



FortiNAC - Release Notes

Version 9.4.3

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FortiNAC 9.4.3 Release Notes

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TABLE OF CONTENTS

Change log	4
Overview of Version 9.4.3	5
Notes	5
Supplemental Documentation	5
Version Information	5
Upgrade Requirements	7
Pre-upgrade Procedures	9
Compatibility	11
Agents	11
Web Browsers for the Administration UI	11
Operating Systems Supported Without an Agent	11
What's new	12
New features in 9.4.3	12
Important notice	12
New features in 9.4.2	12
New features in 9.4.1	12
New features in 9.4.0	12
Enhancements and Addressed Issues	15
Version 9.4.3	15
Version 9.4.2	18
Version 9.4.1	28
Version 9.4.0	33
Known Issues Version 9.4.3	42
Device Support Considerations	51
Device Support	52
Version 9.4.3	52
Version 9.4.2	53
Version 9.4.1	56
Version 9.4.0	57
System Update Settings	59
Numbering Conventions	60

Change log

Date	Change Description
4-3-2023	Initial release.

Overview of Version 9.4.3

FortiNAC v9.4.3 is the latest release being made available to customers to provide functionality and address some known issues. Build number 0752.



Critical information about upgrading your FortiNAC should be viewed in [New Features](#).

Notes

- Starting from 9.1.0, FortiNAC uses a new GUI format. FortiNAC cannot go backwards to a previous version. Snapshots should always be taken on virtual appliances prior to upgrade.
- Prior to upgrading, 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.
- CentOS 7.4 or higher is required. 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](#).

- 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: 9.4.3

Agent Version: 9.4.0

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: 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.

Upgrade Requirements

Ticket #	Description
Upgrade Path Requirements	<p>Systems on version 9.1.6 must upgrade to either:</p> <ul style="list-style-type: none"> - Higher version of 9.1 (e.g. 9.1.7) - 9.2.4 or higher <p>Systems on versions 8.2 or lower must upgrade to 8.3 before upgrading to 8.4 or higher.</p>
	<p>FortiNAC License Key: Upgrading to this release requires the FortiNAC License. It is possible, however unlikely, older appliances may not have this specific type of license key installed. In such cases, an error will display during the upgrade. For additional details, see KB article https://community.fortinet.com/t5/FortiNAC/Troubleshooting-Tip-Upgrade-fails-with-license-requirement-error/ta-p/246324</p>
892856	<p>High Availability and FortiNAC Manager Environments: The following are required as of 9.4.3:</p> <ul style="list-style-type: none"> • Key files containing certificates are installed in all FortiNAC servers. License keys with certificates were introduced on January 1st 2020. Appliances registered after January 1st should have certificates. To confirm, login to the UI of each appliance and review the System Summary Dashboard widget (Certificates = Yes). If there are no certificates, see Importing License Key Certificates in the applicable FortiNAC Manager Guide. • Allowed serial numbers: Due to enhancements in communication between FortiNAC servers, a list of allowed FortiNAC appliance serial numbers must be set. This can be configured prior to upgrade to avoid communication interruption. For instructions, see Pre-upgrade Procedures.
885056	<p>All devices managed by FortiNAC must have a unique IP address. This includes FortiSwitches in Link Mode: Managed FortiSwitch interface IP addresses must be unique. Otherwise, they will not be properly managed by FortiNAC and inconsistencies may occur. This is also noted in the FortiSwitch Integration reference manual.</p>
9.2	<p>As of Persistent Agent version 5.3, there is no option to disable secure agent communications. Agents upgraded from previous versions to 5.3 or greater will communicate over TCP 4568 regardless of the "securityEnabled" Persistent Agent setting. Therefore, the following must be done prior to upgrading hosts to agent version 5.3:</p> <p>Ensure valid SSL certificates are installed in the Persistent Agent Certificate Target. For details see section Certificate Management in the Administration Guide.</p>

Ticket #	Description
9.2	<p>Packet Transport Configurations must have TCP 4568 listed. For instructions see section Transport configurations in the Administration Guide.</p> <p>The number of Operating System and Anti-Virus program options in the Scan Configuration have been reduced. Only those currently supported or commonly in use are now listed. For a list of available Operating Systems and Anti-Virus programs, see KB article 198098.</p>
834826	<p>As of FortiNAC versions 9.4.2 & vF7.x, Persistent Agent communication using UDP 4567 is no longer supported.</p> <p>It is recommended the following be checked prior to upgrade to avoid agent communication disruptions:</p> <ul style="list-style-type: none">SSL certificates are installed for the Persistent Agent targetPersistent Agents are running a minimum version of 5.3 <p>For additional details see KB article 251359.</p> <p>https://community.fortinet.com/t5/FortiNAC/Technical-Note-Agent-communication-using-UDP-4567-no-longer/ta-p/251359</p>

Pre-upgrade Procedures

Enhancements were made to the communication method between FortiNAC servers for security. Due to this change, all FortiNAC servers must have additional configuration in order to communicate. The following procedure should be done prior to upgrade to prevent communication interruption.

This configuration applies to FortiNAC version 9.4.3 and greater.

Configure all servers to allow communication between each other. This is done using an attribute that lists all the allowed serial numbers with which appliances can communicate.

Steps

1. Confirm key files containing certificates are installed in all FortiNAC servers.

Administration UI Method:

The **System Summary Dashboard** widget should show 'Certificates = Yes'.

CLI Method:

Virtual appliance: Log in to the CLI as root and type:

```
licensetool
```

Physical appliance: Log in to the CLI as root and type:

```
licensetool -key FILE -file /bsc/campusMgr/.licenseKeyHW
```

Response from the above commands should show:

```
"certificates =[xxxxxxxxxxxxxxxxxxxxxxxx,xxxxxxxxxxxxxxxxxxxxxxxx]" .
```

If 'certificates = []' or there is not a 'certificates' entry listed at all, keys with certificates must be installed. See [Importing License Key Certificates](#) in the FortiNAC Manager Guide.

2. Compile the allowed serial number list. In a text file (Notepad, etc), document the serial numbers of each appliance. Serial numbers can be obtained in the following ways:
 - Customer Portal (<https://support.fortinet.com>)
 - System Summary Dashboard widget in the Administration UI of each appliance
 - CLI of each appliance using licensetool command

Example:

FortiNAC Manager A (primary) & B (secondary)

FortiNAC-CA servers A (primary) & B (secondary)

FortiNAC-CA server C

Record serial numbers for:

FortiNAC Manager A: FNVM-Mxxxxx1

FortiNAC Manager B: FNVM-Mxxxxx2

FortiNAC-CA server A: FNVM-CAxxxxx4

FortiNAC-CA server B: FNVM-CAxxxxx5

FortiNAC-CA server C: FNVM-CAxxxxx6

3. In the same text file, write the following command, listing all the serial numbers recorded in step 2:

Command:

```
globaloptiontool -name security.allowedserialnumbers -setRaw  
"<serialnumber1>,<serialnumber2>,<serialnumber3>"
```

Example

```
globaloptiontool -name security.allowedserialnumbers -setRaw "FNVM-Mxxxxxxx1,FNVM-  
Mxxxxxxx2,FNVM-CAxxxxx4,FNVM-CAxxxxx5,FNVM-CAxxxxx6"
```

4. Perform the following steps on all servers.

- a. Log in to the CLI as root.
- b. Paste the `globaloptiontool` command from the text file.

Note:

- The message "Warning: There is no known option with name: security.allowedserialnumbers" may appear. This is normal.
- In High Availability configurations, only the Primary Server need to have the command entered. Database replication will copy the configuration to the Secondary Server. Using the above example, CLI configuration would be applied to Manager A.

Example

```
> globaloptiontool -name security.allowedserialnumbers -setRaw "FNVM-  
Mxxxxxxx1,FNVM-Mxxxxxxx2,FNVM-CAxxxxx4,FNVM-CAxxxxx5,FNVM-CAxxxxx6"  
  
Warning: There is no known option with name: security.allowedserialnumbers  
  
New option added
```

- c. Confirm entry by typing:

```
globaloptiontool -name security.allowedserialnumbers
```

Example

```
> globaloptiontool -name security.allowedserialnumbers  
  
Warning: There is no known option with name: security.allowedserialnumbers  
  
122 security.allowedserialnumbers: FNVM-Mxxxxxxx1,FNVM-Mxxxxxxx2,FNVM-  
CAxxxxx4,FNVM-CAxxxxx5,FNVM-CAxxxxx6
```

5. Log out of the CLI. Type:

```
logout
```

You have completed the pre-upgrade procedure.

Compatibility

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

Example: 9.4.0.0171 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 9.x are not guaranteed.

Web Browsers for the Administration UI

Many of the views in FortiNAC are highly dependent on JavaScript. The browser used directly impacts the performance of these views. It is recommended that you choose a browser with enhanced JavaScript processing.

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	

What's new

New features in 9.4.3

Important notice

Enhancements were made to the communication method between FortiNAC servers for security. Due to this change, all FortiNAC servers must have additional configuration in order to communicate. The following

See [Pre-upgrade Procedures](#) for procedures that should be done prior to upgrade to prevent communication interruption.

New features in 9.4.2

There are no new features in FortiNAC v9.4.2.

New features in 9.4.1

There are no new features in FortiNAC v9.4.1.

New features in 9.4.0

New features

User Group Support with FortiAuthenticator RADIUS Integrations (715957, 713515)

Version 9.4.0 has made it easier to use FortiAuthenticator with FortiNAC for RADIUS integrations. Administrators will no longer be forced to change their FortiAuthenticator configuration when connecting to FortiNAC. New enhancements allow FortiNAC to receive user groups from FortiAuthenticator during the RADIUS authentication process.

For details, see "Fortinet-Group-Name" under RADIUS section of the Administration Guide.

<https://docs.fortinet.com/document/fortinac/9.4.0/administration-guide/214558/radius>

SMS Gateway (586499)

FortiNAC has the ability to send SMS messages to administrators, guests or users. Previous versions of FortiNAC only supported the Mail to SMS method; now, FortiNAC adds support for API/HTTPS-based SMS

gateway integration. FortiNAC 9.4.0 has built-in integration with cloud-based SMS providers such as Twilio, and LDAP group mapping for sponsors.

