FortiNAC - Release Notes

Version 9.2.8

FORTINET DOCUMENT LIBRARY

https://docs.fortinet.com

FORTINET VIDEO LIBRARY

https://video.fortinet.com

FORTINET BLOG

https://blog.fortinet.com

CUSTOMER SERVICE & SUPPORT

https://support.fortinet.com

FORTINET TRAINING & CERTIFICATION PROGRAM

https://www.fortinet.com/training-certification

FORTINET TRAINING INSTITUTE

https://training.fortinet.com

FORTIGUARD LABS

https://www.fortiguard.com

END USER LICENSE AGREEMENT

https://www.fortinet.com/doc/legal/EULA.pdf

FEEDBACK

Email: techdoc@fortinet.com

TABLE OF CONTENTS

Change log

Date	Change Description
4-25-2023	Initial release.

Overview

Version 9.2.8 is the latest release being made available to customers to provide functionality and address some known issues.

- Build number: 0471

Notes

- Critical information about upgrading your FortiNAC should be viewed in Pre-upgrade Procedure.
- 9.1.0+ uses a new GUI format. FortiNAC cannot go backwards to a previous version. Snapshots should always be taken on virtual appliances prior to upgrade.
- Prior to upgrade, review the FortiNAC Known Anomalies posted in the Fortinet Document Library.
- If using agents or configured for High Availability, additional steps may be required after upgrade for proper functionality. See Upgrade Instructions and Considerations posted in the Fortinet Document Library.
- Requires CentOS 7.4 or higher. The current CentOS version installed is listed as "Distribution" in the CLI login banner or typing "sysinfo".
  Example:
  ```
  > sysinfo
  ***********************************************************************
  Recognized platform: Linux
  Distribution: CentOS Linux release 7.6.1810 (Core)
  ```
  If the CentOS version is below 7.4, run OS updates and reboot before upgrading. For instructions on updating CentOS, refer to the Fortinet Document Library.
- For upgrade procedure, see Upgrade Instructions and Considerations posted in the Fortinet Document Library.

Supplemental Documentation

The following can be found in the Fortinet Document Library.

- 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: 9.2.8

Agent Version: 5.3.0.77

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

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

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

Upgrade Requirements

Ticket #	Description
Upgrade Path Requirements	Systems on version 9.1.6 must upgrade to either: - Higher version of 9.1 (e.g. 9.1.7) - 9.2.4 or higher Systems on versions 8.2 or lower must upgrade to 8.3 before upgrading to 8.4 or higher.
Legacy SSH Ciphers	Vulnerable Diffie-Hellman SSH Ciphers were removed from versions 9.2.8, 9.4.4. F7.2.3 and greater. The removal of these ciphers can cause SSH communication to fail between FortiNAC and network infrastructure devices still using these legacy ciphers. Depending upon the device, resulting behavior can vary from failing L2 and L3 polling to failing VLAN switching. The following events would be generated for the affected device: • L2 Poll Failed • L3 Poll Failed • VLAN Switch Failure The legacy ciphers must be re-added to FortiNAC via the CLI after upgrade. For details, see KB article https://community.fortinet.com/t5/FortiNAC-F/Troubleshooting-Tip-SSH-communication-fails-after-upgrade-due-to/ta-p/281029
892856	High Availability and FortiNAC Manager Environments: The following are required as of 9.2.8: • 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 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	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.

Ticket #	Description
9.2	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: Ensure valid SSL certificates are installed in the Persistent Agent Certificate Target. For details see section Certificate Management in the Administration Guide. Packet Transport Configurations must have TCP 4568 listed. For instructions see section Transport configurations in the Administration Guide.
9.2	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.

