



FortiNAC - Release Notes

Version 8.8.4

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January 25, 2021

FortiNAC 8.8.4.1721 Release Notes

49-884-691334-20210121

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Overview of Version 8.8.4

Version 8.8 is the latest release being made available to customers to provide functionality and address some known issues.

Important

- 8.8.x: When upgrading from a pre-8.8 version to 8.8 or higher, the upgrade may hang if the appliance does not have external FTP access. The upgrade introduces a new local RADIUS server feature that requires additional CenOS patches. The download and installation of the patches occur during the upgrade process. A new .repo file is written in order to download the patches and specifies FTP as the transfer protocol.

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

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

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

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

Example:

```
> sysinfo
*****
Recognized platform: Linux
Distribution: CentOS Linux release 7.6.1810 (Core)
```

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

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

Supplemental Documentation

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

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

Version Information

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

Version: 8.8.4.1721

Agent Version: 5.2.4

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 8.x. Compatibility of Agent Package versions 4.x and below with FortiNAC versions 8.x and greater are not guaranteed.

Web Browsers for the Administration UI

Safari web browser version 6 or greater

Google Chrome version 26 or greater

Mozilla Firefox version 20 or greater

Internet Explorer version 9.0 or greater

Opera version 12.15 or greater

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

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

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

Example:

Warning: Unresponsive script

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

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

Operating Systems Supported Without an Agent

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

New Features

- [New Features in 8.8.4 on page 8](#)
- [New Features in 8.8.3 on page 8](#)
- [New Features in 8.8.2 on page 8](#)
- [New Features in 8.8.1 on page 8](#)
- [New Features in 8.8.0 on page 8](#)

New Features in 8.8.4

There are no new features in 8.8.4.1721

New Features in 8.8.3

There are no new features in version 8.8.3.1717.

New Features in 8.8.2

Registration Approval process for the Portal

- Applies to Standard, Guest, and Custom Captive Portal Login Processes only.
- After registration and authentication completes, the device is placed in a "Pending Approval" state. Upon Administrator approval, the portal notifies the user and allows them to complete the Registration process for the device.

New Features in 8.8.1

There are no new features in version 8.8.1.1710

New Features in 8.8.0

- FortiGuard IoT Service for Device Profiling
- Script based Device Profiling method. See section [Adding a Rule in the Administration Guide](#) for details.
- Support for Jamf MDM for Apple devices including application information polling
For details on Jamf integration, refer to the Fortinet Document Library.

- Built-in local RADIUS server which can process RADIUS MAC and 802.1x EAP authentication. This is separate and in addition to the existing RADIUS server functionality which provides RADIUS MAC authentication and proxies 802.1x EAP authentication to an external RADIUS server.
- Support for Mist Wireless. For details, refer to the Mist Wireless Integration reference manual in the Fortinet Document Library.

Enhancements and Addressed Issues

These changes have been made in FortiNAC Version 8.8.4. These enhancements are in addition to the enhancements that are outlined in 8.7 and previous releases.

Version 8.8.4

Ticket #	Description (8.8.4.1721)
600078	Cannot show group membership of IP phone in a host Group
602634	"Device Rule Confirmation Failure" and "Device Rule Confirmation Success" events missing location and/or IP address information
646874	HTTP Status 500 Error when configuring WinRM profiling
671450	Some device mappings in the database are not cleaned up when property files are changed. This can cause cause issues modeling devices.
674288	Unable to read SonicWALLPRO MAC address (L2) data
675168	Issues changing VLANs on HPE OfficeConnect 1950-48G-2SFP+-2XGT-PoE+ due to mapping
679244	Arp (L3) information not processing on HP 10508 switches
681256	Management process crashes if both primary and secondary are running in control
682244	GSuite devices are incorrectly removed from FortiNAC after poll
684312	FGT API access frequently fails when reading and writing.
684732	Added text to the following views to improve usability when configuring the shared secret for Local RADIUS: Model Configuration tab VDOM Configuration SSID Configuration SSID Wizard configuration context (via right click multiple SSID's)
685272	Scan does not work when host is manually placed "At Risk" and end user tries to scan from Captive Portal page.
685687	If both SSID & VDOM contexts exist in Local RADIUS, RADIUS Attribute Groups always come from VDOM.
685688	L3 polling stops due to hung HTTP request to FortiOS
685928	FSSO startup processing is not creating internal message table correctly, affecting the FSSO tagging process.

Ticket #	Description (8.8.4.1721)
685969	FNAC may not send group information correctly to a FGT or may not remove it due to FNAC internal FSSO message queue being out of sync.
686125	NullPointerException in CiscoSwitch.updateVersion
686290	NullPointerException in FortigateCommon
686293	Added property com.bsc.plugin.dpc.ActiveFingerprint.revalidationMaxRetries to activeFingerprint.properties. This sets the number of times Device Profiler attempts to revalidate a device before triggering event "Device Rule Confirmation Failure".
686567	Radius accounting port 1813 not listening after upgrade to 8.8.x
686628	Device modeled without CLI credentials fails to load Model Configuration panel.
686801	Corrected mapping for FortiSwitch FSW_424E_FPOE
687291	Database replication fails if /etc/hosts is misconfigured
687434	Proxy RADIUS fails to find wired port on FGT/FSW for MAB.
688129	Missing X-CSRFToken for Fortigate REST API
688132	Some passwords being shown unencrypted in GET responses
688656	Duplicate FLink-FSW ports would be created if FSWs were given a name. This impacted L2 polling and other functions.
688674	Improved workflow in Local RADIUS Server view for initial configuration of Local RADIUS / winbind services
689275	When machines with virtual adapters and the Persistent Agent reboot, new host records are generated.
689349	Admin UI no longer accessible message indicates "You do not have permissions to access this page"
690891	Added global option to be able to disable the entitlements check in Device Profiler.
690964	Host owner is incorrectly set after scanning, can change Registered Device to Host
691335	Restart winbind service if it goes down automatically & generate event
691465	The FGT VPN solution is slow to process new sessions when events are missing.
672014	Users cannot set admin status on FGT and FSW ports that are Radius
672016	Enabled.

