NGS Series V9.0.3.1 Update Content

Applicable models

NGS 1U Full series

Applicable Versions

9.0.3

HASH

md5 : 8593b5d2bbb6e9f5c80259d0dc59e67a

sha1 : 77264c6fe563a058ac766be93c0265be8cef287c

sha256 : aeb5f5b9d295d239ce92ca78c8f341d4e319b2267d749a9737a2f120280e4714

Precautions

After the software update, the system will automatically restart (it will restart twice), taking about 3 to 5 minutes.

Functional Specifications

- [System Status > Threat Intelligence] Requires authorization to enable.
- [Sandstorm > AI Sandstorm] Requires authorization to enable.
- [IPS > AI IPS] Requires authorization to enable.

Updates

[System Settings]

[Basic Settings]

- Adjusted [General Settings] > "Homepage Network Interface Default Display > Custom" to individually display physical ports in switch mode.

- Adjusted [Management Interface Access Settings] > "Security" to disable TLSv1.1 by default.

- Fixed an issue where the page would not display correctly after logging in when "Threat Intelligence Dashboard" was selected in [General Settings] > "Homepage Settings".

- Fixed an issue where "Drop Session Log" was not generating records correctly when enabled in [General Settings].

- Fixed an issue where some data was not retained according to the settings in [Clear Logs].

[Time Settings]

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

[Administrator]

- Adjusted [USB Log Backup] to support this function on all models.

- Adjusted [Clear Logs] for models using hard drives, increasing the maximum retention period for "Traffic Analysis Log Retention/Internal Network Protection Log Retention" to 180 days.

- Adjusted [Clear Records] > "Web Records" data retention to include "HTTPS Connection Records".

- Fixed an issue where a blank prompt appeared after editing settings in [Account Management] in some cases.

- Fixed an issue where "USB Record Backup" could not mount backup data in some cases with [Clear Records].

- Fixed an issue where data was not backed up correctly using "USB Record Backup" in some cases with [Clear Records].

[System Upgrade]

- Adjusted [Firmware Information] to add interface prompts and restrictions during updates to avoid repeated execution.

- Fixed an issue where firmware files could not be downloaded in some environments due to connection protocol restrictions.

[Backup and Restore]

- Adjusted [Automatic Backup] to include high availability role information in the downloaded backup file name when [High Availability] is enabled.

- Fixed an issue where [ZTA VPN] settings were not restored correctly during system restore in some cases with [System Backup and Restore].

[Message Notifications]

- Added "Notification Subject" to [Message Notifications]. Function settings allow for unified addition of notification email subject information.

- Added [Message Notification] "WAF Permanent Block" function setting to send notifications for blocking events.

- Fixed an issue where old records were incorrectly sent in some cases under [Message Notification] > "DDNS Update Failure".

- Fixed an issue where the notification email content was incorrect under [Message Notification] "ZTA VPN" login error events.

- Fixed an issue where the notification email content was missing a title under [Message Notification] > "Virus Engine Anomaly Notification".

- Fixed an issue where notification emails were not sent in some cases.

[Restart & Shutdown]

- Fixed an issue where [Automatic Restart] was not correctly executing daily reboots in some cases.

[AP Management]

- Added support for Zyxel models: WBE510D, WBE530, WBE630S, NWA110BE, NWA210BE.

- Added [AP Management] SSID support for "Timetable" scheduling function settings.

- Added [AP Management] [Advanced Delivery] Function settings allow for individual delivery configurations for specific items.

- Adjusted [AP Management/MAC Filtering]: Added prompts for functions not supported by certain models.

- Adjusted [AP Management] > "Add/Edit" > "Model" menu to be categorized by brand.

- Adjusted and removed AP model support: AP-300, Howard2000NI, NWA1100-NH.

[SSL Certificate Settings]

- Adjusted Let's Encrypt certificate txt verification to automatically retry when verification fails and cancel the application upon expiration.

- Fixed the issue of incorrect information being displayed when field format was incorrect.