Pre-upgrade Procedures

Enhancements were made to the communication method between servers for security. Due to this change, all 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 9.2.8 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 =[xxxxxxxxxxxxxxxxxx,xxxxxxxxxxxxxxxxxx]".
   ```

   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 Summery 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: 8.1.1.132 cannot be downgraded to any other release.

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

Agents

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

Web Browsers for the Administration UI

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	

New Features

New features in 9.2.8

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.

See Pre-upgrade Procedures for procedures that should be done prior to upgrade to prevent communication interruption.

New Features in 9.2.7

There are no new features in version 9.2.7.0463.

New Features in 9.2.6

There are no new features in version 9.2.6.0451.

New Features in 9.2.5

There are no new features in version 9.2.5.0443.

New Features in 9.2.4

There are no new features in version 9.2.4.0438.

New Features in 9.2.3

There are no new features in version 9.2.3.0435.

New Features in 9.2.2

There are no new features in version 9.2.2.0421.

New Features in 9.2.1

There are no new features in version 9.2.1.0414.

New Features in 9.2.0

- Enhanced Appliance Installation: Login to the Administration UI in order to apply license key, configure appliance network settings and the FortiNAC Service Interface (eth1). There is no longer a separate UI.
- Ability to add Custom Endpoint Fingerprints using the REST API.
- New Endpoint Fingerprints view (Replaces Device Identity view) and Tasks view.
- Local RADIUS Server Enhancements
    - Updated views including configuration subsections
    - Multiple virtual Local RADIUS Servers
    - Multiple Winbind instances
    - Improved debugging tools
    - Improved visibility of services and configuration
    - Added support for EAP-FAST in FreeRADIUS to the extent possible:
      Configurable EAP-FAST controls:

- PAC Opaque Key
- Allow Anonymous In-Band PAC Provisioning
- Allow Authenticated In-Band PAC Provisioning

- Dashboard Rework
  - Multiplicity - Multiple Dashboards may now be created and the name may be freely modified. Dashboards may have multiple instances of each Widget.
  - Layout and Sizing - Widgets (formerly known as panels) are rendered in a row with a number of columns available based on the screen size. The row wraps automatically, filling from the left. All Widgets have a fixed height, but user adjustable width set to the number of columns they should span.
  - New Tiles for Pending Tasks and Endpoint Fingerprints.
- Persistent Agent Enhancements (Agent 5.3)
  - Agent included in FortiNAC 9.2
  - Agent fingerprints are now visible in the Endpoint fingerprints view
  - See 5.3 Agent Release notes for details and other enhancements
- FSSO Enhancements
  - User definable network address objects and address groups for SSO messaging.
  - Support for managing hosts with PA installed but not seen as connected by FortiNAC by a managed device.
  - Support for new dynamic firewall address API that will replace the FSSO protocol in FGTs running FOS 7.0.2
- Netflow protocol support added for Device Profiling..

Enhancements and Addressed Issues

These changes have been made in FortiNAC Version 9.2. These enhancements are in addition to the enhancements that are outlined in previous releases.

Version 9.2.8

Ticket #	Description (9.2.8.0471)
883080	Radius requests are timing out and being rejected due to directory lookup timeouts.
882167	Missing /bsc/campusMgr/agent from CentOS backup.
880761	After a VLAN change on a wired device, removing the IP from the IP > Mac cache allows for subsequent IP > Mac requests to refresh the value more effectively.
873260	Added a manually-triggered pipeline for 9.x.
876060	Fixed issue where additional routes could be improperly cleared.
833088	Group membership was incorrectly modified after deleting a switch from Topology.
879753	Legacy migration bundle script improvements and fixes.
878080	Aruba CX Switch incorrect VLAN management syntax.
877934	Fixed LDAP server communication when secondary is configured.
869097	Prioritize the IP -> MAC value provided by RadiusServer for managed wireless clients.
872401	Config Wizard - Scopes: Clicking Delete for Scopes table with no selection is a no-op.
872399	Config Wizard - Scopes: clicking Modify with no selection opens Add/Modify Scope page with no data populated - acts like an Add.
877996	NacOS needs to be able to handle importing the .yams from the incoming migration zip.
877661	Migration bundle script must also migrate certificates.
869605	Updated .jsp files to handle the CLI creds correctly.
827913	Fixed saving a Network Device Role using Direct Configuration.
875588	Allow users to be removed from the All Administrators group.
856751	Accurately reflect the Admin and Operational port statuses for link mode

Ticket #	Description (9.2.8.0471)
	FortiSwitches.
869052	Updated testCLIAccess() for Meraki MX to handle headers correctly.
878102	Fixed SSID Parsing for Extreme Campus Controller.
883146	Secondary may restart over and over.
882265	Fixed endpoint serial number sent by FortiNAC to FAZ.
883221	Process static mac address entries by default for Arista switches.
883680	Updated API path for device queries when Firewall Session Polling FortiGates running 7.0 and higher.
883046	Fortinac not sending Radius Disconnect/CoA to Aruba IAP when there is a status change/policy match.
890929	Fixed restarting server after uploading new license key through settings view.
890923	restartCampusMgr is not parsing arguments correctly.
887864	Added DirectoryAgentServer to list of plugins NCM loads.
882129	Fixed integration issues with Meraki Cloud API which was causing L2 and L3 failures.
888212	Endpoint Compliance Scans are not replicated.
883633	Fixed issue with unwanted text displaying in config wizard.
888616, 0893561	"Load CLI Configuration error" when navigating to System > Scheduler.
871657	PNetworks switch with new firmware version is not recognized because it has a different set of enterprise OIDs.
869316	Event: Authentication Failure from L2 polling.
888179	Updated integer fields in the FirewallSession table to bigints.
889132	Fix by updating Global Custom Scans on deleting from NCM.
856192	FortiNAC FSSO does not send required groups to FGT.
867183	Added new device attribute MultiKnownHostEntries. When set to true, FNAC will check the /bsc/.ssh/known_hosts for all potential matches and determine which to use.
891530	Fixed the Set Admin Profile menu action.
895085	RADIUS performance problems on rogue host record creation.
885306	WLC Extreme VX9000 MAC table cannot be parsed.
896471	Fixed licensetool to display the subscription level from the NCM.
898014	Secondary CA is not restarting after running HA config.

Ticket #	Description (9.2.8.0471)
877942	Added entries to hibernateServer.properties to purge older entries from table.
888213	Log messages sound concerning when performing Validate Credentials on a device. Workaround: Do not attempt to delete temporarily created device from database as it will not be found.
896389	Fixed bug in backport which caused EOFException when trying to connect to nameservice.
900735	Removed debug message when creating socket.
900284	Juniper switches are taking longer than they should to make changes
897151	Remove invalid device mapping for C9800-AP Software
874363	SSLVPN user loses and receive TAG periodically.
884329	Fixed missing BasePolicyPermissions checks that stopped Base License from adding a role.
904844	Fixed IllegalArgumentException in Yams.
899075	NPE in readarp function causing an incomplete ARP table for Sonicwall appliance.
902072	Replaced Hashtable with ConcurrentHashMap for DatabaseServer.savedObjects
872900	Typo in Guided Installation informational dialog.
892296	Certificate Copy - Restart infinitely loading.
889193	Import Port descriptions gives error.
845382	Checkboxes not loading in Security Incidents Actions.
852523	Policy > User/Host Profile ->By Attribute. Host Inactivity Time set to Never or None does not save.
877965	Legacy Table Tooltip settings conflict.
842589	Added missing permission checks in System related jsp files.
883129	Mist L2 polling may not function properly due to how Mist devices are modeled in FortiNAC.
884077	Guests & Contractors	Modifying a Guest account with "Can view passwords:" permission disabled generates error.
878836	Intune MDM Integration 'Invalid Audience' when using an App registration in the Azure Government cloud.
833305	Guest account password is unmasked when printing badge even though admin user does not have password viewing permissions.
835149	When an endpoint is registered as a device in Host AND

Ticket #	Description (9.2.8.0471)
	Inventory/Topology, it is not possible to edit the host role. The option is available, but changes do not apply.

Version 9.2.7

Ticket #	Description (9.2.7.0463)
835782	Applying a license key in the Configuration Wizard can result in a "HTTP Status 500 – Unable to compile class for JSP" error message.
845003	Unable to register hosts to usernames in format of an email address. An "Error – Failed to Save Host – null" message appears.
683842	Adapter media type is set to wireless for devices that connect to wired ports on a FortiGate.
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.
796259	Able to mark a task completed even when the previous task associated to it is not completed yet.
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.
807309	Admin UI showing permission error "You do not have permission to access this page".
808088	Alarms stop generating notifications.
814476	HP Switch aggregated uplink ports are not properly displayed in Ports view.
820160	Roles view not available with Base license.
821392	Column Filters: performing an Exact Match filter with an empty string has inconsistent results.
827870	Syslog listener addresses for FortiGate add/delete/move messages are not updated.
828128	Unable to add allowed domains containing underscores.

Ticket #	Description (9.2.7.0463)
829009	VLANs not being properly managed in Aruba CX series switch.
829019	NCM High Availability Resume button not working from dashboard.
830534	SQL syntax error displayed when configuring High Availability.
830581	IP Phones in a host group fail to match policy.
830932	Unable to configure "Entitlement Polling Success" event to alarm mapping.
831061	Unable to resume control in a High Availability system using the Admin UI.
832313	SSH keyboard-interactive failing.
833270	Device Profiler is not matching rules.
833327	Static Routes no longer present after reboot/FortiNAC service restart.
833752	Unregistered hosts in EMS are marked as "Managed By MDM" in FortiNAC.
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.
834784	Moved XML Export for Device Profiling Rules to the button bar under Users & Hosts > Device Profiling Rules.
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".
835838	S5735-L24P4X-A1 andAR129CGVW-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.
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.
838562	Incorrect permission checking for modifying users.
838610	ConfigWizard is reporting "Unknown operation dnsmasq".
839045	RADIUS does not return the port default VLAN ID when the request does not match any policy or enforcement group.

Ticket #	Description (9.2.7.0463)
840218	No records found in FortiNAC "Ports" tab for CISCO ASA interfaces.
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.
841781	Allowing duplicate forwarding entries on Fortigate during L2 poll.Prevents FortiNAC from sending RADIUS CoA packets to the FortiGate consistently.
841825	SelfRegRequestBean.requestGuestAccess error when accessing the Self-Registration captive portal.
841851	NCM System Summary Wiget 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.
842274	Additional routes view in Config Wizard won't load.
842370	"Local" Radius Mode is ignored in the SSID configuration if Model Configuration is set to use Proxy.
842546	Unable to install upgrade on CentOS via GUI.
842607	Portal SSL changes not saved.
843410	Exceptions in log when creating new Winbind instances under Network > RADIUS > Windbind.
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.
845000	Error when attempting to modify users.
845454	Remote backup fails with "command not found" errors in CLI output.
845792	0028 - 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

Ticket #	Description (9.2.7.0463)
	re-added to the Server List.
846212	Network - RADIUS: toolbar buttons not in consistent order.
846257	HTTP 415 error occurs when generating a guest password.
846668	FortiNAC can't process the Mac Notification traps from FortiSwitch running 7.2.1.
846680	Administrator login RADIUS authentication failure on FortiNAC Manager (NCM) due to duplicate FortiNAC model.
846782	Unable to read complete network configuration from Aruba IAP because of # symbol.
848285	ApresiaPlugin debug output was enabled unnecessarily, causing extraneous log entries.
848355	Administrator profile permissions tab: Logs and Event/Alarm Management: Mappings page - "Failed to retrieve Groups" error.
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.
848645	Admin Profiles: Error and exception occurs when clicking Add/Copy.
