

NGS 3H / 5H Version 9.0.2.3

Available firmware

9.0.2.2 (a41dd178b11e80b09f495410a7d45c05a1e450ab)

Supported hardware models

The HX 9.0.2.3 release supports the following models.

HASH

md5: 986a92fee59f40b6118ed23e10c39258

sha1: b2c1fd6683506620299f9c0e0b866c0bacfd82aa

sha256:

4986ac2cbc0eedbb40db0d285d72aa05719ef2a9e85e4211c389a1f524a6f58e

Installation instruction

1. After the update is installed, the system will automatically restart twice.
Please wait 3-5 minutes.
2. Updated log: 2023-09-14 13:38:35 ==> 9.0.2.2 to 9.0.2.3

Upgrade Notes

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※Configuration※

Basic Setting→

- (01) Adds: “LAN Acceleration Mode” to **【General Setting】** .
- (02) Adds: “Control Bridge Vlan packets” to **【General Setting】** .
- (03) Adds: “Security” (TLSv1.1, TLSv1.2, and TLSv1.3 items) to **【Administrative Access > Administrative Access】** .

Backup & Restore→

- (01) Adds: “Keep SSL Certification” to **【Reset Default】** .
- (02) Adjusts to keep the license status of **【APP Control】** and **【URL Filter】** after executing a system recovery.





Notification→

Adds: “Abnormal System Shutdown” , “Virus Engine Abnormal Notification” , and “DHCP Flood Attack Notification” to **【Notification Items】**



AP Management→

Supports the following models:

Zyxel: NWA90-AX, NWA210-AX, and WAX510D.

Netgear: WAC510.



Signature Update→

(01) Adjusts to allow importing update files without license period restriction.

(02) Adjusts buttons and texts size properly on UI.



SSL Certificate→

Adds: “Term” to **【Regenerate default certificates】** .

※Network※

Zone Setting→

Adds: “IPv6 Settings” to **【Default Gateway】** .

Route→

Adjusts that “Line Detection Method” is chosen NONE, invalid settings will be hidden automatically at **【Designated Gateway > Add】** .

PPPoE→

(01) Adds: “AUTO” option to detect MTU values automatically at **【Add】** .

(02) Adds: the “Remote Address” option to “Detected IP Address” at **【PPPoE Alive Detection】** .

WWAN→

(01) Supports “APAL Dongle” .

(02) Adds: SYN, ICMP, UDP, Port Scan, and Sandstorm to **【Firewall Protection Items】** .



Policy→

【Security Policy】

- (01) Adds: “Define Search” to **【Advance > Search Rule】** .
- (02) Adds: notifications to different subnets at **【Source Interface and Source > Add】** .
- (03) Adjusts that the set VLAN can display interface settings without being activated at **【Source Interface > Add】** .
- (04) Adds: IP options to **【IPv6】【Source/Destination】** .
- (05) Adjusts that policies are applied to “Service Group” , detailed info can be scanned via tip at **【Outgoing/Advance】** .
- (06) Adjusts “Mapped IP” , “Mapped Port” and “Server Load Balance to match with IP in the IPSec segments at **【Incoming/Advance】** .
- (07) Adds: “Source IP Address” settings to **【Search Rule > Define Search】** .
- (08) Adjusts to display a tip explaining while activating “Application Control” and “URL Access Control” at a time will trigger mutual Affection.

IPSec Policy→

Adds: “Max. Concurrent Sessions for Each Source IP Address” to **【Policy > Add】** .

Object→

【IP Address】

- (01) Adjusts “Define IP” from judging subnet masks to matching clustering at **【IP Address > Assist】** .
- (02) Adjusts not to display IP address options in the 169.254.0.0/16 address range at **【IP Address > Assist】** .
- (03) Adjusts “Define IP” from judging subnet masks to matching clustering at **【IP Address Gorup > Search】** .

QoS→

Optimizes programs to increase packet processing speed.

Application Control→

Adjusts unlicensed module can be transformed into the new module and 14-day trial can be activated at **【Objects > Application Control >**

Transform】 .

URL Filter→

Adds: “Upload Extension Blacklist” and “Download Extension Blacklist” that can control over files upload/download via webpages to 【BW List Setting > Add > Define Black/White List】 .

Firewall Protection→

● Optimizes judgement of “Block Ping of Death Attack” at 【Firewall Protection > Other items】 .

Authentication→

(01) Adds: “Allow connection” that can limit online authentication pages to 【Auth Setting】 .

