FortiNAC - Release Notes

Version 9.2.1.0415

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FEEDBACK

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Change Log

Date	Change Description
January 31, 2022	Update to FortiNAC 9.2.1 release notes.

Overview

Version 9.2.1.0415 is the latest release being made available to customers to provide functionality and address some known issues.

Important

- 9.1.0+ uses a new GUI format. FortiNAC cannot go backwards to a previous version. Snapshots should always be taken on virtual appliances prior to upgrade.
- 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: 9.2.1.0415

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.

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 9.2.1

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 9.2.1. These enhancements are in addition to the enhancements that are outlined in previous releases.

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 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

Ticket #	Description (9.2.1.0415)
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
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

Ticket #	Description (9.2.1.0415)
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 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

Ticket #	Description (9.2.0.0409)
	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. 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

Ticket #	Description (9.2.0.0409)
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
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

Ticket #	Description (9.2.0.0409)
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 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

Ticket #	Description (9.2.0.0409)
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
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

Ticket #	Description (9.2.0.0409)
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
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

Ticket #	Description (9.2.0.0409)
	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.
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

Ticket #	Description (9.2.0.0409)
	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
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)

Ticket #	Description (9.2.0.0409)
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
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)

Ticket #	Description (9.2.0.0409)
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()
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

Ticket #	Description (9.2.0.0409)
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

Device Support

These changes have been made in FortiNAC Version 9.2.1. These are in addition to the device support added in previous releases.

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 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
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

Ticket #	Vendor (9.2.0.0409)
	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
	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

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

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).