

GWN7000 Firmware Release Note

IMPORTANT UPGRADING NOTE

- **Important security fix on 1.0.6.32. Please upgrade to this or newer version.**
- **If your GWN7000 has firmware version lower than 1.0.2.62 (1.0.2.62 not included), please refer to the beta forum upgrade guide or contact tech support for upgrading assistance.**
- **Downgrading behavior from 1.0.6.28 to 1.0.4.23 or previous firmware will lead to an auto factory reset of GWN7000.**

Table of Content

IMPORTANT UPGRADING NOTE	1
FIRMWARE VERSION 1.0.9.6	4
PRODUCT NAME	4
DATE	4
FIRMWARE FILE INFORMATION	4
ENHANCEMENT/CHANGES.....	4
FIRMWARE VERSION 1.0.9.5	5
PRODUCT NAME	5
DATE	5
FIRMWARE FILE INFORMATION	5
ENHANCEMENT/CHANGES.....	5
FIRMWARE VERSION 1.0.9.4	6
PRODUCT NAME	6
DATE	6
FIRMWARE FILE INFORMATION	6
ENHANCEMENT/CHANGES.....	6
NEW FEATURES OVERVIEW.....	7
FIRMWARE VERSION 1.0.6.32	8
PRODUCT NAME	8
DATE	8
FIRMWARE FILE INFORMATION	8
IMPORTANT UPGRADING NOTE.....	8
ENHANCEMENT/CHANGES.....	8
FIRMWARE VERSION 1.0.6.28	9
PRODUCT NAME	9
DATE	9
IMPORTANT UPGRADING NOTE.....	9
ENHANCEMENT/CHANGES.....	9
KNOWN ISSUE.....	10
NEW FEATURES OVERVIEW.....	11
FIRMWARE VERSION 1.0.4.23	17

PRODUCT NAME	17
DATE	17
IMPORTANT UPGRADING NOTE	17
ENHANCEMENT	17
BUG FIX	17
KNOWN ISSUE	17
FIRMWARE VERSION 1.0.4.20	19
PRODUCT NAME	19
DATE	19
IMPORTANT UPGRADING NOTE	19
ENHANCEMENT	19
BUG FIX	20
KNOWN ISSUE	20
NEW FEATURES OVERVIEW	20
FIRMWARE VERSION 1.0.2.75	26
PRODUCT NAME	26
DATE	26
IMPORTANT UPGRADING NOTE	26
ENHANCEMENT	26
BUG FIX	28
KNOWN ISSUE	28
NEW FEATURES OVERVIEW	28
FIRMWARE VERSION 1.0.2.71	32
PRODUCT NAME	32
DATE	32
IMPORTANT UPGRADING NOTE	32
NOTE	32

FIRMWARE VERSION 1.0.9.6

PRODUCT NAME

GWN7000

DATE

7/6/2020

FIRMWARE FILE INFORMATION

- GWN7000 Firmware file name: gwn7000fw.bin
MD5 checksum: 3f2f152bec5ca86d256ff769ce86baf2

ENHANCEMENT/CHANGES

- Fixed PPPoE WAN slowness issue.
- Fixed an issue of admin to get root shell access by remote command injection.

FIRMWARE VERSION 1.0.9.5

PRODUCT NAME

GWN7000

DATE

3/30/2020

FIRMWARE FILE INFORMATION

- GWN7000 Firmware file name: gwn7000fw.bin
MD5 checksum: a6bf16b9596b4f34b854b5291c06a43c

ENHANCEMENT/CHANGES

- Added support for TLS 1.2

FIRMWARE VERSION 1.0.9.4

PRODUCT NAME

GWN7000

DATE

7/24/2019

FIRMWARE FILE INFORMATION

- GWN7000 Firmware file name: gwn7000fw.bin
MD5 checksum: 9b996ed14fcf7171f75c238d363db1da

ENHANCEMENT/CHANGES

- Added configuration support of **Mesh** for all GWN AP models
- Added configuration support of **External Captive Portal Support** as **Linkyfi**, **Purple**, and **Universal Platform**.
- Enhanced **WiFi Service** by adding configurable options of **Beacon Interval**, **DTIM Period**, and **Convert IP multicast to unicast**.
- Enhanced **Captive Portal features** by adding configurations as **Failsafe mode**, **Byte limit**, **Daily limit**, and **Force To Follow** in Twitter authentication.
- Added configuration support of **ARP Proxy**
- Enhanced **Bandwidth Rules** by adding option to **limit bandwidth Per-Client**
- Added feature of **Client Negotiate Speed Display**
- Added feature of **Slave AP Transfer**

NEW FEATURES OVERVIEW

All new features and enhancement added in this version matches the local AP master features released from 1.0.7.x to 1.0.9.x. For NEW FEATURE OVERVIEW, please refer to any GWN AP model's release journal as Release_Note_model_version.pdf at <http://www.grandstream.com/support/firmware>. For example, Release_Note_GWN7600_1.0.9.13.pdf.

FIRMWARE VERSION 1.0.6.32

PRODUCT NAME

GWN7000

DATE

2/27/2019

FIRMWARE FILE INFORMATION

- GWN7000 Firmware file name: gwn7000fw.bin
MD5 checksum: 66aff44f0ca87b10a615e07510b64d3a

IMPORTANT UPGRADING NOTE

- Same upgrade notes for upgrading from 1.0.4.x to 1.0.6.28 applies to 1.0.6.32.
- Important security fix applied on 1.0.6.32. Please upgrade.

ENHANCEMENT/CHANGES

- Fixed security vulnerability to remote code execution by exploiting a POST AUTH Command
- Improved PPPoE WAN speed upon 1.0.6.28

FIRMWARE VERSION 1.0.6.28

PRODUCT NAME

GWN7000

DATE

8/22/2018

IMPORTANT UPGRADING NOTE

- Before starting to upgrade, please make sure your GWN7610's firmware version is 1.0.2.71 or higher.
- Downgrading behavior from 1.0.6.28 to 1.0.4.23 or previous firmware will lead to an auto factory reset of GWN7000.
- Please only use GWN Access Point firmware version 1.0.6.x with this 1.0.6.28 GWN7000 firmware for master and slave pairing.

ENHANCEMENT/CHANGES

- **Enhanced QoS** features
- Added feature of **Policy Routing**
- Added support of **GRE Tunnels**
- Added support of **IPsec Tunnels**
- Added feature of **Website Blocking**
- Added **WAN interfaces** options for Static Route
- Added feature of **Feature Scheduling**
- Added **NET port as WAN** feature
- Added **WAN/LAN interfaces status on Overview page** on Overview page.
- **Network group** (pre-1.0.4.23 and 1.0.4.23 fw configuration) is split into **LAN** and **SSID** configuration.
- Added feature of **Switch Port LAN Mapping**

- Added feature of **Static DHCP**
- Added **Alert/Email notification of WAN Internet access interruption**
- Added **interface option** in **Ping/Trace Route**
- Changed WAN port VLAN Tag range from 5-4093 to **2-4093**
- Added **System Date and Time** on page header
- Added **Static IP reservation on OpenVPN client**
- Added option to enable/disable **DNS Rebind Attack Protection**
- Added feature of Access Point firmware **Sequential Upgrade**