848646	Added ability to reconfigure ports on Meraki (cloud) .
848708	Administrator profile permissions tab: SystemSettings admin profile user does not have access to Scheduler.
849140	Control Manager API ping of Secondary Server returns the wrong serial number, causing ping to fail.
849469	User with custom permissions to only view own Self Registration requests can see all requests.
849497	FreeRADIUS service restarted whenever a new device is modeled even if local RADIUS is not enabled.
849514	FortiNAC SNMP Agent is throwing IllegalArgumentException in output.master.
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.
850913	High Availability:Manager (NCM) not in control displays HTTP Status code 500 when Admin UI is accessed.
851427	Adapters view - Status tooltip values - Media / Access Value fields are

Ticket #	Description (9.2.7.0463)
	swapped.
852533	Synchronization fails to delete multiple Device Profiling rules.
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.
853894	Exceptions in logs after adding devices to L3 polling with create rogues enabled.
854228	nac sudoers file needs journalctl entries with no unit param passed.
854236	Errors on scheduler view on Manager (NCM) due to obsolete tasks.
854239	ClassNotFoundException for CambiumAP.
855104	Added support for Meraki Cloud v1 API.
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.
855969	Admin GUI not available on first boot after starting new ISO installation.
856217	Hosts discovered by certain MDMs are incorrectly marked as having a PA.
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.
857129	Mist AP port is not turned into Learned or WAP uplink.
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.
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.
860206	Polling threads get locked when communications are terminated unexpectedly from the Manager (NCM).
860472	NCM fails to distribute software update to pod.

Ticket #	Description (9.2.7.0463)
860546	Added L3 polling for Extreme Campus Controllers (XCC).
860595	FortiNAC unable to change admin state on FortiGate firewall physical ports.
861633	Unable to add CLI configuration for a VOIP VLAN on HP 2620 switch.
862578	Bulk VLAN changes are not successfully completed on Arista Switches.
865417	Asterisk in Aruba Controller prompt results in a failure to read SSIDs.
865703	CLI Configuration for Juniper switches %port% defaults to PortID and should match ifName.
866062	Users with only Passive Agent Permissions were incorrectly able to create Scans.
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.
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.
868992	Added VRF support for L3 polling Extreme SLX switches.
870920	Unable to authenticate using MS-CHAP-v2 and Local RADIUS.
871268	New Android DHCP fingerprints have been added.
872043	Legacy User Accounts view wait dialog is not closed on load success.
872422	Race condition between UserManager and GroupManager
873181	NCM System Summary reports "No Servers found, check .networkConfig" after upgrade from 8.8.11.
0830902 , 0789649	DHCP warnings when configuring High Availability.
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.

Version 9.2.6

Ticket #	Description (9.2.6.0451)
806106	Juniper Change of Authorization (CoA) Fails.
701822	Fully Qualified Host Name info Bubble is misleading.
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.
789654	Clients shown offline in Ruckus controller v6.0.
791889	Audit Logs do not report the Adds from a Host Import.
795932	RADIUS authentication fails when primary LDAP directory is down.
799401	SNMP MAC-Notification trap support for Dell EMC Networking N3248P-ON.
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.
804759	In Users & Hosts > User Accounts, clearing a value in the search box and clicking enter results in several empty rows.
806936	Importing Mist APs with CLI import tool does not add the AP models to the L2 Wireless nor Device Interface Status groups.
810167	iOS fingerprints misclassified as macOS.
810209	SSIDs are not complete in UI for Aruba controller VIP.
811775	Performance improvements with client lookups.
812581	Duplicate user ID exceptions during RADIUS auth when userID does not match the name in an email address.
812674	CoA is not being sent to Huawei wireless after host has registered.
812908	/var/log/messages is not rotating,generating large files and high disk usage.
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.
814631	Ports not properly configured using Aruba CLI scripts.FortiNAC reads Port

Ticket #	Description (9.2.6.0451)
	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.
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.
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.
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.
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.
821527	RADIUS does not start after upgrade from 9.4.0.0717 GA to 10.0.0.0013.
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.

Ticket #	Description (9.2.6.0451)
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.
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.
833440	Config Wizard: Clicking Cancel in Add Scopes page gives 500 Internal Server Error.
833700	RADIUS server fails to enable when upgrading from build 0721 to 0722.
834144	HTTP 500 error when entering license code.
834302	Updating NTP generates "Failed to save Time Config".
834479	When creating a new user via the REST API (and thus GUI), the password was not hashed properly.
751468 , 811479 , 770730	RADIUS/Winbind services need manual startup to handle system reboot.

Version 9.2.5

Ticket #	Description (9.2.5.0443)
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.
751393	UserManager NullPointerExceptions.

Ticket #	Description (9.2.5.0443)
770974	Event Lifetime alarm trigger rule is not being honored when configured.
781520	RADIUS COA failing for FortiAP when hosts are deleted.
783587	AirWatch MDM roles are overwritten by user roles.
786651	Improved support for MICROSENS G6 Micro-Switch.
787271	Certificate Management View - Server Certs & Trusted Certs views both showing results from both views.
789970	FortiNAC sends SSO login message to only one slot on the 6000 & 7000 FortiGate chassis.
791405	"Request unsuccessful with no errors reported" message opening Model Configuration tab for HPE Walljack.
794067	Support for new "show clients" table format in version 8.X Aruba IAP firmware.
794381	Fortigate forwarding class does not work with tlsv1.3.
795260	Motorola controllers proxying AP auth requests send Proxy-State attr and expect it unchanged in response. RADIUS (local) does not send it back.
796065	Unable to set device profiling to Host to Logged in User (if Present) on NCM.
796522	SocketTimeoutException in logs related to Telnet/SSH connections.
796533	Support for Physical Ethernet MAC for Apple TV in Jamf.
796623	MS Intune API only returns ethernetMacAddress per device.
797708	Force 10 switches sometimes modeled incorrectly.
797723	Local RADIUS mode:RADIUS fails for endpoints connecting to a FortiSwitch that has been renamed.
798181	RADIUS Service Host MAC filter does not print debug if supplicant does not use colon mac delimiter.
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.
801252	RADIUS not mapping to correct AD server when kerberos and netbios names differ for a single winbind instance.
802114	Juniper EX9253 and qfx5120-48y-8c, Type is "Unknown" and Version is null in the Inventory.
802923	ClassCastException when creating/deleting trigger.
802942	Parsing issue with Mobile Iron Cloud integration.
803061	Multicast IPv6 addresses can now be excluded using the MAC address

Ticket #	Description (9.2.5.0443)
	Exclusion view. See MAC address exclusion in the 9.2 Administration Guide for details. **Note**: After upgrade, toggle the option off and on in order for the function to take effect.
804518	Local Radius leaves out Tunnel-Private-Group-ID and Filter-ID when Quarantine enforcement is set to "bypass".
805866	Scheduled Shared Filter Reports result in error event.
806122	Roles not being assigned properly to Registered Hosts
806567	known_hosts file has duplicate host entries.
806616	RADIUS COA failing for a variety of devices when hosts are deleted.
807062	On upgrade, FortiNAC loses it eth0 IP Address.
807689	For endpoints managed in SSO integrations, FortiNAC no longer performs L3 polls for Rogue hosts. They are not neccessary.
801948 803681	New deployed server will not start: java.sql.SQLException: Connections could not be acquired from the underlying database.
809538	High Availability Database sync failure
810167 810180	Fixed fingerprints for iOS, FGT and FSW
811008	Netgear mib file has a feature to write a "hidden" field for Username and Password which is not supported in 9.2.
807311	After FortiNAC services restart, MAB RADIUS session times out due to FortiNAC being busy in SSH communication with the switch.
812169	Virtual Winbind service management queries periodically fail.
802908	RADIUS default server config not created on first startup.
805426	Fixed Null Pointer Exception in dynamic/dynamic-connection/host/{id} API call.
790864	License upload does not verify MAC/UUID.
812589	Server doesn't start up / cannot log into FortiNAC UI.
811447	Upgrade failed due to: Operation CREATE USER failed for nac@localhost.

Version 9.2.4

Ticket #	Description (9.2.4.0438)
784618	RADIUS Failures after upgrading from 8.5 to 8.8 due to bad secret.

Ticket #	Description (9.2.4.0438)
791327	FortiNAC is changing WAP Uplink ports Current VLAN to match the Default VLAN.
797465	Nested group memberships not detected.
797778	AdminProfileManager has a null reference on Startup
799842	Endpoint Compliance - Policies: Takes 30 seconds to create policy, exception occurs due to user clicking OK more than once

Version 9.2.3

Ticket #	Description (9.2.3.0435)
769558	NullPointerException registering a rogue host from the Hosts View.
640841	SSH connection to some AlaxalA switches fail.
741373	Support for Mobile Iron V2 API
746585	Cisco Mac Move Notification Trap support.
750248	Unable to access the secondary server's Configuration Wizard in a High Availability configuration.
752792	Device Profiling Rule registration not setting user/group membership.
753937	"Run NMAP" is now an option under Users & Hosts >Endpoint Fingerprints in the UI.
754279	Host record marked "At Risk" due tothe generation of the "Persistent Agent Not Communicating" alarm fail to be marked "Safe" after "Communication Resumed" is generated.
754605	Added Tripp Lite DHCP fingerprints
758009	Added support to change VLANs via CLI on Allied Telesyn 8000S.
759018	Admin user with admin user profile permissions to Access, Add/Modify and delete "Users" is unable to create a new regular user.
761276	User/Host Profile with Location does not use Portal defined in Portal Configuration.
762071	Radius Auth/EAP Type columns empty in Network > Device > Ports > Adapters table.
762081	bsc-rename-ethers service fails on virtual machines.
762702	Improved FortiClient EMS polling.Previously, not all hosts were retrieved upon a poll, causing some hosts not to register.
765477	FortiClient EMS test connect still fails after correcting a credential mistake.

Ticket #	Description (9.2.3.0435)
765483	Fortinet EMS Version parsing is broken for EMS 7.0.
765899	EMS integration does not take into account theignoredAdapters.txt list.Can cause Adapter/Host record generation with Fortinet virtual adapters.
766600	L3 polling support for Inhand IR915L Router
767209	Aerohive VLAN interfaces do not update on resynchronization after VLAN ID or Profile ID change.
767942	Incorrect serial number used for CSF protocol used for SSO.
768329	Fail to determine port type for Cisco SG Switches with latest Cisco firmware.
768673	OS name for OS X devices between DHCP and Fortiguard fingerprints do not match.
768785	The GUI value "Registered Host" now displays as "Registered Host With Owner".
768793	Race condition causing StaleStateException in FirewallSessionManager.
768822	FortiSwitch does not respond to Change of Auth (COA) packet due to FortiNAC not sending the correct secret.
769851	Accounting Stop Message is discarded from Link Mode FortiSwitches when using Local Radius.
770034	FGT 1800F labeled as 1500D
770192	Device Profiling rules stop processing as expected if HTTP method is used and HTTP is timing out.
770208	Juniper switches fail to change VLAN on ports that are RADIUS enabled.
770548	Operating System custom attribute does not save in Device Profiling Rule.
770562	Device Profiler is performing all scans before checking for matches.
770695	Local RADIUS fails to find correct port on Extreme Summit X, preventing proper VLAN assignment.
770730	Local RADIUS service goes down & does not restart when FortiNAC processes are restarted.
770738	Ruckus API version detection not working for login API
770830	Device Rule Confirmation Failure event is not generated for some methods.
770930	High L3 Polling frequency in environments with no SSO management configured.
771038	Port state actions without clear actions cannot be saved in the Event to Alarm mapping.
771149	"Confirm Device Rule on Connect" does not work properly when "Confirm

Ticket #	Description (9.2.3.0435)
	Device Rule on Interval" is also enabled within the same Device Profiling rule.
771157	MobileIron Cloud application poll can fail if licenseID is too long.
771422	RFC 3576 (CoA/RADIUS Disconnect) support for Extreme switches.
771506	Erroneous creation of redundant unique keys could overfill Group table key limits.