In the GUI, see: **Network > Service Connectors > Email/SMS**

See information in the Administration Guide: <https://docs.fortinet.com/document/fortinac/9.4.0/administration-guide/19358/email-sms>

AV agent monitoring (759481)

Previous versions of FortiNAC only checked for Antivirus compliance within the Windows Defender AV product. v9.4.0 adds an option to choose "Security-Center" in the Windows AV category for up-to-date virus definitions, providing compliant protection for those Windows running end points.

Kerberos Support (699487)

v9.4.0 adds Kerberos support for admin and for user authentication on FortiNAC-CA, as well as admin authentication on FNAC-M.

Enhancements

RADIUS Logging and Dashboard (744581, 751403)

Version 9.4.0 has made it easier to authenticate large numbers of users with 802.1x. With concise information on the dashboard to see pass/fails of 802.1x/MAB authentication, v9.4.0 gives at-a-glance insight. Importantly, logs of failed authentications can be exported.

In the GUI, see: **Network > RADIUS > Activity**

For information in the administration guide, see:

<https://docs.fortinet.com/document/fortinac/9.4.0/administration-guide/270902/activity>

Azure Document update (667439)

Updated and enhanced FortiNAC Azure deployment guide. See:

https://fortinetweb.s3.amazonaws.com/docs.fortinet.com/v2/attachments/3c52cb13-d573-11e9-8977-00505692583a/FortiNAC-8.6.0-Azure_Deployment_Guide.pdf

Device support

Huawei Wireless LAN Controllers AC 6605, 6005 and 6508 (592592, 566257)

FortiNAC v9.4.0 adds device support for Huawei AC-6005-8 Wireless Controller.

Palo Alto VPN (606729)

Added support for Palo Alto VPN.

Add User Organizational Unit OU LDAP mapping in User/Host Profile (699857)

Added User Organizational Unit "OU" LDAP mapping in User/Host profile. FortiNAC sends OU along with FortiGate Device Tag and User Group via FSSO communication with FortiGate.

UI

New dashboard widgets (615850)

The Recent Hosts widget displays newly discovered hosts by type.

The Top Host Activity widget displays the hosts with the most connection activity over a configurable period of time.

The Logical Network Access widget displays all Hosts that had access to each Logical Network over a configurable period of time.

The RADIUS widget displays success/failure information over specified time frames.

Enhancements and Addressed Issues

These changes have been made in FortiNAC Version 9.4.3. These enhancements are in addition to the enhancements that are outlined in previous releases.

Version 9.4.3

Ticket #	Description
833088	Deleting a switch removes all port nesting's removing all ports from FortiNAC System Port Group.
834025	Allied Telesys devices using standard SNMP for L2 polling fails if there are entries in the dot1qTpFdb table with a port index of 0.
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.
858184	Custom Subject line for Self Registration Request sent to sponsor does not reflect custom text.
860595	FortiNAC unable to change admin state on FortiGate firewall physical ports.
866343	Proxy RADIUS support added for Arista switches (802.1x and MAB).
867183	CLI communication can fail due to invalid SSH key when devices using a Virtual IP (VIP) fail over. A new device attribute (MultiKnownHostEntries) has been added to address. For details see Model configuration in the 9.4 Administration Guide.
868451	L3 support for Forcepoint firewalls.
868712	In some instances, Administration UI is inaccessible after running the Configuration Wizard during a new deployment. Clicking Config Wizard results in "No User" error.
869052	Meraki MX doesn't pass CLI credentials validation.
869097	Prioritize the IP -> MAC value provided by RadiusServer for managed wireless clients.
869316	Excessive "Authentication Failure" events after L2 poll.
869605	CLI credentials are removed from the Ubiquiti AP device model after applying changes.
869961	Added Aruba CX series switch Port Channel support.
874812	Private VLANs not switching on Cisco switches.

Ticket #	Description
875287	Added User/Host Profile and Policy Configuration ID validation for API POSTs to Authentication, Endpoint Compliance, Portal, Supplicant, and Access policies.
875588	Unable to remove users from the All Administrators group.
875720	REST API v2 query for Scan Results returns no results.
876003	Incorrect license information displayed in License Management GUI view after upgrade to 9.4.2. License Key Details list features as "Disabled". Correct entitlements displayed in Dashboard and CLI.
876116	Upgrade to 9.4.2 > ManagedElementInterface causing issues with startup and device credentials.
877934	LDAP communication failure if Primary AD is reachable but Secondary is not.
877942	Performance issues related to Firewall Session table growing to large.
877980	Navigating to Logs > Audit Logs generates console error "Missing Type: LOGICAL_NETWORK" when in Legacy View.
878080	Aruba CX Switch Incorrect VLAN Management Syntax.
878836	Intune MDM Integration 'Invalid Audience' when using an App registration in the Azure Government cloud.
879773	Cannot Change "Perform proactive "Active" method profiling" setting in Device Profiler.
880761	IP->MAC resolution doesn't update the adapter's IP after a proactive L3 polling when VLAN change occurs.
880796	API - AccessConfiguration - Access configurations should not require a Logical Network.
882265	FortiNAC is not sending the correct serial number field to FortiAnalyzer (FAZ).
882782	Fix NullPointerException in MessagingGatewayPlugin.sendSMS().
883046	Fortinac not sending Radius Disconnect/CoA to Aruba IAP when there is a status change/policy match.
883068	SMTP SMS Gateway service connector: Country code prefix is incorrectly prepended to outgoing SMS messages.
883080	Local Radius attempts to look up mac addresses in the directory for mac-auth auth requests.
883129	Mist L2 polling may not function properly due to how Mist devices are modeled in FortiNAC.
883146	Secondary may restart repeatedly.

Ticket #	Description
883221	FortiNAC now processes static MAC address entries by default for Arista switches.
883680	404 response to HTTPS GET when polling Firewall Sessions on FortiGate running FOS 7.2+.
884329	Base license, User/Host profiles and Network Access Policies throw permissions errors.
884345	Improved error messaging when creating a new device using REST API.
887915	Endpoint Compliance Custom scans improperly state "in-use" by deleted scans and cannot be deleted.
888179	Updated integer fields in the FirewallSession table to accomodate bigger values.
888212	High Availability configuration: Endpoint Compliance Scans are not replicated to secondary.
889103	Test Device Profiling Rule option in Network > Inventory Adapters view is not matching properly.
889132	Global Custom Scans are not fully removed after deleting from Manager. Consequently, scan cannot be edited or deleted on the managed FortiNAC server.
890009	Unable to read VLANs on Ruijie S5310 switch.
890015	Unexpected error encountered when attempting to modify or create a Syslog file under System > Settings > System communication > Syslog Files.
890929	Unable to restart server after uploading new license key through UI (Setup Progress > Enter License Key).
891332	HTTP 500 error when installing license key using Modify License button in License Management view.
892486	Secondary server in a High Availability configuration does not reflect the correct concurrent count in License Management.
892856	Communication between FortiNAC Manager and managed FortiNAC servers enhanced for security. Important: Requires additional configuration. See Upgrade Requirements for details.
893582	Changing default credentials in Config Wizard logs an error.
894157	Guest > View > Send SMS button returns error.
895085	RADIUS Performance problems on rogue host record creation.
896471	Licensetool not correctly displaying the subscription level from the FortiNAC Manager.

Ticket #	Description
0896100 , 0896556	Error adding/removing Switch Ports to Port Group from Groups view.
883378, 882567	HA>UI hangs when re-running config HA when connected to the shared address.
884322, 855084	Type column would not render correctly for Device Profiling Rule.
888616, 893561	System > Scheduler GUI error encountered after upgrade from an older FortiNAC version.
None	Device support for Dlink DGS-1210-10 Ports-Firmware 6.11.B028.

Version 9.4.2

Ticket #	Description
835782	Config Wizard: Entering Application Server license is showing error (500 - Unable to compile class for JSP)
802335	Getting a JSON string error when setting registered or logged user role on host view page.
832313	SSH keyboard-interactive authentication fails, preventing SSH communication to some devices.
683842	Adapter media type is set to wireless for devices that connect to wired ports on a Fortigate.
705823	Editing or creating a group under NCM > Policy & Objects > Roles > Create groups opens a new window instead of an overlay on top of the same view.
758623	The status spinner does not complete and page does not refresh when an "in use" role is deleted.
778575	grabDeviceDebug script for more efficient log collection for device integration issues.
792657	Deleting a currently applied shared filter in the Administration UI results in browser console errors.
796969	FortiNAC counts FortiSwitch ports as error ports even though they are UP and operating.
796972	Virtual port connection state displays as "not connected" even though there are multiple hosts using that VLAN interface.
800255	DPC IP Range wildcards don't include the full range of IPs that should be valid.
803386	Local RADIUS port can default to 0, should default to 1645.
808088	Alarms stop generating notifications.

Ticket #	Description
814476	HP Switch aggregated uplink ports are not properly displayed in Ports view.
814845	Navigation Panel:Some views do not hide the navigation panel correctly.
814926	Policy & Objects > Roles: "unexpected error occurred" message when configuring the role.
815626	Upload Certificate: Long file name in Certificates field is not rendered correctly.
816472	NCM: Logical Networks view not accessible.
820160	Roles view not available with Base license.
821112	Admins without Audit permissions see context menu.
821392	Column Filters: performing an Exact Match filter with an empty string has inconsistent results.
821902	Search option for Firewall Groups does not display search results when editing a Logical Network in a VDOM.
823079	Host Import: Clicking Cancel in Browse dialog removes previously selected file.
826517	Edit Task: Title has Create Background Task as title (Create instead of Edit).
826913	Unable to create a Network Device Role for Direct Configuration.
827870	Syslog listener addresses for FortiGate add/delete/move messages are not updated.
828128	Unable to add allowed domains containing underscores.
829009	VLANs not being properly managed in Aruba CX series switch.
829019	NCM High Availability Resume button not working from dashboard.
829290	Context menus now have a menu separator similar to User/Host Profiles.
829361	If captive portal is not configured, High Availability system fails over due to DHCP server not running.
829379	Unable to upgrade to version F7.2 from Administration UI. If attempted from CLI, prompts for downgrade.
830159	Unable to Add Roles without specifying groups.
830534	SQL syntax error displayed when configuring High Availability .
830581	IP Phones in a host group fail to match policy.
830902	High Availability configurations may fail with a DHCP related error when appliances do not have eth1 interfaces configured.
830932	Unable to configure "Entitlement Polling Success" event to alarm mapping.