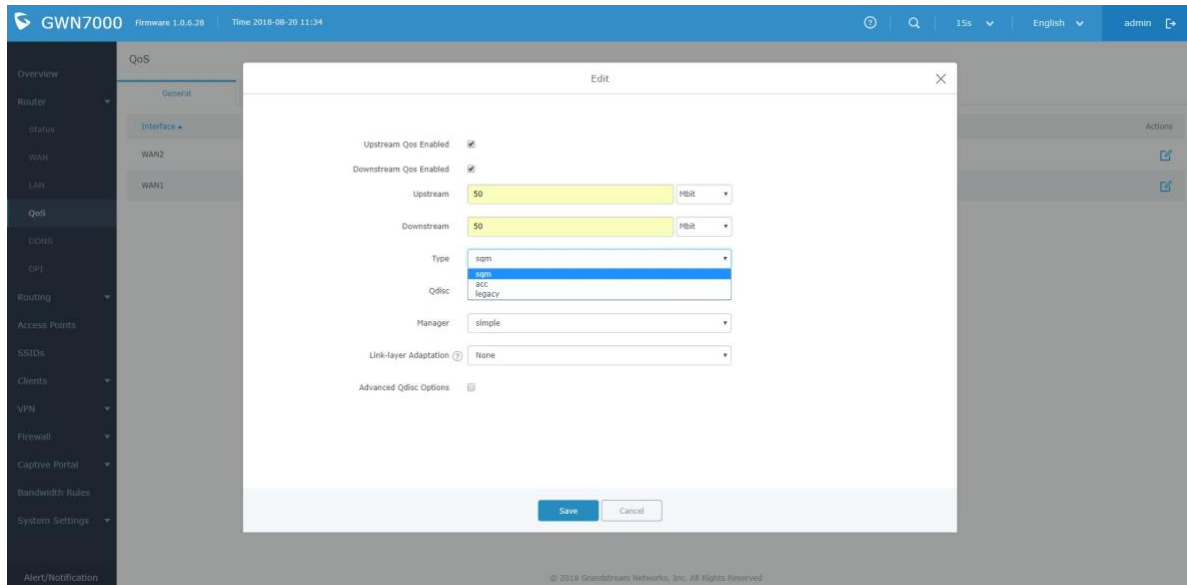
KNOWN ISSUE

- After upgraded from 1.0.4.23 to 1.0.6.23, the old static route does not take effect in routing table.
- When WAN interfaces, including regular WAN and NET port as WAN, are configured with same VLAN Tag, IP routing will be abnormal.
- After blocking wireless client, blocked client will be displayed as wired in the clients list instead of showing in the Blocked client list.
- OpenVPN Server mode doesn't push route in PSK mode
- Unrecognized traffic may be classified as HTTPS in Application Traffic.
- Client's name does not display in list of top clients of overview page.

NEW FEATURES OVERVIEW

- **Enhanced QoS**

QoS Enhancement includes 2 new types of QoS:



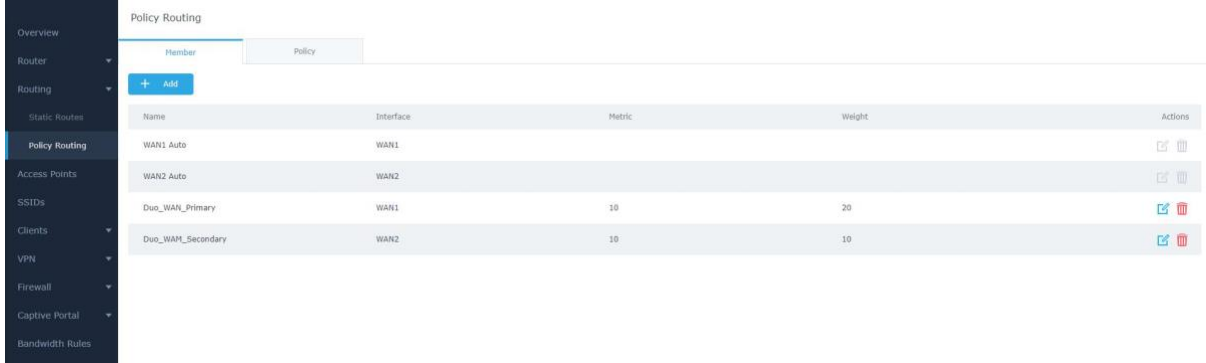
Adaptive Congestion Control (acc): ACC feature combines the power of our original class based QoS, while adding true ingress shaping, and reducing the configuration difficulty. Traditional QoS systems rely on the actual bandwidth provided by your ISP to remain constant; they also require you to set the link rate below what the ISP provisions your link, which leaves the link underutilized. The ACC QoS solves this problem. The ACC QoS also features the anti-bufferbloat and flow fairness of our Smart Queue QoS. Beyond that, the new QoS allows for defining classes so that flows that are latency sensitive and/or need a minimum amount of bandwidth can be placed into; this is extremely useful for VoIP traffic.









Smart Queue Management (sqm): SQM will add multiple simple to configure, but extremely effective forms of QoS that reduces Buffer Bloat and keeps latency at acceptable levels.

- **Policy Routing**

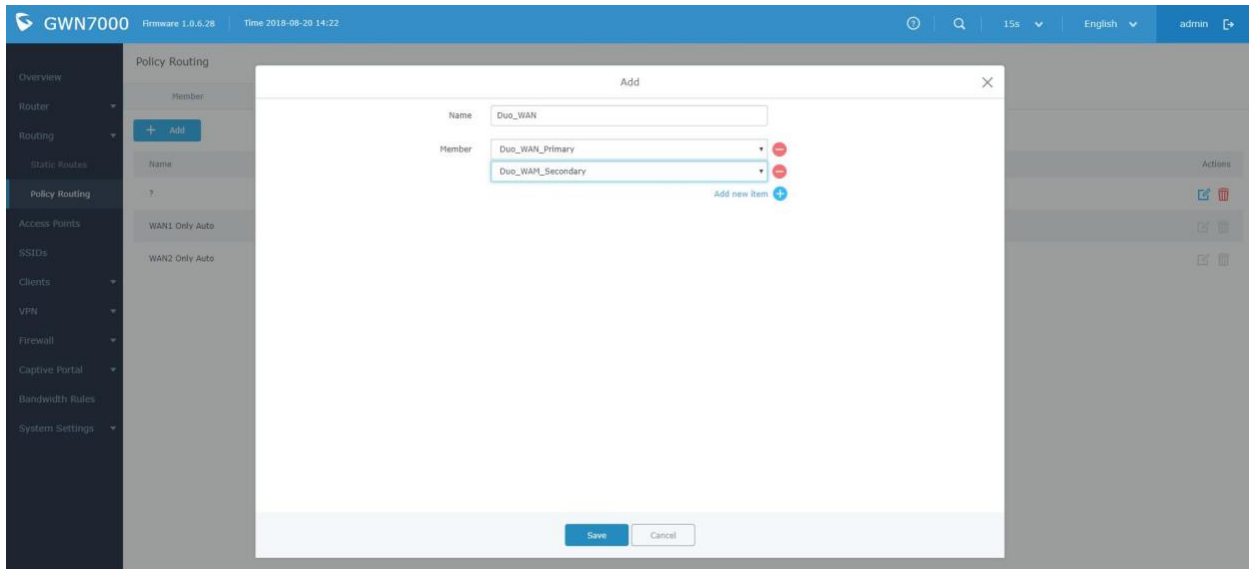
This feature configuration is located at left side menu bar **Routing**→**Policy Routing**.

To use policy routing. You can create members with interface metric and weight.



Name	Interface	Metric	Weight	Actions
WAN1 Auto	WAN1			 
WAN2 Auto	WAN2			 
Duo_WAN_Primary	WAN1	10	20	 
Duo_WAN_Secondary	WAN2	10	10	 

Then you can create policies with members added in.



Members within one policy with a lower metric have precedence over higher metric members. Members with same metric will distribute load based on this weight value.

