NGS Series V9.0.2.4 Update Content

Applicable models

NGS 1U Full range

Applicable versions

9.0.2.4 (d49483e36a2ca3de8ee3880cb2a68d9ec3a70a15 / 1f344f647e56430ff1f59e98d059a3c14d6aeba5)

HASH

md5 : e46beee95ef2c0ff2c4f67e482534f0e

sha1 : c9574f13ddf2afc57440aa25f205d3079c31f7f0

sha256 : 90ab4d476e1ee2705dd8e64118179041cbcf37e0ef38e01711fc3a9030aa9c09

Precautions

After the software is updated, the system will automatically reboot (twice), which takes about 3 to 5 minutes.

Updates

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[System Settings]

[Basic Settings]

- **Adjusted the "Administrator Password Customization Rules/Administrator Account Two-Step Verification Rules" feature under [Administrator Interface Access Settings] to move to [System Settings > Administrator > Account Security Settings].**

[Time Settings]

- **Fixed an issue where selecting "Asia/Riyadh" for "Time Zone" would cause errors in [Backup & Restore > System Backup].**

[Administrator]

- **Added a new [Account Security Settings] feature, including the following:**

- "Administrator Password Customization Rules"

- "Administrator Account Two-Step Verification Rules"

● Adjusted [Account Management] [Add/Edit] > "Two-Step Verification" to include QR code display and a "Verification Code Test" feature.
● Adjusted [Account Management] [Add/Edit] > "Password" to allow characters such as ',' ':' '/', and spaces.
● Fixed an issue in [Admin Account] when restricting accounts to only access [Network Settings > Network Interface]/[Network Settings > PPPoE Dial-up]. .
● Fixed an issue where the actual expiration date in [Manage Accounts] > "Account Expiration Date" was one day less than the set date.

[Backup and Restore]

● Adjusted [System Backup and Restore] > "System Backup" to include the certificate file in [System Settings > SSL Certificate Settings].
● Adjusted [System Backup and Restore] to add the high availability role information to the backup file name when [High Availability] is enabled.
● Fixed an issue where the [System Settings > UPS] logs were not cleared after "Restore Factory Defaults".
● Fixed an issue where the [IPS] logs were not cleared in some cases after "Restore Factory Defaults".

[AP Management]

● Fixed an issue where some APs experienced control malfunctions after a firmware update.

[Package Management]

● Adjusted: Removed the "Kaspersky" setting, enabled the package by default, and changed the authorization setting to [Network Services > Antivirus Engine].
● Adjusted the "Package Name" to display the function name according to the language.

[Message Notification]

● Adjusted the "Minutes" notification setting for "Administrator Account Login Error Events" in [Notification] > Added a "Firewall Permanent Block" setting.
● Added the "Let's Encrypt Automatic Application Result Notification" setting in [Notification] > Added a "IPS Logging" setting in [Notification] > Fixed an issue where notifications were not sent under some circumstances under "Notification] > "Line Disconnection".
● Fixed an issue where notifications were not sent under some circumstances

under "Notification] > "HA Status Switchover and Data Synchronization Abnormalities".

- Fixed an issue where notifications did not function properly after restoring a backup in some cases.

[Restart & Shutdown]

- Fixed an issue where "Auto Restart" did not function correctly in some cases.

[AP Management]

- Added support for AP models WAX620D-6E, NWA50-AX-PRO, NWA130BE, and NWA90-AX-PRO.
- Added support for [AP Management] "802.11 k/v Roaming" feature settings. (Displayed only for supported AP models)
- Fixed an issue where the "Online Users" field in [AP Management] did not display information correctly in some cases.
- Fixed an issue where some APs experienced malfunctioning control functions after firmware updates.

[SSL Certificate Settings]

- Adjusted the "Let's Encrypt Certificate" > "Local DNS Server - Auto-Renew" setting to include a "Log" function.
- Adjusted the display of a notification when a "Let's Encrypt Certificate" application fails.
- Fixed an issue where "Let's Encrypt Certificate" > "Local DNS Server - Auto-Renew" did not execute correctly.
- Fixed an issue where the "Let's Encrypt Certificate" > "Local DNS Server - Auto-Renew" setting did not display a prompt to change the certificate in some cases after verification of the "Let's Encrypt Certificate".

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- Fixed In some cases, the management interface service did not start after changing the certificate.

[Network Settings]

[Zone Selection]

- Fixed an issue where the prompt information was unclear when removing the HA

port without disabling the high availability service.

