 842976 | Cisco IOS Software, C800 Software DGS-1510-52X Gigabit Ethernet SmartPro Switch Aruba Wired Switch R8N88A |

Version 9.1.8

| Ticket # | Vendor (9.1.8.0712) |
|----------|---|
| 805669 | Extreme VSP-7400-48Y-8C (8.1.6.0) |
| 814620 | Cisco IOS Software, c6848x Software (c6848x-ADVENTERPRISEK9-M) Palo Alto Networks PA-3200 series firewall S5735-L24P4X-A1 Huawei Versatile Routing Platform Software S5735-L24P4S-A1 Huawei Versatile Routing Platform Software Extreme Networks Switch Engine (5420F-24P-4XE-SwitchEngine) PowerConnect 7024, 5.1.18.1, VxWorks 6.6 Aruba JL658A 6300M 24SFP+ 4SFP56 Swch FL.10.09.1000 Datacenter Switch Cisco IOS Software [Bengaluru],c8000be Software(X86_64_LINUX_IOSD-UNIVERSALK9-M) |
| 820169 | Ruckus Wireless, Inc. ICX7850-48F, IronWare Version 08.0.95fT233 |
| 820969 | HP A5120-24G SI Switch Software Version 5.20, Release 1513P13 |

| Ticket # | Vendor (9.1.8.0712) |
|----------|--|
| | S5720-52P-PWR-LI-AC Huawei Versatile Routing Platform Software VRP (R) software, Version 5.170 (S5720 V200R011C10SPC600) S5735-L8T4S-A1 Huawei Versatile Routing Platform Software VRP (R) software, Version 5.170 (S5735 V200R020C10SPC500) SG500X-24 24-Port Gigabit with 4-Port 10-Gigabit Stackable Managed Switch |
| 823908 | Aruba JL662A 6300M 24G CL4 PoE 4SFP56 Swch FL.10.05.0021 |
| 824676 | Dell EMC Networking OS10 Enterprise. Palo Alto Networks PA-400 series firewall FGT-SG-SSL U6-Lite 6.0.19.13671 Allied Telesis router/switch, Software (AlliedWare Plus) Version 5.5.1-2.4 CBS350-8FP-2G 8-Port Gigabit PoE Managed Switch |
| 825863 | Allied Telesis router/switch, Software (AlliedWare Plus) Version 5.4.9-0.2 |
| 827842 | Alcatel-Lucent Enterprise OS6560-P48Z16 8.7.98.R03 GA, July 05, 2021. Allied Telesis router/switch, Software (AlliedWare Plus) Version 5.5.1-2.4 Cisco IOS Software, IE2000 Software (IE2000-UNIVERSALK9-M), Version 15.0 (1)EY Meraki MR44 Cloud Managed AP Cisco IOS Software, cgr1000 Software (cgr1000-UNIVERSALK9-M), Version 15.7(3)M1 S5731-S24T4X Huawei Versatile Routing Platform Software VRP (R) software, Version 5.170 (S5731 V200R021C00SPC100) PowerConnect 7024P, 5.1.18.1, VxWorks 6.6 |
| 830112 | Dell EMC Networking N3224P-ON, 6.6.3.14, Linux 4.15.18-2ac8b3ec Huawei AP5030DN Huawei Versatile Routing Platform Software VRP (R) software, Version 5.170 (AP5030DN V200R010C00SPCd00) Dell EMC Networking OS10 Enterprise. |
| 833731 | Huawei AR129CGVW-L Huawei Versatile Routing Platform Software VRP S6720-56C-PWH-SI-AC Huawei Versatile Routing Platform Software VRP Dell Networking N1524P S5735-L24P4X-A1 Huawei Versatile Routing Platform Software VRP |

Version 9.1.7

| Ticket # | Vendor (9.1.7.0166) |
|----------|--|
| 806646 | S5735-L24T4X-A1 Huawei Versatile Routing Platform Software VRP (R) FGT85F S5731-H24T4XC Huawei Versatile Routing Platform Software FGTVM641000C S5732-H48UM2CC Huawei Versatile Routing Platform Software FGT50A JL581A Aruba 8320 48p Juniper Networks, Inc. ex3400-48t Ethernet Switch |