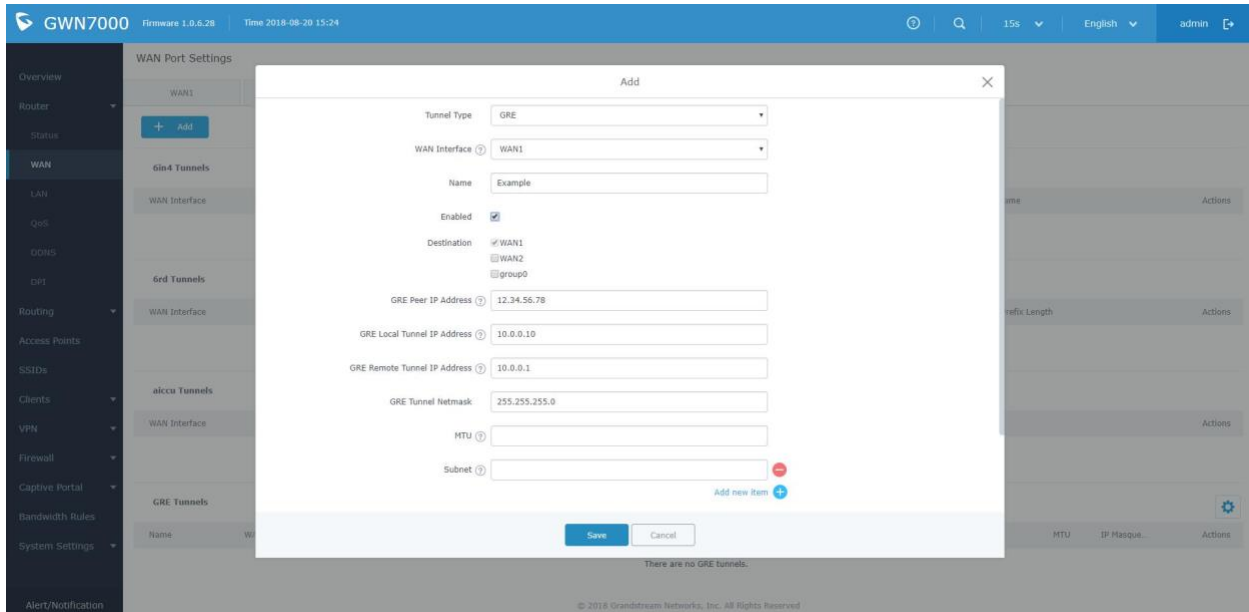
- **Website Blocking**

The Blackhole DNS feature allows the system administrator to download filter lists or create their own filter lists to block DNS queries to URLs or domains. These lists can be used to block adware sites, malware sites, and can be used to block popular social media websites. The administrator can apply this feature to any combination of zones or clients.

Feature configurations are available at **System Settings**→**Website Blocking**.

- **GRE Tunnels**

GRE Tunnels' configuration is located at leftside menu bar **Router**→**WAN**→**Tunnel**.



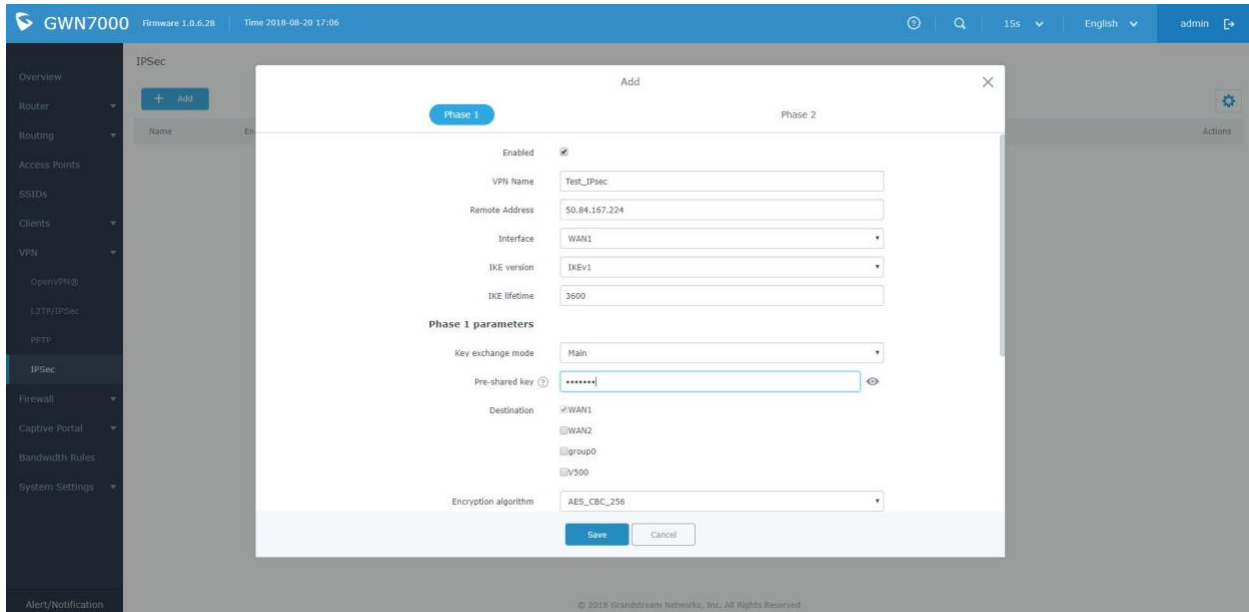
The screenshot shows the GWN7000 web interface with the 'Add' dialog for GRE Tunnels open. The dialog contains the following fields and options:

- Tunnel Type:** GRE
- WAN Interface:** WAN1
- Name:** Example
- Enabled:** ☒
- Destination:** ☒ WAN1, ☐ WAN2, ☐ group0
- GRE Peer IP Address:** 12.34.56.78
- GRE Local Tunnel IP Address:** 10.0.0.10
- GRE Remote Tunnel IP Address:** 10.0.0.1
- GRE Tunnel Netmask:** 255.255.255.0
- MTU:** (empty)
- Subnet:** (empty)

At the bottom of the dialog are 'Save' and 'Cancel' buttons. Below the dialog, a message states 'There are no GRE tunnels.'

- **IPsec Tunnels**

Configuration is available at **VPN**→**IPSec**. Phase 1 and 2 configurations are required to build a connection with remote end.



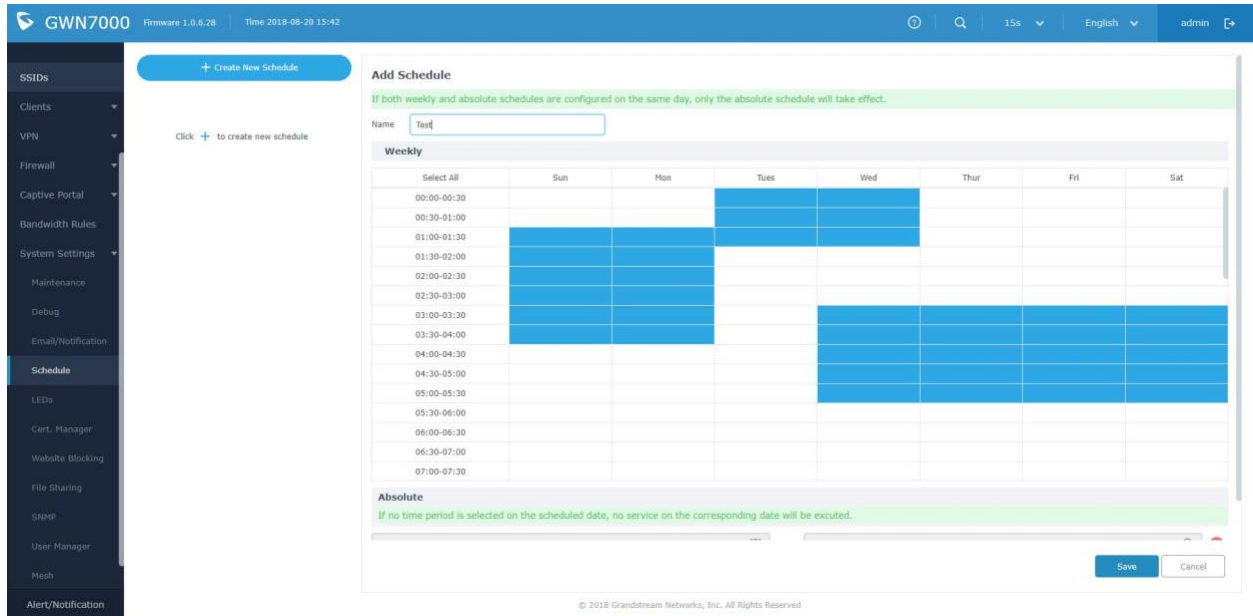
The screenshot shows the GWN7000 web interface with the 'Add' dialog for IPsec Tunnels open, specifically the 'Phase 1' tab. The dialog contains the following fields and options:

- Enabled:** ☒
- VPN Name:** Test_IPsec
- Remote Address:** 50.84.167.224
- Interface:** WAN1
- IKE version:** IKEv1
- IKE lifetime:** 3600
- Phase 1 parameters:**
 - Key exchange mode:** Main
 - Pre-shared key:** (masked with asterisks)
 - Destination:** ☒ WAN1, ☐ WAN2, ☐ group0, ☐ V500
 - Encryption algorithm:** AES_CBC_256

At the bottom of the dialog are 'Save' and 'Cancel' buttons.