[Network Settings]

[Zone Settings]

- Fixed an issue where the "Zone Status Map" was not displayed correctly in some cases under [Zone Settings].

- Fixed an issue where the "Speed and Duplex" record was not displayed correctly in the HA port under [Line Settings].

[Network Interface]

- Adjusted the function button for adding an IP address when the "STATIC" dropdown menu is selected and settings are not saved.

- Adjusted "Network Bonding" > Mode: "802.3ad (LACP)" to include "Status" information.

- Adjusted the prompt to link the [VPN] service when changing an IP address and allows simultaneous settings changes.

- Fixed an issue where the "ARP Reply" function was not working in some cases under the Bridge interface.

- Fixed an issue where an error message appeared when saving settings in the Bridge interface in some cases.

- Fixed an issue where the page froze when deleting an IP address in the Bridge interface.

- Fixed an issue where incorrect information was displayed when deleting an IP address in some cases.

[Router Management]

- Fixed an issue where interface information was displayed incorrectly when switching the backup line to PPPoE in the [Exit Line] section.

- Fixed an issue where the [Exit Line] backup setting was not working correctly in some cases.

- Fixed an issue where, after switching the backup line in some cases, the connection could not be correctly switched back to the primary line.

- Fixed an issue where deleting rules in the [Exit Line Group] section was not executed correctly.

- Fixed an issue where, in some cases, changes to the [Exit Line] settings in the [IPv6][Exit Line Group] section did not update accordingly, causing anomalies.

- Fixed an issue where, in some cases, the [IPv6][Exit Line Group] section could only connect to the same line.

- Fixed an issue where, in some cases, BGP routing information was displayed incorrectly in the [IPv6][Dynamic Routing Table] section.

[IP Tunnel]

- Fixed an issue where, in some cases, connecting using encrypted IPsec mode in the [Add/Edit] section could not be completed correctly.

- Fixed an issue with setting the "Tunnel Interface Address" for multiple tunnels.

Connectivity issues may occur due to the same network segment.

[Interruption Settings]

● Adjusted the [Software Interruption Settings] interface. When PPPoE is enabled, the software interruption settings for that interface will be automatically enabled.

[Regulation Rules]

[Regulation Rules]

● Adjusted the PPPoE interface in the rule list to include a tip displaying the current IP address.

● Adjusted the [Add/Edit] > "Source Network/Destination Network" search function; the search method is now case-insensitive.

● Adjusted [Add/Edit] > "Traffic Quota" to support "Hourly" settings.

● Fixed the issue where "Search Rules" > [Custom Search] did not display data correctly in some cases.

● Fixed the issue where the interface displayed abnormally when selecting multiple rules in [Mobility Rules].

● Fixed the issue where the [Add/Edit] > "Source Network/Destination Network" search function did not retrieve data correctly in some cases.

● Fixed the issue where saving settings in [Add/Edit] sometimes displayed incorrect error messages.

● Fixed [Add/Edit] > Fixed an issue where the "Source Network/Destination Network" menu displayed incorrectly in some cases.

- Fixed an issue where "IP Address Translation" could still be saved even if no IP address was set in [SYN Protection][Add/Edit].

- Fixed an issue where the configuration options were incorrect when the outbound line had backup in [IPv6][Add/Edit].

- Fixed an issue where the connection failed to switch lines in time when "Outbound Line Group" was applied and some lines were disconnected.

- Fixed an issue where the VPN account connection status or name displayed in the "Source Network/Destination Network" rule list was incorrect in some cases.

- Fixed an issue where internal segment IPs in [IPv6][Outbound to Inbound] could not be correctly redirected to internal services.

- Fixed an issue where the "Server Load" setting in "IP Address Translation" was not executed correctly in [IPv6][Outbound to Inbound][Add/Edit].

- Fixed an issue where the tip information was not displayed correctly in the "Firewall Protection Settings" rule list in [IPv6].

- Fixed [IPv6][Inside to Outside] Fixed an issue where connections were not being sent correctly according to the configured exit points in some cases.

- Fixed an issue where rule information was displayed blank in some cases in [IPv6].