Ticket #	Description
831061	Unable to resume control in a High Availability system using the Admin UI.
832730	Unable to set groups for a role. Settings are not saved during create or edit.
833270	Device Profiler is not matching rules.
833302	Unable to create a user on the FortiNAC appliance where the same userID exists on the Manager (NCM).
833327	Static Routes no longer present after reboot/FortiNAC service restart.
833752	Unregistered hosts in EMS are marked as "Managed By MDM" in FortiNAC.
834041	High Availability Configuraiton page now has text indicating only the Shared IP is GUI is accessible (when configured).
834044	Create/Modify Administrator User Generates Error But Still Performs Action.
834461	FortiNAC is not sending required CoA attributes to Ruckus controller.
834772	Exception and 'forever loading' when importing invalid Device Profiling Rules file.
835143	MSIntune returns partial results during MDM poll causing some host records to be removed if "Remove Hosts Deleted from MDM Server" option is enabled.
835405	UI is inaccessible after running the Config Wizard due to an unrecognized keystore. The browser displays "Connection refused".
835551	Upgrade to version F7.2 from previous version gives message that downgrading is not supported.
835838	S5735-L24P4X-A1 and AR129CGVW-L have duplicate mappings.
836136	Guest passwords not read correctly out of the database.
836137	No Results Found on RADIUS > Winbind view if results are sorted by Joined column.
836146	radius.log file can grow too large if debug is left enabled.
836470	Manager (NCM) receives 500 error when running Config Wizard.
836606	Polling GSuite server results in a timeout, but is shown as successful.
836831	L2 poll not working in HPE Walljack.
837023	Exception unmarshalling REST Ping message.
837229	Nmap parsing fails.
837938	Edit User view will not allow for user settings to be changed.
838561	Roles: Entering angle brackets for Name and Notes converts to < and >.

Ticket #	Description
838610	ConfigWizard is reporting "Unknown operation dnsmasq".
838963	Entering a script as a quick search filter name will execute the script on create and edit.
839045	RADIUS does not return the port default VLAN ID when the request does not match any policy or enforcement group.
839399	Rest > Google Domain client POST does not allow empty values.
839417	REST > RadiusAttrGroupService does not allow ID of 0.
839888	Rest API documentation: Edit item - specifying ID which does not exist creates new record with new ID.
839892	Rest API documentation: Typos ('an User' should be 'a User').
840218	No records found in FortiNAC "Ports" tab for CISCO ASA interfaces.
840693	Changing time zone in Config Wizard doesn't apply.
840788	RADIUS/Winbind Status not showing enabled when service is running.
840796	Host lookups in MS InTune MDM are now done based on MAC address first and Serial number as last resort.
841405	Users & Hosts - Locate Hosts: Clicking icon in Views column leads to view with 'Login failed for: root' message.
841540	"Enable Application Updating" option has been removed from the following MDM Servers configuration as they do not apply: Google GSuite, MS InTune, and Fortinet EMS.
841770	Host - Policy Details - Edit Test: performing test does not run.
841781	Allowing duplicate forwarding entries on Fortigate during L2 poll.Prevents FortiNAC from sending RADIUS CoA packets to the FortiGate consistently.
841851	Manager (NCM) Dashboard: System Summary Missing Summary Data.
841874	Named root.hint files are missing.
841907	Slow display response in Manager (NCM) UI when pulling in Clients on managed FortiNAC appliances.
842122	Incorrect license use percentage on dashboard.
842181	RADIUS Change of Authorization (CoA) with custom attribute Fortinet-Host-Port-AVPair for FortiSwitch. See KB article 242393 for details.
842274	Additional routes view in Config Wizard won't load.
842280	Self-Registered guest: Checkboxes have been added to specify whether separate emails, or, conversely, a single combined e-mail, are to be used for providing the username and password to the user.
842370	"Local" Radius Mode is ignored in the SSID configuration if Model

Ticket #	Description
	Configuration is set to use Proxy.
842546	Unable to install upgrade on CentOS via GUI.
842569	Modify Group: Clicking the In Use link does not work.
842607	Portal SSL changes not saved.
843049	Add Host: incorrect role being used.
843410	Exceptions in log when creating new Winbind instances under Network > RADIUS > Windbind.
843414	URLs are not validated before being set/used under System > Settings > User Host Management > DeviceProfiler.
843509	Corrected mapping for Dell Networking X1026 1Gb Switch. The incorrect mapping prevented FortiNAC from accessing the switch CLI via SSH.
843897	Exceptions in the nessus log running certain DPC rules types.
844417	Under Policy & Objects > Endpoint Compliance: Scans, running a scheduled task for a scan generates an exception in the logs.
844982	"Cannot read properties of undefined (reading 'element')" after selecting Portal > Portal Configuration.
845035	Palo Alto VPN integration is dropping syslog messages.
845049	Users & Hosts - Hosts - Adapter Properties: Enabling Adapter is causing browser console error.
845120	Creating a radius attribute of "" causes RADIUS process to fail.
845175	Attempting to export an empty dataset can cause a log exception.
845454	Remote backup fails to copy files to remote server.
845792	CommonMib.snmpGet returned v1 error - OID 1.3.6.1.2.1.17.7.1.4.5.1.1
845894	Display Public SSH Keys not returning key data.
845930	Error in Manager (NCM) UI when synchronizing with a POD that has been re-added to the Server List.
845935	UI turns gray and does not allow input when scanning a host.
846212	Network - RADIUS: toolbar buttons not in consistent order.
846257	HTTP 415 error occurs when generating a guest password.
846286	License Management view does not display information accurately.
846668	FortiNAC can't process the Mac Notification traps from FortiSwitch running 7.2.1.
846680	Administrator login RADIUS authentication failure on FortiNAC Manager

Ticket #	Description
	(NCM) due to duplicate FortiNAC model.
846782	Unable to read complete network configuration from Aruba IAP because of # symbol.
847955	404 errors when accessing System > Settings.
848243	Invalid data c in attribute identifier causes Radius to terminate.
848274	Create Service Connector view is empty.
848285	ApresiaPlugin debug output was enabled unnecessarily, causing extraneous log entries.
848374	Cryptic error message displayed when setting threat override for an application as a user who has permissions for only "Users" and "Hosts".
848620	Appliances do not start after configuring L2 High Availability with a shared IP.
848732	Administrators - Users - Copy: Password field populated, but the user is told to enter a valid password.
848776	Permissions - Dashboard: Unable to edit task in Pending Tasks dashboard widget or in Alerts menu.
848954	New GUI > Users > Dialog maps Allowed Hosts to the wrong data.
849088	Permissions - Dashboard: Logical Network Host Access - panel does not load.
849114	Recent Hosts panel does not load.
849140	Control Manager API ping of Secondary Server returns the wrong serial number, causing ping to fail.
849244	Policy & Objects - Remediation Configuration: Remove causes exception.
849437	Unable to reset guest account password.
849455	Role view Last Modified By/Date column sorting/filtering does not work.
849459	Network Device Roles - Column Filtering: Access column filter applies filter opposite of what is specified.
849469	User with custom permissions to only view own Self Registration requests can see all requests.
849472	An exception occurs when a user with only "Reporting" permissions performs actions within the Logs > Reports pages.
849483	Passive Agent - search for Passive Agent fails.
849497	FreeRADIUS service restarted whenever a new device is modeled even if local RADIUS is not enabled.
849506	Permissions - Portal Configuration: Exception and view hangs uploading

Ticket #	Description
	image.
849514	FortiNAC SNMP Agent is throwing IllegalArgumentException in output.master.
849556	Cannot filter request processing rules by last modified by/date.
849871	802.1x EAP fails authentication after Quarantine VLAN is defined in Model Configuration.
850085	Added support for non-default API domains in Juniper Mist integrations.Previously, only api.mist.com was supported.
850163	Create new Device Profiling Rule fails on "type" field.
850913	High Availability:Manager (NCM) not in control displays HTTP Status code 500 when Admin UI is accessed.
850940	Stuck on spinner on Manager (NCM) when adding endpoint compliance policy & configuration.
851010	FortiSwitches in FortiLink mode and VDOMs get corrupted and deleted during a resync when a VDOM is given a NAS-IP address matching a FortiSwitch.
851427	Adapters view - Status tooltip values - Media / Access Value fields are swapped.
852533	Synchronization fails to delete multiple Device Profiling rules.
852636	System Performance dashboard tile can display a max of 101%.
852705	Cannot save "Confirm Rule on Interval" setting within Device Profiling rule.
852946	System Management settings cannot be saved due to error (HTTP 500).
853007	Excessive number of API requests sent to Meraki API Cloud, causingL2 Poll to fail.
853025	Nested port groups are not sychronized from Manager (NCM) to managed FortiNAC appliance.
853446	API - Authentication Configuration - POST: Unable to create/edit an entry with just name and note.
853499	API - Authentication Policy - POST: Unable to create an entry without specifying ENABLED.
853507	API - Authentication Policy - POST: Unable to edit an entry without specifying RANK.
853833	API - Portal Policy - POST: Unable to create an entry without specifying ENABLED.
853840	API Documentation - PortalPolicy: "an portal" should be "a portal".
853894	Exceptions in logs after adding devices to L3 polling with create rogues

Ticket #	Description
	enabled.
853970	API - AccessConfiguration - POST:able to create/edit entry with no logical network (which is a required field).
854205	API - Network Access Policy - POST: Unable to edit an entry without specifying RANK.
854228	nac sudoers file needs journalctl entries with no unit param passed.
854236	Errors on scheduler view on Manager (NCM) due to obsolete tasks.
854270	API - Supplicant EasyConnect Policy - POST: Unable to create an entry without specifying ENABLED.
854659	Pop-up error when selecting the Agent Packages view.
854675	Removed API call for usage of an Endpoint Compliance Policy. There is no "Used By" option in the UI for Policies.
854753	API requests to endpoint-compliance/scan do not require a Scan Name and default to scriptType 0 resulting in a non-visible scan in the Scans view.
854782	API - Endpoint Compliance - Scans - POST: Result for "copy" differs when run from API versus UI.
854800	API - Endpoint Compliance - Scans - POST: Editing a scan with bad ID results in inconsistent error.
855065	API - Endpoint Compliance - Scan - GET: Issuing request for /product is not returning results.
855072	API - Endpoint Compliance Policy - POST: Unable to create an entry without specifying ENABLED.
855104	Added support for Meraki Cloud v1 API.
855192	API - Endpoint Compliance Actions - POST: Unable to create/edit event action - required Activity cannot be specified.
855199	Config Wizard apply script not completing.
855891	FSSO failing to send to FortiGate for hosts with Persistent Agent due to lack of IP address.
855897	Added CLI Configuration in Model Configuration view for Huawei Switch S5731-H48P4XC.
856217	Hosts discovered by certain MDMs are incorrectly marked as having a PA.
856350	Unable to Admin Up a port via port properties in Adapter view.Incorrect port is shown.
856362	Upgrade from 8.x to 9.2.6 GA changes Conference account password.
857035	FortiNAC cannot read the MAC-Address table for Extreme Networks Controller.