Version 8.8.3

Ticket #	Description (8.8.3)
574107	Access Points managed by wireless controllers do not import properly due to database object cache getting out of sync.
605783	Voice VLAN value does not save after entering under Model Configuration.
607448	Portal Role hidden field not taking effect when registered from alternative device, such as registering a gaming device or other device that does not support a browser.
617422	Port mode on Alcatel ports is changed when resync interfaces
617426	Not clearing port mode when set to RADMAC on Alcatel
622037	Long portal page loading times when connecting via VPN
644702	Interfaces disappearing from port groups
658512	SNMP link traps ignored from Huawei switch for a PC behind IP Phone
658846	Wireless Access Point SSID models set to Auto Register using 802.1x get Rogue Host Inactivity aging
659006	Motorola WiNG 7+ firmware requires different MAC format
659071	Admin Profile, Profiled Devices, Selected Rules not loading correctly
659882	Added support for API changes introduced in FortiClient EMS server version 6.4. Previously, FortiNAC displayed error "Failure: Failed to read Fortinet EMS devices" when attempting to connect.
665459	FGT VPN authentication fails when using RADIUS backend with legacy RADIUS server.
665658	Ability for pods to pull weekly Auto-Definition updates from NCM (Control Manager Proxy).
667326	Host Applications removed when Host is updated.
668628	nac.service status shows "failed" even though it successfully starts
668926	Support for Fortigate SNMP V1 Device Awareness SNMP Trap
669780	Added Operating System update proxy Configuration to UI (System > Settings > System Communication > Proxy Settings)
670093	Not properly discovering API version with newer versions of Citrix XenMobile MDM.
671107	Upgrade fails if configured for L2 HA and shared IP
671742	NCM dashboard can take 15 mins to load
671753	Enable Proxy support for FDN and lot Service

Ticket #	Description (8.8.3)
671754	Potential NullPointerException in HostServer.updateConnectedContainer()
672066	Reading FNAC system IPs fails causing various system-wide functions to fail
672073	Adding a leading "." to a domain in the allowed domains list causes named-chroot service to fail
672456	Support for Citrix XenMobile MDM versions 10.10 or greater. Important: Customers with 10.x XenMobile integrations must ensure XenMobile is running 10.10 or higher before upgrading FortiNAC. As of this version, FortiNAC no longer supports earlier 10.x XenMobile versions due to changes in API schema. This change does not affect 9.x versions of XenMobile.
672476	FGT VPN fails to process VPN session due to failure to parse VPN config.
672827	Security Fabric integration does not work with FNAC 8.8.1 and FGT versions less than 6.4.2
673012	Dell port enable shows failed in UI even though it really succeeded
673083	Cli Configuration no displaying on HP 5130 Switch in model config
673576	BufferOverflowException in SSOManager.buildFSSORecord() caused by IPv6 addresses
673577	Missing definition for Fortinet FSSO related event FORTINET2_COMMUNICATION_LOST
673579	Permissions on /usr/lib/systemd/system/analytics_agent.service are incorrect
673937	Hide unnecessary error message that is filling up the output.mom log file
674051	If a FortiGate read time out on an L2 poll occurs, clients connected to FortiSwitches in link mode show as offline (even though they are connected).
674604	DN checking during LDAP sync detects unexpected mismatch, doesnt sync groups for users.
674612	Added field in Administration UI to enable ability for FortiNAC to join winbind domain when hostname is greater than 15 characters. System > Settings > Authentication > Local RADIUS Server Field: Local NetBIOS Name Description: Hostname (short name) of the FortiNAC server. Example: FortiNAC FQDN = hostname.corp.example.com, Local NetBIOS Name = "HOSTNAME" Enables FortiNAC to join winbind domain when FortiNAC hostname is greater than 15 characters.

Ticket #	Description (8.8.3)
675247	New DHCP fingerprint for iOS
675536	Airwatch polling stops before all records are returned
675547	Cert-check scan may fail when multiple certs are detected by agent.
675861	When removing "Custom Attribute" from the Local RADIUS configuration "radiusd" service fails to start
675919	CLI credential check on FGT fails for non-super_admin users.
676046	Added the following categories to Device Profiler FortiGuard IoT Method: Engineering - Arduino, Circuit Board, Processing Unit, Raspberry, RFID Tag Industry - Automotive, Energy, Industrial Device Smart Home - Fitness, Pool, Security System
676065	No internet access when installing / starting 8.8 will cause lengthy / infinite hang during install/startup
676142	No means to delete a Global Container on an NCM
676179	Local radius with FGT/FSW in FLink mode fails to identify FSW port from request.
676327	Primary FNAC responds with RADIUS reject if primary is down
676390	When using multiple DPC rules with Persistent Agent method only first method gets applied
676508	LDAP password erased after upgrade to 8.8.3.1457 due to race condition
677507	FSSO tags not sent to devices with ForceSSO attribute set.
677621	Config Wizard text still contains Network Sentry
677634	Reading dot1qPvid for vlans on Cisco SG350 switches does not work
677981	FGT VPN unable to determine correct tags to apply to sessions.
678148	Modify Device Profiling Rule-SSH-Delete Command-Incorrect message in dialog
678152	HTTP Status 500 when uploading new Certificate with non-string SAN
678178	Missing interface mapping in bsc-rename-ethers for New Dell R440 appliance (600C)
678490	Output.mom fills up with NameNotFoundException: Name SnmpV1 not found
678498	NumberFormatException in NCMServersTileActions.jsp
678806	Unable to sync objects from the NCM
679247	Support for enable password for H3C switches
680587	Device type change in properties not properly imported