- **Feature Scheduling**

Feature scheduling allows user to create and manipulate a set of times/days/dates when specific features of the system are to be enabled and disabled. Its configurations are available at **System Settings→Schedule**.



- **WAN/LAN interfaces status on Overview page**

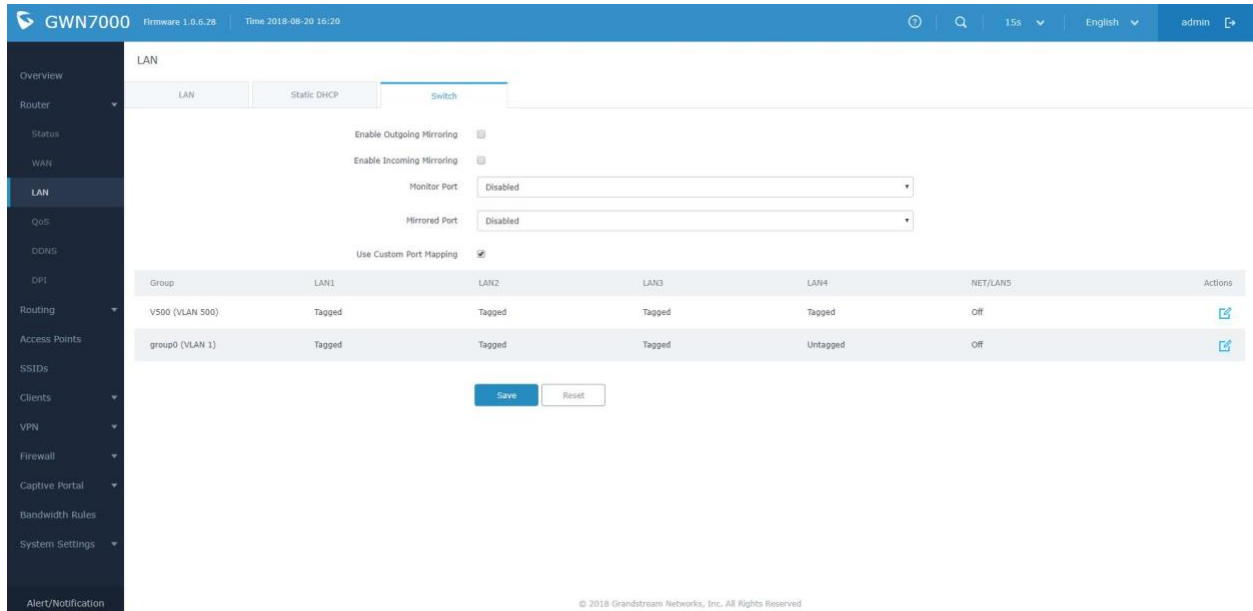
Interface	Status	IPv4	IPv6	Uptime
WAN1	✓	192.168.253.59	fe80::20b:82ff:fe92:1ee8	1d 20h 4m 43s
WAN2	✗			

Interface	Status	Uptime	Link Speed
LAN1/PoE	✗		
LAN2	✓	13s	1000M/FD
LAN3	✗		
LAN4	✓	13s	1000M/FD
NET	✗		

- **Switch Port LAN Mapping**

Custom Port Mapping's configuration is located at **Router**→**LAN**→**Switch**.

Through Customer Port Mapping, admin can configure port mirroring and also 802.1Q like VLAN Tagging on GWN7000 LAN ports.



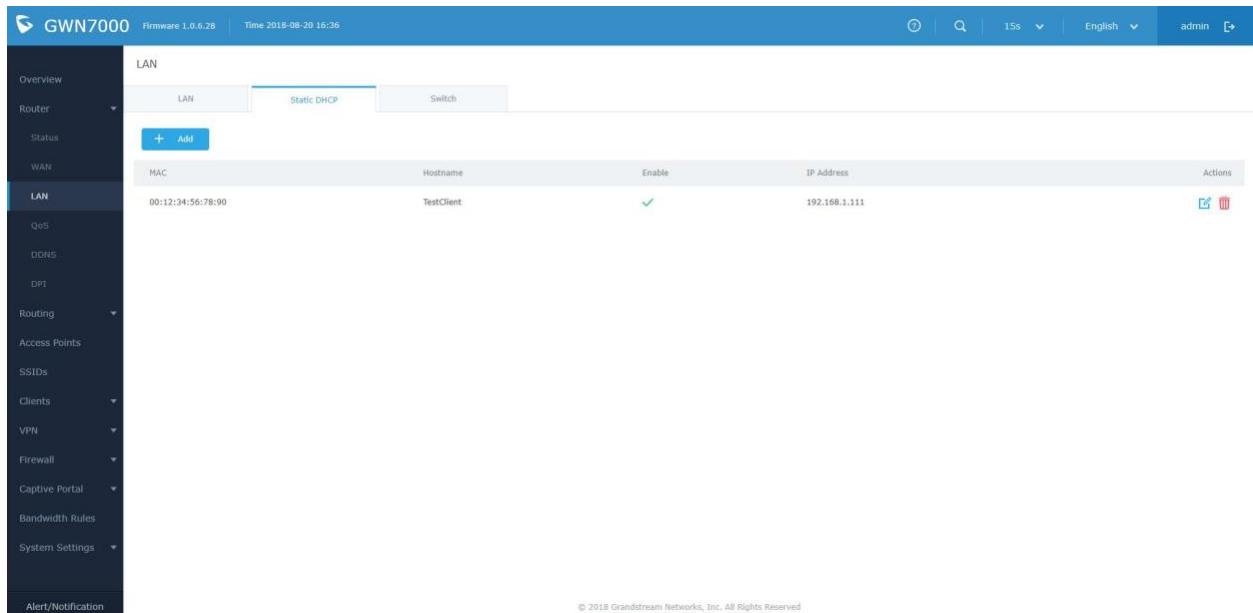
The screenshot shows the GWN7000 LAN configuration page. The left sidebar lists various settings, with 'LAN' selected. The main area has tabs for 'LAN', 'Static DHCP', and 'Switch'. The 'Switch' tab is active, showing options for 'Enable Outgoing Mirroring', 'Enable Incoming Mirroring', 'Monitor Port' (set to 'Disabled'), and 'Mirrored Port' (set to 'Disabled'). Below these is a checkbox for 'Use Custom Port Mapping' which is checked. A table displays port configurations for LAN1 through LAN4 and NET/LAN5. The table has columns for Group, Port, Tagging, and Actions.

Group	LAN1	LAN2	LAN3	LAN4	NET/LAN5	Actions
V500 (VLAN 500)	Tagged	Tagged	Tagged	Tagged	Off	
group0 (VLAN 1)	Tagged	Tagged	Tagged	Untagged	Off	

Buttons for 'Save' and 'Reset' are located below the table.

- **Static DHCP (IP reserving on DHCP server)**

Static DHCP configuration is available at **Router**→**LAN**→**Static DHCP**



The screenshot shows the GWN7000 Static DHCP configuration page. The left sidebar is the same as the previous screenshot, with 'LAN' selected. The main area has tabs for 'LAN', 'Static DHCP', and 'Switch'. The 'Static DHCP' tab is active, showing an '+ Add' button and a table of static DHCP entries. The table has columns for MAC, Hostname, Enable, IP Address, and Actions.

MAC	Hostname	Enable	IP Address	Actions
00:12:34:56:78:90	TestClient		192.168.1.111	

- **Static IP reservation on OpenVPN client**

Configuration is available at **VPN→OpenVPN→Client→Add or Edit→Local TUN IP Address or Remote TUN IP Address.**

- **DNS Rebind Attack Protection**

Configuration is available at **System Settings→Maintenance→Basic→Rebind Protection.**

- **Sequential Upgrade**

The sequential upgrade feature is an improvement to the standard upgrade procedure that triggers the firmware upgrade of one slave access point at a time, rather than all selected access points simultaneously. It's available when you checked multiple slave Access Points for upgrading.

FIRMWARE VERSION 1.0.4.23

PRODUCT NAME

GWN7000

DATE

9/6/2017

IMPORTANT UPGRADING NOTE

- Before starting to upgrade, please make sure your GWN7610's firmware version is 1.0.2.71 or higher.

