



NGS Series 9.0.2.4 Firmware Update

Applicable Model

NGS 1U full series

Available Firmware

9.0.2.3 (ae77c5d30cf1249146a66dfab3457b2b72b63b9)

Supported hardware models

The NU 9.0.2.4 release supports the following models.

HASH

md5 : 9302365fac677239a0f22bb010a3921c

sha1 : 7d84701183f127931584a4ec0994686a40914187

sha256 : fe78a71a721fbedc73b632e71171c0693affcc353a342390c63c2c251eef1bee

Installation instructions

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After the update is installed, the system will automatically restart twice.
Please wait 3-5 minutes.

Upgrade Notes

※Configuration※

Basic Setting→

(01) Adds “Security” (TLSv1.1, TLSv1.2, and TLSv1.3 items) to

【Administrative Access > Administrative Access】.

(02) Removes “FTP Active Mode Open Port” and changes into auto module judgment at 【General Setting】.

Administration→

(01) Adds “Log Retention Period” settings to 【USB Backup Log】 (only support models without hard disks).

(02) Adjusts max. value of data retention period from 99 days to 180 days for

certain models in “ Intranet Protection Log” and “Flow Analysis” at



※Clear Data※

Upgrade→

Sorts logs in chronological order at **【Firmware Download Record】** .

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→

(01) Adds “Abnormal System Shutdown” , “Virus Engine Abnormal Notification” , and “DHCP Flood Attack Notification” to **【Notification Items】** .

(02) Adjusts some default values for email subject and English interface texts at **【Notification】** .

Signature Update→

Adjusts buttons and text size properly on the UI.

SSL Certificate→

(01) Adds “Term” to **【Regenerate default certificates】** .

(02) Adds “Local DNS server – Automatic update” to SSL Certificate Set and Let’s Encrypt Certificate.

UPS→

(01) Adjusts Network UPS IP/Port to be settable while selecting “Network UPS” as the connection mode at **【UPS】** .

(02) Adjusts that only set clients IP addresses are allowed to visit the UPS service in “Network UPS” mode at **【UPS】** .

※Network※

Zone Setting→

Adjusts that a zone with multiple ports can set up “Switch” or “Bridge” mode individually at **【Zone Setting】** .



Interface→

- (01) Supports bonding at zone0(MGMT/LAN) interface.
- (02) Adds settings to **【Network Interface Settings > Default Gateway】** at **【IPv6】** .
- (03) Adjusts not to restrict setting IP as the condition to save the settings in the static mode at **【IPv6】** .

Route→

- (01) Adds settings to **【OSPF】** .
- (02) Adds tips to explain about spare gateway setting collision at **【Designated Gateway】** .

VLAN (802.1Q)→

Adds settings to **【Visit Control > HTTPS】** .

PPPoE→

- (01) Adjusts 100 to be the max. number of PPPoE connection.
- (02) Adds “AUTO” option to detect MTU values automatically at **【Add】** .

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 settings to **【Advance > DNS Filter】** at **【IPv6】** .
- (03) Adjusts that policies are applied to “Service Group” , detailed info can be scanned via tip at **【Outgoing/Advance】** .
- (04) Adds a tip for different subnets at **【Source Interface and Source > Add】** .
- (05) Adjusts that the set VLAN can display interface settings without being activated at **【Source Interface > Add】** .
- (06) Adjusts “Mapped IP” , “Mapped Port” and “Server Load Balance to match with IP in the IPSec segments at **【Incoming/Advance】** .
- (07) Adjusts to display a tip explaining while activating “Application Control” and “URL Access Control/WEB(S)” 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) Adds “List of External URL” to **【Add Device Name and IP Address】** .

(02) Adjusts “Define IP” from judging subnet masks to matching clustering at **【IP Address Group > Search】** .

(03) Adjusts not to display IP address options in the 169.254.0.0/16 address range at **【IP Address > Assist】** .

QoS→

Optimizes programs to increase packet processing speed.

Application Control→

Adjusts unlicensed module can be transformed into the new module and a 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 **【BWList Setting > Add > Define Black/White List】** .

Authentication→

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

(02) Adds 2-Step Verification to **【AD User】** .

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

(04) Optimizes 2-Step Verification setting and adds “select all users” and “account search.” .

※**Service**※

DHCP→



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

(02) Supports VLAN(802.1Q) interface at **【IPv6 > DHCP Server】** .

(03) Adds “DHCP Flood Attack” to **【DHCP Black MAC】** .

(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】** .

(06) Adjusts to display the setting on UI after finishing setting VLAN at **【DHCP Server】** .