[Network Interface]

- Adjusted [IPv6] to remove the "Radio & DHCPv6" prompt information.
- Fixed an issue where the interface name contained spaces and the "DHCP Lease Expiration Date" message was not displayed.
- Fixed an issue where the "DHCP Lease Expiration Date" message was not displayed when the interface was set to DHCP.
- Fixed an issue where the IP address was not re-obtained when the network cable was reconnected after the interface was set to DHCP.
- Fixed an issue where the MAC address of a LAN (zone0) was duplicated with another interface when multiple ports were bound.

[Route Management]

- Fixed an issue where editing an "Outlet Line" would cause the related "Outlet Line Group" to be displayed as disconnected.
- Fixed an issue where "Outlet Line" In some cases, the disconnection status did not display disconnection or failover.
- Fixed an issue where, after changing the settings in [IPv6] [Egress Line] [Edit], routing was not changed according to the settings.
- Fixed an issue where, after executing [Delete] in [Egress Line Group], routing was not executed correctly, causing routing errors.
- Fixed an issue where, when setting "Load Balancing Mode" in [Egress Line Group] [Add/Edit] to "Prefer Low Interface Load," the applied control rules would not function correctly in some cases.
- Fixed an issue where, in some cases, changing the detection status or switching to "Backup" in [Egress Line/Egress Line Group] did not correctly change routing, causing connection errors.
- Fixed an issue where, in some cases, connection detection was not executed correctly in [Default Gateway].
- Fixed an issue where, in some cases, BGP routing information was not displayed correctly in [Dynamic Routing Table].

[PPPoE Dial-up]

- Fixed an issue where, in [Add/Edit], the password used the '#' character, causing connection failures.
- Fixed [Edit] When deactivating a line, related linked settings were not correctly determined.
- Fixed an issue where incorrect information was displayed when executing the "Delete" command in some cases.

[WWAN Dial-up]

- Added support for the Huawei E8372h network card.
- Fixed an issue where incorrect USB access location information was displayed in some cases.

[IP Tunnel]

- Fixed an issue where IPsec connections could be connected even if the "Key" on both ends was incorrect when using encrypted mode.
- Fixed an issue where the interface displayed abnormally when adding the 11th setting.
- Fixed an issue where connecting to the peer management interface via IP tunnel was unavailable.
- Fixed an issue where obtaining tracert information via a tunneled line failed.

[Interrupt Settings]

- Adjusted [Hard Interrupt Settings] > [Enable Interrupt Data Loading] to display the total interrupt data.

[Control Regulations]

[Control Rules]

- Added the [IP/Port Mapping Overview] function to view service information configured for DNAT.
- Added the rule list Click "Maximum Connections Per Source IP" to view blocked records.
- Added "Traffic Quota" to the rule list, allowing you to click and view detailed records.
- Added query functionality to [Add/Edit] > "Source Network/Destination Network."

- Fixed an issue where some rules were not applied according to time in [Add/Edit] > "Schedule."
- Added a warning when a rule was not triggered when only IPv4/IPv6 IP addresses were set in [Add/Edit] > "URL Management."
- Fixed an issue where incorrect tip information appeared in the "URL Control" rule list.
- Fixed an issue where an error message would appear in some cases when the "Source Interface" and "Source Network" match in [Add/Edit].
- Fixed an issue where an error message would appear when selecting an address table group in [Add/Edit] > "Destination Network."
- Fixed an issue where adding "Application Control" or "URL Control/WEB(S)" rules in [Add/Edit] did not correctly indicate functional impact.
- Fixed an issue where the "Maximum Connections Per Source IP" setting under [Add/Edit] was not applying the source IP limit in some cases.
- Fixed an issue where the "Advanced" rule could not be moved to the "Outgoing" section when the source of the rule was an address table.
- Fixed an issue where a rule applying PPPoE as an outbound link would incorrectly drop packets to the default route if the link was disconnected.
- Fixed an issue where applying "Traffic Quota" to a rule using a bridge interface could cause unexpected crashes.
- Fixed an issue where "Traffic Quota" statistics were incorrectly displayed.
- Fixed an issue where the button color was incorrect when data was available under "Traffic Quota" > [Log].
- Fixed an issue where negative values appeared under "SYN Protection" > "Statistics".
- Fixed an issue where "SYN Protection" was not functioning correctly in some cases.
- Fixed an issue where ICMP packets could not be controlled when "Firewall Protection" was enabled in [IPv6].
- Fixed an issue where the rule application When the "Source Network" is SSLVPN, some cases may still cause packet entry issues even when the account is not connected.

[IPSec Control]

- Added a query function to [Add/Edit] > "Source Network/Destination Network".
- Adjusted [Add/Edit] > "Source Network"/"Destination Network" to allow selection of other IP information such as "Address Table/Address Table Group" as part of the settings.