Ticket #	Description (8.8.3)
680784	L2 data obtained from FGT should include only online entries.
681030	Device profiler not matching Apple iOS from FortiGate sessions
681083	Null Pointer Exception with device DEBUG attribute.
681096	Portal Policies using LDAP groups dont apply when connected via VPN.
681366	FNAC is associating the VPN clients with the wrong VPN interface.
682236 684038	Unable to add granularity to VPN User/Host Profiles, VPN w/ No existing User in FNAC, DA reports Login Failed but otherwise works.
682406	When If table changes on Cisco switch, FortiNAC does not update cache used for mapping SNMP traps to a port
682737	grab-log-snapshot now provides compression options for output: tar.gz, zip, or tar.xz
683320	FNAC does not create FNAC Events or Alarms for FortiGate API polling
683377	ARP data from a FortiGate can show inaccurate IPs
683429	DirectorySync not working if existing model name is null, affects groups
684136	RADIUS Attribute Group Editor does not render when launched from VDOM panel in UI
684139	Devices added directly to the "L2 Network Devices" group are automatically removed
684144	Remove admin access to vi from sudoers
684153	CLI/API Credentials are not always saved when initially modeling a FortiGate
684207	Error messages running install-winbind and install-radiusd in output.master
684312	FNAC experiences API failures periodically when accessing data.
684475	Not able to update BitDefender from isolation network
639548 520340	VPN with DA requires login, policy matching with vpn is inconsistent.
639548 652141 520340	VPNClient filter does not behave as expected
	Includes agent 5.2.5.61

Version 8.8.2

Ticket #	Description (8.8.2.1714)
650332	<p>New feature: Registration Approval process for the Portal</p> <ul style="list-style-type: none"> • Applies to Standard, Guest, and Custom Captive Portal Login Processes only. • After registration and authentication completes, the device is placed in a "Pending Approval" state. Upon Administrator approval, the portal notifies the user and allows them to complete the Registration process for the device.
593600	Discovery slow in NCM environment
595663	Cisco Sx300 RADIUS support
610335	Role retrieved from WindowsAD Group changes when directory sync is run. Affects user accounts that are in multiple AD groups, regardless if Distinguished Name (DN) is different.
617057	CWE-250: Execution with Unnecessary Privileges
626560	Controller managed Aruba APs are incorrectly updated with IP of 0.0.0.0
640596	After changing existing eth0 IP address configuration using configIP tool and applying configWizard, system is changed from standalone to HA configuration.
644734	Devices in Topology View display as rogue devices on FGT Interface
645982	Changed OS Updates default transfer protocol from FTP to HTTP
646470	New host/adaptor records fail to create when new client connects and managing FortiGate is configured for Syslog messaging. Affects clients connecting to FortiSwitches in Link mode and directly to FortiGate.
649550	Support for FortiGate Device Detection trap
650618	Read IPv6 arp issues. FortiNAC showing the IPv6 link local address and not the IPv4 address.
656123	Port substitution inserts wrong format for Dell switches. Affects CLI communication between FNAC and switch (such as Flex CLI).
651375	<p>Improved Cisco WS-C3850 mapping as hybrid wired/wireless device. Corrected issue where existing Cisco WS-C3850 switches used for wired only no longer worked properly after upgrade to 8.7.5 or 8.8.1.</p> <p>Note: This device model now appears in Topology as a wireless model since it can act as both a switch and wireless device.</p>
656763	FortiNAC sending FSSO messages to unexpected FortiGates
659006	Improved device support for Motorola/Extreme wireless devices versions greater than 5.x

Ticket #	Description (8.8.2.1714)
659793	Meraki Switch Not Updating Access Value and not showing new devices
660275	Rogues are unable to connect to wireless network due to slow processing.
660494	Improved edge device detection and management when using Local RADIUS feature.
660779	Enhanced proxy RADIUS packet debug output - Added attribute names and proper string format
661047	Support for DHCPv6 fingerprinting
661049	FortiGuard IoT scan fails with connection timeout
661500	In MS Intune integrations, FortiNAC does not display an owner for hosts whose e-mail prefix do not match the directory user ID.
661753	Dissolvable Authentication process loops when usernames with different case between external authentication source (like Google) and another (like LDAP).
662879	Installer prompts for accept on downgrade but requires old package rpm flag to work.
663052	Missing chap support causes FNAC Reject Radius Request for FGT VPN Client
663058	When re-scanning host using the Dissolvable Agent, a "Login failed" error displays.
663061	When authenticating via Local RADIUS, FortiNAC de-authenticates logged on user from a registered client via CWP connected to MAB SSID.
663130	AP Location is NOT detected via FortiNAC Policy despite the RADIUS Request including Called-Station-Id. "AP-Physical-mac:SSID"
663463	Profiled Devices view is showing devices that were not profiled
663486	LDAP search filters not working correctly with non-ASCII characters.
663497	FortiNAC generated telnet results in malformed packet
663502	Added support for newer Cisco WLC devices that have enable passwords configured.
664301	Rogue DHCP Server Detection not working
665244	iOS MAC randomization is now disabled through the application of a Supplicant Configuration. This requires configuring an EasyConnect policy to match iOS devices during registration.
665680	Device Profiler mapped Cisco IOS as Mac OS X
665846	Local RADIUS ignores VLAN-switching groups (Forced Registration, Forced Remediation, Role Based Access, etc).
666543	L3 HA: Secondary (In Control) replies to DNS inquiries with Primary (Not In

Ticket #	Description (8.8.2.1714)
	Control) ETH1 IP address.
666556	Null Pointer Exception in Device Server when debug is enabled
666595	FortiGuard IoT scan displays error message even though the scan passes.
667143	Master loader crashing after removing "RADIUS EAP a9..." from TLS Service configuration (PA Transport Configuration)
667406	Discovery throws exception if sysName is an IP address
668057	Support for custom port setup previous versions using CLI (instead of defaulting to Port 22)
668607	FortiNAC may not have permission to read/write /etc/dhcp/dhcpd.conf after OS updates
668952	Method calls from a pod to the NCM over CORBA are prone to hanging
669166	Multiple Devices required support via email
669449	FNAC is sending FSSO tags incorrectly to uninitialized FGTs.