Version 9.1.6

| Ticket # | Vendor (9.1.6.0162) |
|----------|--|
| 765568 | Huawei AR550E router/switch |
| 769085 | MICROSENS G6 Micro-Switch S5731-H48T4XC FW_WLC |
| 770214 | S5300-52C-PWR-EI S5731-S48P4X Alcatel-Lucent Enterprise OS6465T-P12 Alcatel-Lucent Enterprise OS6465-P12 FG_GRP9 brayhall-core-router Meraki MR20 Cloud Managed AP |
| 771979 | SG250-08 8-Port Gigabit Smart Switch S5700-10P-LI-AC DC FortiGate Cluster |
| 774429 | Cisco NX-OS(tm) nxos.7.0.3.I4.1.bin, Software (nxos), Version 7.0(3)I4(1) Dell Networking X1018P 1Gb PoE Switch SG350-28 28-Port Gigabit Managed Switch Ruijie 10G Ethernet Switch with PoE (S2910C-48GT2XS-HP-E) |
| 777886 | D-Link DGS-3130-30TS System - 24*10/100/1000M + 2*10GBase-T + 4*10G SFP+, 145.1.10.57 Fortigate Cisco IOS Software, CDB Software (CDB-UNIVERSALK9-M) |

| Ticket # | Vendor (9.1.6.0162) |
|----------|--|
| | Quidway S7706 Huawei Versatile Routing Platform Software Cisco IOS Software, C880 Software (C880VOICE-UNIVERSALK9-M) Fortinet Cisco IOS Software, ir800 Software (ir800-UNIVERSALK9-M) |
| 781634 | S5700-52P-LI-AC Huawei Versatile Routing Platform |
| 783982 | S5720-12TP-LI-AC S5720-36PC-EI-AC S5720S-52P-SI-AC S5700-10P-PWR-LI-AC |
| 786422 | ArubaOS (MODEL: 565) |
| 787686 | S5735-L48T4S-A1 Huawei Versatile Routing Platform Software VRP (R) software CBS350-48P-4X 48-Port Gigabit PoE Stackable Managed Switch with 10G Uplinks CBS350-48P-4G 48-Port Gigabit PoE Managed Switch CBS350-8P-E-2G 8-Port Gigabit PoE Managed Switch CBS350-24T-4X 24-Port Gigabit Stackable Managed Switch with 10G Uplinks Linux Lethe 2.6.18-92cpx86_64 1 SMP Mon Oct 8 10:34:42 IDT 2018 x86_64 Juniper Networks, Inc. srx380-poe-ac internet router, kernel JUNOS 20.4R3-S1.3 S5735-L8P4S-A1 Huawei Versatile Routing Platform Software VRP (R) software Fortigate fwf51E Quidway S9712 Huawei Versatile Routing Platform Software VRP (R) Software Brocade Communications Systems, Inc. FastIron SX 1600 CCB 1st Sessions Court FS108F Meraki MR36H Cloud Managed AP |
| 792686 | Huawei AR129CGVW-L Huawei Versatile Routing Platform Software VRP (R) software Cisco NX-OS(tm) nxos.9.3.7.bin, Software (nxos) Juniper Networks, Inc. ex4400-24p Ethernet Switch, kernel JUNOS 21.1R1.11 Aruba R8N85A 6000 48G CL4 4SFP Swch PL.10.09.1000 Aruba Instant On 1930 8G 2SFP Switch JL680A, InstantOn_1930_1.0.5.0 (139) IE1000 Industrial Ethernet Switch, Version: 1.7.0#2018-05-02T18:19:37+00:00 |
| 796633 | Fortigate Cisco IOS Software, C1000 Software (C1000-UNIVERSALK9-M), Version 15.2 (7)E4 Aruba R8N87A 6000 24G CL4 4SFP Swch PL.10.08.1010 Meraki MS355-48X2 Cloud Managed Switch Dell EMC Networking OS10 Enterprise.S5224F-ON |

Version 9.1.5

| Ticket # | Vendor (9.1.5.0147) |
|----------|--|
| 760460 | FortiSwitch Dell EMC Networking N1124T-ON Alcatel-Lucent Enterprise OS6560-P24X4 Alcatel-Lucent OS6450-U24 ExtremeXOS (X620-16x) ExtremeXOS (X450G2-24p-10G4) Aruba R0M68A 2930M-24SR-PoE-Class6 Switch Aruba JL727A 6200F 48G CL4 4SFP+370W Switch Aruba JL675A 6100 48G CL4 4SFP+ PLANET, IGS-10020HPT, IE L2+ Managed Switch |
| 761980 | Alcatel-Lucent Enterprise OS6860E-P48 Alcatel-Lucent Enterprise OS6560-24X4 Alcatel-Lucent Enterprise OS6560-P48Z16 Alcatel-Lucent Enterprise OS6560-P48X4 CHS_Fortigate_VM04 |
| 763316 | VSP-4900-12MXU-12XE |
| 765550 | Alcatel-Lucent Enterprise OS6560-48X4 Enterasys Networks, Inc. A4H124-24 24-port 10/100 PoE Switch w/4 gigabit ports S5735-L48P4X-A1 Huawei Versatile Routing Platform Huawei AR550E Huawei Versatile Routing Platform |
| 766493 | Dell PowerConnect 5548P |
| 767310 | HP 1910-24 Switch Allied Telesis router/switch, AW+ v5.4.6-1.5 |