DNS Server→

Adds WWAN settings to “Allow Query” at **【Interface】** .

Anti-Virus Engine→

(01) Adds “Stop” to “Virus Engine Setting” at **【ClamAV Engine/Kaspersky Engine】** .

(02) 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.) .

(03) Updates ClamAV version.

(04) Removes USB upgrade tip during updating at **【Kaspersky engine】** .

WEB Service→

(01) Adds Term settings to **【Encryption Connection Setting > Re-generate Certificate】** .

(02) Adds an option to import by file (.crt or .csr) at **【WEB > Encrypted Connection Setting > Re-generate Certificate】** .

(03) Updates Mac address database of iOS devices.

High Availability→

Fixes system upgrades can still be available when HA is not disabled.

Remote Syslog→

(01) Adds “WAF Log” to **【Log Item】** .

(02) Adjusts to keep “Log Item” settings when the activation check box is not



checked at **【Remote Connect Setup】** .



(03) Changes a column name (from "SMTP MAIL SET ID" to "Notification ID") in "Log > System Operation".



(04) Adds "Intranet Protection Log" to **【Log item > Advanced Protection】** (CEF: HERHSIANGFunction; General: FUNCTION).



※Advanced Protection※

Anomaly IP Analysis→

(01) Optimizes programs to reduce resource consumption.

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

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

Switch→

(01) Adds "Switch Model: GS1900-48, XGS1930-28HP, and XGS1930-52" to **【Switch Type > SNMP】** .

(02) Adds "Switch Model: ML-9324E, XGS2210-28, and XS3800-28" to **【Switch Type > Co-Defense】** .

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 packet processing speed.

※Mail Security※

Filter & Log→

(01) Adds Term setting to **【SSL Certificate Setting > Re-Generate Certificate】** .

(02) Supports to import intermediate certificate at **【SSL Certificate Setting】** .

Anti-Spam→

(01) Adds DNS Server settings to **【Spam Setting > Anti-Spam Setting】** .

(02) Adds Notification Language setting to **【Spam Mail Notice > Notification**

Setting】 .



※VPN※

IPSec Tunnel→

- (01) Supports IKEv2 and PFS settings at **【IPSec Tunnel】** and **【Auto VPN Server/Client】** .
- (02) Adds a loading icon while importing IPSec policies.

PPTP Server→

- (01) Adds “Accounts Expiration Date” to **【PPTP Account List > Add】** .
- (02) Adds a new tab **【PPTP Server Log】** .
- (03) Adjusts interface at **【PPTP Account List > Import】** .

SSLVPN Server→

- (01) Adds “Re-generate Certificate” button to **【SSL VPN Setup > Certificate Message】** .
- (02) Adds “2-Step Verification Validity Extension” with a tip suggestion to **【SSL VPN Setup】** .
- (03) Adds certificate download URL to **【Client SSL VPN】** and **【Client Download Page Setting】** .
- (04) Adds sslvpn-gui (PC client) 64bit.
- (05) Adds “Certificate Message” with a tip suggestion to **【SSL VPN Setup】** .
- (06) Upgrades SSL VPN Server version and reinforces certificate that helps security.
- (07) Supports 2-Step verification to sslvpn-gui (PC client) v1.5.0.6.
- (08) Adjusts to disable VPN service after applying a factory reset.

L2TP→

- (01) Adds “Account Expiration Date” to **【Account List > Add】** .
- (02) Adjusts interface at **【Account List > Import】** .
- (03) Adds a new tab **【L2TP Log】** .

※Tools※

Capture Packet→

Adjusts to select the single port item in bride mode at **【Schedule List > Add】**



※Log※

System Operation→

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

※Status※

Flow Analysis→

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

Dashboard→

- (01) Adds “WAF Abnormal Connection” to display relevant WAF events.
- (02) Adds “report language options” .
- (03) Adjusts to display more query logs at **【Report > Query】** .
- (04) Adds an alert to notify users that queries exceed a certain time threshold at **【Report > Query】** .

※Others※

UI→

- (01) Adjusts to store the certificate files while running the configuration wizard.
- (02) Adjusts some English interface texts.
- (03) Disables autofill password to enhance security.
- (04) Adjusts to hide “password” and adds “new password” items that allow editing to **【each password-related interface】** .
- (05) 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 > Backup & Restore> Auto Backup】** : Default ON (every day, every 1 hour, and backup reserve copies)
 - 【Configuration > Signature Update > Auto Update】** : Default ON
 - 【Configuration > number of items to be displayed】** : Default 30 items
 - 【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.

【Status > Flow Analysis > DNS Query Rank Search > DNS Query Rank Log Setting】 : Default OFF



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.

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