

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.



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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:

S GWN7000						
Overview	QoS	-	Edit		×	
Router +	General					
Statum	Interface +					Actions
wan	WAN2	Upstream Qos Enabled Downstream Qos Enabled	*			B
L GAN	WAN2		50	Mbit •		ß
QoS						
oons		Downstream	50	Mbit •		
(DP)		Туре	sam sam	•		
Routing		Qdisc	acc legacy			
Access Points		Manager	simple			
SSIDs		Link-layer Adaptation ③	None	•		
Clients 👻		Advanced Qdisc Options	6			
VPN						
Firewall +						
Captive Portal +						
Bandwidth Rules						
System Settings 🔹			Save Cancel			
Alert/Notification						

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** \rightarrow **Policy Routing**.

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

-	Policy Routing					
Overview Router •	Member	Policy				
annesses an	+ Add					
Routing 👻						
Static Routes	Name		Interface	Metric	Weight	Actions
Policy Routing	WAN1 Auto		WAN1			C" 111
Access Points	WAN2 Auto		WAN2			
SSIDs	Duo_WAN_Primary		WAN1	10	20	2 🛍
Clients 👻	Duo_WAM_Secondary		WAN2	10	10	G 📵
VPN -						
Firewall 🔻						
Captive Portal 👻						
Bandwidth Rules						

Then you can create policies with members added in.

S GWN7000) Firmware 1.0.6.28				
Overview Router -	Policy Routing Member		Add	×	
Routing 👻	+ Add	Name Member	Duo_WAN Duo_WAN_Primary		
Static Routes	Name	Hender		0	Actions
Policy Routing	2		Add new iten	• •	S
Access Points	WANI Only Auto				
SSIDs	WAN2 Only Auto				
Clients *					
VPN *					
Captive Portal					
Bandwidth Rules					
System Settings 👻					
			Save Cancel		
			Save Cancel		

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.

S GWN7000						
	WAN Port Settings	-				
Overview	WANE		Add	×		
Router 💌	+ Add	Tunnel Type	GRE			
Status		WAN Interface 🧿	WAN1			
WAN	6in4 Tunnels	Name	Example			
LAN	WAN Interface	Enabled	2		arrue	Actions
QoS:						
polis	6rd Tunnels		BWAN2 Bgroup0			
DPD .		GRE Peer IP Address 🧿				
Routing *	WAN Interface	GRE Local Tunnel IP Address (?)	10.0.0.10		refix Length	Actions
Access Points		GRE Remote Tunnel IP Address (?)				
SSIDs	aiccu Tunnels					
Clients -	WAN Interface		255.255.255.0			Actions
Firewall +		MIN ()				
Captive Portal		Subnet 🕥	•			
Bandwidth Rules	GRE Tunnels		Add new item 😁			0
System Settings *	Name	w22	Save Cancel		MTU IP Masque	Actions
and the second			There are no GRE tunnels,			
Alert/Notification						

IPsec Tunnels

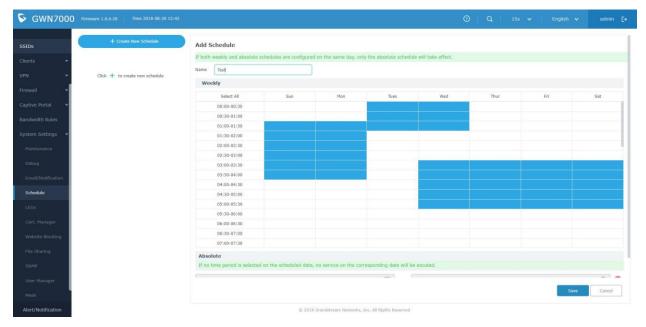
Configuration is available at **VPN** \rightarrow **IPSec**. Phase 1 and 2 configurations are required to build a connection with remote end.

S GWN7000				
Overview	IPSec			
Router	Add Add		×	0
	Phase 1	Phase 2		Actions
Routing *	Enabled 🖉			ACOULTS
Access Points	VPN Name Test_IPsec		_	
SSIDs				
Clients 👻	Remote Address 50.84.167.224			
VPN -	Interface WAN1	*		
OpenVPNg	IKE version IKEv1	•		
L2TP/IPSec	IKE lifetime 3600			
	Phase 1 parameters			
PPTP	Key exchange mode Main			
IPSec	Pre-shared key (9)	ø		
Firewall	Destination #WAN1			
Captive Portal *	ШWANZ			
Bandwidth Rules	[]group0			
System Settings 👻	Ev500			
	Encryption algorithm AES_CBC_256	*	_	
	Save Cancel			
			_	
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• 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

WAN Interfaces					
Interface	Status	IPv4	IPv6	Uptime	
WAN1	~	192.168.253.59	fe80::20b:82ff:fe92:1ee8	1d 20h 4m 43s	
WAN2	×				
AN Interfaces					
AN Interfaces	Status	į	Jptime Li	ink Speed	
	Status ×	Į	Jptime Li	ink Speed	
Interface				ink Speed 000M/FD	
Interface LAN1/PoE	×				
Interface LAN1/PoE LAN2	×	1	.3s 1ı		