Ticket #	Description
857093	grab-log-snapshot stacktrace files are empty.
857360	Duplicate instances of the same IP address under Settings > Log Receivers could (incorrectly) be created.
858210	CoA not working for FortiAP connections.
858213	Under Users & Hosts > Device Profiling Rules, warnings are generated in the logs when importing an exported device profile rules XML file.
858667	High Availability: Unable to download Secondary Server logs via "Download Logs" menu in the Primary Server Admin UI.
858669	Dashboard widget "Logical Network Host Access" does not show correct name, and does not update if logical network name changes.
858839	REST > settings/device/device-type/create-from-archive supplying invalid image name reports success.
859149	VLAN IDs not available under Model Configuration for APs managed by Extreme WLC .
859473	Getting NumberFormatException when processing Mac Notification traps from FortiSwitch in FortiLink Mode.
859702	Enhanced Palo Alto SSO REST API to allow for bulk messaging.
860206	Polling threads get locked when communications are terminated unexpectedly from the Manager (NCM).
860493	Hosts that have disconnected from Westermo switch continue to display as "connected" in FortiNAC.
860501	Adding LDAP user populates undefined values in the fields.
860546	Added L3 polling for Extreme Campus Controllers (XCC).
861633	Switch doesnt have ability to add CLI config for our VOIP VLAN.
861985	Run FortiGuard IoT Scan from the Adapter View results in an error.
861989	Inventory > Events > Note is displaying the escaped text.
863439	Google Auth service connector displays escaped values.
863831	Passive Agent Configuration allows angle brackets in the name, resulting in extra characters added to the name.
863840	Network Access Policies with angle brackets in the name cause additional characters to be added on modification.
863859	User Host Profiles created with angle brackets in the name show up with a blank name in the view.
863872	Angle brackets are no longer allowed to be used in the name when creating roles.

Ticket #	Description
865088	Group > Show Members renders HTML.
865110	Guest > Name column shows escaped values.
865136	User/Host Profile - Who/What Attrs - HTML values not rendering in modify dialog.
865138	The host profiles displayed in Portal Policy Add/Modify dialog could fail to appear.
865165	Creating Host with Custom Device Type, when using a name that contains angle brackets, results in a broken image.
865169	Hosts - Adapter Info: Adapter Description is empty if entered with angle brackets.
865202	Network Access - Configuration - In Use - Unescaped name shown.
865268	The Policy Details dialog for a host is converting angle brackets for user/host profiles, policies, and configurations.
866419	No landing page set for Config Wizard only users under Users & Hosts > Administrators > Profiles > Permissions.
866432	Admin users with only System Settings permissions receive an error when accessing the Allowed Domains page.
866507	Modify Schedule Rescan of Agents - brackets in name not displaying.
866535	Profile Device User > Profiled Devices > Select Notes receives an error.
866966	Unable to download Agent packages from Administration UI.
867285	Device Type changes do not appear in audit log.
867293	Remote SSH backup reports "SSH keys are not configured properly" when "Test Connection" is clicked.
867366	Configuring IPv6 address in Basic Network Config Wizard page results in exception. Page goes blank.
868340	Reset doesn't restore Additional Routes in Config Wizard.
868651	ConfigWizard cannot be accessed after resetting FortiNAC appliance to factory defaults.
869948	Cannot enable/disable Network Access Policies from the Network Access Policy View.
870920	Unable to authenticate using MS-CHAP-v2 and Local RADIUS.
871268	New Android DHCP fingerprints have been added.
0834094, 0834089, 0845505, 0845493	Global objects may not synchronize correctly (including Device profiling rules, groups and group members) between the Manager (NCM) and managed appliances.

Ticket #	Description
0856192 , 0864253	FNAC FSSO does not send required groups to FortiGate.
835551, 836475	Upgrade from previous version gives message that downgrading is not supported.
848301, 770091	Network Events table not populating RADIUS events.
845163	In a High Availability environment, if no isolation networks are configured, the dhcpd service will fail to start resulting in a failover.

Version 9.4.1

Ticket #	Description
701822	Fully Qualified Host Name info Bubble is misleading.
734571	Clicking import and apply without selecting a file imports the last imported file.
769019	Post install keytool exception in log.
773088	VLAN read failure for Adtran NetVanta 1638.
775679	Hosts are incorrectly enabled after an LDAP sync.
784543	Portal policy permission set is required to send guest email details from Guests and Contractors view. Otherwise, 403 error is thrown.
785791	Fortigate cluster not modeled completely.
786651	MICROSENS G6 Micro-Switch not switching VLANs.
787687	Inventory > Firewall Session Polling defaults to a frequency of 0.
789654	Clients shown offline in Ruckus controller v6.0.
789840	Users & Hosts > Guests & Contractors : The description in the popup window for Send SMS are not correct.
789970	FortiNAC does not send SSO messaging to all slots in FortiGate 6000 & 7000 chassis.
790393	In RADIUS view, able to delete TLS Service Configuration which results in invalid state and browser error.
790864	UI allows a License key with non-matching MAC/UUID to be installed. Installation and configuration tasks consequently fail.
791405	"Request unsuccessful with no errors reported" message opening Model Configuration tab for HPE Walljack.
791751	In some cases, importing hosts with siblings (Adapters that are on the same host) can result in "null" error.

Ticket #	Description
791889	Audit Logs do not report the Adds from a Host Import.
795932	Radius auth fails when primary LDAP directory is down
796965	Inconsistency with device count & results returned from clicked for more details in Network Devices dashboard tile
797009	Registration Requests: Browser Console Error - logicalNetworkPanel is not defined
799401	SNMP MAC-Notification trap support for Dell EMC Networking N3248P-ON.
799439	Notification of failure to import expired hosts is not present
800422	exception when modify endpoint compliance policy
801717	AdminProfileMapping doesnt change the admin profiles of the groups
802114	Juniper EX9253 and qfx5120-48y-8c, Type is "Unknown" and Version is null in the Inventory.
802908	RADIUS default server config not created on first startup
802969	Account Requests view has incorrect or missing sort keys.
803314	ConfigWizard does not correctly update hostname in /etc/hosts.
803382	Audit Log service does not use the Audit Log permissions.
803692	Non-alphanumeric characters in group names do not get created in UI correctly.
804759	In Users & Hosts > User Accounts, clearing a value in the search box and clicking enter results in several empty rows.
804910	Alarms: Inconsistency between "Clear" and "Delete" terminology.
804913	When clicking the count of hosts in the Logical Network Host Access tile, the list of MAC addresses used to query the hosts is not clearing.
805426	Null pointer exception in dynamic connection host API call.
805799	NullPointerException in output.master when there is no default gateway.
806106	Juniper Change of Authorization (CoA) Fails.
806616	RADIUS Change of Auth (COA) does not complete when hosts are deleted. Consequently, VLAN switching does not occur and host is not isolated.
806666	Duplicate label in both overlays within the Network Events view.
806936	Importing Mist APs with CLI import tool does not add the AP models to the L2 Wireless nor Device Interface Status groups.
807311	After NAC services restart: MAB RADIUS session times out due to FortiNAC being busy in SSH communication with the switch.

Ticket #	Description
807396	Logical Network Host Access dashboard tile not displaying accurate counts.
807689	For endpoints managed in SSO integrations, FortiNAC no longer performs L3 polls for Rogue hosts. They are not necessary.
808084	Send SMS in Guestserver is using user record to send the sms when it should be using the guest record.
809462	Several NullPointerExceptions in output.master when polling FortiSwitch.
809492	Exception in OVA deploy of 9.4.0.0717: FileNotFoundException (ScanPolicyList).
809493	Exception in OVA deploy of 9.4.0.0717: CertMgmtException.
809538	High Availability Database synchronization failure.
809857	Network > Service connectors > REST SMS gateway : password is set to null after upgrade.
810167	iOS fingerprints misclassified as macOS.
810197	Local RADIUS panel does not prevent the configuration of an authentication port already in use by Proxy RADIUS.
810209	SSIDs are not complete in UI for Aruba controller VIP.
811447	Upgrade failed due to: Operation CREATE USER failed for nac@localhost.
811479	High Availability: RADIUS service can start/run on primary when secondary is in control.
811775	Performance improvements with client lookups.
812169	Virtual Winbind service management queries periodically fail.
812581	Duplicate user ID exceptions during RADIUS auth when userID does not match the name in an email address.
812674	RADIUS Change of Auth (CoA) is not being sent to Huawei wireless after host has registered. Prevents changing VLANs.
812908	/var/log/messages is not rotating, generating large files and high disk usage.
812930	SSO tags not being sent in 9.4.0 without group option being set.
812933	L2 poll not working for HP NJ5000-5G-PoE+ Walljack.
813564	FortiNAC fails to find API port from FortiSwitch.
813654	Added support for FortiSwitch MAC Notification traps.
813681	Missing resource exception: SSOManager in output.master.
814082	Average Requests/Min value in RADIUS dashboard now shows a fractional value when the requests/minutes value is < 1. Previously, values < 1 displayed as 0.

