

## GWN76xx Firmware Release Notes

### IMPORTANT UPGRADING NOTE

- [9/26/2022] 1.0.23.14 for GWN7624 and GWN7625 has been released to fix the same SSH security bug in 9/19/2022 releases. Affected models are highly suggested to upgrade to the latest firmware.
- [9/19/2022] 1.0.23.6 for GWN7600/7600LR/7610/7660/7660LR/7664/7664LR and 1.0.23.13 for GWN7630/7630LR/7605/7605LR/7615 has been released. An SSH security bug has been fixed since this version. Affected models are highly suggested to upgrade to the latest firmware.
- [7/15/2021] [GWN7610 / GWN7600 / GWN7600LR] Please upgrade to 1.0.19.29 for security fix against Wi-Fi FragAttacks.
- [6/4/2021] [GWN7630 / GWN7630LR / GWN7605 / GWN7605LR / GWN7615] Please upgrade to 1.0.19.29 for security fix against Wi-Fi FragAttacks.
- [3/14/2020] [All APs 1.0.15.x] Due to the security enhancement, unless **Legacy TLS Compatibility** (only available on 1.0.15.4 or higher version) is enabled, master AP on 1.0.15.4 or higher firmware will not compatible with slave AP on firmware lower than 1.0.15.4. Master AP on firmware lower than 1.0.15.4 will also not be compatible with slave AP on firmware 1.0.15.4 or higher. Cloud and GWN Manager will still support both firmwares.
- [3/14/2020] [All APs 1.0.15.x] Do not use 1.0.15.x AP firmware with GWN7000 1.0.9.x or lower version.
- [12/14/2018] [All APs 1.0.8.17] In order to enable your AP's capability of connecting GWN Cloud EU server, AP needs to be upgraded to 1.0.8.17 or above.
- [6/15/2018] [GWN7600&7600LR 1.0.6.41] Starting from 1.0.6.x, GWN7600 and GWN7600LR will share same firmware file name gwn7600fw.bin. As a result, when GWN7600LR upgrades from pre-1.0.6.x to latest firmware, it will still retrieve firmware with name gwn7600lrfw.bin, and when GWN7600LR upgrades from 1.0.6.x or post-1.0.6.x to other firmware, it will retrieve firmware with name gwn7600fw.bin. So, when your GWN7600LR upgrades from pre-1.0.6.x firmware, you will need to manually modify the target firmware name to gwn7600lrfw.bin.

- [1/26/2017] [All APs 1.0.5.15] For firmware 1.0.5.15 (GWN7610) and 1.0.5.13 (GWN7600& GWN7600LR), this is only for GWN7610/GWN7600/GWN7600LR master deployment. All users with GWN7000 as master are NOT encouraged to upgrade until 1.0.5.x matching firmware is available for GWN7000, due to the compatibility of new features.
- [8/11/2017] [All APs 1.0.4.22] Please upgrade to 1.0.4.12 or higher version to get the patch for WPA2 4-way handshake vulnerability.
- [8/11/2017] [GWN7610 1.0.3.21] Before starting to upgrade to latest firmware, please make sure your GWN7610's firmware version is 1.0.2.108 or higher. Also, please make sure your GWN7000 master (if any)'s firmware version is 1.0.2.71 or higher.

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## FIRMWARE FILE DOWNLOAD

Individual firmware files are available for downloading at URL below:

<https://www.grandstream.com/support/firmware>

## [04/05/2024] FIRMWARE VERSION 1.0.25.18

### PRODUCT NAME

GWN7660/GWN7660LR

### DATE

04/05/2024

### FIRMWARE FILE INFORMATION

- GWN7660/GWN7660LR Firmware file name: gwn7660fw.bin  
MD5 checksum: f23b95b7d462491390bdc773b841719e