771685	Apresia integration RADIUS 802.1x support incomplete.
771705	Change Inhand mib file to not use WRITE_HIDDEN in 9.1. and 9.2.
771743	FSSO tags not sent to FortiGate with multi-VDOM Fabric Connections.
771939	Automatically detect MAC format for RADIUS CoA requests for Juniper switches.
772010	Wireless clients are not correctly processed on FortinetAPs when using some multi-vdom configurations.
773053	RADIUS not mapping to correct AD server when Kerberos and NetBIOS names differ.
773828	Not polling L2 information from PNetworks switches with latest firmware.
773841	Meraki Switch VLAN read/set fails when the ifIndex does not match the dot1d index.
774202	Adjusted timestamp in syslog CEF message format.Previous formatting prevented some systems from properly processing syslog from FortiNAC.
774724	Unable to filter Hosts and Adapters by status through API.
775973	Option to prevent auto-logging on users during authentication is absent during L2 polling.
776123	Unable to add/modify groups starting with "!" (bang).
777124	A higher ranked policy more general than a lower ranked policy is still honored if disabled.Lower ranked policy displays with a strike-through and is ignored.
777126	Invalid MAC address doesn't skip non-matching OUI Method.
777400	Syncing "Role Based Access" group on the Control manager (NCM) may delete sub-groups on the synchronized POD.
777479	Control Manager (NCM) Dashboard tile is very slow to load.
777511	RADIUS support for HP 2910 and 2920 switches.
777778	Unable to switch VLANs on Juniper switch via 802.1x RADIUS in Proxy mode.
778108	Windows domain check Device Profiling method fails if there is no domain

Ticket #	Description (9.2.3.0435)
	user logged on.
778112	Performance issue when performing group membership lookups.Symptoms include usually high CPU utilization.
778157	L2 Polling issues with Cisco 9800 WLC firmware 17.3.
778520	Added SQL query for GroupManager.getGroupsMembershipIDs() when determining group membership in order to improve performance.
779873	FortiNAC processes taking unusually long to startup due to delays resuming FirewallSessionMgr.
779901	Vulnerabilties in mysql versions less than 5.6.42.
780282	FortiNAC Events using old vendor name "Bradford Networks".
780626	Huawei Wireless controller imports nameless APs.
780790	CLI Failing to Alcatel Omni 6860-P48.
782374	L2 polling not parsing correctly for Motorola 7.X devices.
782740	Unable to read default and current vlans for Ruijie switches.
782744	Script install-winbind-virtual contains spaces around = assignments - invalid
783227	Operating System updates from the UI fail when freeradius gpg key is not present.
783544	Fortigate FG-200F improperly labeled as FG-201E.
783552	nac.service / ProcessManager not running at startup when no IP on box, leads to processes down.
783621	Host import related Memory issues.
783944	Exception reading VLANs or SSIDs on Meru 4100 with firmware 5.1-93.
784601	Group membership lookup causing high CPU utilization.
784957	Not polling L2 information from Cisco ME-3400E-24TS-M router.
786401	Remote Scan -> Linux x86_64 -> 500 Error
786434	Allow changing CLI Passwords from Secondary and Application Servers.
786751	Added Distinguished Name (DN) field in Users View table.DN can now be used as a filter.
787562	Devices registered with incorrect icon type in MDM integration.
787563	NullPointerException (NPE) during L2 poll of Meraki.
787585	DHCP fingerprints are not matching DHCP message type.
788089	RADIUS service will not start after upgrade to 9.2 if winbind is not fully configured.

Ticket #	Description (9.2.3.0435)
788825	DHCP fingerprint additions, changes or improvements. Added: "Camera","D-Link"; "Camera","TRENDnet"; "HVAC","Honeywell" Updated: "Mobile","Samsung SmartWatch"; "Gaming","Nintendo"; "Network","Router/Netgear"; "Network","Router/D-Link"; "Network","Router/Trendnet" Changed Device Type: "Network","Apple TV" -> "internet_tv","Apple TV"; "Network","Amazon Fire TV" -> "internet_tv","Amazon Fire TV"; "Network","Chromecast" -> "internet_tv","Chromecast"; "Network","DIRECTV" -> "internet_tv","DIRECTV"; "Network","DVR/TiVo" -> "internet_tv","DVR/TiVo"; "Network","Roku Media Player" -> "internet_tv","Roku Media Player"
790403	ClassCastException in AirespaceSwitch during WAP read.
790747	FortiGate interface with VLANs does not show device connections to VLAN sub interfaces for device detection traps.
0784737 0785526	Location and IPRange method match failure prevent matching lower rank rules.
788729	RADIUS 802.1x proxy intermittently stops working.
791342	Manually Registered IP Phones get incorrect device type assigned.
758009	SSH access fails to Allied Tellesys AT8000S.
782433	Fix Integration for D-Link DGS-3130-30TS.
790854	Failure to properly read Cisco trunk ports results in undesired VLAN switching.
791304	Selecting "Uncheck All"in an Admin Profile removes General permissions.
791401	By Day grouping is incorrect under Dashboard > Scans.
794362	System Update not reliably trusting fnac-updates.fortinet.net
791276	Clicking EULA Link When Logging In As New User Goes To Broken Link.
793920	Default Admin Profiles Have No Permissions
782760	Huawei S7706 switch does not correctly reflect the interface port number in Label column.
796105	Device Type incorrectly changing for registered devices.

Version 9.2.2

Ticket #	Description (9.2.2.0421)
566257	Huawei wireless controller integration
609121	Support reading new SSID table format for Aruba IAP.
723743	Unable to change VLANs on Cisco 9500 switch with TwentyFiveGigEthernet ports.
742523	LDAP server shows up as a rogue host icon in Topology/Inventory.
749846	Evaluation Time and High Availability tooltips are undefined in the License Management view.
750597	Registered Topology devices appear as rogues in Endpoint Fingerprint view.
750617	Add a column to Fortigate Sessions for Netflow/Sessions source.
753384	FortiNAC REST API: Added an optional boolean for "add-to-parents" that determines if doing an add or replace.Previously, would remove existing group membership unless both existing parent group and new parent group IDs were specified.
753385	FortiNAC REST API:Add-members now able to add a group to another group of same type (Host, User or Port) using Group ID.
753662	Telnet/SSH timeouts can now be configured per device from the CLI or from the "Credentials" tab in the UI.
753923	Clicking Create Device Profiling Rule in FortiGate Sessions view only displays FortiGate and Network Traffic as options in Methods tab.
754212	Security events not always resolving IP to MAC, resulting in inconsistent security event generation.
754261	ForceSSO attribute not retained after upgrade to 9.2.
754619	Hosts CSV files with rule names could not be cleanly imported.
754700	NetFlow processing may sometimes attempt to remove already removed records.
756299	Global option for changing the scope of target FortiGates not working.
756527	DPC revalidate doesnt resolve MAC-to-IP.
757705	Legacy SSO requires tags to be configured even though they are not used.
757749	Added REST API support for Ruckus v6.0.Previously, wireless clients connected to Ruckus were inaccurately showing offline in FortiNAC.
758282	DeviceManager NullPointerException
758514	Support for new REST API introduced in FortiGate version 7.0.3.

Ticket #	Description (9.2.2.0421)
758535	Improved performance of CSV imports.Previously, import was very slow.
758976	Rebooting FortiNAC takes a long time due to FirewallSession table.
759181	Improved event storage management.Previously, databases had the potential to grow unsually large, causing issues with upgrades and database replication in High Availability environments.
759243	Fixed 'RadiusServer failed to intialize' message (typo and repeating unnecessarily).
759245	DHCP fingerprints:Updated Wii and added definitions for LG internet TV and PS5.
759280	Host details aren't updating as expected when there are multiple fingerprints per source (such as a dual-boot system).
759709	Create Winbind instance - Returns error, throws NullPointerException
759768	RADIUS disconnect not sent for Juniper wired switches when using RADIUS authentication.
760197	macOS Monterey hosts running the Dissolvable Agent are unable to obtain configuration from server.
760394	Device Profiling is failing if FortiGuard method is used with higher rank.
760409	Cannot L2 poll Ruijie switches.
760424	Check for OS updates from the GUI is failing.
760596	API reporting wrong FortiNAC version in its system/local-properties/cluster GET.
760616	VPN syslog messages not processed for FortiGates unless VPNManagedNetworks attribute exists.
760861	FNAC-M synchronize issue - NullPointerException.
761362	ForwardingInterface debug:Enhanced API related output for FortiGate and FortiSwitch integrations.
761623	Added option to find host by serial number in PA server if unable to find by MAC address.Addresses issue where MicroSoft InTune sometimes returns randomized WiFi MAC Address (which are ignored by FortiNAC).
762240	Duplicate Groups in FortiNAC causing SSO Tags to not be sent.
762421	Proxy RADIUS to Cisco switch fails due to port lookup failure.
762438	EMS server integration failing to correctly report compliance.
762456	FortiNAC attempts to Deauth hosts that are not managed by FortiNAC from Aruba Controller SSID.
762743	Accounting Stop Message Discarded from Link Mode FortiSwitches.This prevents hosts from being marked "offline" as expected.

Ticket #	Description (9.2.2.0421)
762963	FortiNAC-Manager Guided install doesnt change root/admin CLI passwords.
764011	Control Manager (NCM) Server List sometimes takes a long time to load.
764415	Unable to resume control to Primary Server via Administration UI in High Availability configuration."Resume Control" button generates an error.
764518	Device Profiler WinRM Method -> Credentials are required to be in userPrincipalName format but shouldn't be.
764818	Large network address scopes assigned for VPN managed addresses can create memory and CPU utilization problems.
765187	Routes no longer present after upgrade to 9.2.1 due to hsAddRoutes not working properly.
765227	Roles on Manager (NCM) cannot be changed.
765252	Exception in CheckMacRunnable after initializing database.
765411	Not able to change VLAN's on Cisco Meraki MS250-48FP.
765562	Resynchronization of SSO sessions does not re-add any missing SSO sessions.
766132	RADIUS service is incorrectly enabled by default on new/unlicensed OVA installs and Manager (NCM).
766179	FortiNAC sends wrong keyword for SSO Dyanmic Address API.
766595	NoSuchProviderException in Radius Certificate initialization logic.
766858	Administration UI not accessible after ResetToFactoryDefaults.
768711	Cannot import host record CSV due to serialization error.
764017	New DHCP fingerprint definitions forFortiFone and FortiCamera (Operating System).

Version 9.2.1

Ticket #	Description (9.2.1.0415)
666285	FGT interface with VLANs does not show device connections to VLAN sub interfaces
684953	Changed remaining "Topology" labels in UI to "Network inventory"
736125	Netflow protocol support for device profiling.For details see Netflow Support in the 9.2 Administration Guide
740229	Control Manager (NCM): Renaming scans and syncing creates duplicate

Ticket #	Description (9.2.1.0415)
	scans
741639	Parsing issue in reading Vlans and L3 data of DellSwitchOS10 models
741929	Control Manager (NCM) is throwing an IOException for Too many open files
742889	Virtualized Devices UI/Tab should not show the internal dmgmt-vdom
744100	Unable to pull mac address information from Ruckus running V 5.2.Ruckus requires REST queries to contain a serviceTicket
744313	SNMP errors for Mist APs in Event Logs
746629	Support for Aruba switch mac notification traps
746729	Support for MobileIron cloud solution
746986	Separate app servers unable to update OS when using fnac-updates.fortinet.net
747276	Mist APs created with incorrectly formatted MAC address, L2 polling doesn't work
747324	When using port security on this switch, FortiNAC can no longer see any MAC addresses connected and is unable to read anything
747378	Unable to register multiple hosts as a device from host view
747920	When runnning Device Discovery using SNMPv1/v2c Security Strings, v2c is now used by default.If v2c fails, v1 is used
747935	Local RADIUS - "Authentication Failure" event/alarm is triggered after successful authentication
748041	Default Portal Self-signed cert is owned by root, should be nac. Causes deployment of new self-signed certs to fail
748984	When a fingerprint is updated with new data, only the "Last Heard" time will now be updated.The "Creation" time will remain the original value
749565	FortiGate Version parsed incorrectly for security fabric dynamic address integration.Any FortiGate with firmware greater than 7.0 but less than 7.0.2 will incorrectly appear as if it supports the new dynamic address functionality
749837	Potential ClassCastException syncing objects between Control Manager (NCM) and pods
749885	Null Pointer Exception when creating FortiGate model if API access fails
750264	Network Inventory incorrect after moving FortiGate with managed AP's to another container
750287	Rebooting Ruckus SZ Controller causes SSID configurations to return to use Inherited

Ticket #	Description (9.2.1.0415)
750513	SSO information is not sent in 3rd party SSO integrations
751092	Endpoint Fingerprints > Set Source Rank > Modify without changes throws an error