Version 8.8.1

Ticket #	Description (8.8.1)
557253 520262	ARP entry for Virtual IP (VIP) is not updated after L2 High Availability failover.
588289	A single SSH/Telnet session is now used to read all VRFs on Passport VSP routers
588568	Container field only updates on a reconnect to the network
588911	Support for port-channel interfaces for Cisco switches.
594874	When modeling Cisco devices, if the firmware version is higher than what FNAC currently supports for mapping, the closest match will be used.
600359	Hosts registering using Anonymous Authentication do not change networks until the next L2 Poll occurs
614353	Debug value of "null" causes switch to not load rest of model configuration and affects radius
638109	Vulnerability Scanner integration with Tenable/Nessus not functioning due to new API with authentication changes
657943	Upgrade to JSch 1.55 broke Cisco Sx300 SSH
638810	Incomplete ARP(IP -> MAC) information when L3 polling FortiGates with multiple VDOMs.
640663	Add SSH/Telnet Port field in CLI Credentials

Ticket #	Description (8.8.1)
640852	Inaccurate L2 information when authentication is enabled on Alaxala switches
642039	FortiNAC sends RADIUS rejects when client connects to FortiSwitch managed by FortiGate. Connections to FortiAP managed by the same FortiGate are unaffected.
642810	Operating System Updates Fail On Application Server version 8.8+
644391	When attempting to disable a host record that does not exist in the FNAC database via API, FortiNAC will create the host record then disable it. Previously, the API attempt would fail.
644627	Clients connecting over VPN do not always get presented with the VPN context in Captive Portal
645990	Discovery Code should strip off domain names of .local when it creates a device
647181	Windows device profile not parsing correctly, causing a failed match
647193	Logging on a User does not trigger a VLAN Switch until a L2 Poll
647211	FNAC not sending user information to Palo Alto firewalls. This prevents User-ID information from appearing in the Palo Alto logs when integrated with FNAC.
647674	Voice VLAN tag being removed from Huawei hybrid switch port when changing data VLANs.
649946	Added 2 new REST Services: AgingService and LogReceiverService
649974	FGT returning the wrong ARP value when multiple found.
650225	Aruba IAP SSIDs are not preserved when failed to read SSIDs
650976	Added properties API calls to Network Device Service: api/v2/device - get currently set network device configurations api/v2/device - set device properties
651347	Local RADIUS MAC Authentication with no EAP accepts without further processing
651375	Cisco WS-C3850 not correctly mapping as hybrid wired/wireless device. Note: This device model now appears in Topology as a wireless model since it can act as both a switch and wireless device.
651391	If FortiNAC is pending authorization in the Security Fabric, the FortiNAC icon now displays on FortiOS. Previously, it was a generic icon.
651461	Default RadiusAttributeGroups were being created without values if freeradius failed to install during upgrade to 8.8.
651470	Improved handling of Local RADIUS Settings and certificates if freeradius installation fails during upgrade to 8.8.
651846	Clients not properly disconnecting and switching VLANs on Aruba Wired Switches using RADIUS Authentication. This is due to FNAC not including the User-Name in the disconnect request.
652022	FNAC keeps disconnecting wired client using local RADIUS, and fails to convert wireless access value for CiscoWLC using redirect properties.
652156	FNAC not sending tag/group info via FSSO to FGT for non-root VDOMs.

Ticket #	Description (8.8.1)
652770	FNAC doesnt read sessions properly on some legacy Aruba WLC devices.
653342	Local Radius mode ignored on FortiGate
654510	The Remove Host and Adapters button doesnt work in the Locate View
655310	Administration UI produces 500 errors within advanced scan controls when attempting to manipulate security actions
655485	When Self Registration without a sponsor is configured to notify via SMS, the message includes"Sponsor: null"
655543	Fixed PEAP/EAP-TLS in Local RADIUS Server.
655609	Fixed Qualys vulnerability scanner integration
655801	Added Device Profiler Service to REST API (GET and POST for URL api/v2/settings/device/device-profiler).
655820	Includes agent 5.2.4
656100	Internal Server Error 500 pop-up when saving modified LDAP settings
656180	Device Profiling fails to match DHCP vendor class
656205	Increased max RADIUS attribute response value length from 64 to 253 characters.
656492	FortiGate 100F on FortiNAC 8.7.4 discovered as a FortiGate 100E
656763	FSSO tags were being sent to the wrong FGTs, mostly at startup, but also when no FGT could be found for an IP.
656769	Added new Fortinet Vendor Specific Attribute (VSA) Fortinet-Host-Port-AVPair 42 string
656978	Added API calls to limit registered hosts per user (GET and POST for URL api/v2/user/allowed-hosts).
656980	FortiNAC is not sending FSSO tags to the FortiGate
656981	Read Only admin can enable/disable an adapter
657392	Added radius.log to the files collected via grab-log-snapshot script.
657487	Add ElementInfoFactory logging to RadiusAccess
657735	Radius Accounting-Stop handling does not work.
657839	Error generated when synchronizing Control Manager (NCM) with PODs if a device profiler rule is configured for "Register as a Device in Host View and Topology"
657943	Upgrade to JSch 1.55 broke Cisco Sx300 SSH
657948	Local RADIUS fails with Null Pointer Exception when there's no Called-Station-Id Attribute sent.
658210	Access-Reject is sent when using the Local RADIUS Server with an Access-only supported device and no applicable access policy.
658219	RADIUS Mac Authentication (MAB - NO EAP) is not working