ENHANCEMENT

- Added support for enable/disable MPPE in both PPTP server and client.

BUG FIX

- Fixed the issue that PPPoE username cannot be longer than 32 characters.
- Fixed the issue that when 6in4 tunnel is configured, firewall INPUT may work improperly by configuring src group other than ALL.
- Fixed the issue that IPv6 forwarding between LAN and WAN may be disable in some configurations.

KNOWN ISSUE

- After blocking wireless client, blocked client will be displayed as wired in the clients list instead of showing in the Blocked client list. The client can still be unblocked from Global Blacklist under Client Access.
- Unrecognized traffic may be classified as HTTPS in Application Traffic.
- GWN PPTP client will fail to connect GWN PPTP server when client uses server's Additional WAN IP.
- Cert. Manager will be abnormal after generate a certificate with very long Chinese name.

- Client's name does not display in list of top clients of overview page.
- GWN7000 does not display NET Port clients on Clients page.
- DPI will function abnormally with multi-WAN configuration.
- OpenVPN Client will function abnormally with multi-WAN uplink.
- OpenVPN server is abnormal by using PSK mode.
- Modifying Client Subnet (OpenVPN Server) in User Manager needs reboot to work.

FIRMWARE VERSION 1.0.4.20

PRODUCT NAME

GWN7000

DATE

8/11/2017

IMPORTANT UPGRADING NOTE

- Before starting to upgrade, please make sure your GWN7610's firmware version is 1.0.2.71 or higher.

ENHANCEMENT

- Added support for **Additional Routed Subnets**
- Added support for **Timed Client Disconnect and Enhanced Client Blocking**
- Added support for **Client Bridge**

GWN76xx Access Point is required for this feature.

- Added support for **Open App ID**
- Added support for **Syslog Server**
- Added support for **PPTP Server**
- Added support for **Smart Queue QoS**
- Added support for **Configurable web UI access port**
- Added support for **E-mail notifications**

Note:

For All new features that require GWN76xx AP, they require the slave AP to use matching firmware.

For GWN7610, please use firmware 1.0.4.20 or higher version.

BUG FIX

- Fixed the bug which causes PPTP VPN low performance,
- Fixed OpenVPN server bug which causes routing failure from OpenVPN server to client in site-to-site VPN configuration.

KNOWN ISSUE

- After blocking wireless client, blocked client will be displayed as wired in the clients list instead of showing in the Blocked client list. The client can still be unblocked from Global Blacklist under Client Access.
- Unrecognized traffic may be classified as HTTPS in Application Traffic.
- GWN PPTP client will fail to connect GWN PPTP server when client uses server's Additional WAN IP.
- Cert. Manager will be abnormal after generate a certificate with very long Chinese name.
- Client's name does not display in list of top clients of overview page.
- GWN7000 does not display NET Port clients on Clients page.
- DPI will function abnormally with multi-WAN configuration.
- OpenVPN Client will function abnormally with multi-WAN uplink.
- OpenVPN server is abnormal by using PSK mode.
- Modifying Client Subnet (OpenVPN Server) in User Manager needs reboot to work.

NEW FEATURES OVERVIEW

- **Additional Routed Subnets**

The additional routed subnets feature allows for the user to specify additional IP addresses to each LAN interface on the GWN7000. These IP address can be used for communicating with the web interface, SSH, or other services running on the device. Additional Firewall configuration is available for supporting this feature as well.

1) Additional IP for WAN interfaces:

WAN Port Settings

WAN Port 1	WAN Port 2	Additional WAN Port	Tunnel	LAN Port	Global Settings	Port Mirroring
<div> <div>Enabled <input checked="" type="checkbox"/></div> <div>Name <input type="text"/></div> <div> <div>WAN Address Type</div> <div>Static IP</div> </div> <div> <div>IPv4 Address</div> <div><small>The field should not be empty</small></div> </div> <div> <div>IPv4 Subnet Mask</div> <div><small>The field should not be empty</small></div> </div> <div> <div>IPv4 Gateway</div> <div><small>The field should not be empty</small></div> </div> <div> <div>Additional IPv4 Addresses</div> <div><input type="text"/></div> <div><small>Add new item</small></div> </div> <div> <div>Preferred IPv4 DNS</div> <div><input type="text"/></div> </div> <div> <div>Alternate IPv4 DNS</div> <div><input type="text"/></div> </div> <div> <div>Native IPv6 <input type="checkbox"/></div> </div> <div> <div>VLAN Tagging <input type="text" value="0"/></div> </div> <div> <div>Save</div> <div>Reset</div> </div> </div>						

2) Additional IP under Network Group configuration:

Enable IPv4 ☒

IPv4 Static Address

Additional IPv4 Static Addresses

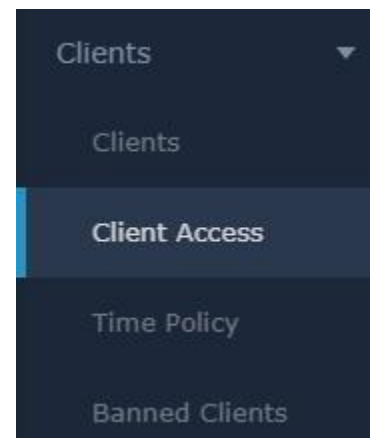
Add new item

3) Firewall Input Rules with added destination IP configuration and Output Rules with added source IP configuration.





• Timed Client Disconnect and Enhanced Client Blocking

The Client Connection Permissions Management enhanced client blocking provides a more manageable method for Wi-Fi client whitelist and blacklist configuration. It allows any combination of globally-maintained connection access control lists to be applied to network groups as desired for blacklisting and whitelisting WIFI clients.

The timed client disconnect feature allows the system administrator to set a fixed time for which clients should be allowed to connect to the access point, after which the client will no longer be allowed to connect for a user configurable cooldown period.



1) New Client bar (See picture on the right)

+ Add			
Name	MAC Addresses		Actions
Global Blacklist			 
Access List 1	(4) 00:00:00:12:34:56, 00:00:00:12:34:57, 00:00:00:12:34:58, 00:00:00:12:34:59		 

2) Client Access

3) Time Policy

+ Add						
Name	Enabled	Connection Time	Reconnect Type	Reconnect Time		Actions
TEST_POLICY	✓	3h	Reset Daily	23:00		 







4) Banned Client This list is moved from original Client page to a separate page now.

• Client Bridge

The Client Bridge feature allows an access point to be configured as a client for bridging wired only clients wirelessly to the network. When an access point is configured in this way, it will share the wifi connection to the LAN ports transparently. This is not to be confused with a mesh setup. The client will not accept wireless clients in this mode.

Once a Network Group has an Client Bridge Support enabled, the AP adopted in this Network Group can be turned in to Bridge Client mode by click the Bridge button:

Please be noted that once an AP it turned into Client Bridge mode, it cannot be controlled by a Master anymore, and a factory reset is required to turn it back into normal AP mode.

	Device Type	Name/MAC	IP Address	Status	Uptime	Firmware	Actions
	GWN7610	00:08:82:97:90:8C	192.168.1.146	Online	1d 17h 51m 13s	1.0.4.19	   