### CHANGES/ENHANCEMENT

- Added **L2TPv3** tunnel support
- Internal bug fixes

### NEW FEATURE OVERVIEW

- **Added L2TPv3 tunnel support.**

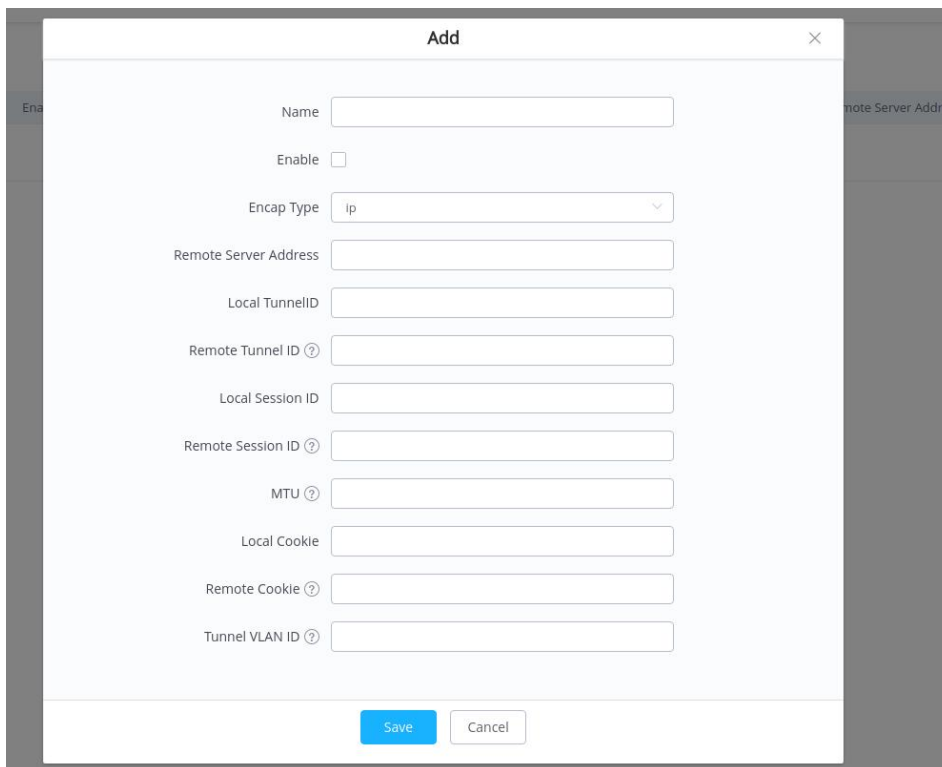
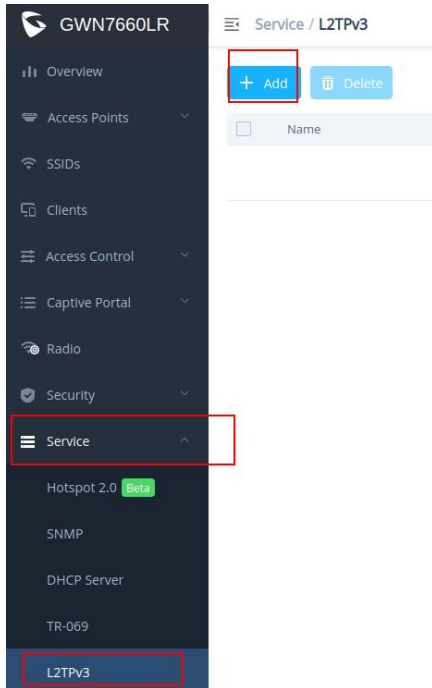
This feature will allow admins to enable and configure L2TPv3 on the device. Please refer to the screenshots and options below.

Note: It is best to set the MTU to match the server to avoid network connectivity issues.

- **Name:** Set the name of the tunnel.
- **Encap Type:** Set the encapsulation type of the tunnel. Valid values for encapsulation are: UDP, IP.
- **Remote Server Address:** Set the IP address of the remote peer.
- **Local Tunnel ID:** Set the tunnel id, which is a 32-bit integer value. This uniquely identifies the tunnel.
- **Remote Tunnel ID:** Set the peer tunnel id, which is a 32-bit integer value assigned to the tunnel by the peer.
- **Local Session ID:** Set the session id, which is a 32-bit integer value. This uniquely identifies the session being created. The value used must match the peer\_session\_id value being used at the peer.
- **Remote Session ID:** Set the peer session id, which is a 32-bit integer value assigned to the session by the peer. The value used must match the session\_id value being used at the peer.
- **Local Cookie:** Set an optional cookie value to be assigned to the session. This is a 4 or 8 byte value, specified as 8 or 16 hex digits, e.g. 014d3636deadbeef. The value must match the peer\_cookie value set at the peer. The cookie value is carried in L2TP data packets and is checked for expected value at the peer. Default setting is no cookie used.
- **Remote Cookie:** Set an optional peer cookie value to be assigned to the session. This is a 4 or 8 byte value, specified as 8 or 16 hex digits, e.g. 014d3636deadbeef. The value must match the cookie value

set at the peer. It tells the local system what cookie value to expect to find in received L2TP packets. Default is no cookie used.

- **Tunnel VLAN ID:** The tunnel ID must be set in SSID, and make sure that SSID only has the AP(s) who enabled L2TPv3.



The 'Add' dialog box contains the following configuration fields:

- Name:
- Enable:
- Encap Type:
- Remote Server Address:
- Local TunnelID:
- Remote Tunnel ID (?):
- Local Session ID:
- Remote Session ID (?):
- MTU (?):
- Local Cookie:
- Remote Cookie (?):
- Tunnel VLAN ID (?):

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

## [04/01/2024] FIRMWARE VERSION 1.0.25.2

### PRODUCT NAME

GWN7603

### DATE

04/01/2024

### FIRMWARE FILE INFORMATION

- GWN7603 Firmware file name: gwn7603fw.bin  
MD5 checksum: 6dbb60516b13575561f3b840ae84b5c0

### CHANGES/ENHANCEMENT

- This is the initial release for GWN7603.