Ticket #	Description (8.8.1)
658531	If freeradius install is required on startup, it now occurs before RADIUS attribute groups would be created.
658621	Radius Acct Stop handling thread (RadiusDisconnectThread) exits unexpectedly
658882	Local RADIUS EAP Server Certificate isn't deployed when uploading with "Use private key of last CSR" option.
659364	FortiLink Local RADIUS not being processed, always Rejects
659410	Local RADIUS Auto-Registration not limited to 802.1x (which it should be)
659570	FortiGuard IoT Device Profiling method not working on hardware appliances.
661157	"attributeType is out of bounds" exceptions in output.master
661759	When using the Dissolvable Agent, errors in handling are reported as "Success" to the user.
0654133 0655540	Local RADIUS Test credentials not handled properly (PAP)
623528 623534	Brocade type 7(MOVE) trap is processed incorrectly & showArp table parsing issue

Version 8.8.0

Ticket #	Description (8.8.0)
631164	Fortiguard IoT service
581244	Support for Jamf MDM for Apple devices including application information polling.
585369	Added RADIUS authentication support for HP J9729A and HP J8697A
599182	Added column for matching device profiling rule to the Adapter View
636385	Fixed Supplicant EasyConnect for Windows, macOS. It could not successfully create profiles or connect to the desired SSID.
625690	Fixed "Login" box being grey'd out on the Guest Self Registration page. This prevented user from being able to register after sponsor approval.
629260	Fixed communication issues between the NCM and pods
635285	Fixed issued where JAVA used 100% CPU and high memory
628958	Device Profile rule for Fortigate returned false positive matches
633909	Updated "bscftp" alias to connect to the correct location.
611585	Fixed issue with USB external adapter/dongle sharing between hosts. Agent technology can now be configured to remove adapters from the host record when the agent no longer detects the adapter connected.

Ticket #	Description (8.8.0)
	Note: This function is disabled by default and cannot be enabled through the Administration UI. Contact Support for assistance.
633541	Fixed Adapter Panel > Show Fortigate Sessions not filtering to the selected adapter
631627	Fixed adding or modifying the Firewall Tag using the direct configuration. Previously, this would result in "HTTP 404 Not Found" error.
631249	Fixed incorrect modification of property file by .masterPropertyFile.
612340	Added new Device Profiling method called "FortiGuard" which pulls IoT device information from FortiGuard based on the MAC address. Also added new Device Profiler settings to configure FortiGuard IoT service if desired.
633364	Fixed Device Profiler DHCP method where attempting to match hostnames with 'D*' was matching with letter contained in any position.
629949	Fixed potential database corruption when using Device Profiling Rules after upgrade from 8.6 to 8.7
632387	Fixed NMAP Scan Results Shows Wrong IP Address
632457	Fixed Run Nmap scan dialog title does not update with the current IP
631629	Fixed Hosts > Scan Results view not displaying any information regardless of the filter used.
631135	Maximum Concurrent License Count incorrectly displayed a number greater than the licensed count (typically 4 more). This has been fixed.
554910	Added the ability to read VLAN-Pool from Meru WLC
625316	Added Access Point Management service to REST API. The service covers the System > Settings > Control > AccessPointManagement view.
620438	Added Quarantine service to REST API. The service covers the System > Settings > Control > Quarantine view.
630825	Fixed Adapter View not showing IP address of the host. This was affecting the ability to Device Profile rogue hosts.
601846	Disappearing SSID Tab
629263	Fixed potential NullPointerException error when "FortiGate" Method was used in Device Profiling Rule. This issue could cause the rule match to fail.
624144	FSSO Tag is added/removed constantly which toggles the applied firewall policy
624227	Added ability to make certain POST API calls to the NCM
627666	Included FortiNAC Agent 5.2.3 in FortiNAC installer
617431	Enhancements made to Nozomi integration
611216	Changed how vlans are read/write on Juniper Ex 3400 switches
611593	FortiGate modeling error with eight linked FortiSwitches

Ticket #	Description (8.8.0)
612336	Fixed issue where Host IP address information was not updated correctly after completing registration. This affects wireless hosts connecting to the FortiWiFi and FortiAP.
619347	Added the ability for FortiNAC to be configured to respond to traffic using the same interface it was received (policy based routing). Required for VPN integrations and static IP environments. This function is disabled by default and requires configuration via CLI. Refer to the applicable VPN integration guide or contact Support for assistance.
621277	"User does not have permission for this operation" error when attempting to Set Expiration on multiple users.
627343	Added Criticality column in SharedFilterReport
614344	Syslog parse error and null pointer exception with FGT Syslog connection updates
608823	Added the ability to profile devices with a custom command line script.
612467	Added "Criticality" Column to the host, user and network device view. Used to set criticality level information to send to FortiAnalyzer for reporting purposes.
618248	Added RADIUS Authentication support for Aruba JL256A and HP J9727A
614069	Unable to read VLANs on Cisco 9000 IOS-XE
614172	Support for Arista "switchport access" and "switchport trunk" modes
614171	Arista.mib login sequence
598661	SNMP bsnMobileStationDeleteAction Client Disconnect Not Supported on WLC C9800
612433	FortiGate Add/Move/Delete Syslog messages are not processed
608224	grab-log-snapshot sometimes doesn't gather the correct master_loader logs
609372	High cpu/load averages on control server
603302	Added SNMP option for reading VLANs for Extreme devices. Enabling this option can improve VLAN read times on switches that support dot1qPvid.
626009	Set Model Configuration view non-functional
592597	FortiNAC cannot L3 poll Fortigate FortiGate-201E v6.0.5, build0268, 190507 (GA)
609641	Added "Rogue Evaluation Queue Size: NNN", "Details" button and "Flush" button to the Device Profiling Rules view to provide better visibility and control over the rogue evaluation queue.
614351	Fixed potential database corruption issue when using Device Profiling Rules with custom DHCP fingerprints.
611982	Meraki SSIDs are removed when they are set to disabled on the AP
615921	Security Fabric > REST API request to /api/v2/host/disable-by-mac returns HTTP status 403 (Forbidden)
609346	Bulk Device support via email mappings
617120	FortiNAC periodically does not gzip backup files on the Secondary HA Server.