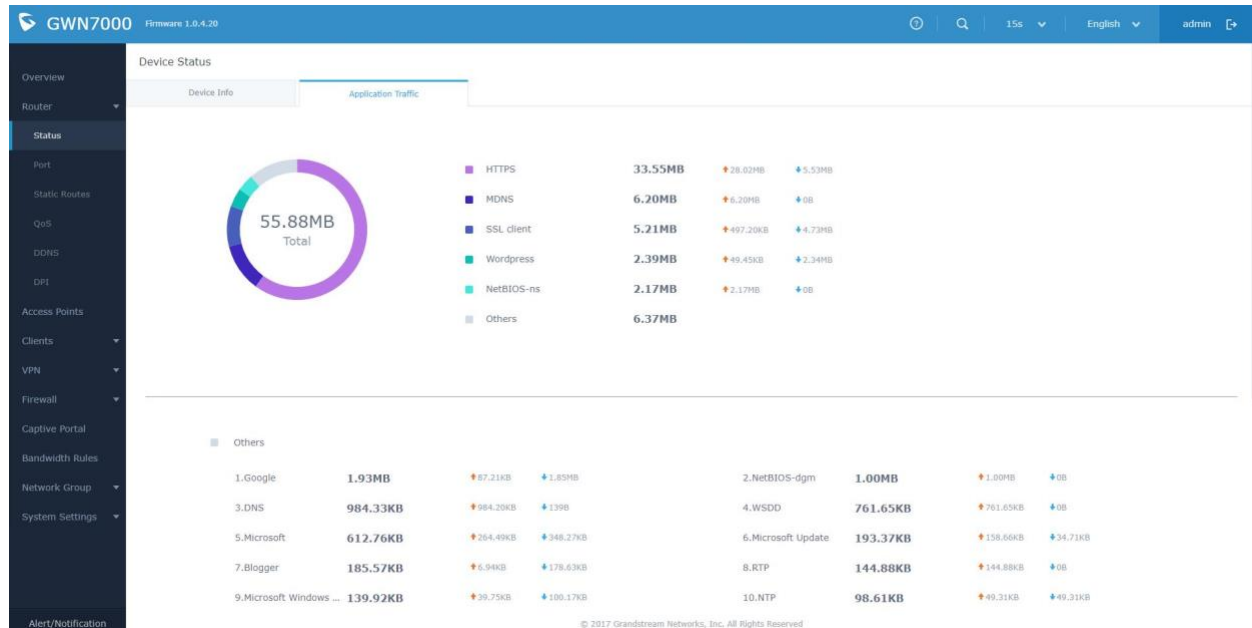
Showing 1-1 of 1 record(s).

Per Page: 10

Bridge

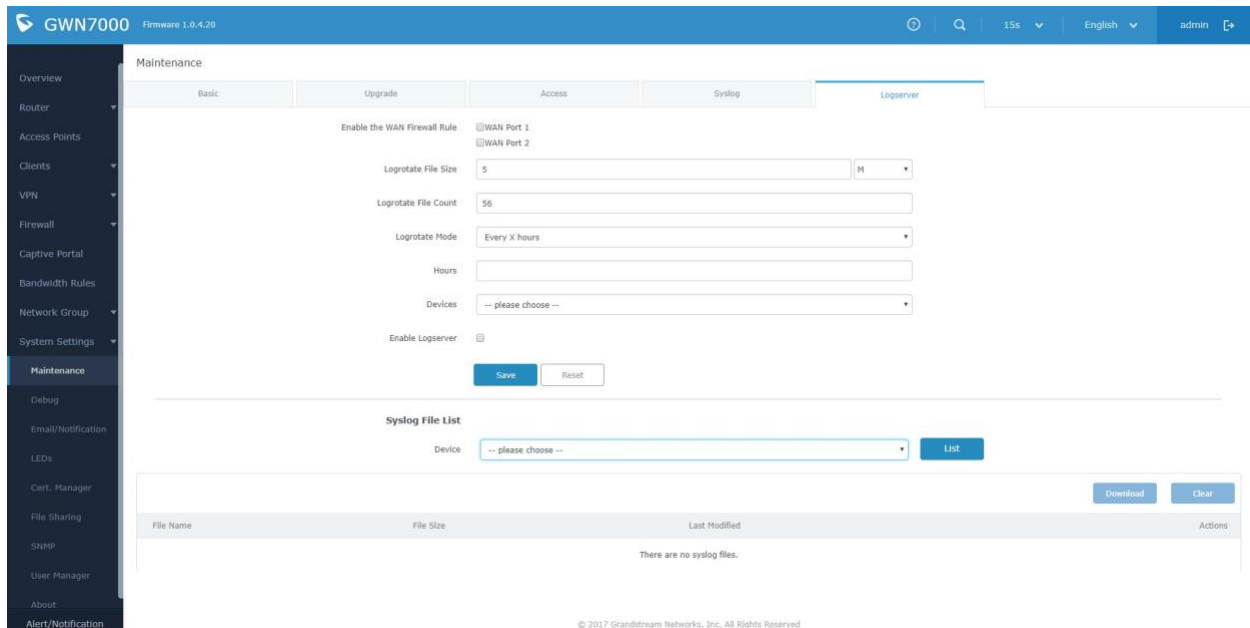
- **Open App ID**

Once DPI is enabled under Router feature. You will be able to see Application Traffic as below in Status:



- **Syslog Server**

Syslog Server is now available on GWN7000. Configuration page is as below:



The screenshot shows the 'Syslog' configuration page in the GWN7000 Maintenance section. It includes fields for enabling the WAN Firewall Rule, Logrotate File Size, Logrotate File Count, Logrotate Mode, Hours, and Devices. There is also a checkbox for 'Enable Logserver' and a 'Syslog File List' section with a 'List' button.

Configuration Fields:

- Enable the WAN Firewall Rule: ☐ WAN Port 1, ☐ WAN Port 2
- Logrotate File Size: 5 M
- Logrotate File Count: 56
- Logrotate Mode: Every X hours
- Hours:
- Devices: -- please choose --
- Enable Logserver: ☐

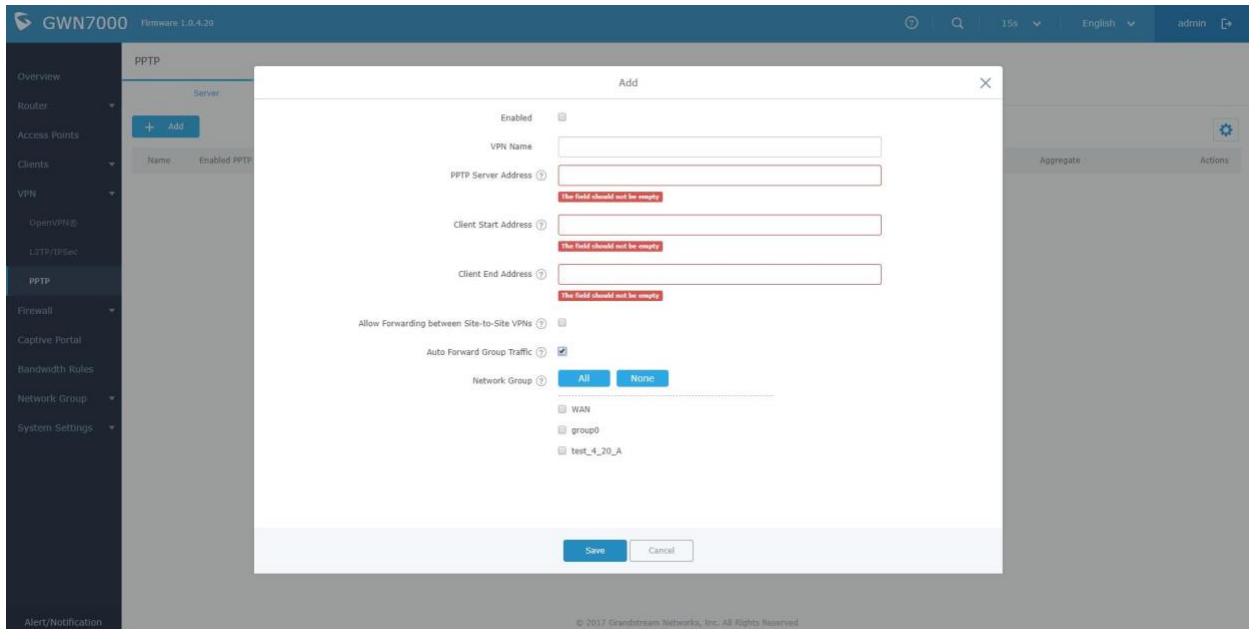
Syslog File List:

Device: -- please choose -- List

File Name	File Size	Last Modified	Actions
There are no syslog files.			