751158	Rename existing RADIUS attribute group throws sql exception, can no longer retrieve all groups
751181	FortiNAC fails to login to CLI of Cisco SG/SF switches with the word "All" in the banner
751194	When adding a new Security Fabric Service Connector did not default to port 8013 when it should
751204	DPC Rule creation from fingerprints lack details
751408	Local RADIUS should use VDOM for radius mode when SSID context exists but is set to inherit config from device
751472	RADIUS service will not start after upgrade to 9.2 if winbind is not configured
751753	Ports view blank for some FortiSwitches in Link mode.
751780	Error dialog is displayed when registering an adapter as a device in Topology
751800	**User host Profiles > add new User/Host profile > "Who/What by Radius Request Attribute"** is not being synced with Control Manager (NCM)
751853	Database is not fully initialized on unlicensed start-ups
752512	Unable to Assign VLANs on Ruckus Using Local RADIUS
752785	Control Manager (NCM) Synchronization can produce Null Pointer Exceptions in the logs
752788	Alarm view fails to load due to Null Pointer Exception
752838	Profiled Devices edit Rule Settings unable to be disabled
752951	SNMP occasionally parsing MAC addresses incorrectly
753414	Roaming Guest configuration left off of Aruba model configuration
753566	Dropdowns in the VDOM Configuration view are bounded by the body of the dialog
753597	Hosts connected to Nokia switch (ISAM FX-4 7360) incorrectly show offline
753908	Unable to import/export Device Profiling rules via UI or REST interface
754256	Null Pointer Exception in DeviceInterface when initializing SSO for FortiGate and in BridgeManager when processing traps.
755323	Assigning VLAN ID to Dead End Vlan fails with UI error "Invalid ID - Dead

Ticket #	Description (9.2.1.0415)
	VLAN"
756126	Unnecessary FortiGate related log messages printing by default.Moved these messages to debug level logging
756133	500 error in Policy Details appear when matching a policy using RADIUS Attribute Filters in User/Host Profile
741938 753267	Policy Details in GUI shows wrong results.

Version 9.2.0

Ticket #	Description (9.2.0.0409)
518423	802.1x support for Aerohive SR2208P
522462	Trigger "System Created Uplink" Events for Learned and User created Uplinks
543215	Make change in mib to not use Native Vlan on Juniper EX switches
594554	VLAN Switch Success Event and Alarm to contain the "from" and "to" VLAN information
600122	Add a configurable delay after receiving a warm start/cold start trap before FortiNAC engages with a switch
601831	Added support for Swagger Editor (used by FortiOS)
611613	**Topology > Set Model Configuration** option does not apply selected "Send Groups to the Firewall" and "Selected Groups" options for the FortiGate Virtual Device Model Configuration.
640641	The dashboard is not showing any Mac agents. The total agents reflect the correct number but the mac column is zero.
650216	Unable to set firewall tags for PaloAlto model
650626	FortiNAC System Date Format changed to YYYYMMDD_HHMMSS.
659675	Provide Location (switch/AP and port), IP address, and "Connected Container" information into the "Rogue Connected" and "Device Created" events.
663957	Alcatel 6560 not switching VLANs
665011	Added support to configure multiple Local RADIUS Servers
666660	If a shared filter has an ! in it, a delete or edit silently fails
671704	FortiGate VPN Host is incorrectly registered as a device with no "Registered To" information and with "NAC-Default" Role
671997	Juniper Flex-CLI not working due to configure mode prompt
672391	Generate MAC Spoofing events when spoofing and spoofed machines are on the same switch.

Ticket #	Description (9.2.0.0409)
	For configuration instructions, refer to the Administration Guide.
675847	VPN Model Configuration screen authentication method now displays LDAP checked by default.
676232	Host with a disabled logged on user is not moved to dead end.
677981	Improved multiple VDOM support for FortiGate VPN integrations. Previously, FortiNAC was unable to determine correct tags to apply to sessions
682525	Unable to register MS Intune endpoints that only have an ethernet adapter
684657	Improved the communication method between Control Manager (NCM) and pods by using REST API and certificate client authentication over HTTP Requirements: - Manager must be installed with License key containing certificates (not required for pods). For more information see related KB article FD52784 - Firewalls allow TCP port 8443 between Manager and pods If the above requirements are not met, the Manager will use original communication methods
685763	Changed Proxy Radius logic for VDOM lookup to use VDOM from attribute Fortinet-Vdom-Name if present in auth request
688265	**Account Requests > Approve Request** doesn't close the overlay on success
689104	Send separate Emails for guest registration details and password
691837	Add GUI functionality to enable or disable masquerading e-mail as other addresses
691918	Improved Local RADIUS/winbind service operation visibility and debugging in GUI
692461	Modifying group members not shown in admin auditing logs
692995	Improved Dashboard view
693625	Groups service does not check for usage across different configurations
696239	Port Channel Support for HP Switches
696640	Access to gui is randomly lost
697296	Add vendorCodes directory to System Backup
698090	Fortigate L3 polls do not support reading IPv6 arp data
698728	Telnet/SSH to a FortiGate fail when post-login-banner is enabled
699606	A warning message now appears when attempting to install a legacy (NetworkSentry) license key using the UI
700276	Add Contact Status Polling for Link Mode FortiSwitches.
700580	Fortigate L3 Poller throws exceptions for static arp entries
700580	When polling the Fortigate, if there are multiple ARP entries for the same MAC address, the newest entry may not be used.
700610	Kiosk Page is Not Loading
701378	All API requests to a FortiGate fail when the post-login-banner is enabled
701764	Portal - Self Reg Pending view not visible when instructions are set to be inline

Ticket #	Description (9.2.0.0409)
702259	Hostname information collected from FortiGate firewall sessions is no longer used for updating rogue host records.The information was sometimes inaccurate
702941	Query OUI,FortiGuard and NMAP for every new rogue
705017	**Settings > System Communication** >Incorrect help text for Message Templates
705845	Searching groups by name in Roles and Network Device Roles views doesnt work
707166	When doing a quick search from Host View, if a host has multiple adapters that all match the search query, each Dynamic Client is displayed independently
707284	VLAN ID and VLAN Name drop-down menu contents are now sorted in the Model Configuration View
708635	WinRM/WMI PowerShell Command Restriction by McAfee EDR - EncodedCommand
708649	Added Local RADIUS Server support for EAP-FAST. For details, see Administration Guide
708651	Added support to authenticate Cisco Access Points using EAP-FAST and dynamically provision network access.
708652	New Device Profiling Method: ability to check certificate field to classify hosts & devices
709269	FortiGuard Device Profiling method is not available on the Control Manager (NCM)
709278	Secondary Server in High Availability responds to RADIUS after Primary Server resumes control
709293	Added support to display FortiAnalyzer connection state
709294	When using macOS browser to add FortiAnalyzer as a log receiver in the Administration UI: - Default port is now set to 514 - Ability to populate the Security string has been removed as it is no longer used
709318	SSH Known host keys can now be removed on-demand from the Credentials tab or automatically whenever a device is removed
709447	The text on the social login buttons sometimes spills over edge
709464	Appliance installation is now done through the Administration UI as opposed to a seperate Configuration Wizard
709559	Mist AP L2 Polling failure
709561	Passive Agent Policy group pull down does not show any AD groups if one of the AD servers is not reachable
709661	Automated identification of potential L3 sources post device discovery
709861	Added support for new API introduced in FortiGate/FOS version 7.x
709965	Server List panel in Control Manager Dashboard takes several minutes to build
710408	Implement new FortiGate v7 FSSO REST API
710576	Additional data needed for FortiNAC CTAP reports
710646	Device Profiler Windows Profile method not working in HTTPS mode due to Command Line Too

Ticket #	Description (9.2.0.0409)
	Long error.
710971	Update MacAddressTable command to get RADIUS working for Huawei switch
711025	Removing an MDM service connector while there is poll in progress does not remove it
711377	Support for tunneling REST API requests over CSF
711510	PortLinkType not updated after resync interfaces
711696	Failure to switch VLANs on Cisco SG200-50 switches
712375	User/host profile does not match policy if Adapter information is used
712591	Misleading password configuration pop-up box in High Availability configuration
712658	Network Inventory takes a long time to load
712678	Clicking on a user count in the user summary panel on the dash board does not create a Filter when it opens Host View.
712695	Administration UI authentication fails when using a "+" sign in the password
712887	Fixed issue that might cause Device Profiler custom rules to not match correctly
712889	Only primary interface is imported to FortiNAC when host has multiple adapters
712980	Fail to display interfaces on certain Extreme switch models due to unexpected port format
713181	Added an import button to enable uploading hosts from an external file into the datatable.
713259	Meraki Ports/Interface creation issue when the Group Policy name is assigned to Production Logical Networks
713505	Nokia switch port names do not contain switch name.
713591	NEC QX Switches are discovered as generic SNMP devices.
713629	System/Settings/System Communication/Email Settings -> Test Email settings works but SendEmail tool doesnt
713870	Failing to read arp cache on H3C
713962	Added L3 support for Versa router
714399	Exception during modeling leads to Cisco in locked state
714641	Device Identity view has been replaced with Endpoint Fingerprints view. Located under **Users & Hosts > Endpoint Fingerprints**. See new features.
714692	Removed iOS and Android from the "Add Device Profiling Rule" view.
714694	New Fingerprint database to accommodate multiple fingerprint sources. Data is displayed via the new Endpoint Fingerprints view.
714702	Not reading L3 from all VDOMs on a FortiGate.
714764	New install>Need a way to upload a license key from the client file system

Ticket #	Description (9.2.0.0409)
714768	Fixed mapping for Alcatel-Lucent Enterprise OS6860E-P24
714808	Ruckus L2 poll does not work with version 6
714947	FOS group dynamic firewall address (FSSO) integration
714954	Adding Virtual and Virtual Guest options to adapter Media Types
715251	When RadiusManager debug is enabled and an unknown RADIUS attribute is received, NullPointerException is printed and FortiNAC stops processing the request
715302	Added the "screen" command to the repository and image
715316	FSSO Race condition leaves some hosts with incorrect logon status
715418	Fix debug in TrapHander to not mislead on linkup vs linkdown traps
715678	Introduce USG SKUs to restrict contact FortiGuard server, FDN Server and FortiNAC software download server in US only
716371	IllegalArgumentException thrown in PersistentAgent#isLinkLocal when called with an IPv6 address
716411	FSSO tags are not sent when host role changes.
716599	FortiNAC drops RADIUS packets at times of peak usage
716603	Fix scripts to make them POSIX compliant
716897	**System>Settings>Trap Mib Files** throws exception and does not function
717912	Group Membership performance is too slow to handle load from policy engine
718168	Add a convenience method to modify a local users password
718402	SvgIconInterface isnt being loaded properly during build
718783	FortiGate VPN failed to register for syslog and failed to login correct user if connection was lost without notification.
718802	Unable to collect host/user information from 6.4.3 EMS server.
718831	InTune group add causes database issues
719360	Unable to run install.bin if have legacy license key without High Availability
719780	Catch All rule name inDevice Profiler is no longer modifiable
720071	9.1 Online Help Generates 404 Error
720129	Upgrade to 9.x fails with "Unsupported group policy type java.util.ArrayList"
720204	Updated FortiNAC log schema for FortiAnalyzer
720360	Added FirmwareVersion attribute on the Aerohive SR22XX/Unifi switch models for 802.1x RADIUS CoA functionality
720439	RadiusManager property included in "radiusManager.properties" file

Ticket #	Description (9.2.0.0409)
720467	FortiClient EMS integration should support the mac_list property in the API
720471	Added cyber-blue MAC address 00:1A:7D:DA:71:15 to IgnoredAdapters.txt (Custom Ignored Adapters List)
721204	Added Mac Notification support for Dlink Switches
721566	Custom Scans Registry-Keys view produces an error
722811	In MDM integrations, fingerprints are now created with the hostName, OS or entity values for the host instead of updating the host record directly.These are viewable in the new Endpoint Fingerprint view
723107	Add Fingerprint from Persistent Agent data.These are viewable in the new Endpoint Fingerprint view
723563	Event Alarm Mapping not adding %host% or %event% information to Email Action