Version 9.1.4

| Ticket # | Vendor (9.1.4.0142) |
|----------|--|
| 734133 | Pnetworks switch |
| 743833 | Cisco NX-OS(tm) nxos.9.3.5.bin Cisco NX-OS(tm) nxos.7.0.3.I7.9.bin |
| 745113 | Dell EMC Networking OS S5730-68C-PWR-SI-AC Huawei Versatile Routing Platform Software VRP |

| Ticket # | Vendor (9.1.4.0142) |
|----------|---|
| | <p>S5730-48C-PWR-SI-ACHuawei Versatile Routing Platform Software VRP SX350X-52 52-Port 10GBase-T Stackable Managed Switch PLANET IGSW-24040T Managed Switch Cisco IOS Software, CSR1000V Software (X86_64_LINUX_IOSD-UNIVERSALK9-M) Cisco IOS Software, C3560E Software (C3560E-UNIVERSALK9-M) Dell EMC Networking N2224PX-ON, 6.6.1.1, Linux 4.4.170-b055baf1 Dell EMC Networking N3024EF-ON, 6.6.3.36, Linux 4.14.138, v1.0.5 Dell EMC Networking N2248PX-ON, 6.6.3.10, Linux 4.15.18-2ac8b3ec Dell EMC Networking N3248P-ON, 6.6.3.14, Linux 4.15.18-2ac8b3ec Dell EMC Networking N1108EP-ON, 6.6.3.10, Linux 4.14.138 FortiGate Aruba JL677A 6100 24G CL4 4SFP+ Swch PL.10.06.0001 Juniper Networks, Inc. ex3400-24t Ethernet Switch HPE 1950 48G 2SFP+ 2XGT Switch Meraki MR53E Cloud Managed AP Linux cep-gate 3.10.0-957.21.3cpx86_64 1 SMP Aruba JL659A 6300M 48SR5 CL6 PoE 4SFP56 Swch FL.10.08.0001</p> |
| 749162 | FortiSwitch-108F-POE |
| 752957 | <p>Aruba Instant On 1930 48G 4SFP/SFP+ Switch JL685A HPE 5510 24G PoE+ 4SFP+ HI 1-slot Switch JH147A WS6-DGS-1210-28/F1 6.10.007 Dell Networking N1524 Palo Alto Networks PA-3200 series firewall HP 1820-48G-PoE+ (370W) Switch J9984A Hirschmann MICE Switch Power Hirschmann Rail Switch Power Enhanced USIDC-FWL001 switch standalone NetVanta 1534P AOS-W (MODEL: OAW-4030)</p> |
| 754988 | <p>FSW_248E_POE FSW_148F FSW_148F_POE FSW_148F_FPOE FSW_124F FSW_108F FSW_108F_POE FSW_108F_FPOE</p> |

| Ticket # | Vendor (9.1.4.0142) |
|----------|---|
| | FSW_1024E FSW_T1024E FSW_124F_POE FSW_124F_FPOE |
| 756556 | Enterasys Networks, Inc. Bonded SSA Chassis Rev 08.11.04.0005 |

Version 9.1.3

| Ticket # | Vendor (9.1.3.0134) |
|----------|---|
| 688048 | ApresiaNP2000-24T4X ApresiaNP2000-24T4X-PoE ApresiaNP2000-48T4X ApresiaNP2000-48T4X-PoE Apresia13200-28GT Apresia13200-52GT Apresia5428GT Apresia3424GT-SS ApresiaLightGM110GT-PoE ApresiaLightGM110GT-SS ApresiaLightGM118GT-SS ApresiaLightGM124GT-PoE ApresiaLightGM124GT-SS ApresiaLightGM152GT |
| 730834 | Foundry Networks FWSX424+2XG Ruckus Wireless, Inc. Stacking System ICX7550-24F Huawei S5720-52X-LI-AC HP Series Router A-MSR30-10 H3C Series Router MSR30-10 Alcatel-Lucent Enterprise OS6350-P24 Alcatel-Lucent Enterprise OS6350-48 LGS308P 8-Port Gigabit PoE+ Smart Switch HPE MSR3012 Meraki MR44 Cloud Managed AP Dell S4112T-ON Aruba JL676A 6100 48G 4SFP+ Aruba JL679A 6100 12G CL4 2SFP+ Dell S5048F-ON Brocade ICX7150-48-POE |