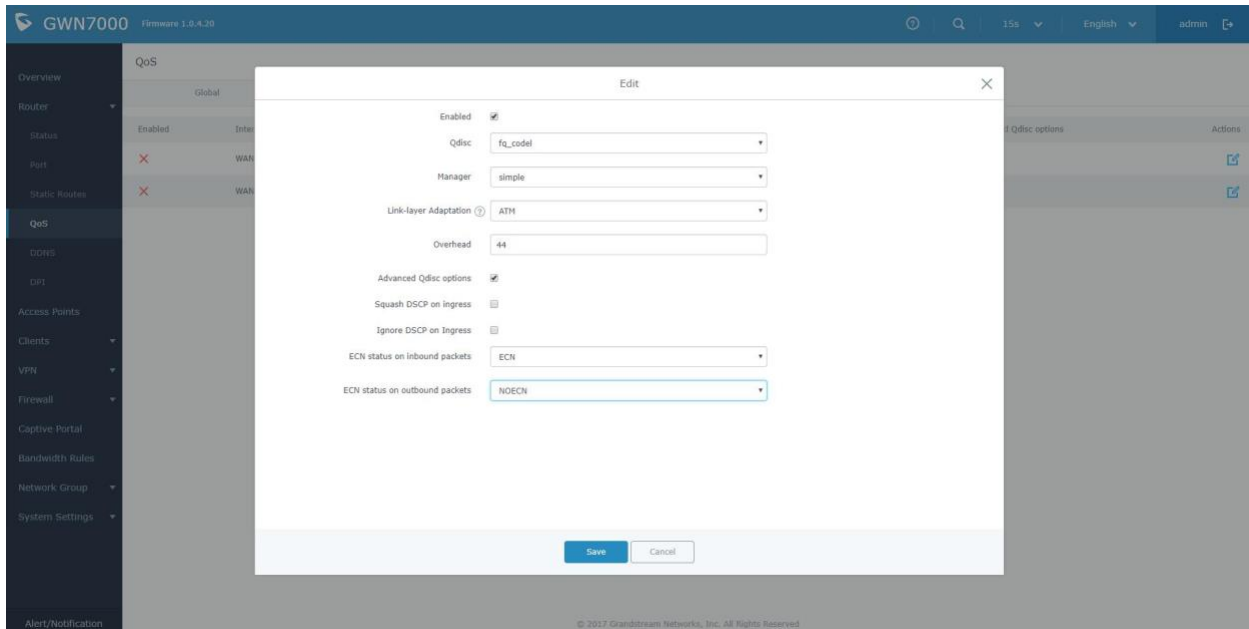
- **PPTP Server**

PPTP server is now available on GWN7000. Configuration page is as below:



- **Smart Queue QoS**

The Smart Queue QoS will add a simple to configure, but very effective form of QoS that reduces buffer



bloat and keeps latency at acceptable levels.

- **Configurable web UI access port**

Under System → Maintenance, following configuration is available now:

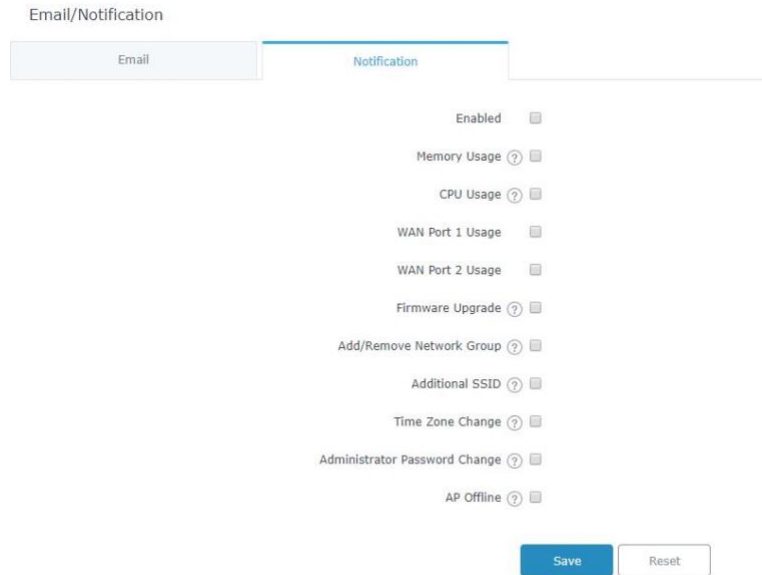
- 1) Web WAN Access;
- 2) Web HTTP Access;
- 3) Web HTTPS Port

- **E-mail notifications**

Email notification allows the administrator to select a predefined set of system events and to send notification upon the change of the set events.

Email notification configuration is under System → Email/Notification.

Selectable system events are listed as right-side screenshot.



Email/Notification

Email Notification

Enabled ☐

Memory Usage ☐ ?

CPU Usage ☐ ?

WAN Port 1 Usage ☐

WAN Port 2 Usage ☐

Firmware Upgrade ☐ ?

Add/Remove Network Group ☐ ?

Additional SSID ☐ ?

Time Zone Change ☐ ?

Administrator Password Change ☐ ?

AP Offline ☐ ?

Save Reset

FIRMWARE VERSION 1.0.2.75

PRODUCT NAME

GWN7000

DATE

6/20/2017

IMPORTANT UPGRADING NOTE

- Before starting to upgrade, please make sure your GWN7610's firmware version is 1.0.2.71 or higher.

ENHANCEMENT

- Added support for Captive Portal
GWN76xx Access Point is required for this feature.
- Added support for 802.11k/r (Enable Voice Enterprise)
GWN76xx Access Point is required for this feature.
- Added support for Select band per SSID
GWN76xx Access Point is required for this feature.
- Added support for Selectively enable b/g/n
GWN76xx Access Point is required for this feature.
- Added support for Exact Radio Power Configuration in dBm
GWN76xx Access Point is required for this feature.
- Added support for AP locating by blinking LED
GWN76xx Access Point is required for this feature.
- Added support for Per-Client/Per-SSID bandwidth management
GWN76xx Access Point is required for this feature.
- Added support for Limit client count per SSID
GWN76xx Access Point is required for this feature.

- Added support for Slave AP LED control.
GWN76xx Access Point is required for this feature.
- Added support for

WIFI schedule

GWN76xx Access Point is required for this feature.

- Added support for Enabling/Disabling DHCP option 66 for firmware upgrade

Note:

For All new features that require GWN76xx AP, they require the slave AP to use matching firmware.

For GWN7610, please use firmware 1.0.3.19 or higher version.

BUG FIX

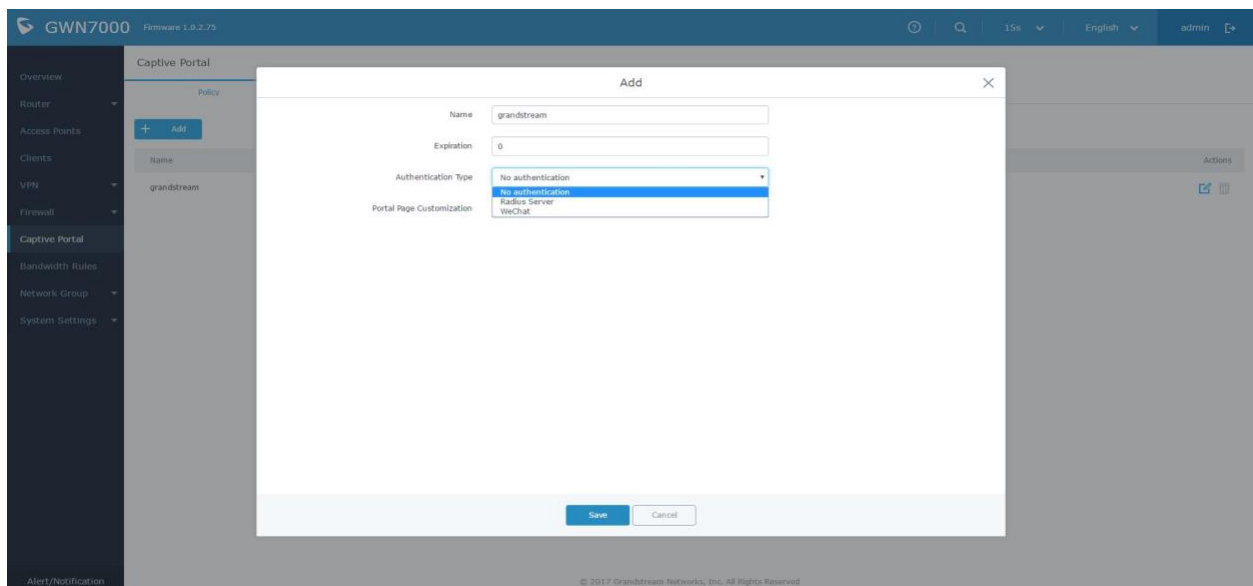
- Internal bug fixes

KNOWN ISSUE

- Site-to-Site VPN has configuration issue, which causes one directional routing problem.
- Enabling both L2TP/IPsec VPN and QoS has low probability that QoS configuration may lost when applying the configuration on web.
- Banned Band steering feature still affect wireless Black/White/Banned client list feature. Please use Band steering or Black/White/Banned client list feature exclusively.