[SD-WAN Control]

- Added a query function to [Add/Edit] > "Source Network/Destination Network".
- Adjusted [Add/Edit] > "SD-WAN" to add a prompt and prevent settings from being saved when "None" is set.
- Adjusted [Add/Edit] > "Source Network"/"Destination Network" to allow selection of other IP information such as "Address Table/Address Table Group" as part of the settings.

[Management Target]

[Address Table]

- Added a "Search" function to [Address Table Group].
- Adjusted Added a "Custom IP" filter option to the "Address Table Group" [Add/Edit] "Region" section.
- Adjusted the "Address Table Group" [Add/Edit] section to optimize the "All Members" filter and added an "IP Address" > "Custom" option.
- Fixed an issue where the prompt was not displayed correctly in some cases when the "Address Table" [Edit] setting could not be changed due to applied regulations.
- Fixed an issue where the "External Link List" setting in some cases in the "Address Table" setting was not updated regularly.
- Fixed an issue where the domain set in the "User Custom Domain/External Link List" setting in some cases in the "Address Table" setting was invalid.
- Fixed an issue where the MAC address setting "00:00:00:00:00:00" in the "Address Table" setting could not be saved.
- Fixed an issue where the "Address Table Group" setting did not work properly when there were duplicate IP+MAC addresses.
- Fixed an issue where the "Address Table Group" setting was invalid in some cases when the "Control Regulations" setting was applied.
- Fixed [IPv6] [Address Table] > [Address Table Import]: Incomplete settings after importing, causing an exception.

[Schedule]

- Fixed an issue where settings could affect connectivity even when no rules were applied.
- Fixed an issue where some settings would display blank.

[Bandwidth Management]

- Fixed an issue where, in the [Network Settings > Zone Settings] interface where bandwidth management was enabled, no notification was displayed when removing it.

[App Control]

- Added a "Whitelist" setting to [App Control], allowing you to exclude IP addresses from analysis and filtering.
- Added an "Automatically Check Package Version" feature to [App Control].
- Adjusted: Display "App Version" information and provide a prompt to update the version information.
- Adjusted: Optimized the settings interface for [Add/Edit].
- Adjusted: "Add/Edit" > "Data Sharing and Storage: Google Driver" to require other control items to block the setting prompt. (New version of the app)
- Fixed Fixed an issue where services were not running correctly in some cases.
- Fixed an issue where the "Source/Destination IP" information in some cases of [IPv6] logs was incorrect.

[URL Management]

- Fixed an issue where some URL whitelist blocking records in [Logs] displayed incorrect information.

[DNS Filter]

- Fixed an issue where [IPv6] logs were only retained for one day.

[Firewall Protection]

- Adjusted an issue in [Firewall Protection Log] where querying a large amount of data would cause an abnormally high system load.
- Fixed an issue in [Firewall Protection] where IP addresses that triggered "Permanent Block" were not correctly blocked in some cases.

● Fixed an issue in [Firewall Protection] > "Other Items": "Block Ping of Death Attacks" where some IP addresses were incorrectly blocked in some cases.
● Fixed an issue in which the local IP address of the firewall was sometimes blocked.

[Internet Authentication]

● Adjusted [Page Settings] > "Upload Logo" to increase the upload file limit to 5MB.
● Adjusted [Local User] "Name" to 64 characters.
● Adjusted [Local User] > "Import" to allow users to select "Replace" or "Ignore" when importing duplicate accounts.
● Adjusted [POP3, IMAP, RADIUS Users] > "Edit" > "Import" to allow users to select "Replace" or "Ignore" when importing duplicate accounts.
● Adjusted [POP3, IMAP, RADIUS Users] > "Import" to allow users to select "Replace" or "Ignore" when importing duplicate accounts. Added a new "User Account" sorting feature in "Edit" > "Server Member Settings" for RADIUS Users.
● Added the "AD Sync Lost Accounts" feature in "AD Users" to view a list of unsynchronized accounts.
● Fixed an issue where settings could not be saved when using symbols (',',) in "Add/Edit" > "User Password" for Local Users.
● Fixed an issue where account deletion in some cases in "Local Users/POP3, IMAP, RADIUS Users" could fail to execute or not display a prompt.
● Fixed an issue where SSLVPN accounts were not updated in some cases in "AD Users".
● Fixed an issue where connection could not be successfully established in some cases in "AD Users" when using SSL authentication.
● Fixed an issue where an error warning would appear when editing a group name in "User Groups" when using symbols.
● Fixed an issue where the certificate-related message window did not pop up when adding an account to a group that already had "SSLVPN Group" applied.