Ticket #	Description
814493	Restarting admin GUI may result in loss of access to GUI until server restarted.
814631	Ports not properly configured using Aruba CLI scripts.FortiNAC reads Port ID for the port variable instead of port number.
815352	Logical network configuration mappings can return the wrong value when host is connected via more than one interface.
815732	Obsolete RADIUS support message has been removed from generic SNMP device Model Configuration view.
816028	RADIUS Activity view is presenting access-accept value when no activities is recorded per snapshot.
816031	FSSO tag information is not sent to FortiGate.
816407	FortiGate L3 polling doesn't update the client IP.
816451	Importing DHCP Scopes - Wizard shows blank scope data.
816799	Fix TaskFilterSpecification startId and maxRows.
816828	Polling of entitlements for subscription licenses fail.
816871	System Update settings do not update on the Secondary Server in High Availability environments.
816877	Host icon does not match the icon assigned by Device Profiling Rule
817022	Hosts View - Rogue record Host Name is not updated from DHCP.
817473	FortiNAC is installing two versions of the ecj jar file.
817563	In certain cases, the Network Events view does not load and Network tab displays HTTP errors.
817767	CLI failure on Alaxala switch with enable password bypass configured.
817845	L2 Polling queue backed up, excessive polling completion times.
819384	Added DHCP fingerprint for Fortinet IP Phone.
819470	Fingerprints that can match Windows 2012 do not indicate Windows 2012.
819753	FSSO Tag assignment is not triggered before the next L3 poll.
820375	Meraki (and possibly other) devices incorreccted managed with Generic Radius plugin.Symptoms include the Change of Auth (CoA) packet being sent over the wrong port.
820569	Policy - User Permissions: No Group Access causes Who/What Groups and Where Locations Select Entries panels to hang.
821244	Device Profiler failing to match Fortiguard method when Fortiguard polling returns confidence values over 127.

Ticket #	Description
821399	FortiGuard IoT Scan doesn't work as expected.
821473	RADIUS Activity Dashboard- Show Rejected Hosts View - Changed EAP/Outer EAP type columns to EAP/Inner EAP for consistency.
821527	RADIUS does not start after upgrade from 9.4.0.0717 GA to 10.0.0.0013.
821656	Help tips added in the Settings panel for the RADIUS Widget in dashboard.
823908	Aruba switch device failed to connect using valid CLI credentials.
823955	Wireless clients connected to FortiAP show up in FNAC on wrong interface.
825436	IP addresses appended to network device names during discovery are truncated. This can result in duplicate device and port names.
825467	WinRM Device Profiling Method doesnt handle multiple credentials properly.
825766	Adapters View - Status tooltip clips if it contains more than 2 rows of data.
825770	DOC API - FortiNAC_REST_Schema_9.2.pdf - "deviceId" required for - policy/logical-network-configuration/element/properties.
825920	Ruckus SZ Controller:When NAS ID = Controller IP and the Source IP = Access Point IP, RADIUS CoA fails unexpectedly.
826155	Updated OUIs.
826648	Wireless hosts are not displayed correctly in Meraki AP device port/adapter view.
826924	Fixed integration for DGS-1510-28X Gigabit Ethernet SmartPro Switch.
828242	Ruckus Switch Non-Default VRF Arp entries no longer contained at ipNetToMediaPhysAddress.
828500	Unable to add domains to zones.common via GUI (Allowed Domains).
828912	MDM poll fails for MaaS360.
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.
833445	Config Wizard - Add/Modify Scope: Clicking Help opens page with 9.4 version loaded by default.
833700	RADIUS server fails to enable when upgrading from build 0721 to 0722.
834302	Updating NTP generates "Failed to save Time Config".

Ticket #	Description
834479	When creating a new user via the REST API (and thus GUI), the password was not hashed properly.
0810167, 0810180	Fixed fingerprints for iOS, FortiGate and FortiSwitch. Previously, they could match the wrong devices.
751468, 811479, 770730	RADIUS/Winbind services need manual startup to handle system reboot.

Version 9.4.0

Ticket #	Description
643817	Added L2 Polling to Palo Alto
692446	Added Preserve Port Names option to update port names when changed at the switch. Option can be modified at the switch and global level. See Device properties and Network device in the administration Guide for more information.
699487	Kerberos support
699857	User Organizational Unit OU LDAP mapping to use it in User/Host Profile
709286	New UI menu to download log files for troubleshooting. See Download logs in the 9.4 Administration Guide.
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.
733943	Changing password in bulk using Set Model Configuration sets the same username for all selected devices.
747921	Portal renaming does not rename the associated CSS files.
750248	Unable to access the secondary server's Configuration Wizard in a High Availability configuration.
752941	GUI option to select the RADIUS MAC delimiter for Juniper Switches
755328	Embed Tomcat into yams
756167	RADIUS view sort by Winbind column fails, shows empty table.
756499	MicroSoft InTune MDM integration does not support latest API.
759018	Admin user with admin user profile permissions to Access, Add/Modify and delete "Users" is unable to create a new regular user.
762071	Radius Auth/EAP Type columns empty in Network > Device > Ports > Adapters table.

Ticket #	Description
762081	bsc-rename-ethers service fails on virtual machines.
770208	Juniper switches fail to change VLAN on ports that are RADIUS enabled.
770930	High L3 Polling frequency in environments with no SSO management configured.
770974	Event Lifetime alarm trigger rule is not being honored when configured.
773426	Continued work on wired generic RADIUS integration
773828	Not polling L2 information from PNetworks switches with latest firmware.
774724	Unable to filter Hosts and Adapters by status through API.
776171	Rewrite Host/User/Adapter dialogs
777400	Syncing "Role Based Access" may delete sub-groups
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.
778940	AV Product to detect Windows Security Center-detected products
779414	Client filter for User Accounts, Hosts, and Adapters not functioning properly rewrite of OmniSources.
779873	FortiNAC processes taking unusually long to startup due to delays resuming FirewallSessionMgr.
779901	Vulnerabilities in mysql versions less than 5.6.42.
780282	FortiNAC Events using old vendor name "Bradford Networks".
780626	Huawei Wireless controller imports nameless APs.
780755	Alarms view used the legacy Dashboard actions.
780790	CLI Failing to Alcatel Omni 6860-P48.
781520	RADIUS COA failing for FortiAP when hosts are deleted.
782374	L2 polling not parsing correctly for Motorola 7.X devices.
782418	Hide Accepted Requests Enabled and click on Expand Widget - Widget shows Accept Requests
782433	Fix Integration for D-Link DGS-3130-30TS.
782438	InvalidYamsUserException seen during UI logout.
782740	Unable to read default and current vlans for Ruijie switches.
782744	Script install-winbind-virtual contains spaces around = assignments - invalid.
782760	Huawei S7706 switch is not reflecting the interface port number correctly in

Ticket #	Description
	the Label column.
782884	Green theme has similar colors for charts.
783227	Check that freeradius gpg key is imported.
783536	Portal Auth - FAC VSA Fortinet-Group-Name is not created in FNAC.
783544	Fortigate FG-200F improperly labeled as FG-201E.
783552	NAC service not running at startup when no IP address is configured for eth0. This causes "Processes Down" to display in UI.
783587	AirWatch MDM roles are overwritten by user roles.
783621	Host import related Memory issues.
783944	Exception reading VLANs on Meru 4100 with firmware 5.1-93.
784045	Memory leak in stacked-area-chart.Symptom includes Dashboard becoming unresponsive if left open for long periods of time.
784346	RADIUS Reject doughnut is not centered if filter does not include any reject counts.
784517	Location filtering not working on Connections view.
784601	Group membership lookup causing high CPU utilization.
784618	RADIUS Failures after upgrading from 8.5 to 8.8 due to bad secret.
784957	Not polling L2 information from Cisco ME-3400E-24TS-M router.
785367	RADIUS GroupName - Group Members list does not show all members.
785403	Unable to add user to user group containing * in name.
785438	A None/Use Default option has been added to Users Dialog > Mobile Providers.
786277	RADIUS Group - Exception when user group already exists with Type non-User.
786401	Remote Scan -> Linux x86_64 -> 500 Error
786434	Allow changing CLI Passwords from Secondary and FNAC-A systems.
786670	Exception thrown when loading Logical Network Host Access tile.
786744	User Accounts view > create user is not passing password as encoded, and will not match auth requests.
786751	Distinguished Name (DN) can now be used in User view filters.
786785	Not able to add ciphers under RADIUS > TLS config page.
787271	Certificate Management View - Server Certs & Trusted Certs views both showing results from both views.

Ticket #	Description
787562	MDM sources can't override the host icon.
787563	Fix null pointer exception during SNMP read of Meraki L2.
787584	Logical Network Host Access host info slider not displaying info.
787585	DHCP fingerprints are not matching DHCP message type.
787909	Portal configuration changes don't take effect without restart.
787957	Self-Registered Guest Login,: Failed to retrieve SMS Providers - null
788066	Server startup delayed by incorrect thread start logic on Network Session Event updater.
788089	RADIUS service will not start after upgrade to 9.2 if winbind is not fully configured.
788119	Network Events table does not show totals for Event Type column.
788138	Network Events has no option to filter child records.
788729	Randomly RADIUS 802.1x proxy stops working.
788825	DHCP fingerprint additions, changes or improvements to the following: "Camera", "D-Link" "Camera", "TRENDnet" "HVAC", "Honeywell" "Mobile", "Samsung SmartWatch" "Gaming", "Nintendo" "Network", "Router/Netgear" "Network", "Router/D-Link" "Network", "Router/Trendnet" "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"
788849	New dashboard tiles relating to Connections were incorrectly not masking the background.
789018	Service Connectors > REST SMS Gateway > The required fields should be the same in create and edit page
789061	Service Connectors > REST SMS Gateway > HTTPs Toggle is not working expectedly when API URL is specified with https.
789228	Modifying adapter allows Physical Address to be left blank.

Ticket #	Description
789309	Filtering on the column Type does not work on Network Events.
789316	Deleting multiple User Accounts in a row does not delete all user in table.
789396	Service Connectors > REST SMS Gateway > Overview: Cant tell which REST SMS Gateway is set as default.
789440	SMS sending would stop after the first user.
789763	When changing the date via the Settings tile, Recent Hosts tile date range not updating properly.
789785	Not able to add groups to the Roles.
789865	Network > Service Connectors > REST SMS Gateway: The default gateway is not working when the mobile provider is None.
790010	Two tiles without settings still show Settings.
790403	Fix ClassCastException in AirespaceSwitch during WAP read.
790580	Network > Service Connectors > REST SMS Gateway: Security Incidents of a host doesn't trigger the corresponding SMS.
790747	FGT interface with VLANs does not show device connections to VLAN sub interfaces for traps.
790854	Failure to properly read Cisco trunk ports results in undesired VLAN switching.
790904	Creating new user as non-admin hangs retrieving Role dropdown values.
791273	Non Admin User Can Edit Admin User.
791276	Clicking EULA Link When Logging In As New User Goes To Broken Link.
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.
791401	Dashboard > Scans > By Day grouping is incorrect.
791841	Edit Host Dialog > Device Type is not reading/writing the correct value.
792452	NetworkSessionEventUpdater is throwing an exception on startup.
792514	A remote unauthorized user can gain the version of the Tomcat used by FortiNAC by sending an HTTP GET request.
792516	Vulnerable scripts
792522	Fix Database auth changes for initial install.
792986	Device Types, Role, User ID drop down is not ordered.
793169	Messaging Gateways > Change how passwords are transmitted.