NEW FEATURES OVERVIEW

- Captive Portal



Captive portal is supported in 1.0.2.75 now. We have 3 modes for authentication (No / Radius / WeChat) and customizable page.

- AP locating by blinking LED

Now, when you can't match your AP list on web with your real AP deployment in the field, this feature will help you to find your AP.

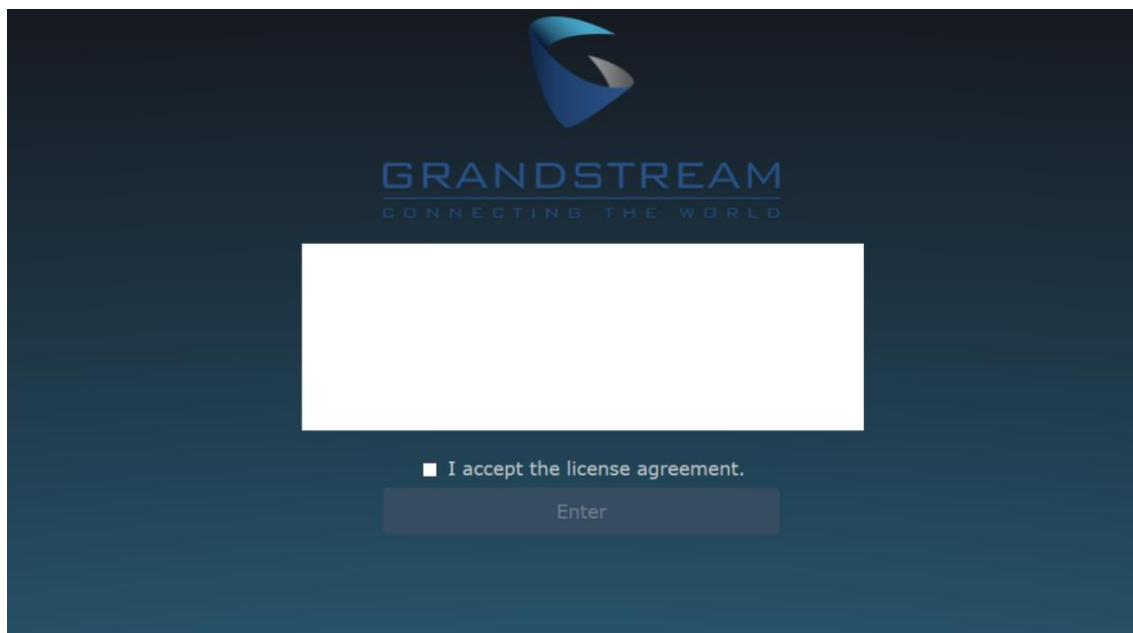
Upgrade	Reboot	+ Add to Network Groups	✖ Configure				
Device Type	Name/MAC	IP Address	Status	Uptime	Firmware	Actions	
GWN7610	00:08:82:97:90:8C	192.168.1.146	Master	1d 16h 3m 1s	1.0.3.15		
GWN7610	00:08:82:88:4E:1C	192.168.1.21	Online	1d 16h 6m 15s	1.0.3.15		

- 802.11k/r (Enable Voice Enterprise)

Configuration available at Network Group->Add/Edit->WiFi-> **Enable Voice Enterprise**.

- Select band per SSID

Configuration available at Network Group->Add/Edit->WiFi-> **SSID band**.



- Selectively enable b/g/n

Configuration available at Access Point->Edit->Configuration-> **Mode** (2.4G).

- Exact Radio Power Configuration in dBm

Configuration available at Access Point->Edit->Configuration-> **Custom 2.4GHz Wireless Power** (dBm).

- Per-Client/Per-SSID bandwidth management

Configuration available at

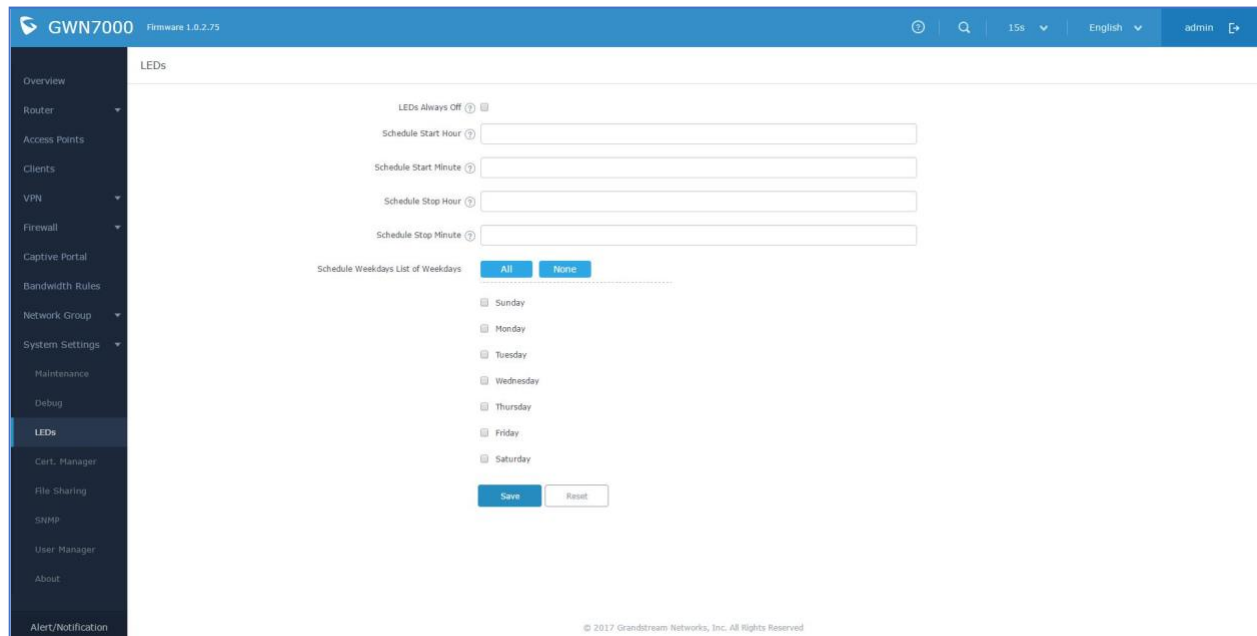
Per-SSID: Network Group->Add/Edit->WiFi-> **Upstream Rate / Downstream Rate.**

Per-Client: Client->Edit->Bandwidth Rules-> Add new item.

- Limit client count per SSID

Configuration available at Network Group->Add/Edit->WiFi-> **Wireless Client Limit.**

- Slave AP LED control.



User can define the LED on/off schedule in following page.

- WIFI schedule

Edit ✕

Basic
Wi-Fi
Device Membership
Schedule

Enable Wireless Schedule ☐

Sunday ☒

Schedule Start Time :
The field should not be empty

Schedule End Time :
The field should not be empty

Monday ☐

Tuesday ☐

Wednesday ☐

Thursday ☐

Friday ☐

Saturday ☐

Save
Cancel

You can configure WIFI on/off schedule under Network Group->Edit->Schedule

- Enabling/Disabling DHCP option 66 for firmware upgrade

Configuration available at System Settings->Maintenance->Upgrade-> **Allow DHCP options 66 and 43 override.**

FIRMWARE VERSION 1.0.2.71

PRODUCT NAME

GWN7000

DATE

3/15/2017

IMPORTANT UPGRADING NOTE

- **If your GWN7000 has firmware below 1.0.2.62 (1.0.2.62 not included), please refer to the beta forum upgrade guide or contact tech support for upgrade assistant.**

NOTE

This is the initial official release of GWN7000.