(02) Adds: 2-Step Verification to 【POP3, IMAP, RADIUS User > Server Lists > Add】 .

(03) Adds: 2-Step Verification to 【AD User】 .

(04) Adds: “all users/selected users” to 【User Group > Add】 .

(05) Adjusts to split search results into several pages at 【Local User > Search】 .

(06) Adjusts to allow using comma(,) and semicolon(:) in password at 【Local User > Add】 .

(07) Adjusts to unify tips for checking column format of POP3, IMAP, RADIUS User setting at 【POP3, IMAP, RADIUS User】 .

(08) Adds: to display “usage time” after a successful login.

※Service※

DHCP→

(01) Syncs UI and self-define IP settings in “Default Gateway” at 【DHCP Server > DHCP Server Setting】 .

(02) Adds: “DHCP Flood Attack” to 【DHCP Black MAC】 .

(03) Optimized page load speed of the DHCP User List.

(04) Adjusts tip suggestion about undistributed IP quantity at 【DHCP User List】 .

(05) Adjusts IP segments which can be distributed at 【DHCP Server > Interface > IP Address】 .





※SNMP※

- (01) Adds: "Visit Control" and "Restrict Source IP Access" settings.
- (02) Adjusts SNMPv1/v2.
- (03) Replaces "Service Status & Running After Reboot" option with "SNMP Agent: Enable" .
- (04) Removes partially unpublished message items.

※Anti-Virus Engine※

- (01) Supports updating virus signatures database offline using USB flash drives at **【ClamAV/Kaspersky Engine】** (UI will be displayed only when USB flash drive and update files are properly recognized.).
- (02) Adds: settings to **【Kaspersky Engine】** .
- (03) Updates ClamAV version.
- (04) Optimizes ClamAV memory consumption at **【ClamAV Engine】** .

※WEB Service※

- (01) Adds: Term settings to **【Encryption Connection Setting > Re-generate Certificate】** .
- (02) Updates Mac address database of iOS devices.

※High Availability※

- (01) Adds: "Detection frequency" and "Auxiliary detection interface."
- (02) Adds: "Service status", "Pause switching and data synchronization", "Current detection status", and "Recent data synchronization time."
- (03) Fixes system upgrade can still be available when HA is not disabled.

※Remote Syslog※

- (01) Adds: App ID (CEF: cn1=%u; General: APP=%u).
- (02) Adjusts to keep "Log Item" settings when activation check box is not

checked at **【Remote Connect Setup】** .
(03) Adds: "Intranet Protection Log" to **【Log item > Advanced Protection】**
(CEF: SharetechFunction ; General: FUNCTION).

※Advanced Protection※

Anomaly IP Analysis→

(01) Adjust the default value into 10 (minutes) at **【Block Anomaly > Action > Block】** .

(02) Adjust the setting range 1-9999 (Kbps) at
【Block Anomaly > Action > Bandwidth Limit】 .

Switch→

Removes "Model: Juniper-ex2200" because the model does not support
"SNMP Write" at **【Switch Setup > Add > Switch Model】** .

Intranet Protection→

(01) Adjusts to take the info of **【Object > IP Address】** into reference at
【IP Collision Log】 .

(02) Adds: tip suggestion for Mac address to
**【IP Collision Log > Status > Exceed the threshold/Detected the
same IP】** .

(03) Adds: "Event" to the table at **【IP Collision Log】** .

(04) Optimizes packets processing speed.

※Mail Security※

Filter & Log→

(01) Adds tips to each items explaining about communication ports.

(02) Adds: "Enable POP3" to **【Retrieve Mail Anti-Virus】** .

(03) Adds: **【SSL Certification Set】** setting.

Mail Log→

Adds: colors and description to "Message Responses" in order to help
determine the types of source at **【Today Mail/Mail Search
Result】** .

SMTP Log→



- (01) Adds: colors and description to “Message Responses” in order to help determine the types of source at **【SMTP Log Search Result】** .
- (02) Removes “communication process” at **【SMTP Log Search Result】** .

※VPN※

- (01) Adds: a unified search interface to **【PPTP Server Log/PPTP Client Log/L2TP Log】** .
- (02) Fixes failure to delete accounts in VPN log.

IPSec Tunnel→

- (01) Supports endpoint segments for 0.0.0.0/0 at **【Enable Routing】**
- (02) Adds: a loading icon while importing IPSec policies.