723851	DHCP Fingerprint for Mac OSX Bug Sur missing
724173	Fix CoA on Fortigates with FortiLink switch, where secret is defined on the switch
724363	Duplicate online hosts with same mac address are displayed under Adapters in Topology view.
724383	FNAC sometimes failed to poll some clients connected to FGT/FSW FOS7.0.
724769	**Edit Role -> Groups -> Groups** arent filtered
725009	Imported LDAP group does not map to Administators
725360	Fix potential ClassCastException in MibObject
725604	Host is auto approved by FortiNAC even when an approver is configured in Standard User Login Portal.
725629	Unable to properly manage Aruba 9012 WLC due to incorrect mapping
725746	Communication issues between Control Manager (NCM) and POD causing Endpoint Compliance failures
725751	"Sync initiated" event added.Generated when a synchronization of servers by Control Manager has been triggered.Provides server IP, the user who triggered the sync and status
725757	Scheduler Modify dialog, Next Scheduled Time validator doesnt accept new time format
725972	Remove unnecessary startup RelationInterface message from output.master
725981	LEAP support has been removed from the Local RADIUS Server configuration
726024	GA Renumber failed due to attempting to create + push existing tag
726099	FSSO processing performance enhancements
726329	Appliance installation is now done in the Administration UI.There is no longer a separate UI
726329	Basic Network config wizard page control alignment is off, no need for multiple columns.
726410	When a FortiLink Switch is renamed, the device and port model names in FortiNAC are not updated.

Ticket #	Description (9.2.0.0409)
726458	DPC rule does not revalidate upon connect for RADIUS clients ("Confirm Device Rule on Connect")
726678	Added custom Network Devices Admin Profile permission set to view/hide the device model Credentials tab
726694	A Fingerprint is now created when FortiNAC updates a host record after reading the FortiGate Firewall Session table.
727066	Error dialog when setting device mapping to Generic SNMP using set device mapping option.
727336	When collecting ARP information from ArubaOS WLC, the user table that contains the correct ARP entries is not being queried
727710	On upgrade from 8.8 to 9.1 or higher, the error "com.mysql.jdbc.exceptions.jdbc4.MySQLSyntaxErrorException: Unknown table 'bsc.DatabaseAuditView'" may appear in the logs
727831	Fingerprint attributes are not returned via REST get requests
728160	MySQL Exception Incorrect integer value: 'GuestSelfRegistration' for column 'sendPasswordSeparately' in output.master
728406	Proxy RADIUS packet debug - attempts to convert non-human readable octet string attrs, clutters output
728409	Hosts and Adapters views only show 999 Entries.The REST API is returning just the count of records in the current page
728677	Local RADIUS Server fails to disconnect clients from Ruckus Virtual SmartZone (SZ) controller due to missing RADIUS attributes
728719	**Add Device Profile Rule > Vendor OUI > Clicking Vendor OUI** link results in HTTP 500 Error
728862	Enhanced DeviceImport CLI tool including SNMPv3 support. For details on all options, type "DeviceImport" in the CLI
729007	NullPointerException during V3 device creation via API when no v1 community strings provided
729421	Enhanced device type classifications based upon OUI
729585	Cisco ASA VPN clients not moved to the unrestricted group due to multiple values returned when reading object-group
729599	Obtrusive error popup thrown upon navigation to Topology view
730236	Failure to read SSID on Ubiquiti causes all SSID models to be removed
730601	Changing Endpoint Complaince scan causes agents to be rescanned even when monitors were not changed
730789	When wired clients are authenticated by the Local RADIUS Server, the default VLAN is returned. Network Access Policy look-up is skipped
730823	Multiple calls to edit a User Host Profile via the API results in failure after the first attempt

Ticket #	Description (9.2.0.0409)
730857	No error message when DHCP scopes fail to import from file
730892	VPN solution L2 polling process excessively long
730908	Errors with secrets with special characters like %
730990	UI rendering for Authentication Policies/Configs tied to wrong permissions
731215	Added support to read L3 tables on Dell OS10 switches with VRFs configured
731580	Exception is displayed in server log during initialization
731597	Exception is logged when no devices present
731633	SQL Exception is thrown during FortiNAC server startup
732229	Missing event and alarm definitions for ADMIN_PROFILE_MODIFICATION
732265	Aruba Controller model configuration view is not showing supported RADIUS controls
732340	dumpports does not show port IP address (requestString)
732580	Added "sar" output in grab-log-snapshot
732614	Clicking Read VLANs on Model Configuration view fails due to not-a-function error
732965	Local RADIUS Server functionality not working properly upon failover or recovery in High Availability configuration
733232	Unable to save private filters
733903	Setting Host Expiration field to "Never" resulted in inaccurate expiration dates (example 12/31/1969)
733969	Unable to poll Airwatch MDM hosts. Although MDM poll appears to complete, new registered hosts are not created
734792	API communication issues with FortiGate
734895	Unable to parse L2 table on Dell OS10 Switches
735444	All RuggedCom switch models are shown as RSG2300 in the model configuration views
735553	CLI and Vlan switching not functioning for Allied and Rugged devices
735791	Secondary servers do not retain contract entitlements
736110	Excessive exceptions for DatabaseObjectAlreadyExistsException seen in logs
736125	Added Netflow protocol support for Device Profiling
736465	MAC address label is hidden if the IP address field is disabled in the Game Register portal configuration
736501	Cisco ASA VPN users are not always unrestricted after connecting
736553	Log format has changed to include the thread ID and to remove redundant timestamp in heartbeat messages

Ticket #	Description (9.2.0.0409)
736796	Added L3 Device Identification UI.
737244	Add REST API call to confirm device profiling rule in DeviceIdentityService
737732	FortiGate FSSO functionality is now configurable using address scopes and address groups for more flexible configuration
737740	Added PolicyHelper debug control / visibility to RADIUS log UI for improved troubleshooting
737779	Added ability to configure CLI Passwords using the Administration UI
738093	ISO build missing bc package
738096	Add checkboxes to support proactive nmap and Fortiguard method profiling
738257	Improved user look-up method to handle the different userID formats when matching Network Access Policies based on user record criteria. Previously, this was seen to cause delays in responding to RADIUS Accepts in some environments
738375	RADIUS processing performance issues when RadiusManager debug is enabled
738388	Debug was added to indicate when **System > Settings > Updates > System protocol** is set to SFTP.This protocol has been deprecated
738721	Device Identity view has been removed
738805	Unable to set SSH port on Device Credentials page in version 9.1.2
739112	Improved default level log output to include more informative messages
739131	Need to replace mysql-connector
739465	Removed Local RADIUS requirement that request must contain Service-Type=10(Call-check)
739674	Local RADIUS MAB & CHAP fixes
740034	Exception in RadiusManager with logging enabled
740723	Devices with VDOMs that specify local radius server/secret and use the mgmt IP - on restart the nas DB tbl entry is removed
740749	Local RADIUS can only handle secrets of 60 characters or less
741811	Update of Adapter IPs causes empty replaces of DYNAMIC table
741864	Switching port vlans fails for Rugged devices
741929	Control Manager (NCM) is throwing an IOException for Too many open files
741952	No response in UI when adding new network devices
741954	Add ability to read ethernet adapter for Google GSuite devices
741994	SSIDs added to groups with wrong type when added via SSID -> Group Membership preventing policy engine match on the group
742260	NullPointerException in DeviceServer.getVoiceVlans()

Ticket #	Description (9.2.0.0409)
742261	NullPointerException in ProbeTelnet.getProbeObjectsByInetAddress()
742347	IndexOutOfBoundsException in BridgeManager.VlanVerifyVector.put()
742861	More granular OS information collected from agents.Displayed in Agent Fingerprints
743381	Missing description for Radius in System/settings/Authentication/Radius
743535	License for jersey packages is listed incorrectly as EPLv2/GPLv2 in **Help > Legal** view
743543	Caching of dot1qIDtoVIDMappings not working on Juniper switches
744025	Location based Device profiling rule does not work consistently
744100	Unable to pull mac address information from Ruckus running V 5.2.Ruckus requires REST queries to contain a serviceTicket
744371	Fixes potential performance issue in table views.
745083	Control Manager (NCM) Sync fails with ArrayIndexOutOfBoundsException
745133	SSH is intermittently failing to some Cisco devices
709030 710957	Improved the speed of Device Discovery
716411 715316	FortiGate VPN hosts marked At Risk do not trigger a network change.FSSO device synchronization doesn't work properly with VDOMs.
717912 715316	Group Membership performance is too slow to handle load from policy engine
733892 733914	LicenseTool APPLIANCE shows EFFECTIVE count/level/certs if both are requested
733903	Setting Host Expiration field to "Never" resulted in inaccurate expiration dates (example 12/31/1969)
735520 729033 731645 731193 728989	Agent 5.3.0 package included
739380 745058	AirWatch does not retrieve all MAC addresses for enrolled devices
742929	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. Systems initially installed with 9.2.0 will have this change applied by default. Upgrades will have this functionality enabled upon the first auto-definition sync. For a list of available Operating Systems and Anti-Virus programs, see KB article FD53449. https://kb.fortinet.com/kb/microsites/search.do?cmd=displayKC&docType=kc&externalId=FD53449

Known Issues Version 9.2.8

Ticket #	Description (9.2.8.0471)
1002475	Unable to scan using Dissolvable Agent with spaces in scan name.
998758	Captive Portal Authentication Failure message "Custom text" not taking effect when customized via Portal Configuration.
979194	Users & Hosts screen delay in loading caused by LDAP lookup.
967631	FortiNAC is incorrectly determining that clients are no longer connected to switchports with FSW linkmode to FGT due to issues with FOS as identified in bug ID 976397.
975442	Unable to Read VLANs/Ports on Mist AP's.
946405	Scheduler pop up dialog box with CLI Configurations error of undefined.
910706	Cannot create Guest account with REST v2 results in errors 400 and 500.
934794	Performance issues with host record aging.
968100	Aggregate ports do not display in the FortiNAC UI for Dell EMC switches.
969258	Config Wizard - configuring an Invalid Subnet Mask (255.255. 225 .0) on an Isolation Interface (Isol-Reg...) is accepted.
970076	Extreme 4826GTS-PWR+ (OID: enterprises.45.3.78.1) CLI credentials fail to validate.
730221	Support for Meraki Wired Switch Stacks.
941175	Admin UI showing error "You do not have permission to access this page" for specific pages.
956130	"Blink by Amazon" contains a trailing space in the OUI database.
957070	Persistent agent server performing poorly causing large queues and delays for access.
955704	Space after Vendor Name "Blink by Amazon" prevents Device Profiling rule from matching. Workaround: Modify and delete trailing space under Vendor OUIs.
950004	Bearer Token Authentication is currently not supported for Jamf MDM integrations. Basic Authentication must be used.
949069	Alarms stop generating notifications.
945444	Admin UI Logins only check primary radius server.
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

Ticket #	Description (9.2.8.0471)
938146	Hosts registered in gSuite with a common ethernet adapter host records are being over-written.
833437	Config Wizard: Entering an invalid character results in empty UI and browser console error.
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.
932917	SSH keys must be manually generated when MultiKnownHostEntries is set. Otherwise, CLI credential validation fails when device owning VIP changes. For details and workaround see KB article https://community.fortinet.com/t5/FortiNAC/Troubleshooting-Tip-CLI-credential-validation-fails-in-device/ta-p/271544
932578	Unable to L2 poll FortiLink switches on FOS 7.4.
928827	Host aging is not applied to IP Phone device type.
925603	FortiNAC currently supports one VLAN instance per FortiLink port per VDOM.
910226	Default principal process threads thresholds are low and cause warnings or alarms immediately after update.
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. Solution: Addressed in version F7.2.1 and greater.
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".
901236	Radius Authentication rejecting with network access policy setup with Direct configuration.
836136	Guest passwords not read correctly out of the database.
909839	Repetitive Periodic FSSO logon and logoffs due to null user information
861698	After upgrading to an interim build Captive Portal Displays 500 Error. Workaround: Contact Support and reference KB 247989.
908861	Custom filter is not applied in host or adapter view.