[Network Services]

[DHCP]

● Adjusted [DHCP Server] to now allow you to specify different IP addresses for the

same interface in different zones when setting the "802.1Q" interface.

- Adjusted [DHCP Server] > "Interface" to remove the option for the external network interface.
- Fixed an issue where, in some cases, the DHCP server information obtained on the client device was not the local IP address of the device.
- Fixed an issue where, in some cases, errors occurred in the [DHCP User List].
- Fixed an issue where, in some cases, the IP address set to "DHCP Fixed IP Address" was still assigned.

[DDNS]

- Adjusted to optimize background updates to increase update efficiency.

[Virus Engine]

- Adjusted [ClamAV Engine] to update to version 1.0.6.
- Adjusted [Kaspersky Engine] to stop updating the virus database after the license expires.
- Fixed an issue where, in some cases, the management interface could not connect when the [Kaspersky Engine] service was started.
- Fixed Fixed an issue where web browsing may not work properly in some cases when the [Kaspersky Engine] is enabled.

[Sandstorm]

- Added support for offline updates, allowing you to import signatures via file upload or USB.
- Fixed an issue where [Sandstorm Logs] would not generate records when the [DNS Filter] triggers a Sandstorm project and the IPv6 connection is used.
- Fixed an issue where signature updates would continue to fail in some cases.

[WEB Service]

- Added a setting for "Encrypted Connection Settings" > "Disable SSL Decryption."
- Fixed an issue where changing the setting in [WEB] > "Certificate Installer Settings" > "Redirection Port" did not take effect.
- Fixed an issue where downloading the Certificate Installer in some cases failed in [WEB] > "Certificate Installer Settings."
- Fixed an issue where Chinese characters appeared in non-Chinese language documents in [WEB] > "Installation Help."
- Fixed an issue where the "Remote Download" function did not work properly in

some cases when running the Certificate Installer.

[High Availability]

- Fixed an issue where the DHCP interface in [Network Settings > Network Interface] was still active while the Backup device was in standby.
- Fixed an issue where the "Mode 3" rule in [Management Target > Schedule] did not work when the Backup device was in service.
- Fixed an issue where system scheduling errors occurred after performing [System Settings > Backup and Restore > Restore to Factory Defaults] on the Backup device.
- Fixed an issue where the color of the "Current Detection Status" > [Record] button did not match the data status.
- Fixed an issue where enabling the "Auxiliary Detection Interface" caused system scheduling errors in some cases.
- Fixed an issue where the "Last Data Synchronization Time" > [Record] button displayed incorrectly in some cases.
- Fixed an issue where the synchronization process did not run in some cases.

[Remote Log Server]

- Fixed an issue where data in the "Intranet Protection Log" was duplicated.

[Advanced Protection]

[Switch Management]

- Added support for switch models Zyxel GS1900-24HP, Zyxel GS1915-24E, Zyxel XGS1930-28. (SNMP)
- Added support for the PROSCEND 850X-28, PROSCEND 850G-12I, and VOLKTEK 8015-8GT-I switch models. (Collaborative Defense)
- Fixed an issue where [Switch Settings] > [Auto Search] did not work properly in some cases.
- Fixed an issue where [Switch Settings] could not delete settings in some cases.
- Fixed an issue where [Network Status Map] could not update in some cases.
- Fixed an issue where [Network Status Map] could incorrectly display link ports and layers in some cases.
- Fixed an issue where [Network Status Map] did not display IP information in some cases.

[Intranet Protection]

- Adjusted the minimum value of "Arp Packet Threshold" in [Protection Settings] to 10.
- Fixed [Arp Logging] Even though the number of packets does not exceed the configured value, logging still occurs.
- Fixed an issue where an error occurred when switching pages in [Arp Log] in some cases.
- Fixed an issue where binding duplicate MAC addresses in the address table in [Mac Conflict Log] would trigger logging.
- Fixed an issue where the displayed information in [IP Conflict Log] was unclear.

[IPS]

[IPS Settings]

- Added the [IPS Notification Item] feature setting.
- Added the "Rule ID" and "CVE" fields to the rule display.

[IPS Log]

- Added the "Rule ID" and "CVE" fields to the log list.
- Fixed an issue where blocked connections were not logged in some cases.
- Fixed an issue where logging was not generated in [IPv6].