Ticket #	Description (8.8.0)
618977	OutOfMemoryError caused by unpacking a fragmented NSTD_MSG_SYNC_GLOBAL_VIEW_REP packet
624908	Config Wizard not displaying UUID and eth0 MAC address
620852	DHCP Fingerprint additions and updates
614497	PODs are not synchronizing in NCM GUI
520795	Location Based Policy Not Matching Due to SSID Name Containing ":"
607069	Fixed NCM Endpoint Compliance Policy Syncing issues
608451	Fixed alarms failing to trigger over time when any alarm was configured with an event frequency of "0" events occurring within X hours.
623776	Under System Updates, if the SFTP protocol is selected, an error dialog will display when attempting to save or test with any names where SFTP access is no longer supported to download code. Other names or IP addresses can still be configured to use SFTP.
605485	Additional clean ups and expansions to the REST API
612106	DHCP fingerprinting on ETH1 interface is not working
606514 608202	Fixed connection issue between Control Manager and managed FortiNAC servers. Previously, this condition could cause the following behavior: - Management processes on the Control Manager to report "down" - Managed FortiNAC servers to stop processing RADIUS authentication packets
625759	Device Profiler errors on Active scan
586523	Fixed DNS behavior when system fails over in L3 High Availability configurations. Previously, the Secondary Server (in control) was replying to DNS inquiries with the Primary Server ETH1 IP address. This caused DNS resolution to fail for isolated hosts.
609013	FortiNAC is sending an incorrect serial number to FortiGate via CSF
618003	FortiNAC is replying with the wrong path to FortiGate via CSF
611540	Fixed Apply to Group drop down menu under SSO Agent options in the FortiGate model Elements tab. Previously, this menu was grayed out when the "Apply to Group" check box was selected.
617063	Uncompressed database backup replication to secondary causing 100% Disk usage
607953	Fixed DeviceImport tool throwing "Unable to parse line" exception when a blank line is encountered in the CSV.
608211	Admin Profile Manage Hosts and Ports setting not being saved
615996	Attempting to disable a host by IP Address using the REST API fails if the host is offline.
619028	API calls that result in a 4XX error returning a status message of "Success"
622104	Added Mac Address Exclusion Service to REST API
622034	Fixed files in /var/named/chroot/etc not replicating to the secondary properly

Ticket #	Description (8.8.0)
606802	PA Communication State flag reliability improvements
612701	Unable to access REST API URL /api/server with an Administrator user (ie root).
606532	Cannot export XML for Device Profiling rules
573085	Update REST API to run globally from the NCM vs. each pod
608203	Added Lockout Threshold and Duration for Admin user login for failed login attempts to the Administration UI.
608199	Device Profile Rules of type ONVIF throw status of 500 (Internal Server Error) on export to XML
612743	Changed default inactivity time in the Administration UI to 5 minutes
608520	Renamed "FortiGate Telemetry" to "Security Fabric Connection" in Settings view
609297	FortiNAC takes a long time to recognize when a FortiGate connection has closed
608551	Fixed Log Receiver Syslog Facility not displaying in the Settings view.
607526	AutoCompleteManager exceptions in catalina.out
608824	Added new methods to retrieve a HostRecord from an IP or MAC Address.
608458	Add Logical Network dialog - enter key closes view but does not create entry
604996	Fixed a bug which prevented setting the port in the WinRM method configuration of Device Profiling Rules.
603333	Fixed HPE OfficeConnect 1950-48G VLAN change method.
5933780	FortiNAC now deletes the groups when the conference is either deleted automatically or when an admin deletes it.
601597	Fixed NullPointerException in tomcat-admin catalina.out when accessing Logs > Connections
605778	Fixed issue where Settings > Credential Configuration > Persistent Agent > RADIUS/LDAP used Local instead of LDAP. Previously, the Persistent Agent did not register hosts when this option was selected.
605036	Added Security Actions to System > Groups > In Use
601560	Changed the field Serial Number if FortiAnalyzer is selected as a type in Log Receivers.
605952	Fixed remove group methods in Role, RoleMapping and Profile
589236	Fixed sync issues with pods due to duplicate groups
606993	Fixed distribute of updates from NCM to pods. Previously, attempting to use the Distribute button in the NCM Administration UI would fail with a 500 error code.
607248	Fixed issue with VLAN reads and VLAN switching for Aruba SSeries DLink and HP WX Wireless
582519	Cisco C2600 routers with 16 port Ethernet card not reading VLANs or Updating MAC address information
579289	Cisco 2901 routers with 8 ethernet port cards do not update connection information after L2 poll

Ticket #	Description (8.8.0)
638344	Fixed firewall session polling. Previously, it was generating a null pointer exception in the master logs.
637327	Removed check for FortiAnalyzer serial number
637280	Added code to fix Device Profiling Rule rankings if corrupted
631121	Add Wired RADIUS integration with Aruba/HP 2900 series
612477	Changed the default value for "Collect Application Inventory" to false for new Endpoint Compliance Configurations.
635431	NCM Host view doesn't load properly for a pod in High Availability that has failed over.
606177	JAVA use 100% CPU and high memory
635285	
633491	Fix Error when saving a TLS Service Configuration with "Automatically Update Ciphers And Protocols on Upgrade" set. The modify dialog would not open until after FortiNAC was restarted.
622827	Cisco devices with no defined VLANs fail to read L2 data with SNMP

Device Support

These changes have been made in FortiNAC Version 8.8.4. These are in addition to the device support added in 8.7 and previous releases.