Ticket #	Description (9.2.8.0471)
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.
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.
877245	Adding LDAP Admin user is found in the directory but user dialog defaults to local.
755317	Manager reports server synchronization completed but not all configuration is on CAVM.
903393	Unable to Remove High Availability Configuration with Control and Application server pair.
891890	Windows 11 hosts detected as Windows 10 hosts when using Dissolvable agent.
802335	Getting a JSON string error when setting registered or logged user role on host view page.
894165	Test Device Profiling Rule results in "Rule Does Not Match" if rule name contains a double space between words. Workaround: Remove the extra space.
892486	Secondary server in a High Availability configuration does not reflect the correct concurrent count in License Management.
890893, 907482	Global objects synchronization not completing between manager and appliances. **Workaround**: Reboot of the CA server
887478	Links in the Persistent Agent Summary panel produce redundant results.
872245	The migration procedure to move existing FortiNAC servers from CentOS to FortiNAC-OS is currently not supported.
809769	HTML is not supported when using "Guest Account Details" message type template.
887470	Domain with single character between dots in multiple dot domains results in error when adding to allowed domains.

Ticket #	Description (9.2.8.0471)
884414	Unable to switch VLANs manually in Port Properties for Aruba CX switch.
881837	Hosts with spaces in the hostname throws an exception when trying to make an edit to the host where hostname contains whitespace.
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
754346	Default filter used when selecting Port Changes for a specific device port does not work.
866378	Custom Login using a Guest Self Registration account fails with error Registered Client Not Found.
875720	REST API v2 query for Scan Results returns no results.
780312	FortiNAC does not integrate with Azure Active Directory due to SAML connection requirements.
878059	Using Location that specifies a device will not work if that device is a FortiLinked FortiSwitch
631115	Only 50000 records display in Adapter and Host Views. Example: Adapters - Displayed: 50000 Total: 57500
641036	Multi-factor authentication (MFA) for the Administration GUI login is currently not supported.
674438	Processes Scan Type option is not available when creating custom scans for macOS systems.
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.
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.
695435	FortiEDR is currently not supported. If required, contact sales or open a support ticket to submit a New Feature Request (NFR).
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.
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

Ticket #	Description (9.2.8.0471)
	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.
708936	FortiNAC will logoff SSO for sessions that remain connected to a managed FortiGate IPSec VPN tunnel after 12 hours.
710583	L2 Polling Mist APs can result in more API requests than Mist allows per hour.
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.
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.
760926	Removal/Addition of LDAP model can cause user attribute synchronization issues. For details and workaround see KB article https://community.fortinet.com/t5/FortiNAC/Technical-Tip-Removal-Addition-of-LDAP-model-can-cause-user/ta-p/209296.
761745	Mist AP - Port Connection State NOT WAP Uplink.
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.
765172	Configuration Wizard does not check whether user input subnet masks are valid.
766850	Landing page defined by an Admin profile is not honored. User with that Admin Profile is presented with the FortiNAC Dashboard instead. Workaround: Manually browse to intended landing page.
767548	Register Game system with Host Inventory success page is not working.
770091	Port changes/VLAN assignments made using Local RADIUS are not being logged as port changes.
770974	Event to Alarm mappings failing for Clear on Event criteria
774048	L2 HA + VIP Pairing Process Failing.Configuration completes but leaves both appliances in a "processes down" state. Workaround: Reboot appliances.
776077	Local Radius to Winbind connection cannot be secured at this time.
783304	DHCP responds with unexpected addresses in the DHCP-Server-Identifier attribute. This causes release/renew to fail. Affects appliances configured

Ticket #	Description (9.2.8.0471)
	for seperate isolation networks (Registration, Remediation, DeadEnd, etc).
791442	Able to delete a Portal Configuration which is in use by a Portal Policy. Removal is done without warning the user.
791751	Host Import - importing same file twice results in "null" error and exception in logs.
792968	Legacy View for Users & Hosts > Hosts does not display items in tables. Workaround: Enter "*" (asterisk) in search field.
793634	MDM Server Last Polled and Last Successful Poll information removed in 9.x.
809769	HTML is not supported when using "Guest Account Details" message type template
810574	Unable to scan message when using Dissolvable agent if scan configuration label contains non US-ASCII characters.
811783	Links in the Persistent Agent Summary panel produce redundant results.
812908	/var/log/messages is not rotating generating large files and high disk usage issues.
813652	Security Alarms are not generating from Security Events.
814183	Unable to view all Certificate Details in the Certificate Management view.
817040	FortiNAC Manager fails to connect to pods configured for L2 High Availabilty with a virtual IP. Manager is querying eth0 IP instead of Virtual IP.
818504	Linux Persistent Agent fails to install using the .deb package.
824088	Unable to update existing Registered Host records using Legacy View > Hosts > Import.
826913	Creating a Network Device Role using Direct Configurations reverts to Logical Networks.
827283	Roaming Guest Logical Network missing from FortiGate Model Configuration.
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.
833324	FortiNAC unexpectedly disabling Juniper EX interfaces when host is deleted in "Host View".
833327	Routes specifying an interface are no longer present after reboot or restart of processes.
833735	Host icons in the Inventory view are not updated until a Layer 2 poll occurs.

Ticket #	Description (9.2.8.0471)
836435	Unable to read VLANs on Huawei 6508 WLC.
838525	Configuring Remote Backup results in a "HTTP Status 500 – Internal Server" error.
842134	Blank section to Captive Portal page for mobile devices added after upgrade.
842280	Guest Self-Registration, when configured to e-mail users their credentials, now requires 2 separate e-mails (1 containing username and another containing password).
845412	When a sync is performed on the Network Control Manager, modified group names are not synchronized to the managed pod.
845493	Manager (NCM) not properly synchronizing nested Global Groups
845505	Manager (NCM) not properly synchronizing nested Global Groups
846822	FortiNAC failed the NMAP scan due to old IP reported from the arptool
847630	Newly deployed NAC via OVA was incomplete requiring various manual workarounds to get completed
852670	AP showing up as learned uplink not WAP Uplink
852946	FortiNAC 9.2.6 System Management menus gives HTTP 500 - Internal server error
853007	Fortinac is sending big amount of API requests to Meraki API
853870	Kaspersky Endpoint Protection 11.10 is not supported by Fortinac
858138	FSSO Tags are not sent to Wired and Wireless FortiGates after reconnecting the LAN port on FGT1101E.
859702	Enhance Palo Alto SSO REST API to allow for bulk messaging.
860996	Unable to read VLANs or L2 data for Huawei S6720-30C-EI-24S-AC.
861201	Windows 11 Domain Check.
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.
874154	When changing day value and refreshing in the Scans Dashboard widget, an error is generated and page fails load.
	Not all models of all network devices can be configured to perform Physical MAC Address Filtering even though the Admin UI indicates that the configuration can be set. Resolution: Hosts can be disabled by implementing a Dead-end VLAN.
	For Portal v2 configurations, web pages that are stored in the site directory

Ticket #	Description (9.2.8.0471)
	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.
	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" 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.
	Sophos UTM is currently not supported.

Device Support Considerations

Ticket #	Description
730221	Stacked Meraki switches currently not supported. If required, contact sales or support to submit a New Feature Request (NFR).
548902	Management of wired ports on Aerohive AP-150W controlled by AerohiveNG is currently unsupported.
606729	The feature "Palo Alto VPN Integration" is currently not supported. It has been determined not to be ready for customer production use for managing remote user VPN connections through Palo Alto firewall.
679230	Aruba 9012-US currently not supported. If required, contact sales or support to submit a New Feature Request (NFR).
829009	The Allowed VLAN list is not properly managed on Aruba CX switches. When FortiNAC performs a VLAN change, only the new VLAN is set. The previously configured Allowed VLAN is not removed. This causes the Allowed VLANs list to grow over time.
836831	Layer 2 polling HPE Walljacks fails if special characters are found in the devices mac-address table.
842181	FortiNAC does not support the custom RADIUS attribute Fortinet-Host-Port-AVPair action=bounce-port for Change of Authorization (CoA) with FortiSwitches.
843509	FortiNAC is unable to communicate with Dell x1026 switches.
846782	FortiNAC is unable to read roles and potentially other data from Aruba IAPs due to a # symbol automatically added to the wireless network name.
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).
860546	L3 Polling currently not supported on Extreme Wireless Controllers
	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.

Ticket #	Description
	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 9.2. These are in addition to the device support added in previous releases.

Version 9.2.8

Ticket #	Vendor (9.2.8.0471)
875730	S5720-28X-SI-24S-AC Huawei Versatile Routing Platform Software VRP (R) software,Version 5.170 (S5720 V200R019C10SPC500) S1720-52GWR-PWR-4P-E Huawei Versatile Routing Platform Software VRP (R) software,Version 5.170 (S1720GWR V200R021C00SPC100) CBS250-8PP-D 8-Port Gigabit PoE Smart Switch S5735-S32ST4X Huawei Versatile Routing Platform Software VRP (R) software,Version 5.170 (S5735 V200R021C00SPC100) CBS350-8T-E-2G 8-Port Gigabit Managed Switch SX350X-24F 24-Port 10G SFP+ Stackable Managed Switch Huawei AC6805 Huawei Versatile Routing Platform Software VRP (R) software, Version 5.170 (AC6805 V200R020C00SPC200) AOS-W Version 6.4.2.6-4.1.1.13 Cisco IOS Software, C1700 Software (AP3G2-K9W7-M), Version 15.3 (3)JD, RELEASE SOFTWARE (fc3) Technical Support: http://www.cisco.com/techsupport
869961	Aruba/HP CX Switch Port Channel Status Support Aruba JL662A 6300M 24G CL4 PoE 4SFP56 Swch FL.10.06.0112
891820	Aruba JL817A 4100i 12G CL4/6 POE 2SFP+ DIN Sw RL.10.10.1040 S1720-10GW-PWR-2P-E Huawei Versatile Routing Platform Software VRP (R) software,Version 5.170 (S1720GWR V200R021C00SPC100) Cisco IOS Software [Gibraltar], ISR Software (ARMV8EL_LINUX_IOSD-UNIVERSALK9_IAS-M), Version 16.10.1b, RELEASE SOFTWARE (fc1) Technical Support: http://www.cisco.com/techsupport switch-har-11
884423	Cisco IOS Software [Bengaluru], IE3x00 Switch Software (IE3x00-UNIVERSALK9-M), Version 17.6.4, RELEASE SOFTWARE (fc1) Technical Support: http://www.cisco.com/techsupport 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)

Ticket #	Vendor (9.2.8.0471)
	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, RELEASE SOFTWARE
	Cisco Sx220 Series Switch Software, Version 1.2.1.2, RELEASE SOFTWARE
	S6730-H24X6C Huawei Versatile Routing Platform Software VRP (R) software,Version 5.170 (S6730 V200R021C00SPC100)
	SG350-20 20-Port Gigabit Managed Switch
834025	AT-x510L-52GT - Operating System: Alliedware Plus - OID.1.3.6.1.4.1.207.1.14.128 AT-x550-18XSQ - Operating System: Alliedware Plus - OID.1.3.6.1.4.1.207.1.14.140
878013	Meraki CW9166I Cloud Managed AP
	Meraki MX105 Cloud Managed Security Appliance
	Juniper Networks, Inc. ex4100-48p Ethernet Switch, kernel JUNOS 22.3R1.12, Build date: 2022-10-05 16:23:26 UTC
	SF350-08 8-Port 10/100 Managed Switch
889578	HPE 5520 48G PoE+ 4SFP+ HI Swch R8M29A
	Viptela SNMP agent
	Juniper Networks, Inc. ex4650-48y-8c Ethernet Switch
	Aruba JL668A 6300F 24G 4SFP56 Sw FL.10.10.1000
	CBS350-24T-4G 24-Port Gigabit Managed Switch
	Aruba JL264A 2930F-48G-PoE+-4SFP+-TAA Switch, revision WC.16.08.0016, ROM WC.16.01.0006 (/ws/swbuildm/rel_yakima_qt2_ qaoff/code/build/lvm(swbuildm_rel_yakima_qt2_qaoff_rel_yakima_qt2))
	HP J9855A 2530-48G-2SFP+ Switch, revision YA.16.02.0014, ROM YA.15.19 (/ws/swbuildm/rel_spokane_qaoff/code/build/lakes(swbuildm_ rel_spokane_qaoff_rel_spokane))
	FG400F-HYAC-01 - Routing
	Cisco IOS Software, S5400 Software (S5400-UNIVERSALK9-M), Version 15.2(8)E, RELEASE SOFTWARE (fc3)
	Extreme Networks Switch Engine (5320-48T-8XE-SwitchEngine) version 32.3.1.11
874812	Added Private VLAN support for Cisco switches that are mapped to mibId 20.
894124	Cisco IOS Software [Cupertino], Catalyst L3