[WAF]

[WAF Settings]

- Added the "Support WebSocket" feature setting in [Website Management].
- Fixed an issue where changes to the "Log/Block" setting in a rule in some cases did not take effect in [WAF Settings].
- Fixed an issue where settings did not take effect after executing [Website Management] > [Import].
- Fixed an issue where WAF rules could not be properly connected in some cases.
- Fixed an issue where the WAF service could not be started in some cases.

[WAF Logs]

- Fixed an issue where WAF Logs did not generate logs after blocking in some cases.

[Email Management]

[Email Filtering and Logging]

- Fixed an issue where blocking would still occur even when [SMTP Block IP] was disabled.

[Spam Filtering]

- Fixed an issue where the language of the notification message in [Spam Notification] was incorrect.

[Email Log Query]

- Fixed an issue where [Allow] did not work properly in some cases.
- Fixed an issue where the "File Size" information in [Details] > "Attachment Files" was incorrect in some cases.
- Fixed an issue where USB log data could not be retrieved in some cases.
- Fixed an issue where sender information was not displayed correctly in some cases.

[SMTP Log Query]

- Fixed [SMTP Communication Log Query Results] > [Details] displays a blank page.

[Content Log]

[Web Log]

- Fixed an issue where the IP address displayed incorrectly in some cases under [Today's Web Virus Log/Web Virus Log Query].
- Fixed an issue where the "Internet Authentication Account" field displayed incorrectly.

[VPN]

[IPSec Tunnel]

- Adjusted "Multi-channel Mode" to display status information for disconnected segments.
- Fixed an issue where the backup link could not be switched correctly when WWAN was selected as the backup link.
- Fixed an issue where packets could not be transmitted even though the connection was established.

[PPTP Server]

- Fixed an issue where the Chinese characters could be entered in the [PPTP Account List] account, causing errors.
- Fixed an issue where the actual expiration date under [PPTP Account List] > "Account Expiration Date" was one day less than the set date.

[SSL VPN]

- Adjusted [SSL VPN Settings] > "Modify Server Settings" to add field-related prompts.
- Adjusted Added a prompt during the [Client SSL VPN List] > [Re-obtain All Certificates] command to prevent repeated execution.
- Adjusted: When the server certificate has expired, client certificate generation will be disabled and a prompt will be displayed.
- Adjusted: When generating client certificates, the expiration date will be adjusted according to the server certificate expiration date.
- Fixed an issue where a PHP error message appeared when selecting [SSL VPN Settings] > "Certificate Information" > "Regenerate Certificates."
- Fixed an issue where account certificate settings could not be downloaded when the Internet authentication group name in the [Client SSL VPN List] command contained special characters.
- Fixed an issue where a PHP error message appeared in some cases when selecting [SSL VPN Log] > [Export].
- Fixed an issue where account certificate settings could not be generated in some cases.
- Fixed sslvpn-gui (PC client) version 3.0.0.2.

Update Information:

- Fixed the CVE-2024-1305 issue and updated the virtual network card driver.

[L2TP]

- Fixed [Account List] > The "Account Expiration Date" setting caused the actual expiration date to be one day less than the configured date.
- Fixed an issue where encrypted authentication was not correctly used for L2TP connections in some cases.

[SD-WAN]

- Fixed an issue where the "Delete" setting was not correctly executed, causing SD-WAN service anomalies.
- Fixed an issue where packet transmission could not be performed properly in some cases, causing connection anomalies.

[Network Tools]

[Connection Test]

- Adjusted [DNS Query] to add the "Interface Address" function setting.
- Fixed an issue where the "Ping" function did not execute according to the "Interface Address" setting in some cases.
- Fixed an issue where the "Port Scan" function could not connect due to routing errors in some cases.

[Logs]

[Operation Logs]

- Fixed an issue where the "Permanent Block" setting in [Management Target > Firewall Protection > Firewall Protection] did not generate logs.
- Fixed an issue where the "Default Language" information was missing from the log in [Management Target > Internet Authentication > Web Settings].
- Fixed an issue where the "Default Language" information was missing from the log in [Network Services > DHCP > DHCP Blacklist MAC Address > "DHCP Flood Attack Protection" log information was incorrect.
- Fixed an issue where [VPN > SSLVPN Server > Client SSL VPN List] > [Retrieve All Certificates] did not generate logs.

[System Status]

[Connection Status]

- Fixed an issue where the connection status in [Member List] was incorrect in some cases.

[Traffic Analysis]

- Adjusted [Traffic Analysis Query] > "Query Conditions" to add the "Source Port:" function setting.

- Fixed an issue where clicking "Detailed Information" in [Traffic Quota Query] sometimes displayed an error message.
- Fixed an issue where the "Application" column information was inconsistent with the information displayed in the [Threat Status Dashboard].

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2025/08/04