Version 8.8.4

Ticket #	Vendor (8.8.4)
673042	Huawei S5720-28X-PWR-SI-AC
684702	Fortigate 80F
685957	HPE OfficeConnect Switch 1920S 8G PPOE+
686918	Alcatel-Lucent Enterprise OS6860-24 8.6.289.R01 GA ATI AT-8000S Cisco IOS Software [Fujii], ISR Software (ARMV8EB_LINUX_IOSD-UNIVERSALK9_IAS-M) FL.10.04.0020 HP 1910-8G-PoE+ (65W) HPE 1950 24G 2SFP+ 2XGT PoE+ Meraki MR46E Cloud Managed AP SG350X-48P 48-Port Gigabit PoE Stackable Managed Switch S5720-52X-PWR-LI-AC TL.10.04.0030
688815	FortiGate models 6-2_400e_bypass 6-2_100f_p2 6-2_80f_p2_merge 6-2_fgr60f_p2 6-2_200f_npi 6-2_np7_trunk – 180XF/260XF/420XF/440XF

Version 8.8.3

Ticket #	Vendor (8.8.3)
653210	Huawei AR550E
673041	Extreme/Avaya/Nortel VSP-8404C
673043	Huawei model S5720-12TP-PWR-LI-AC

Ticket #	Vendor (8.8.3)
673634	Cisco C1000
	Dell EMC Networking N1148T-ON
	HPE FF 5940 48XGT 6QSFP28 Switch
	Aruba JL693A 2930F-12G-PoE+-2G-2SFP+ Switch
	Cisco C9800
	Aruba7024-US
	HPE 5130 48G PoE+ 4SFP+ 1-slot HI Switch JH326A
	Juniper Networks, Inc. qfx5110-32q Ethernet Switch, itelligence, Inc.
	Alcatel-Lucent Enterprise OS6860-24
	ExtremeXOS X670G2-48x-4q
	Juniper Networks, Inc. ex4300-48mp Ethernet Switch

Version 8.8.2

Ticket #	Vendor (8.8.2)
662090	Aruba WLC ArubaMM-HW-5K
663957	Alcatel R8 switches 6560(Vlan switching)
665441	HP FF 5700-48G-4XG-2QSFP+ Switch
665443	Cisco Catalyst 9606R
665445	Cisco Catalyst 9800-80 Wireless Controller
665448	HPE OfficeConnect switch 1820 24G J9980A

Version 8.8.1

Ticket #	Vendor (8.8.1)
648463	Ruckus ICX7250-24-HPOE
648464	Palo Alto Networks Panorama server
648465	Dell Force10 S4048-ON series switch

Ticket #	Vendor (8.8.1)
648467	Cisco Catalyst C9404R
648484	Arista switch (DCS-7160-32CQ)
649227	Added support for new H3C Mac Notify trap
651337	Added RADIUS device support for Aruba JL258A 2930F
652378	Meraki AP models: MR36 Cloud Managed Indoor AP MR46 Cloud Managed Indoor AP MR56 Cloud Managed Indoor AP MR76 Cloud Managed Indoor AP MR86 Cloud Managed Indoor AP
653965	Aruba CX 6300F
656976	Ruckus ICX7850-32Q Cisco IOS IE4000 Arista Networks DCS-7050SX3-48YC8 Aruba 9004 OfficeConnect Managed Fast Ethernet PoE Switch
659307	Extreme Router XA1480
660768	Fortigate Fgt40F
661770	FortiGate Models: FG41FI FGT1100E FGT2201E FGT3300E FGT3301E FGT3400E FGT3401E FGT3600E FGT3601E FGT41F FGT5001E FGT5001E1 FGT60EV FGTVM64ALI FGTVM64ALIONDEMAND FGTVM64AZUREONDEMAND FGTVM64GCPONDEMAND FGTVM64IBM FGTVM64OPC

Ticket #	Vendor (8.8.1)
	FGTVM64RAXONDEMAND FOSVM64HV FOSVM64XEN FW40FI FW41FI FWf40F FWf41F FWf60EJ
625353	ArubaOS-CX 6300 switch ArubaOS-CX 6405 switch
657680	Cisco C1111-8P router Cisco C1111-4P router

Version 8.8.0

Ticket #	Vendor (8.8.0)
614170	Arista Networks CCS-720XP-48Y6
624552	ArubaOS (MODEL: 515) - 14823.1.2.107
605015	Aruba IAP device
590256	Aruba 8400 Switch
623860	ArubaOS (MODEL: 304), Version 6.5.4.3-6.5.4.3
627031	Catalyst C9407R 9.1.2500 firmware IOS-XE16.9 missing
631140	Modeling Cisco 3750 stack; the model is locked and remains locked - java.lang.NullPointerException
631478	Cisco switches(9.1.2364 and 9.6.1.82.48.2)
630780	Cisco Catalyst L3 Switch (CAT3K_CAA-UNIVERSALK9-M)
627260	Cisco ASA Firepower models 2130,
613010	Cisco Catalyst 9300 (IOS-XE.16.6) unsupported - mapped to wrong MIB
613732	Cisco IE3x00-UNIVERSALK9-M IOS 16.12
613094	Cisco IOS Software, IOS-XE Version 03.11.00.E
616212	Cisco IOS Software [Fuji], ISR Software (ARMV8EB_LINUX_IOSD-UNIVERSALK9_IAS-M)
618251	Cisco IOS Software, IE2000 Software (IE2000-UNIVERSALK9-M) -