Ticket #	Description
793920	Default Admin Profiles Have No Permissions.
794036	User Record values must be populated automatically if the user exists in an Active Directory or an NCM.
794067	Not pulling L2 information from Aruba 8.X firmware.
794362	System Update not reliably trusting fnac-updates.fortinet.net.
794381	Fortigate forwarding class does not work with tls1.3.
794774	Landing Page does not work for all choices.
794783	Typo in a CLI Password error message.
794791	Admin user is brought to the last-viewed page when logging in to UI instead of designated Landing page.
794937	The Recent Hosts widget is not displaying additional host info when clicking counts.
795243	Portal - Request Processing Rules: Text at edge of window for Auto Configure and Publish.
795260	Local RADIUS Server not returning proxy-state attribute in Access Accept for Motorola/Extreme Networks WiNG VX 9000.
795260	Motorola controllers proxying AP auth requests send Proxy-State attr and expect it unchanged in response. RADIUS (local) does not send it back.
795623	Log output from Windows Profile method when parsing fails.
796048	An error is getting thrown during NetworkSessionEvent archive & purge.
796065	Unable to set device profiling to Host to Logged in User (if Present) on NCM.
796105	Device Type incorrectly changing for registered devices.
796145	Guest and Contractors > Select one and View > send SMS throws a null pointer exception.
796259	In Pending Tasks page, tasks are allowed to be completed, even if their parent task is incomplete.
796515	UnsupportedOperationException trying to autoclose FileSystem in process manager.
796522	TelnetServer not handling SocketTimeoutException.
796533	Support for Physical Ethernet MAC for Apple TV in Jamf.
796623	MicroSoft Intune API only returns ethernetMacAddress per device.
796659	Host information does not display when clicking "Total Count" on Persistent Agent Summary widget.

Ticket #	Description
796663	Setting option for Persistent Agent System Page is not allowing to toggle between visualizations.
796908	Clicking the number in the Logical Network Host Access tile does not open the hosts slide.
796965	Network Device Summary widget not showing complete switches and Wireless AP counts.
797369	Added Minutes/Hours/Days control to Logical Network Host Access tile.
797439	Host > Edit Host > Cannot change the Role or manually Register as Device.
797465	Nested group memberships not detected.
797542	Dashboard > Scan > Group by Hour adjusts timezone.
797708	Force 10 switches sometimes modeled incorrectly.
797723	Local RADIUS mode: RADIUS fails for endpoints connecting to a FortiSwitch that has been renamed.
797778	AdminProfileManager has a null reference on Startup.
797834	Unable to properly expand details of "Network Events".
797919	Network > Service Connector > REST SMS: All of the SMS sent out using the default SMS Gateway even when the mobile provider is set.
798181	RADIUS Service Host MAC filter does not print debug if supplicant does not use colon mac delimiter.
798234	Rejected Hosts view in RADIUS Activity tab doesn't properly filter table results to exclude a specific reject cause.
798234	RADIUS dashboard tile - rejected hosts slide opens empty.
798511	Upgrading from 0159 to 0160 results in error: Access denied for user nac@localhost (using password: NO).
798651	Can not access RADIUS Activity view if user has "Activity" but not "Local Service" RADIUS view permissions.
798665	REST SMS Gateway: In Captive network > Guest Self Registratiion page, when Mobile Provider=None, the SMS is not sent.
799804	TLSv1 and TLSv1.1 is now disabled in portal by default.
800323	Policy name in Admin Profile > Permissions are not consistent with policy name in Policy & Object.
800408	API query for FLink FSW data deprecated in FOS 7.2+. Prevents FortiSwitches in Link mode from being added to Inventory when the managing FortiGate is discovered.
800811	User with permission for access users is also able to delete user.

Ticket #	Description
801221	SQL Exception thrown in NetworkSessionEventUpdater if DYNAMICLOG table is missing from database.
801252	RADIUS not mapping to correct AD server when kerberos and netbios names differ for a single winbind instance.
801623	Phone numbers formatted to E.164 before sending to gateway.
801661	GUI - URI navigation drops query params, losing tab indicator, prevents direct links to secondary views.
801666	Host summary tile total values don't apply filter.
801971	Groups view doesn't automatically reload.
802343	The message template under Notify User Via Email is not editable in Self Registration Login Portal Configuration.
802372	Vulnerability Scan Status on Host view page displays as "-1" instead of passed, failed or not scanned.
802913	Clicking Cancel in Create User view results in browser console errors.
802923	ClassCastException when creating/deleting trigger.
802942	Parsing issue with Mobile Iron Cloud integration.
803033	FortiNAC Agent version 9.4.0.93 is included with this release.
803061	Multicast IPv6 addresses can now be excluded using the MAC address Exclusion view. See MAC address exclusion in the 9.4 Administration Guide for details. Note: After upgrade, toggle the option off and on in order for the function to take effect.
803645	output.nessus - several java.io.FileNotFoundException errors
803651	Model Config of VDOM reports 404 error and exception in output.master.
803745	Top Host Activity Widget - maps Device Type to User&Hosts > Hosts > Operating Systems Column instead of Device Type.
803745	The Top Host Activity tile was using getTypeLabel instead of getIconType to populate the Device Type column
804512	A null reference exception is thrown sometimes when expanding/scrolling the Network Events datatable.
804518	Local Radius leaves out Tunnel-Private-Group-ID and Filter-ID when Quarantine enforcement is set to "bypass".
804913	Logical Network Host Access total count slide out shows all hosts for the Logical Network instead of only hosts for the specified time sample.
805725	Historic Network Event data is incorrectly setting Disconnect time.
805866	Scheduled Shared Filter Reports result in error event.

Ticket #	Description
806122	Roles not being assigned properly to Registered Hosts.
806141	Network > NetworkEvents - upgrade from 9.x to 9.4Type, LogicalNetwork and NetID is not showing expected data.
806141	Network > NetworkEvents Type, LogicalNetwork and NetID is not showing expected data.
806282	When a user attempts to complete a task via the notification bell, and it has a parent task that is still open, it incorrectly displays a "Changes Saved" message.
806567	known_hosts file has duplicate host entries.
807062	On upgrade, FortiNAC loses its eth0 IP Address.
807383	The POST method to add a new HostRecord has changed in this version. POST attempts using the old API call fails.
586499 765212	SMS Gateway Support
725235 756818	Debug logging enhancements
751403 782386	RADIUS Activity Monitoring - Additional Misc Fixes.
782391 782386	RADIUS health activity- Current last 90 min does not match Timeline Chart Time Span for 90 min
784737 785526	Location and IPRange method match failure prevent matching lower rank rules.
801948 803681	Fresh Deployed server will not start: java.sql.SQLException: Connections could not be acquired from the underlying database.
750209	Enhancement made to detect unrecognized devices that support standard based RADIUS management via CoA/Disconnect.
759481	FortiNAC detects AV engine status on windows

Known Issues Version 9.4.3

Ticket #	Description
941702	Old portal server after upgrade. Workaround: Remove index.html from appropriate directory bsc/www/portal/<registration/remediation/deadend>
939970	Device Discovery process not scanning entire provided subnet range
938146	Hosts registered in gSuite with a common ethernet adapter host records are being over-written.
937206	Devices modeled with SnmpV1 when SnmpV2 is specified via the SNMP REST API Endpoint.
936140	Entitlements are removed after upgrading FortiNAC Server to 9.4.3/7.2.1 or greater when FortiNAC Manager has older license key format.
833437	Config Wizard: Entering an invalid character results in empty UI and browser console error.
930027	Portal SSL setting is disabled after a fail over to Secondary Server or resume control to Primary Server in a High Availability configuration. Workaround: Re-enable the Portal SSL setting.
889609	Switch port is not dynamically changed to uplink when v-edge router is directly connected to Cisco switch port. Workaround: Add v-edge router to L2 Wired Device group.
913616	No error message or feedback when configuring Winbind with a local netbios name that exceeds 15 characters.
922114	Modifying nested group membership is not logged in admin auditing.
932917	Mechanism to automate the generation of SSH keys when MultiKnownHostEntries is set.
932578	Unable to L2 poll FortiLink switches on FOS 7.4.
841488	Adapters: Go To Host(s) action not working correctly - loads all hosts.
931340	FortiNAC is not sending a disconnect to Juniper switch on host state change.
928827	Host aging is not applied to IP Phone device type.
924474	Unable to select SSIDs when creating/modifying a port group under System > Groups. Workaround: Under SSID tab, right click SSID, select Group Membership & select the desired group.
925603	FortiNAC currently supports one VLAN instance per FortiLink port per VDOM.
889986	Unable to save changes in Require Connected Adapter.

Ticket #	Description
910226	Default principal process threads thresholds are low and cause warnings or alarms immediately after update.
910817	404 errors not being handled gracefully when requesting physical MAC for specific host.
899821	Password Display/Generation Behavior Needs Updating in Admin Guide due to changes in 9.2. For details see KB article 256200 .
889618	Guest & Contractors View Accounts Print and Print Badge buttons print all badges and not the one selected.
912115	Guest Self Registration Error "The input is required".
912128	FortiNAC is not sending CoA to Meraki MS switch on host state change.
901236	Radius Authentication rejecting with network access policy setup with Direct configuration.
910706	Cannot create Guest account with REST v2 results in errors 400 and 500.
836136	Guest passwords not read correctly out of the database.
909839	Repetitive Periodic FSSO logon and logoffs due to null user information
908861	Custom filter is not applied in host or adapter view.
908343	Address objects added in the model configuration to manage VPN do not take effect until a resync of the device.
905865	Cannot enable "Enable Quarantine VLAN Switching" option in GUI.
890988	We are not allowing a user to view the device data with "Network Devices >Access " only permissions for admin profile.
868999	Host status "pending at risk" is not honored if host status "safe" is ranked higher in policy where profile is applicable.
800326	Cisco chassis switch with a Cisco WLC connected via port channel shows as a rogue.
904541	FirmwareVersion value missing from Meraki AP's on upgrade to 9.4. Workaround: https://community.fortinet.com/t5/tkb/workflowpage/tkb-id/TKB23/article-id/1072
904535	3Com 4800G unable to read MAC Addresses from MAC Address Table.
827283	Roaming Guest Logical Network missing from Model Configuration of FortiGate and possibly other vendors.
894661	When Admin UI is left unattended, and admin session times out, previous active page is still visible in the background.
896002	Error creating guest accounts with duration greater than 20 days.