	48-Port Gigabit Smart Switch
898891	Cisco IOS Software [Bengaluru], c8000be Software (X86_64_LINUX_ IOSD-UNIVERSALK9-M), Version 17.6.5, RELEASE SOFTWARE (fc2)
	Hirschmann RSR

Ticket #	Vendor (9.2.8.0471)
	Cisco IOS Software, ir800 Software (ir800-UNIVERSALK9-M), Version 15.9(3)M5, RELEASE SOFTWARE (fc1) Cisco IOS Software [Cupertino], ISR Software (ARMV8EL_LINUX_IOSD-UNIVERSALK9_IOT-M), Version 17.9.1, RELEASE SOFTWARE (fc8)
868451	Added L3 support for Forcepoint firewalls.

Version 9.2.7

Ticket #	Vendor (9.2.7.0463)
831482	Aruba JL727A 6200F 48G CL4 4SFP+370W Huawei S5735-L12P4S-A PowerConnect 7024 Alcatel-Lucent OAW-AP1201 4.0.2 Huawei S5732-H24S6Q Symbol AP7522 Access Point FortiGate Meraki MR36H Cloud Managed AP
698324	Huawei Quidway S2309TP-PWR-EI Huawei Quidway S3328TP-PWR-EI Huawei Quidway S3352P-PWR-EI
836420	Juniper Networks, Inc. qfx5120-48t-6c Ethernet Switch Transition Engineering Inc. 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) Huawei AirEngine9700-M1 Meraki MR57 Cloud Managed Indoor AP
840205	Westermo L210-F2G Rugged Compact Switch
842976	Cisco IOS Software, C800 Software (C800-UNIVERSALK9-M) D-Link DGS-1510-52X Gigabit Ethernet SmartPro Switch Aruba
844425	Allied Telesis 550-18XSQ switch Allied Telesis 510L-52GT switch

Ticket #	Vendor (9.2.7.0463)
845410	Cisco CBS350-24P-4X 24-Port Gigabit PoE Stackable Managed Switch Huawei S6720-30C-EI-24S-AC Huawei S6730-H48X6C Huawei S5735-L8P4X-IA1
847082	Huawei NE40E-X3 Extreme SLX9540 Switch/Router 3Com Baseline Switch 2250-SFP Plus D-Link WS6-DGS-1210-10P/F1
849478	Cisco IOS Software [Gibraltar], ISR Software (ARMV8EL_LINUX_IOSD-UNIVERSALK9-M) D-Link DGS-1210-28P/C1
851405	FortiGate Alcatel-Lucent Enterprise OS6360-P24X Meraki MX75 FortiAP Aruba JL667A 6300F 48G 4SFP56 ArubaOS (MODEL: 635)
852981	Allied Telesis router/switch, Software (AlliedWare Plus)
854248	Huawei S1720-28GWR-PWR-4P Huawei S1730S-S24P4S-A Extreme Networks Switch Engine (Stack) Extreme Networks Switch Engine (5320-16P-4XE-SwitchEngine)
856760	Cisco IOS Software, IE2000 Software (IE2000-UNIVERSALK9-M) Cisco 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 Huawei S5735-L48P4S-A1
859465	Brocade Communications Systems, Inc. ICX7450-48 Brocade Communications Systems, Inc. FWS624G-POE-PREM Brocade Communications Systems, Inc. FWS624G-PREM Brocade Communications Systems, Inc. FWS648G-PREM Brocade Communications Systems, Inc. FWS648 Cisco Controller Cisco SG550X-24 24-Port Gigabit Stackable Managed Switch
859816	Allied Telesis X510-28-GTX switch
863408	Cisco CBS350-8P-2G 8-Port Gigabit PoE Managed Switch Cisco IOS Software, ASR900 Software (PPC_LINUX_IOSD-UNIVERSALK9_NPE-M

Ticket #	Vendor (9.2.7.0463)
	Cisco IOS Software, IE2000U Software (IE2000U-LANBASEK9-M)
	Huawei S5735-S24P4X
	Symbol AP410C
	Cisco SG550XG-8F8T 16-Port 10G Stackable Managed Switch
	Symbol AP310-1
	Symbol AP7532
	Cisco CBS350-48T-4X 48-Port Gigabit Stackable Managed Switch
	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 9.2.6

Ticket #	Vendor (9.2.6.0451)
805669	Extreme VSP-7400-48Y-8C (8.1.6.0)
814620	Cisco IOS Software, c6848x Software (c6848x-ADVENTERPRISEK9-M)
	Palo Alto Networks PA-3200 series firewall
	S5735-L24P4X-A1 Huawei Versatile Routing Platform Software
	S5735-L24P4S-A1 Huawei Versatile Routing Platform Software
	Extreme Networks Switch Engine (5420F-24P-4XE-SwitchEngine)
	PowerConnect 7024, 5.1.18.1, VxWorks 6.6
	Aruba JL658A 6300M 24SFP+ 4SFP56 Swch FL.10.09.1000
	Datacenter Switch
	Cisco IOS Software [Bengaluru],c8000be Software(X86_64_LINUX_IOSD-UNIVERSALK9-M)
820169	Ruckus Wireless, Inc. ICX7850-48F, IronWare Version 08.0.95fT233
820969	HP A5120-24G SI Switch Software Version 5.20, Release 1513P13
	S5720-52P-PWR-LI-AC Huawei Versatile Routing Platform Software VRP (R) software,Version 5.170 (S5720 V200R011C10SPC600)

Ticket #	Vendor (9.2.6.0451)
	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 Cisco IOS Software, IE2000 Software (IE2000-UNIVERSALK9-M), Version 15.0(1)EY Meraki MR44 Cloud Managed AP Cisco IOS Software, cgr1000 Software (cgr1000-UNIVERSALK9-M), Version 15.7(3)M1 S5731-S24T4X Huawei Versatile Routing Platform Software VRP (R) software,Version 5.170 (S5731 V200R021C00SPC100) PowerConnect 7024P, 5.1.18.1, VxWorks 6.6
830112	Dell EMC Networking N3224P-ON, 6.6.3.14, Linux 4.15.18-2ac8b3ec Huawei AP5030DN Huawei Versatile Routing Platform Software VRP (R) software,Version 5.170 (AP5030DN V200R010C00SPCd00) Dell EMC Networking OS10 Enterprise.
833731	Huawei AR129CGVW-L Huawei Versatile Routing Platform Software VRP S6720-56C-PWH-SI-AC Huawei Versatile Routing Platform Software VRP Dell Networking N1524P S5735-L24P4X-A1 Huawei Versatile Routing Platform Software VRP

Version 9.2.5

Ticket #	Vendor (9.2.5.0443)
765569	DIGI cellular routers

Ticket #	Vendor (9.2.5.0443)
789282	Extreme Campus Controller WLC
790006	Netgear S4300 and S3300 Switches
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
806646	S5735-L24T4X-A1 Huawei Versatile Routing Platform Software VRP (R) FGT85F S5731-H24T4XC Huawei Versatile Routing Platform Software FGTVM641000C S5732-H48UM2CC Huawei Versatile Routing Platform Software FGT50A JL581A Aruba 8320 48p Juniper Networks, Inc. ex3400-48t Ethernet Switch

Version 9.2.4

Ticket #	Vendor (9.2.4.0438)
796633	Fortigate Cisco IOS Software, C1000 Software (C1000-UNIVERSALK9-M), Version 15.2(7)E4 Aruba R8N87A 6000 24G CL4 4SFP Swch PL.10.08.1010 Meraki MS355-48X2 Cloud Managed Switch Dell EMC Networking OS10 Enterprise.S5224F-ON

Version 9.2.3

Ticket #	Vendor (9.2.3.0435)
765568	Huawei AR550E router/switch
769085	MICROSENS G6 Micro-Switch S5731-H48T4XC FW_WLC
770214	S5300-52C-PWR-EI S5731-S48P4X Alcatel-Lucent Enterprise OS6465T-P12 Alcatel-Lucent Enterprise OS6465-P12 FG_GRP9 brayhall-core-router Meraki MR20 Cloud Managed AP
771979	SG250-08 8-Port Gigabit Smart Switch S5700-10P-LI-AC DC FortiGate Cluster
774429	Cisco NX-OS(tm) nxos.7.0.3.I4.1.bin, Software (nxos), Version 7.0(3)I4(1) Dell Networking X1018P 1Gb PoE Switch SG350-28 28-Port Gigabit Managed Switch Ruijie 10G Ethernet Switch with PoE (S2910C-48GT2XS-HP-E)
777886	D-Link DGS-3130-30TS System - 24*10/100/1000M + 2*10GBase-T + 4*10G SFP+, 145.1.10.57 Fortigate Cisco IOS Software, CDB Software (CDB-UNIVERSALK9-M) Quidway S7706 Huawei Versatile Routing Platform Software Cisco IOS Software, C880 Software (C880VOICE-UNIVERSALK9-M) Fortinet Cisco IOS Software, ir800 Software (ir800-UNIVERSALK9-M)
781634	S5700-52P-LI-AC Huawei Versatile Routing Platform
783982	S5720-12TP-LI-AC S5720-36PC-EI-AC S5720S-52P-SI-AC S5700-10P-PWR-LI-AC
786422	ArubaOS (MODEL: 565)
787686	S5735-L48T4S-A1 Huawei Versatile Routing Platform Software VRP (R) software

Ticket #	Vendor (9.2.3.0435)
	CBS350-48P-4X 48-Port Gigabit PoE Stackable Managed Switch with 10G Uplinks
	CBS350-48P-4G 48-Port Gigabit PoE Managed Switch
	CBS350-8P-E-2G 8-Port Gigabit PoE Managed Switch
	CBS350-24T-4X 24-Port Gigabit Stackable Managed Switch with 10G Uplinks
	Linux Lethe 2.6.18-92cpx86_64 1 SMP Mon Oct 8 10:34:42 IDT 2018 x86_64
	Juniper Networks, Inc. srx380-poe-ac internet router, kernel JUNOS 20.4R3-S1.3
	S5735-L8P4S-A1 Huawei Versatile Routing Platform Software VRP (R) software
	Fortigate fwf51E
	Quidway S9712 Huawei Versatile Routing Platform Software VRP (R) Software
	Brocade Communications Systems, Inc. FastIron SX 1600
	CCB 1st Sessions Court FS108F
	Meraki MR36H Cloud Managed AP
792686	Huawei AR129CGVW-L Huawei Versatile Routing Platform Software VRP (R) software
	Cisco NX-OS(tm) nxos.9.3.7.bin, Software (nxos)
	Juniper Networks, Inc. ex4400-24p Ethernet Switch, kernel JUNOS 21.1R1.11
	Aruba R8N85A 6000 48G CL4 4SFP Swch PL.10.09.1000
	Aruba Instant On 1930 8G 2SFP Switch JL680A, InstantOn_1930_1.0.5.0 (139)
	IE1000 Industrial Ethernet Switch, Version: 1.7.0#2018-05-02T18:19:37+00:00

Version 9.2.2

Ticket #	Vendor (9.2.2.0421)
760460	FortiSwitch
	Dell EMC Networking N1124T-ON
	Alcatel-Lucent Enterprise OS6560-P24X4
	Alcatel-Lucent OS6450-U24
	ExtremeXOS (X620-16x)
	ExtremeXOS (X450G2-24p-10G4)
	Aruba R0M68A 2930M-24SR-PoE-Class6 Switch

Ticket #	Vendor (9.2.2.0421)
	Aruba JL727A 6200F 48G CL4 4SFP+370W Switch Aruba JL675A 6100 48G CL4 4SFP+ PLANET, IGS-10020HPT, IE L2+ Managed Switch
761980	Alcatel-Lucent Enterprise OS6860E-P48 Alcatel-Lucent Enterprise OS6560-24X4 Alcatel-Lucent Enterprise OS6560-P48Z16 Alcatel-Lucent Enterprise OS6560-P48X4 CHS_Fortigate_VM04
763316	VSP-4900-12MXU-12XE
765550	Alcatel-Lucent Enterprise OS6560-48X4 Enterasys Networks, Inc. A4H124-24 24-port 10/100 PoE Switch w/4 gigabit ports S5735-L48P4X-A1 Huawei Versatile Routing Platform Huawei AR550E Huawei Versatile Routing Platform
766493	Dell PowerConnect 5548P
767310	HP 1910-24 Switch Allied Telesis router/switch, AW+ v5.4.6-1.5

Version 9.2.1

Ticket #	Description (9.2.1.0415)
749162	FortiSwitch-108F-POE
752957	Aruba Instant On 1930 48G 4SFP/SFP+ Switch JL685A HPE 5510 24G PoE+ 4SFP+ HI 1-slot Switch JH147A WS6-DGS-1210-28/F1 6.10.007 Dell Networking N1524 Palo Alto Networks PA-3200 series firewall HP 1820-48G-PoE+ (370W) Switch J9984A Hirschmann MICE Switch Power Hirschmann Rail Switch Power Enhanced USIDC-FWL001 swich standalone NetVanta 1534P AOS-W (MODEL: OAW-4030)
756556	Enterasys Networks, Inc. Bonded SSA Chassis Rev 08.11.04.0005
754988	FSW_248E_POE

Ticket #	Description (9.2.1.0415)
	FSW_148F FSW_148F_POE FSW_148F_FPOE FSW_124F FSW_108F FSW_108F_POE FSW_108F_FPOE FSW_1024E FSW_T1024E FSW_124F_POE FSW_124F_FPOE

Version 9.2.0

Ticket #	Vendor (9.2.0.0409)
688048	ApresiaNP2000-24T4X ApresiaNP2000-24T4X-PoE ApresiaNP2000-48T4X ApresiaNP2000-48T4X-PoE Apresia13200-28GT Apresia13200-52GT Apresia5428GT Apresia3424GT-SS ApresiaLightGM110GT-PoE ApresiaLightGM110GT-SS ApresiaLightGM118GT-SS ApresiaLightGM124GT-PoE ApresiaLightGM124GT-SS ApresiaLightGM152GT
706225	Ruijie XS-S1960
712593	Huawei S2700-9TP-PWR-EI Meraki MS125-48FP Cloud Managed PoE Switch Huawei S5735-S48T4X Extreme Networks, Inc. A2H124-24P Cisco Controller ArubaOS W-AP103
714422	Planet IGS-10020PT

Ticket #	Vendor (9.2.0.0409)
720989	Cisco IOS Software, C1000 Software (C1000-UNIVERSALK9-M), Version 15.2(7)E2
	Huawei S5735-L24P4S-A
	Huawei S5735-L48P4X-A
	SG350-28SFP 28-Port Gigabit SFP Managed Switch
	ExtremeXOS X440G2-24x-10G4
	ExtremeXOS X440-24x-10G
	ExtremeXOS X440-L2-24t
	ExtremeXOS X440-24x
	ExtremeXOS X620-8t-2x
	Industrial 6-P GbE RJ45 + 2-P GbE SFP L2 Plus Managed UPoE Switch
	Dell EMC Networking N3132PX-ON
	Dell EMC Networking S3148P
	Dell EMC Networking OS10 Enterprise
	Dell Networking OS Series: PE-FN-410S-IOM
	Dell EMC Networking OS10 Enterprise
	Aruba JL660A 6300M 24SR5 CL6 PoE 4SFP56
	Meraki MS390-24UX L3 Stck Cld-Mngd 24-port mGbE UPoE switch
	Meraki MS390-48UX2 L3 Stck Cld-Mngd 48-port 5GbE UPoE switch
	Fortinet FortiGate
	Ruckus Wireless, Inc. ICX7150-24-POE, SPR08090b
	50-Port Gigabit PoE Smart Switch
	Viptela SNMP agent
721009	Added missing property for Viptela devices
724820	Ruckus Wireless, Inc. ICX7850-48FS
	Dell EMC Networking OS10 Enterprise, System Type: S5212F-ON
	Ruckus Wireless, Inc. ICX7650-48F
	HVC-Budel-FW01
	Brocade Communications Systems, Inc. ICX7250-24, labeled as SPS08030
	Brocade Communications Systems, Inc. FWS648G-POE, labeled as FWSL07400d 1
	Ruckus Wireless, Inc. ICX7150-C08-POE, labeled as SPS08091
	Dell Networking OS, Series: MXL-10/40GbE
	Cisco IOS Software, C2960CX
730834	Foundry Networks FWSX424+2XG
	Ruckus Wireless, Inc. Stacking System ICX7550-24F
	Huawei S5720-52X-LI-AC
	HP Series Router A-MSR30-10

Ticket #	Vendor (9.2.0.0409)
	H3C Series Router MSR30-10
	Alcatel-Lucent Enterprise OS6350-P24
	Alcatel-Lucent Enterprise OS6350-48
	LGS308P 8-Port Gigabit PoE+ Smart Switch
	HPE MSR3012
	Meraki MR44 Cloud Managed AP
	Dell S4112T-ON
	Aruba JL676A 6100 48G 4SFP+
	Aruba JL679A 6100 12G CL4 2SFP+
	Dell S5048F-ON
	Brocade ICX7150-48-POE
	Brocade ICX7150-48-POEF
	HPE OfficeConnect 1950-24G-2SFP+-2XGT
	Huawei S5735-S48P4X Cisco NX-OS(tm) n5000
734133	Pnetworks switch
735445	Huawei Quidway S3352P-EI
	Huawei Quidway S9306
743833	Cisco Nexus(Cisco NX-OS(tm) nxos.9.3.5.bin)
	Cisco Nexus (Cisco NX-OS(tm) nxos.7.0.3.I7.9.bin)
745113	Dell EMC Networking OS
	S5730-68C-PWR-SI-AC Huawei Versatile Routing Platform Software VRP
	S5730-48C-PWR-SI-ACHuawei Versatile Routing Platform Software VRP
	SX350X-52 52-Port 10GBase-T Stackable Managed Switch
	PLANET IGSW-24040T Managed Switch
	Cisco IOS Software, CSR1000V Software (X86_64_LINUX_IOSD-UNIVERSALK9-M)
	Cisco IOS Software, C3560E Software (C3560E-UNIVERSALK9-M)
	Dell EMC Networking N2224PX-ON, 6.6.1.1, Linux 4.4.170-b055baf1
	Dell EMC Networking N3024EF-ON, 6.6.3.36, Linux 4.14.138, v1.0.5
	Dell EMC Networking N2248PX-ON, 6.6.3.10, Linux 4.15.18-2ac8b3ec
	Dell EMC Networking N3248P-ON, 6.6.3.14, Linux 4.15.18-2ac8b3ec
	Dell EMC Networking N1108EP-ON, 6.6.3.10, Linux 4.14.138
	FortiGate
	Aruba JL677A 6100 24G CL4 4SFP+ Swch PL.10.06.0001
	Juniper Networks, Inc. ex3400-24t Ethernet Switch
	HPE 1950 48G 2SFP+ 2XGT Switch
	Meraki MR53E Cloud Managed AP
	Linux cep-gate 3.10.0-957.21.3cpx86_64 1 SMP
	Aruba JL659A 6300M 48SR5 CL6 PoE 4SFP56 Swch FL.10.08.0001

Ticket #	Vendor (9.2.0.0409)
689049	Dell Switch S4128T (DellSwitchOS10)

System Update Settings

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

Field	Definition
Host	Set to fnac-updates.fortinet.net
Auto-Definition Directory	Keep the current value.
Product Distribution Directory	Systems running version 8.3.x and higher: Set to Version_9_2
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).