| Ticket # | Vendor (9.1.3.0134) |
|----------|--|
| | Brocade ICX7150-48-POEF HPE OfficeConnect 1950-24G-2SFP+-2XGT Huawei S5735-S48P4X Cisco NX-OS(tm) n5000 |
| 735445 | Huawei Quidway S3352P-EI Huawei Quidway S9306 |
| 689049 | Dell Switch S4128T (DellSwitchOS10) |

Version 9.1.2

| Ticket # | Vendor (9.1.2.0128) |
|----------|--|
| 663957 | Alcatel-Lucent Enterprise OS6560-P24Z8 |
| 701094 | Arista switch models |
| 705003 | Extreme 210-Series 24GE PoE+, 2 1GbE SFP ports Dell EMC Networking N3224PX-ON Dell EMC Networking N3248PXE-ON SF350-24 24-Port 10/100 Managed Switch Huawei AR109GW-L Alcatel-Lucent Enterprise OS6860E-P24 Cisco Adaptive Security Appliance FortiGate 201E Cisco IOS Software, ir800 Software ArubaOS Aruba7008-US Cisco NX-OS(tm) nxos.7.0.3.I7.9.bin Powerconnect 8024F, 5.1.0.1, VxWorks 6.6 Device Description: Dell EMC Networking OS Meraki MS355-48X Cloud Managed Switch Cisco IOS IE4000 Cisco IOS C800 AP7632 ArubaOS 505H Cisco IOS Software [Gibraltar] Cisco IOS C9800-AP Cisco Controller |
| 706225 | Ruijie XS-S1960 |
| 707895 | Cisco C899 4G LTE Router |

| Ticket # | Vendor (9.1.2.0128) |
|----------|--|
| 708234 | HP 1910-8 Switch |
| 708273 | Alteon Application Switch 4408XL Avaya Networks Ethernet Routing Switch 5698TFD ERS-8806 ExtremeXOS X435-8P-4S |
| 708309 | Add support for multiple cisco models |
| 709545 | Gateway Copper Switch ArubaOS W-AP103 |
| 709844 | HP VC Flex-10 Enet Module SG500X-24P 24-Port Gigabit with 4-Port 10-Gigabit PoE Stackable Managed Switch SG200-50FP 50-Port Gigabit PoE Smart Switch Xirrus XH2-240 WiFi Array Xirrus XD1-240 WiFi Array Cisco NX-OS Cisco IOS C1000 |
| 709863 | GbE2c L2/L3 Ethernet Blade Switch for HP c-Class BladeSystem Cisco IOS Software, C1600 Software (AP1G2-K9W7-M) |
| 712593 | Huawei S2700-9TP-PWR-EI Meraki MS125-48FP Cloud Managed PoE Switch Huawei S5735-S48T4X Extreme Networks, Inc. A2H124-24P Cisco Controller ArubaOS W-AP103 |
| 713591 | NEC QX Switches: QX-S1016GT-4G QX-S4108GT-4G QX-S4116GT-4G QX-S4124GT-4G QX-S4148GT-4G QX-S3408FT-2G QX-S3416FT-2G QX-S3424FT-4G QX-S3448FT-4G QX-S4009P QX-S4020P QX-S4028P QX-S4052P |