- Fixed an issue where "Firewall Protection Settings" items disappeared in some cases in [IPv6][Edit].

- Fixed an issue where PPPoE interface information was displayed incorrectly in some cases in [IP/Port Mapping Overview].

- Fixed an issue where the [IPv6][IP/Port Mapping Overview] page could not be displayed correctly.

- Fixed an issue where some connections could not be executed according to the changed settings when control rules were changed in some cases.

- Fixed an issue where applying URL rules would cause abnormal interface display in some cases.

[IPSec Control]

- Added "IPS" function settings to [Add/Edit] > "Advanced Settings".

[Management Objectives]

[Address Table]

- Adjusted [Address Table][Edit] to prompt whether to clear the list of resolved domain IPs when modifying settings.

- Fixed an issue where the "Region" field in [Add/Edit] could not be queried using the region abbreviation.

- Fixed an issue where the prompt was not displayed correctly when changes could not be made due to other groups being used in [Address Table] [Edit].

- Fixed an issue where the page loading time was too long in some cases in [Address Table Group].

- Fixed an issue where "Selected Other Groups" in [IPv6] [Address Table Group] was not displayed correctly in some cases.

[Timetable]

- Added a "Notify Before Expiration" function setting to [Add/Edit] > "Mode 2".
- Adjusted and optimized the interface settings display in [Add/Edit] > "Mode 3", changing the color of the "Enable" time indicator.
- Fixed an issue where computer names were not correctly identified in some cases in [Address Table], causing different names to be treated as the same.
- Fixed an issue where the list display information was incorrect in some cases.

[Bandwidth Management]

- Adjusted the minimum setting value for [QoS List] [Add/Edit] to 10 Kbps.
- Fixed [QoS List][Add/Edit] Issue where traffic settings exceeding interface settings were not being restricted.

[Application Control]

- Fixed an issue where page display was abnormal after restoring settings in some cases.

[URL Management]

- Fixed an issue where the time of query settings in [Logs] did not match the actual displayed data.
- Fixed an issue where filtering judgment would be abnormal in some cases when rules had IPv4 settings.

[Firewall Protection]

- Added a setting to [Firewall Protection] > "Detect DNS Attack Settings" to filter DNS query actions.

- Fixed an issue where settings were not correctly saved when there were many entries in [Firewall Protection] > "IP Address Blocking/IP Address Exceptions".

- Fixed an issue where the blocking function was not executed correctly in some cases in [Firewall Protection].

- Fixed an issue where the name was not fully displayed in the "Interface" field of [Firewall Protection Logs] in some cases.

- Fixed an issue where data was not displayed according to query conditions in some cases in [Firewall Protection Logs].

[Internet Authentication]

- Added [LADP Users] Related Function Settings.

- Fixed an issue where [Local Users] could not change their password on the SSL VPN and ZTA VPN login pages when "Require users to change their password on next login" was enabled.

- Fixed an error when saving settings in [POP3, IMAP, RADIUS Users] > [Edit] > "Member Settings".

- Fixed an issue where [POP3, IMAP, RADIUS Users] were not prevented from deleting users/groups when "Users/Groups" were already applied to other functions.

- Fixed an issue where [AD Users] > [AD Synchronize Lost Accounts] did not correctly synchronize associated function settings when deleting an account.

- Fixed an issue where data was displayed incorrectly when users selected AD-related

options in [User Groups].

● Fixed an issue where "Server Port" settings changed abnormally in some cases in [No Password Verification].

● Fixed an issue where [No Password Verification] could not log in normally when the login account was an AD account in some cases.

● Fixed ● Fixed an issue where the same account might fail to authenticate when used in multiple groups.

● Fixed an issue where the online authentication login page sometimes failed to display correctly.

● Fixed an issue where AD users sometimes failed to perform login verification correctly.

[Network Services]

[DHCP]

● Added sorting functionality to [DHCP Blacklist MAC Addresses/DHCP Static IP Addresses].

● Added color-coded indicators to [DHCP Blacklist MAC Addresses] for system-determined data additions.