PPTP Server→

- (01) Adds: “Accounts Expiration Date” to **【PPTP Account List > Add】** .
- (02) Sorts the accounts list in alphabetical order at **【PPTP Account List】** .
- (03) Adjusts to hide “password” and adds “new password” item that allows editing at **【PPTP Account List】** .
- (04) Adds: to display accounts in tip suggestion during execution at **【PPTP Account List > Delete】** .
- (05) Adjusts interface at **【PPTP Account List > Import】** .
- (06) Adds: “years” to TIME at **【PPTP Server Log】** .

PPTP Client→

- (01) Sorts the accounts list in alphabetical order at **【PPTP Client List】** .
- (02) Adds: to display accounts in tip suggestion during execution at **【PPTP Client List > Delete】** .

SSL VPN Server→

- (01) Adds: “Software Download Page Setting” that allows to define user download pages to the tab bar.
- (02) Adds: “2-Step Verification Validity Extension” with a tip suggestion to **【SSL VPN Setup】** .
- (03) Adds: “Re-generate Certificate” button to **【SSL VPN Setup > Certificate Message】** .
- (04) Adds: “Certificate Message” with a tip suggestion to **【SSL VPN Setup】** .



(05) Upgrades SSL VPN Server version and reinforces certificate that helps security.

(06) Supports 2-Step verification to sslvpn-gui (PC client) v1.5.0.6

(07) Adjusts to disable VPN service after applying a factory reset.

L2TP→

(01) Adds: “Account Expiration Date” to **【Account List > Add】** .

(02) Sorts the Account List in order.

(03) Adjusts to hide “password” and adds “new password” item that allows editing at **【Account List】** .

(04) Adds: to display accounts in tip suggestion during execution at **【Account List > Delete】** .

(05) Adjusts interface at **【Account List > Import】** .

※Tools※

Connection Test→

Adjusts the display of “IP Tunnel” at **【Ping > Source IP】** .

Capture Packet→

(01) Adjusts to select the single port item in bridge mode at **【Schedule List > Add】** .

(02) Adjusts file names in chronological order at **【Schedule List > Log】** .

(03) Adds file size units like Kbytes & Mbytes to **【Schedule List/Completed List】** .

※Status※

System Status→

(01) Adjusts that WiFi bridge mode does not affect the display in **【WWAN User List】** .

(02) Adds: “SSID” , “signals” , “Rx Bytes” and “Tx Bytes” to **【WWAN User List】** .

Flow Analysis→

Optimizes “export” performance at **【Flow Rank Search Quota】** .

Dashboard→



- (01) Adds: “report language options” .
- (02) Adjust to include logs that are being searched.

※Log※

System Operation→

- (01) Adjusts to record importing action at
【Object > Authentication > Local User】 .
- (02) Adds: the Wizard operation log.

※Others※

UI→

- (01) Adds an alert message about “database restore failed” at
【Homepage】 .
- (02) Adjusts that no pop up alert message will be displayed after the setup wizard has been run at 【Wizard】 .
- (03) Unifies display interface.
- (04) Adjusts to allow copy & paste and adds format judgement at
【2-Step Verification】 .
- (05) Adjusts not to generate operation log and file download when executing an export that has no data.
- (06) Adjusts some English interface texts.
- (07) Disables autofill password.
- (08) Adjusts some factory default values.
【Configuration > Basic Setting > Login Failure Block Settings】

Temporarily

block when login failed more than: 5 (times)

【Configuration > Basic Setting > Login Failure Block Settings】 IP

blocking

period: 5 (minutes)

【Configuration > Basic Setting > DNS > DNS Server 1/2】 : 8.8.8.8 /
1.1.1.1.

【Configuration > Signature Update > Auto Update】 : Default ON

【Configuration > number of items to be displayed】 : Default 30 items

【Network > Interface > Visit Control > SNMP】 : Default OFF



【Object > Firewall Protection > UDP Attack Detection Setting】 : Allow maximum flow 10000 Packet/Second(s)

【Service > DHCP > Primary/Secondary DNS】 : 8.8.8.8 / 1.1.1.1.

【Service > Anti-Virus Engine > ClamAV】 : Default OFF

【VPN > SSLVPN Server > DNS Server 1/2】 : 8.8.8.8 / 1.1.1.1.

System→

(01) Optimizes system security and adjusts connection requests and restriction.

(02) Optimizes database performance and recovery procedure.

(03) Updates area IP geolocation database.

(04) Upgrades jQuery UI versions.

2023/10