• Switch Port LAN Mapping

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

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

S GWN7000) Firmware 1.0.6.28								English 🗸	admin [+
Overview	LAN									
Router -	LAN	Static DHCP	Switch							
Status		Ena	ble Outgoing Mirroring	0						
WAN		Enal	ble Incoming Mirroring							
LAN			Monitor Port	Disabled			•			
QoS			Mirrored Port	Disabled			•			
DDNS		Use	Custom Port Mapping	2						
DPI	Group	LANI		LAN2	LAN3	LAN4	NET/LAI	N5		Actions
Routing 👻	V500 (VLAN 500)	Tagged		Tagged	Tagged	Tagged	Off			Ľ
Access Points	group0 (VLAN 1)	Tagged		Tagged	Tagged	Untagged	Off			Ľ
SSIDs				_						
Clients 🔫				Save	Reset					
VPN 👻										
Firewall 🔹										
Captive Portal 👻										
Bandwidth Rules										
System Settings 🔹										
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• Static DHCP (IP reserving on DHCP server)

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

S GWN7000	Firmware 1.0.6.28						
Overview	LAN						
Router 👻	LAN	Static DHCP	Switch				
Status	+ Add						
WAN	MAC		Hostname	Enable	IP Address		Actions
LAN	00:12:34:56:78:90		TestClient	~	192.168.1.111		C
QoS							
DDNS							
DPI							
Routing 👻							
Access Points							
SSIDs							
Clients •							
Firewall -							
Captive Portal 👻							
Bandwidth Rules							
System Settings 👻							
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• Static IP reservation on OpenVPN client

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

• DNS Rebind Attack Protection

Configuration is available at System Settings \rightarrow Maintenance \rightarrow Basic \rightarrow 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:

N Port Settings						
WAN Port 1	WAN Port 2	Additional WAN Port	Tunnel	LAN Port	Global Settings	Port Mirroring
		Enabled 🗷				
	w	AN Address Type Static IP			*	
	1	IPv4 Address The field should not b Pv4 Subnet Mask	e empty			
		The field should not b	e empty			
	Additiona	The field should not b	e empty		•	
	Pre	ferred IPv4 DNS			Add new item 🕂	
	Alt	ernate IPv4 DNS				
		Native IPv6				
		VLAN Tagging ③ 0				
		Save	Reset			

2) Additional IP under Network Group configuration:

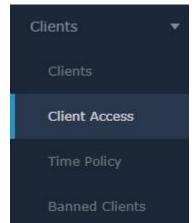
Enable IPv4 💮	
IPv4 Static Address	192.168.1.1
Additional IPv4 Static Addresses	
	Add new item 🕂

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		G
2)	Client Access					
3) + Add	Time Policy					
Name 🔺		Enabled	Connection Time	Reconnect Type	Reconnect Time	Actions
TEST_POLICY		~	3h	Reset Daily	23:00	C 🗇

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	00:0B:82:97:90:8C	192.168.1.146	Online	1d 17h 51m 13s	1.0.4.19	C 27 56 2
Showing	1-1 of 1 record(s).						Per Page: 10 V



• Open App ID

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

S GWN7000									0			admin [+
Overview	Device Status											
Router 💌	Device In	fo	Application Traffic									
Status												
Port				HTTPS		33.55MB	\$ 28.02MB	◆5.53MB				
Static Routes						6.20MB	♦ 6.20MB	♦ 08				
QoS		55.88MB Total		SSL dient		5.21MB	\$497.20KB	♣4,73MB				
DDNS		Iotal		Wordpres	5	2.39MB	₹49.45KB	+2.34MB				
DPI				NetBIOS-	ns	2.17MB	\$2.17MB	+ 08				
Access Points				Others		6.37MB						
Clients •												
VPN +												
Firewall 🔻												
Captive Portal		Others										
Bandwidth Rules												
Network Group 🔹		1.Google	1.93MB	*87.21KB	♣ 1.85MB		2.NetBIC		1.00MB	♦ 1.00MB	€ 08	
System Settings 👻		3.DNS	984.33KB	+984.20KB	♦ 1398		4.WSDD		761.65KB	✤761.65KB	♦ 0B	
		5.Microsoft	612.76KB	₹254.49KB	♦ 348.27KB		6.Micros	oft Update	193.37KB	✤158.66KB	◆ 34.71KB	
		7.Blogger	185.57KB	♦ 6.94KB	♣ 178.63KB		8.RTP		144.88KB	♦ 144.88KB	● 0B	
		9.Microsoft Windows	139.92KB	€ 39.75KB	↓ 100.17KB		10.NTP		98.61KB	♦ 49.31KB	◆49.31KB	
Alert/Notification					© 2017 G	andstream Networks,	Inc. All Rights Res	erved				