Ticket #	Vendor (8.8.0)
	9.1.1729
618986	Cisco IOS Software (C3560CX-UNIVERSALK9-M) - 9.1.2133
616197	Cisco router C1111-4P
610565	Cisco IOS Version Mapping
634583	Cisco IOS-XE 16.8 support
610682	Cisco IOS-XE.03.11
624554	Cisco SG300-52 52-Port Gigabit Managed Switch
622817	Cisco Adaptive Security Appliance Version 9.12(3)9
618987	Dell S4048T-ON switch
630837	Extreme switch vm386EXOS (1916.2.291)
615527	ExtremeXOS (X440-8t) version 16.2.2.4 - 1916.2.172
631274	Fortigate 61F series
606537	FortiGate 6000F in FortiNAC
634251	FortiGate FWF60EV
615097	Added FortiSwitch missing models to the supported list
623433	Hirschmann (Now Belden) Switches
615555	HPE A5120-24G-POE+ SI Switch Software Version 5.20 - 25506.11.1.15
624558	HPE 5120 24G POE+ (370W) SI Switch - 25506.11.1.253
607718	HPE 5130-48G-PoE+-2SFP+-2XGT
608214	HP 1920G Switch
604560	HP 5900AF-48G-4XG-2QSFP+ Switch
623122	ISW 4-10/100P, 2-10/100T, 2-SFP, PoE Switch - 1916.2.240
616223	Meraki MS125-48LP Cloud Managed PoE Switch - 29671.2.374
615559	Meraki MS125-24P Cloud Managed PoE Switch - 29671.2.372
623858	Meraki Cloud Managed AP
554929	Mist wireless integration
608540	Support for Motorola Wing 5 NX5500 Wireless Controller
627368	Checkpoint support for OID 1.3.6.1.4.1.2620.1.6.123.1.69
627369	Checkpoint support for OID 1.3.6.1.4.1.2620.1.6.123.1.37
554907	Ubiquiti Unifi Wireless

System Update Settings

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

Field	Definition
Host	Set to update.bradfordnetworks.com
Directory or Product Distribution Directory	Systems running version 8.3.x and higher: Set to Version_8_8 Systems running version 8.2.x and lower: Set to Version_8_8_NS
User	Set to updates (in lowercase)
Password	Keep the current value.
Confirm Password	Keep the current value
Protocol	Set to desired protocol (FTP, PFTP, HTTP, HTTPS) Note: SFTP has been deprecated and connections will fail using this option. SFTP will be removed from the drop down menu in a later release.

End of Support/End of Life

Fortinet is committed to providing periodic maintenance releases for the current generally available version of FortiNAC. From time to time, Fortinet may find it necessary to discontinue products and services for a number of reasons, including product line enhancements and upgrades. When a product approaches its end of support (EOS) or end of life (EOL), we are committed to communicating that information to our customers as soon as possible

End of Support

Agent

Versions 2.x and below of the Fortinet Agent will no longer be supported. FortiNAC may allow the agent to communicate but functionality will be disabled in future versions. Please upgrade to either the Safe Harbor or latest release of the Fortinet Agent at your earliest convenience.

Fortinet Mobile Agent for iOS will no longer be supported. It will be completely removed in a future version. EasyConnect features are not affected as they do not require an agent on iOS.

Software

When a code series has been announced End of Support, no further maintenance releases are planned. Customer specific fixes will still be done.

Hardware

Physical appliance hardware reaches end-of-support when the maintenance contract is non-renewed, or at the end of year 4 (48 months beyond purchase date), whichever is first.

Appliance Operating System

Fortinet relies on the CentOS organization to publish periodic bug fixes and security updates for the CentOS Distribution.

CentOS 5

Effective March 31, 2017, CentOS will no longer provide updates for CentOS 5. Any vulnerabilities found with CentOS 5 after March 31st will not be addressed. FortiNAC software releases will continue to be supported on CentOS 5 through December 31, 2018.

As of 2016 Fortinet's appliances are based on the CentOS 7 Linux distribution. New appliance migration options are available for customers with CentOS 5 appliances who require operating system vulnerability patches, maintenance updates and new features available on CentOS 7.

CentOS 7

Effective June 30 2024, CentOS will no longer provide updates for CentOS 7. Any vulnerabilities found with CentOS 7 after June 30th will not be addressed.

FortiNAC and Analytics software releases will continue to be supported on CentOS 7 through December 31 2026 or end of product life (whichever comes first). See Product Life Cycle chart for details.
(<https://support.fortinet.com/Information/ProductLifeCycle.aspx>)

End of Life

Software

When a code series has been announced End of Life, no further maintenance releases are planned. In addition, customer specific fixes will not be done. If experiencing problems with a version of FortiNAC in the code series, you would be required to update before any issues can be addressed.

With the release of FortiNAC Version 8.5.0, Fortinet announced the End-Of-Life for FortiNAC 8.1. Existing customers under maintenance are strongly encouraged to upgrade to the current Safe Harbor release.

Considerations are as follows:

- FortiNAC Versions 7.0 and higher are not supported on appliances running firm -ware Version 2.X (SUSE) because of the limitations of this operating system and the hard ware on which it is installed. Please contact your sales representative for hardware upgrade options.
- If you attempt to install FortiNAC Versions 7.0 and higher on an unsupported Operating System and hardware combination, the install process displays the following message: "This release is not supported on 1U SUSE Linux appliances (firmware 2.x). The install process will exit now. Please contact Fortinet at: +1 866.990.3799 or +1 603.228.5300"
- On July 13, 2010 Microsoft ended support for Windows 2000 and Windows 2000 Server. These Operating Systems will be removed from the list of options in the Scan Policy Configuration screens in a future release.

Numbering Conventions

Fortinet is using the following version number format:

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

Example: 8.0.6.15

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



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