● Changed the "Computer Name" field in [DHCP Blacklist MAC Addresses] to display the name obtained from the DHCP lease.

● Fixed an issue where VLAN interface broadcast address settings were not being pushed correctly.

- Fixed an issue where lease time settings sometimes differed from actual operation.

- Fixed an issue where an error message would appear when there was no interface to configure for [DHCP Server].

- Fixed an issue where disabling DHCPv6 in some cases caused service abnormalities in [IPv6].

[DNS Server]

- Added DNSSEC signing functionality settings to [Domain Settings][Edit].

- Fixed an issue where the page displayed incorrectly after saving in [Domain Settings][Edit].

- Fixed Issues with incorrect settings changes after brief line interruptions and restorations.

[Virus Engine]

- Adjusted [ClamAV Engine] to version 1.0.9.

- Adjusted [Kaspersky Engine] to version 8.10.1.

- Fixed an issue where the [Kaspersky Engine] caused increased CPU load in some cases.

- Fixed an issue where scheduled updates were not executed in some cases.

- Fixed an issue where the temporary storage mechanism affected virus scan results.

[Sandstorm]

- Added [Sandstorm] > "AI Sandstorm" feature settings. (Authorization required)

- Fixed an issue where [Sandstorm Logs] data was not displayed after feature updates in some cases.

[WEB Service]

- Adjusted [HTTPS Connection Logs] to include "Internet Authentication Account" information.

- Adjusted [HTTPS Connection Logs] to display IPv4 and IPv6 on separate pages.

- Fixed an issue where some websites could not connect after enabling the service.

[High Availability]

- Fixed an issue where the AutoVPN service in [VPN > IPSec Tunnel] would still operate when the Backup device was in standby mode.

- Fixed an issue where the synchronization process did not operate in some cases.

[Remote Logging Server]

- Adjusted and added the "Interface Address" setting, allowing you to specify the interface IP for data transmission.

[Advanced Protection]

[Switch Management]

- Added support for certain switch models.

Netgear: MS324TXUP (SNMP)

M4250-9G1F-PoE+ (Collaborative Defense)

Zyxel: GS2220-10HP (Collaborative Defense)

- Added support for LACP-related information display in the [Network Status Graph].
- Added [Scheduling Function], allowing you to select a port to apply scheduling management functions.
- Adjusted the [Switch Settings] [Add/Edit] > "Model" menu to be categorized by brand.
- Adjusted [Switch Settings] [Add/Edit] > Added HTTPS functionality option to "Administrator Port".
- Adjusted and optimized the [Binding List] processing flow, reducing the execution time for storing settings.
- Fixed an issue where SNMP Write connection testing was abnormal in some cases under [Switch Settings] [Add/Edit].
- Fixed an issue where [Switch Settings] > [Auto Search] did not execute correctly in some cases.
- Fixed an issue where the port order in the [Network Status Diagram] icons for some models was not arranged according to the actual machine.
- Fixed an issue where the information in [Network Status Diagram] > Port Details > [IP Source Guard] was displayed incorrectly in some cases.
- Fixed an issue where some ports in the [Network Status Diagram] status diagram might not display images.

[Internal Network Protection]

- Fixed an issue where the IP address set in [Protection Settings] > "Arp Packet Warning Value" > "Trusted IP Address" still appeared in the protection record.

- Fixed an error record of "Abnormal Packet Sending Volume" appearing in some cases under [IP Conflict Record].

[IPS]

[IPS] [Settings]

- Added "AI IPS" function settings. (Authorization required)

- Adjusted CVE-related rules to add "CISA KEV" prompts.

- Fixed an issue where some options in [IPS Filtering Settings] > "Advanced Mode" were not saved correctly.

[WAF]

[WAF Settings]

- Added "NTLM Support" function settings to [Website Management].

- Adjusted [Website Management] > "Credential Information" so that expired credentials will be displayed in red text.

- Fixed an issue where [Blocking Pages] settings were not deleted synchronously when a website was deleted.