Ticket #	Description
903393	Unable to Remove High Availability Configuration with Control and Application server pair.
780312	FortiNAC does not integrate with Azure Active Directory due to SAML connection requirements.
902533	Modifying port name value via port properties that include "&" generates "amp;" in port name.
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 .
894165	Test Device Profiling Rule results in "Rule Does Not Match" if rule name contains a double space.
891890	Windows 11 hosts detected as Windows 10 hosts when using Dissolvable agent.
891530	Unable to set Admin Profile using "Set Admin Profile".
890893, 907482	Global objects synchronization not completing between manager and appliances. Workaround: Reboot of the CA server
889575	Cannot filter using Custom Filters.
888616	"Load CLI Configuration error" when navigating to System > Scheduler.
887478	Links in the Persistent Agent Summary panel produce redundant results.
887470	Domain with single character between dots in multiple dot domains results in error when adding to allowed domains.
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.
881837	Hosts with spaces in the hostname throws an exception when trying to make an edit to the host where hostname contains whitespace.
878059	Using Location that specifies a device will not work if that device is a FortiLinked FortiSwitch
874037	GUI > Users & Hosts > Host View > Quick Search - Unable to locate host by hyphen or no delimiter.
872245	The migration procedure to move existing FortiNAC servers from CentOS to FortiNAC-OS is currently not supported.
870875	Address Group Object "In Use" button does not display accurate results.

Ticket #	Description
869052	Despite being modeled correctly, Meraki MX doesn't pass credential validation.
866378	Custom Login using a Guest Self Registration account fails with error Registered Client Not Found.
863826	License Management view in the UI always displays "Base" for the License Name when using subscription licenses. Workaround: Use the License Information Dashboard Widget.
861201	Windows 11 Domain Check.
860996	Unable to read VLANs or L2 data for Huawei S6720-30C-EI-24S-AC.
858184	Custom Subject line for Self Registration Request sent to sponsor does not reflect custom text.
858138	FSSO Tags are not sent to Wired and Wireless FortiGates after reconnecting the LAN port on FGT1101E.
857083	After Self Registration, FortiNAC doesn't sent Disconnect-Request to Huawei Controller.
854239	Radius CoA is not working as expected - ClassNotFoundException for CambiumAP in 9.2 release.
853870	Kaspersky Endpoint Protection 11.10 is not supported by FortiNAC.
852670	AP showing up as learned uplink not WAP Uplink.
852560	Custom Guest Account Password e-mail template is not used for Self Registration Self Registered Guest.
847630	Newly deployed NAC via OVA was incomplete requiring various manual workarounds to get completed.
846822	FortiNAC failed the NMAP scan due to old IP reported from the arptool.
845412	When a sync is performed on the Network Control Manager, modified group names are not synchronized to the managed pod.
845008	Grab-log-snapshot should collect more master log files than the two collected.
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.
843401	Wrong portal selected despite matching specific portal policy.
842134	Blank section to Captive Portal page for mobile devices added after upgrade.
841825	Guest Self-Registration fails if using SMS.

Ticket #	Description
838525	Configuring Remote Backup results in a "HTTP Status 500 – Internal Server" error.
836435	Unable to read VLANs on Huawei 6508 WLC.
835782	Config Wizard: Entering Application Server license is showing error (500 - Unable to compile class for JSP)
834094	When a sync is performed on the Network Control Manager, if an IO error occurs, global device profiling rules may be removed from the managed pod due to returning an empty list.
834089	When a sync is performed on the Network Control Manager, if an IO error occurs, global port group membership may be removed from the managed pod due to returning an empty list.
833735	Host icons in the Inventory view are not updated until a Layer 2 poll occurs.
833324	FortiNAC unexpectedly disabling Juniper EX interfaces when host is deleted in "Host View".
833305	Guest account password is unmasked when printing badge even though admin user does not have password viewing permissions.
832313	SSH keyboard-interactive is disabled by default starting with versions 9.2.7, 9.4.2 and F7.2. This may affect FortiNAC's CLI access to a limited number of devices (like Arista switches). For details and workaround, see KB article https://community.fortinet.com/t5/FortiNAC/Troubleshooting-Tip-SSH-login-fails-due-to-SSH-keyboard/ta-p/244979
829702	FortiGate wireless clients cannot connect after a FortiNAC software upgrade if the FortiGate device model's RADIUS secret is not populated. This is true even though the VDOM radius secret is populated.
828499	HTTPD failed state after 9.2.5 upgrade requiring cleaning up semaphores.
827283	Roaming Guest Logical Network missing from FortiGate Model Configuration and possibly other vendors.
826924	Issue with automatic VLAN assignment to ports on switch.
826653	FortiNAC supplied Dynamic Addresses on the FortiGate can become orphaned in FortiNAC High Availability environments. This can cause unintended network access.
824088	Unable to update existing Registered Host records using Legacy View > Hosts > Import.
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.
816828	Wrong License Displayed (Base instead of Plus). Polling of entitlements is

Ticket #	Description
	failing.
814183	Unable to view all Certificate Details in the Certificate Management view.
813652	Security Alarms are not generating from Security Events.
812908	/var/log/messages is not rotating generating large files and high disk usage issues.
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.
809769	HTML is not supported when using "Guest Account Details" message type template.
809769	HTML is not supported when using "Guest Account Details" message type template.
808523	Delete User: Admin User without Admin User Permissions is able to delete another Admin User.
804519	Network Events and other Views - Filtering based on content entered in the filter field does not produce results. Workaround: Leave filter field blank and select an object in the drop-down instead.
800870	Packet from a secondary that is not the secondary in the configuration will prevent the primary from starting.
800325	Cisco Port Channel Link Resolution.
795411	Not able to click the "In Use" number of Concurrent Licenses Widget.
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.
791739	Google Authentication: Google Identity Services Library is currently not supported.
791442	Able to delete a Portal Configuration which is in use by a Portal Policy. Removal is done without warning the user.
784642	Norton Antivirus Plus (Norton 360) installed from app store not detected in endpoint compliance scan.
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).
776077	Local Radius to Winbind connection cannot be secured at this time.
774048	L2 HA + VIP Pairing Process Failing. Configuration completes but leaves

Ticket #	Description
	both appliances in a "processes down" state. Workaround: Reboot appliances.
773733	Enhance DeviceInterface debug dumpSSOTargets output.
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.
767548	Register Game system with Host Inventory success page is not working.
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.
754346	Default filter used when selecting Port Changes for a specific device port does not work.
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.
739990	Android Mobile Agent prompts for server name.
730221	Stacked Meraki switches currently not supported.
710583	L2 Polling Mist APs can result in more API requests than Mist allows per hour.
708936	FortiNAC will log off SSO for sessions that remain connected to a managed 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.

Ticket #	Description
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 .
686910	Control Manager (NCM) communication issues when the NAC systems are connected through the WAN.
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.
631115	Only 50000 records display in Adapter and Host Views. Example: Adapters - Displayed: 50000. Total: 57500
	<p>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.</p> <p>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.</p>
	Removing a device from the L2 Wired Devices or L2 Wireless Devices Group does not disable L2 (Hosts) Polling under the Polling tab in Topology.
	The "Set all hosts 'Risk State' to 'Safe'" button changes the status of all hosts marked At-Risk to Safe. However, the status of the individual scans for each host remain unchanged.
	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).
	System > Settings > Updates > Operating System will only record and display dates of OS updates that are completed through the Administrative UI. If Operating System updates are run via command line using the "yum"

Ticket #	Description
	tool, the update is not recorded. Resolution: Execute Operating System Updates through the Administrative UI in order to maintain update history.
	Only English versions of AV/AS and their corresponding definitions are supported.
	Anti-Virus product Iolo technologies System Mechanic Professional is currently not supported.

Device Support Considerations

Ticket #	Description
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.
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).
7680531	Ubiquiti Gen2 Unifi switches (example: USW-16-POE) are currently not supported. If required, contact sales or support to submit a New Feature Request (NFR).
	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 9.4.3. These are in addition to the device support added in previous releases.

Version 9.4.3

Ticket #	Vendor
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
868451	Forcepoint NGFW Firewall
878013	Meraki CW9166I Cloud Managed AP Meraki MX105 Cloud Managed Security Appliance Juniper Networks, Inc. ex4100-48p Ethernet Switch, kernel JUNOS 22.3R1.12 Cisco SF350-08 8-Port 10/100 Managed Switch
884423	Cisco IOS Software [Bengaluru], IE3x00 Switch Software (IE3x00-UNIVERSALK9-M), Version 17.6.4 S5735-L48T4X-A1 Huawei Versatile Routing Platform Software VRP (R) software, Version 5.170 (S5735 V200R020C10SPC500) S5720S-12TP-PWR-LI-AC Huawei Versatile Routing Platform Software VRP (R) software, Version 5.170 (S5720 V200R019C10SPC500) Dell Networking N3224T-ON, 6.8.1.0, Linux 4.15.18-2e794c6e Ruijie 10G Ethernet Switch (S5310-24GT4XS-P-E) Cisco Sx220 Series Switch Software, Version 1.2.1.2 S6730-H24X6C Huawei Versatile Routing Platform Software VRP (R) software, Version 5.170 (S6730 V200R021C00SPC100) SG350-20 20-Port Gigabit Managed Switch