• Syslog Server

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

S GWN7000								
Overview	Maintenance							
Router	Basic	Upgrade	Access	Syslog	Logserve	ir)		
Access Points		Enable the WAN Firewall Rule	WAN Port 1					
Clients 👻		Logrotate File Size	5		M •			
VPN -		Logrotate File Count	56					
Firewall 👻		Logrotate Mode	Every X hours					
Captive Portal		Hours						
Bandwidth Rules		Devices	please choose					
Network Group 👻								
System Settings 👻		Enable Logserver						
Maintenance			Save Reset					
Debug		Syslog File List						
Email/Notification		Device	please choose		۲	List		
Cert. Manager						-		
File Sharing							Download	Clear
SIMP	File Name	File Size		Last Modified				Actions
User Manager			7	There are no syslog files.				
About								
Alert/Notification			© 2017 Grandst	ream Networks, Inc. All Rights Reserved				



PPTP Server

S GWN7000						admin [*
Overview	PPTP Server		Add	×		
Router * Access Points	+ Add	Enabled VPN Name				0
Clients -	Name Enabled PPTP	PPTP Server Address ③	The field should not be enquity		Aggregate	Actions
OpenVPHUE L2TP/IPSec		Client Start Address 💮	The Field should not be county			
PPTP Firewall +		Client End Address ⑦	The field should not be roughy	_		
Captive Portal Bandwidth Rules		Auto Forward Group Traffic (?)		_		
Network Group 🔹			e wan	_		
			🔲 test_4_20_A	_		
				_		
			Save Cancel	_		
Alert/Notification			© 2017 Grandstream Networks, Inc. All Rights Reserved			

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

SWN7000	Firmware 1.0.4.20				⑦ Q. 15s ♥ English ♥	admin [+
Overview	QoS Global	1	Edit		×	
Router 👻	Enabled In		Ø fq_codel		d Qdisc options	Actions
Port	×w		simple	•		C
Static Routes	×w			•		Ľ
QoS DDH5		Overhead	44			
OPI		Advanced Qdisc options	×			
Access Points		Squash DSCP on Ingress Ignore DSCP on Ingress				
Clients 👻		ECN status on inbound packets	ECN	*		
VPN ·		ECN status on outbound packets	NOECN	•		
Captive Portal						
Bandwidth Rules						
Network Group 👻						
			Save Cancel			
Alert/Notification			© 2017 Grandstream Networks, Inc. All R	ghts Reserved		

bloat and keeps latency at acceptable levels.



• Configurable web UI access port

Under System \rightarrow 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 \rightarrow Email/Notification.

Selectable system events are listed as right-side screenshot.

Notification	Email
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 💮 🔲	



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

S GWN7000	Firmware 1.0.2.75			0 Q 1	5s 👻 English 👻	admin 🕒
	Captive Portal					
	Policy		Add	×		
	+ Add	Name	grandstream			
		Expiration	0			
	Plane	Authentication Type	No authentication			Actions
	grandstream	Portal Page Customization	No authentication Radius Server			e
			WeChat			
			Save			
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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.

🕀 Up	grade 📿 Reboot	+ Add to Network Groups 🔀 Con	figure				0
8	Device Type	Name/MAC	IP Address	Status	Uptime	Firmware	Actions
0	GWN7610	00:0B:82:97:90:8C	192.168.1.146	Master	1d 16h 3m 1s	1.0.3.15	C 8 2
0	GWN7610	00:0B:82:8B:4E:1C	192.168.1.21	Online	1d 16h 6m 15s	1.0.3.15	Locate the device

• 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.**

GRANDSTREAM	
■ I accept the license agreement.	

• 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.

S GWN700) Firmware 1.0.2.75			English 🗸	
Overview	LEDs				
Router 💌	LEDs Always Off 💮 🗐				
Access Points	Schedule Start Hour ⑦				
Clients	Schedule Start Minute 💮				
VPN -	Schedule Stop Hour (?)				
Firewall 💌	Schedule Stop Minute (?)				
Captive Portal	Schedule Weekdays List of Weekdays All None				
Bandwidth Rules					
Network Group 👻	Sunday				
System Settings 👻	🖉 Monday 😨 Tuesday				
Maintenance	Wednesday				
Debug	🗐 Thursday				
LEDS	🔲 Friday				
Cert. Manager	Saturday				
File Sharing	Save Reset				
SNMP					
User Manager					
About					
Alert/Notification	© 2017 Gr	ndstream Networks, Inc. All Rights Reserved			

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



• WIFI schedule

	Edit	×
Basic Wi-Fi	Device Membership Sd	hedule
Enable Wireless Schedule	0	
Sunday		
Schedule Start Time	· · · · · · · · · · · · · · · · · · ·	
Schedule End Time	The field should not be empty :	
Monday	The field should not be empty	
Tuesday		
Wednesday		
Thursday		
Friday		
Saturday		
	Save	

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.