- Fixed an issue where connection was unavailable when using the WAF service in

some cases.

- Fixed an issue where the WAF service could not execute in some cases.

[WAF Logs]

- Fixed an issue where large amounts of log query data could cause system abnormalities in some cases.

[Email Management]

[Email Scan]

- Fixed an issue where files could not be exported from [Virus Email Quarantine] in some cases.

[Spam Filtering]

- Fixed an issue where files could not be exported in some cases under [Basic Settings] > [Delete Area].

- Fixed an issue where the [Personal Blacklist/Whitelist] page displayed incorrectly in some cases.

[Email Record Query]

- Fixed an issue where the [Allow] function could not be executed correctly in some cases.

[Content Records]

[Web Records]

- Fixed an issue where the [Web Record Query/Web Virus Record Query] page loaded too slowly in some cases.

- Fixed an issue where the USB data was not displayed correctly when "Local + USB Data" was selected in [Web Record Query/Web Virus Record Query] > "Data Source".

- Fixed an issue where the [Export] function could not export data completely in some cases.

[VPN]

[IPSec Tunnel]

- Fixed an issue where the IP address was not updated correctly when using the WWAN interface for "Local IP Address".

- Fixed an issue where the status indicator lights were displayed incorrectly in some cases.

[SSLVPN Server]

- Added [SSL VPN] [Connection Status] Added login failure blocking settings.

- Adjusted [SSL VPN Settings] and optimized interface operation and prompts.

- Fixed an issue where the "DNS Server/WINS Server" setting was invalid in some cases in [SSL VPN Settings].

- Fixed an issue where the "URL displayed upon successful connection" in [Client SSL VPN List] was incorrect when multiple groups existed for the same account.

- Fixed an issue where the "Last Connection Time" information in [SSL VPN Connection Status] was incorrect.

- Fixed an issue where AD users could not log in normally when two-step verification was enabled in some cases.

- Fixed an issue where having multiple identical accounts with different account sizes could cause some functions to malfunction.

[L2TP]

- Fixed an issue where the information displayed after setting [Interface IP] using [Assistive Selection] in [Basic Settings].

[SD-WAN]

- Adjusted [Add/Edit] > "Group Name" to prevent the use of blank characters.

- Adjusted [Add/Edit] > "Actions" When set to deny, hide ineffective settings.

- Adjusted settings to include prompts and restrictions to prevent connection failures when multiple IPSec lines have different ike versions.

- Fixed an issue where incorrect execution of the [Delete] setting caused SD-WAN service abnormalities.

- Fixed an issue where changing IPSec network segment settings caused functionality to be invalid.

- Fixed an issue where SD-WAN was unusable when using port 4500 for IPSec connections.

- Fixed an issue where packet transmission was not normal in some cases, causing connection abnormalities.

[ZTA VPN]

[Client-to-Site]

- Added [Connection Status] to include login failure blocking settings.
- Added [Client Connection Software] to support switching between multiple configuration profiles.
- Adjusted [Connection Records] to support multiple IP comparison methods.
- Adjusted [Client Connection Software] to add a credential download function.
- Adjusted [Client Connection Software] to include a function to download credentials when "Open Remote Internet Access" is set. Download settings will default to enabling "Use Remote Internet Access".
- Fixed an issue where the "Interface Used by This Machine" in [ZTA VPN Settings] was displayed incorrectly.
- Fixed an issue where changing the IP address in [ZTA VPN Settings] > "Client Connection Settings" could cause connection failures.
- Fixed an issue where setting multiple entries in [ZTA VPN Settings] > "Push Route" could cause client connection software malfunctions.
- Fixed an issue where the IPSec menu in [ZTA VPN Settings] > "Push Route" displayed incorrect entries.
- Fixed an issue where the original fixed IP address could not be used by other accounts after deleting a setting in [Client List] > "User Fixed IP Address".
- Fixed an issue where the information displayed incorrectly when credentials could

not be downloaded in [Page Settings].

● Fixed an issue where a "Preview Items" function was added to [Page Settings] > [View Download Page].