Ticket #	Vendor
889578	<p>HPE Comware Platform Software, Software Version 7.1.070, Release 6530P02 HPE 5520 48G PoE+ 4SFP+ HI Swch R8M29A</p> <p>Juniper Networks, Inc. ex4650-48y-8c Ethernet Switch, kernel JUNOS 21.4R3-S2.4</p> <p>Aruba JL668A 6300F 24G 4SFP56</p> <p>CBS350-24T-4G 24-Port Gigabit Managed Switch</p> <p>Aruba JL264A 2930F-48G-PoE+-4SFP+-TAA Switch, revision WC.16.08.0016, ROM WC.16.01.0006</p> <p>HP J9855A 2530-48G-2SFP+ Switch, revision YA.16.02.0014, ROM YA.15.19</p> <p>FG400F-HYAC-01 - Routing</p> <p>Cisco IOS Software, S5400 Software (S5400-UNIVERSALK9-M), Version 15.2(8)E</p> <p>Extreme Networks Switch Engine (5320-48T-8XE-SwitchEngine) version 32.3.1.11 32.3.1.11</p>
891820	<p>Aruba JL817A 4100i 12G CL4/6 POE 2SFP+ DIN Sw RL.10.10.1040</p> <p>Huawei S1720-10GW-PWR-2P-E</p> <p>Cisco IOS Software [Gibraltar], ISR Software (ARMV8EL_LINUX_IOSD-UNIVERSALK9_IAS-M), Version 16.10.1b</p> <p>Aruba 6000 48G 4SFP Switch</p>
894124	<p>Cisco 48-Port Gigabit Smart Switch</p> <p>Cisco IOS Software [Cupertino], Catalyst L3 Switch Software (CAT9K_LITE_IOSXE), Version 17.9.1</p>

Version 9.4.2

Ticket #	Vendor
793480	<p>Cambium Networks cnPilot E410</p> <p>Cambium Networks cnPilot E600</p>
672701	<p>Cambium XV(XV3-8, XV2-2T0)</p> <p>cnPilot(E500, E430, E700) series APs</p>
831482	<p>Aruba JL727A 6200F 48G CL4 4SFP+370W Swch</p> <p>S5735-L12P4S-A Huawei Versatile Routing Platform Software</p> <p>PowerConnect 7024, 5.1.17.1, VxWorks 6.6</p> <p>OAW-AP1201 4.0.2</p> <p>S5732-H24S6Q Huawei Versatile Routing Platform Software</p> <p>AP7522 Access Point, Version 7.7.0.0-018R MIB=01a</p> <p>Fortinet FortiGate</p>

Ticket #	Vendor
	Meraki MR36H Cloud Managed AP
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
838902	Cisco IOS Software, C2960SM Software (C2960SM-LANBASEK9-M), Version 12.2(52)EX1 Huawei AirEngine9700-M1 Huawei Versatile Routing Platform Software VRP Meraki MR57 Cloud Managed Indoor AP
840205	Westermo L210-F2G Rugged Compact Switches
842976	Cisco IOS Software, C800 Software DGS-1510-52X Gigabit Ethernet SmartPro Switch Aruba Wired Switch R8N88A
844425	Allied Telesis 510L-52GT & 550-18XSQ switches
845410	CBS350-24P-4X 24-Port Gigabit PoE Stackable Managed Switch with 10G Uplinks S6720-30C-EI-24S-AC Huawei Versatile Routing Platform Software VRP S6730-H48X6C Huawei Versatile Routing Platform Software VRP S5735-L8P4X-IA1 Huawei Versatile Routing Platform Software VRP
847082	Huawei NE40E-X3 Extreme SLX9540 Switch/Router Baseline Switch 2250-SFP Plus WS6-DGS-1210-10P/F1 6.20.007
849478	Cisco IOS Software [Gibraltar] DGS-1210-28P/C1 4.10.004
851405	Fortinet FortiGate Alcatel-Lucent Enterprise OS6360-P24X 8.8.56.R02 GA Meraki MX75 Aruba JL667A 6300F 48G 4SFP56 Sw ArubaOS (MODEL: 635)
852981	Allied Telesis router/switch, Software (AlliedWare Plus) Version 5.5.0-2.10
854248	S1720-28GWR-PWR-4P Huawei Versatile Routing Platform Software VRP S1730S-S24P4S-A Huawei Versatile Routing Platform Software VRP Extreme Networks Switch Engine (Stack) Extreme Networks Switch Engine (5320-16P-4XE-SwitchEngine)

Ticket #	Vendor
856760	Cisco IOS Software, IE2000 Software (IE2000-UNIVERSALK9-M) SG350-28MP 28-Port Gigabit PoE Managed Switch Cisco IOS Software, C900 Software (C900-UNIVERSALK9-M) Aruba Instant On 1930 24G Class4 PoE 4SFP/SFP+ 370W Switch JL684A S5735-L48P4S-A1 Huawei Versatile Routing Platform Software
859465	Brocade Communications Systems, Inc. ICX7450-48, IronWare Brocade Communications Systems, Inc. FWS624G-POE-PREM, IronWare Brocade Communications Systems, Inc. FWS624G-PREM, IronWare Brocade Communications Systems, Inc. FWS648G-PREM, IronWare Brocade Communications Systems, Inc. FWS648, IronWare Cisco Controller SG550X-24 24-Port Gigabit Stackable Managed Switch
859816	Allied Telesis X510-28-GTX switches
863408	CBS350-8P-2G 8-Port Gigabit PoE Managed Switch Cisco IOS Software, ASR900 Software (PPC_LINUX_IOSD-UNIVERSALK9_NPE-M) Cisco IOS Software, IE2000U Software (IE2000U-LANBASEK9-M), Version 15.2(5)E S5735-S24P4X Huawei Versatile Routing Platform Software VRP Cisco IOS Software [Cupertino], IE3x00 Switch Software (IE3x00-UNIVERSALK9-M) Symbol AP410C SG550XG-8F8T 16-Port 10G Stackable Managed Switch Symbol AP310-1 Symbol AP7532 Access Point Cisco CBS350-48T-4X 48-Port Gigabit Stackable Managed Switch with 10G Uplinks Avaya Networks Ethernet Routing Switch 3526T-PWR+
871270	Huawei S5720-36C-PWR-EI-AC Cisco IOS Software, IE2000 Software (IE2000-UNIVERSALK9-M) Huawei S5335-L24P4X-A Aruba JL663A 6300M 48G 4SFP56 Swch Aruba JL719C 8360-48Y6C v2 Switch ExtremeXOS 5320-48P-8XE-EXOS Avaya Networks Ethernet Routing Switch 3524GT Accton Technology SG 2404 PoE L2+ Gigabit Ethernet Switch Huawei S5735S-L48T4S-A Juniper SRX345

Version 9.4.1

Ticket #	Vendor
805669	Extreme VSP-7400-48Y-8C (8.1.6.0)
806646	S5735-L24T4X-A1 Huawei Versatile Routing Platform Software VRP 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
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 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
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

Ticket #	Vendor
	<p>Cisco IOS Software, IE2000 Software (IE2000-UNIVERSALK9-M), Version 15.0(1)EY</p> <p>Meraki MR44 Cloud Managed AP</p> <p>Cisco IOS Software, cgr1000 Software (cgr1000-UNIVERSALK9-M), Version 15.7(3)M1</p> <p>S5731-S24T4X Huawei Versatile Routing Platform Software VRP (R) software, Version 5.170 (S5731 V200R021C00SPC100)</p> <p>PowerConnect 7024P, 5.1.18.1, VxWorks 6.6</p>
830112	<p>Dell EMC Networking N3224P-ON, 6.6.3.14, Linux 4.15.18-2ac8b3ec</p> <p>Huawei AP5030DN Huawei Versatile Routing Platform Software VRP (R) software, Version 5.170 (AP5030DN V200R010C00SPCd00) Dell EMC Networking OS10 Enterprise.</p>
833731	<p>Huawei AR129CGVW-L Huawei Versatile Routing Platform Software VRP</p> <p>S6720-56C-PWH-SI-AC Huawei Versatile Routing Platform Software VRP</p> <p>Dell Networking N1524P</p> <p>S5735-L24P4X-A1 Huawei Versatile Routing Platform Software VRP</p>

Version 9.4.0

Ticket #	Vendor
765568	Add support for Huawei AR550E router/switch
765569	Add support for DIGI cellular routers
779607	Add Device support from set mapping emails (2 models)
781634	Add Device support from set mapping emails (Huawei S5700-52P-LI-AC)
787686	<p>S5735-L48T4S-A1 Huawei Versatile Routing Platform Software VRP (R) software</p> <p>CBS350-48P-4X 48-Port Gigabit PoE Stackable Managed Switch with 10G Uplinks</p> <p>CBS350-48P-4G 48-Port Gigabit PoE Managed Switch</p> <p>CBS350-8P-E-2G 8-Port Gigabit PoE Managed Switch</p> <p>CBS350-24T-4X 24-Port Gigabit Stackable Managed Switch with 10G Uplinks</p> <p>Linux Lethe 2.6.18-92cpx86_64 1 SMP Mon Oct 8 10:34:42 IDT 2018 x86_64</p> <p>Juniper Networks, Inc. srx380-poe-ac internet router, kernel JUNOS 20.4R3-S1.3</p> <p>S5735-L8P4S-A1 Huawei Versatile Routing Platform Software VRP (R) software</p>

Ticket #	Vendor
	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
789282	Add support for Extreme Campus Controller WLC
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
801676	HPE Comware Platform Software, Software Version 7.1.070, Release 6327 SG350XG-24F 24-Port 10G SFP+ Stackable Managed Switch SG300-28SFP 28-Port Gigabit Managed SFP Switch Linux PA-Mac-Ops-BCKPF-S 4.14.76-release-1.3.0 1 SMP Aruba JL725A 6200F 24G CL4 4SFP+370W Swch ML.10.09.1000 Cisco IOS Software [Cupertino], ISR Software (ARMV8EL_LINUX_IOSD-UNIVERSALK9-M), Version 17.7.1a Cisco Sx220 Series Switch Software, Version 1.1.3.1 CBS350-24P-4G 24-Port Gigabit PoE Managed Switch Firewall OCI Unimedsc Palo Alto Networks VM-Series firewall Canton-Firewall
783982	S5720-12TP-LI-AC S5720-36PC-EI-AC S5720S-52P-SI-AC S5700-10P-PWR-LI-AC
786422	ArubaOS (MODEL: 565), Version 8.7.1.8-8.7.1.8

Ticket #	Vendor
790006	Netgear S4300 and S3300 Switches
792592	FortiFone X80
566257	Support for Huawei AC6605 wireless controller

System Update Settings

Field	Definition
Host	Set to fnac-updates.fortinet.net
Auto-Definition Directory	Keep the current value.
Product Distribution Directory	Set to Version_9_4
Agent Distribution Directory	Keep the current value.
User	Set to updates (in lowercase)
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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