| Ticket # | Vendor (9.1.2.0128) |
|----------|---|
| | QX-S3309TP QX-S3318TP QX-S3326TP QX-S3852TP |
| 714422 | Planet IGS-10020PT |
| 720989 | Cisco IOS Software, C1000 Software (C1000-UNIVERSALK9-M), Version 15.2 (7)E2 Huawei S5735-L24P4S-A Huawei S5735-L48P4X-A SG350-28SFP 28-Port Gigabit SFP Managed Switch ExtremeXOS X440G2-24x-10G4 ExtremeXOS X440-24x-10G ExtremeXOS X440-L2-24t ExtremeXOS X440-24x ExtremeXOS X620-8t-2x Industrial 6-P GbE RJ45 + 2-P GbE SFP L2 Plus Managed UPoE Switch Dell EMC Networking N3132PX-ON Dell EMC Networking S3148P Dell EMC Networking OS10 Enterprise Dell EMC Networking OS10 Enterprise Dell EMC Networking OS10 Enterprise Dell EMC Networking OS10 Enterprise Dell EMC Networking OS10 Enterprise Dell Networking OS Series: PE-FN-410S-IOM Dell EMC Networking OS10 Enterprise Dell EMC Networking OS10 Enterprise Aruba JL660A 6300M 24SR5 CL6 PoE 4SFP56 Meraki MS390-24UX L3 Stck Cld-Mngd 24-port mGbE UPoE switch Meraki MS390-48UX2 L3 Stck Cld-Mngd 48-port 5GbE UPoE switch Fortinet FortiGate Ruckus Wireless, Inc. ICX7150-24-POE, SPR08090b 50-Port Gigabit PoE Smart Switch Viptela SNMP agent |
| 724820 | Ruckus Wireless, Inc. ICX7850-48FS Dell EMC Networking OS10 Enterprise, System Type: S5212F-ON Ruckus Wireless, Inc. ICX7650-48F HVC-Budel-FW01 Brocade Communications Systems, Inc. ICX7250-24, labeled as SPS08030 Brocade Communications Systems, Inc. FWS648G-POE, labeled as FWSL07400d1 |

| Ticket # | Vendor (9.1.2.0128) |
|----------|---|
| | Ruckus Wireless, Inc. ICX7150-C08-POE, labeled as SPS08091 Dell Networking OS, Series: MXL-10/40GbE Cisco IOS Software, C2960CX |

Version 9.1.0

| Ticket # | Vendor (9.1.0) |
|----------|---|
| 612738 | Nokia DSLAM Switch 7360 ISAM FX Switches |
| 673023 | Huawei S6720-26Q-SI-24S-A |
| 680809 | Dell EMC Networking S3124 Dell EMC Networking N1108P-ON Ruckus Wireless Inc (C) 2006 SG350-52 52-Port Gigabit Managed Switch Cisco Sx220 Series Switch Dell EMC Networking N3024ET-ON Cisco IOS Software, C880 Meraki MS355-24X Cloud Managed Switch Cisco Adaptive Security Appliance Version 9.12(3)12 SG250-08HP 8-Port Gigabit PoE Smart Switch |
| 695460 | Cisco NX-OS(tm) n9000 ProCurve 516733-B21 6120XG Blade Switch CBS350-8FP-E-2G 8-Port Gigabit PoE Managed Switch SF250-24 24-Port 10/100 Smart Switch SG250-26P 26-Port Gigabit PoE Smart Switch Ruckus Stacking System ICX7650-48Z-HPOE 24-port 10/100 Ethernet Switch Arista Networks DCS-7260CX3-64 Arista Networks DCS-7280SR-48C6 SG200-26FP 26-Port Gigabit PoE Smart Switch SG200-18 18-Port Gigabit Smart Switch Arista Networks CCS-758-CH Ruckus ICX7150-C08PT Cisco IOS Software, C1700 H3C Comware Platform Software |
| 669219 | Viptela SD-WAN |

System Update Settings

Use the following System Update Settings when upgrading through the Administrative UI:

| Field | Definition |
|---|--|
| Host | Set to fnac-updates.fortinet.net |
| Directory or Product Distribution Directory | Systems running version 8.3.x and higher: Set to Version_9_1 |
| User | Set to updates (in lowercase) |
| Password | Keep the current value. |
| Confirm Password | Keep the current value |
| Protocol | Set to desired protocol (FTP, PFTP, HTTP, HTTPS) Note: SFTP has been deprecated and connections will fail using this option. SFTP will be removed from the drop down menu in a later release. |

Numbering Conventions

Fortinet is using the following version number format:

<First Number>.<Second Number>.<Third Number>.<Fourth Number>

Example: 8.0.6.15

- First Number = major version
 - Second Number = minor version
 - Third Number = maintenance version
 - Fourth Number = build version
-
- Release Notes pertain to a certain version of the product. Release Notes are revised as needed. The Rev letter increments accordingly. For example, updating the Release Notes from Rev C to Rev D indicates changes in the Release notes only -- no changes were made to the product.
 - The next number represents the version in which a Known Anomaly was added to the release notes (for example, V8.0).



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