● Fixed an issue where the "Last Connection Time" information in [Connection Status] > was incorrect.

● Fixed an issue in [System Settings > Administrator >] [Administrator's IP Address] Fixed an issue where the Client download page could not connect when the setting was enabled.

● Fixed an issue where multiple identical accounts with different account sizes could cause some functions to malfunction.

● Fixed an issue where connection detection was affected by regulatory settings in some cases.

[Network Tools]

[Connection Test]

● Fixed an issue where [Port Scan] results were not displayed correctly in some cases.

[Packet Capture]

● Adjusted the settings for PPPoE, VLAN, and IP tunnel interfaces in [Scheduled List][Add/Edit] "Network Interface".

[Logs]

[Operation Log]

● Fixed an issue where the function path was displayed incorrectly when changing the settings for "ZTA VPN Record Retention" in [System Settings > Administrator > Record Clearing].

● Fixed an issue where DNS filter settings were incorrect in some cases in [Regulations > Rules].

● Fixed an issue where VPN interface information was not included in the records in [Network Services > DNS Server > Interface Settings].

● Fixed There is an issue with some data display fields and information being incorrect.

[System Status]

[Connection Status]

● Adjusted [Member List] names to include reference address table entries "IP/Mask" and "IP Address Range".

● Adjusted non-interface IP ranges to be highlighted in red.

[Traffic Analysis]

● Fixed an issue where [Traffic Ranking] > "Statistics Method" was set to "Based on Internet Authentication Statistics" and the records were displayed incorrectly.

● Fixed a PHP error when viewing detailed information in [IPv6][Traffic Ranking].

● Fixed a PHP error when exporting data in some cases in [Traffic Ranking Query].

● Fixed an issue where some information in [IPv6][Traffic Ranking Query] > "Packet Records" > "Outbound Lines" was displayed incorrectly.

[Threat Intelligence Dashboard]

- Fixed an issue where some detailed information in [Home] > "Threat Intelligence" was not displayed correctly.

- Fixed an issue where some virus protection information in [Home] > "Threat Intelligence" was inaccurate.

[Other]

[Management Interface]

- Added [ZTA VPN] > [Site-to-Site] Function Settings: Supports VPN tunnel connections between devices.

- Adjusted the display color of "Data Usage" on the [Home] tab to change when the value exceeds 90%.

- Adjusted interface security: Removed automatic attribute value filling in the password field.

- Adjusted some language layouts.

- Adjusted some interface function names and unified related display.

- Fixed an issue where the password field was incorrectly checked when using certain special characters during the first login to set up the administrator account.

- Fixed an issue where the "Data Health Status" on the [Home] tab sometimes displayed abnormally.

- Fixed an issue where the "Data Usage" information on the [Home] tab was

sometimes incorrect.

- Fixed an issue where the status information was incorrect when the system access status was displayed abnormally on the [Home] tab.

- Fixed an issue where the [Export] function could not be executed correctly when there was a large amount of data.

- Fixed an issue where the IP input method was incorrect on some interfaces. Issues encountered during query execution:

- Fixed an issue where PHP error messages appeared on some pages.

- Fixed an issue where login interfaces had incorrect account length limits, causing login failures.

- Fixed an issue where entering the character "test" in some interfaces would trigger an error.

- Fixed an issue where using emojis in some field names caused display errors.

- Fixed an issue where excessively long information in some interface fields caused display errors.

- Fixed an issue where some text language settings were displayed incorrectly.

- Fixed an issue where some English language settings were incorrectly or incompletely translated.

[System]

- Adjusted and optimized IPS service memory usage to reduce system resource load.

- Adjusted and updated the regional IP database.
- Adjusted SMTP support for TLSv1.3.
- Fixed an issue where some interfaces did not properly filter input, potentially posing a security risk.
- Fixed an issue where attachments were incomplete after processing by the email service in some cases.
- Fixed In some cases, application control suites may cause system crashes.
- Fixed an issue where web-related services would malfunction and stop working abnormally in some situations.

2026/05/27