## [02/07/2024] FIRMWARE VERSION 1.0.25.15

### PRODUCT NAME

GWN7660 / GWN7660LR / GWN7661 / GWN7662 / GWN7664 / GWN7664LR

### DATE

02/07/2024

### FIRMWARE FILE INFORMATION

- GWN7660/GWN7660LR Firmware file name: gwn7660fw.bin  
MD5 checksum: b9f7596cc0e58ecc1a6b4c30e85de6dd
- GWN7661 Firmware file name: gwn7661fw.bin  
MD5 checksum: d15de4296c58fcc969f6e50d4994c73e
- GWN7662 Firmware file name: gwn7662fw.bin  
MD5 checksum: b2695161b701306b379836018c4a7427
- GWN7664/GWN7664LR Firmware file name: gwn7664fw.bin  
MD5 checksum: 2704e1d0c46cc8e557b45004949bbc

### CHANGES/ENHANCEMENT

- Fixed devices display no usage issue.
- Fixed 2.4GHz randomly goes down issue.
- Fixed AP getting high memory usage alert and reboot issue.
- Fixed option 43 SSH representation incomplete issue.
- Fixed devices not able to connect to AP issue.
- Fixed device unable to pass Radius Attribute 8 issue.
- Internal bug fixes

## [9/25/2023] FIRMWARE VERSION 1.0.25.10

### PRODUCT NAME

GWN7600 / GWN7600LR / GWN7602 / GWN7605 / GWN7605LR / GWN7610 / GWN7615 / GWN7624 / GWN7625 / GWN7630 / GWN7630LR / GWN7660 / GWN7660LR / GWN7661 / GWN7662 / GWN7664 / GWN7664LR

### DATE

09/25/2023

### FIRMWARE FILE INFORMATION

- GWN7600/GWN7600LR Firmware file name: gwn7600fw.bin  
MD5 checksum: 4f2c31ce8a61561836a26ba26a988688
- GWN7602 Firmware file name: gwn7602fw.bin  
MD5 checksum: 557305b48670346b402272612149c62b
- GWN7605 Firmware file name: gwn7605fw.bin  
MD5 checksum: 4618f0097fc8bc8f67d0e7f772ef26cf
- GWN7610 Firmware file name: gwn7610fw.bin  
MD5 checksum: 46adad8e5dad13949448ebb4115adfa0
- GWN7615 Firmware file name: gwn7615fw.bin  
MD5 checksum: 02b467a953ec10d1e7abf599548260b7
- GWN7624 Firmware file name: gwn7624fw.bin  
MD5 checksum: b1504016daa8aed00851783874669ffa
- GWN7625 Firmware file name: gwn7625fw.bin  
MD5 checksum: a57c870cb7dc335931e34aec3eb166b
- GWN7630/GWN7630LR Firmware file name: gwn7630fw.bin  
MD5 checksum: 04851750a0166ee23c00d22164d927e0
- GWN7660/GWN7660LR Firmware file name: gwn7660fw.bin  
MD5 checksum: d670a93746688c892ac26da1a0536362
- GWN7661 Firmware file name: gwn7661fw.bin  
MD5 checksum: bdf04169774250d90bf3750d7c6115f7
- GWN7662 Firmware file name: gwn7662fw.bin  
MD5 checksum: ccad3a8c586cfcddcee13d359ca56cc8
- GWN7664/GWN7664LR Firmware file name: gwn7664fw.bin  
MD5 checksum: fa19b76ad61c4201b858e002a3f00adf

### CHANGES/ENHANCEMENT

- Added support for Speed Test (**Not supported by GWN7610 & GWN7602**)
- Internal bug fixes

## [8/21/2023] FIRMWARE VERSION 1.0.25.9

### PRODUCT NAME

GWN7662

### DATE

08/21/2023

### FIRMWARE FILE INFORMATION

- GWN7662 Firmware file name: gwn7662fw.bin  
MD5 checksum: 3bb8ef4c96ff8e9d0911b2aa7e678eb2

### CHANGES/ENHANCEMENT

- Fixed device does not automatically fall back to 80M bandwidth when set to a fixed channel.

## [8/10/2023] FIRMWARE VERSION 1.0.25.8

### PRODUCT NAME

GWN7661

### DATE

08/10/2023

### FIRMWARE FILE INFORMATION

- GWN7661 Firmware file name: gwn7661fw.bin  
MD5 checksum: fa6cf7fb95f4ce3c5414dfe30a311769

### CHANGES/ENHANCEMENT

- Fixed device error and reboot after configuring multiple clients for syslog.
- Fixed the device restart abnormally after the band steering function is enabled.
- Fixed the AP cannot connect to internet when connected to the switch with the spanning tree enabled.

## [7/24/2023] FIRMWARE VERSION 1.0.25.7

### PRODUCT NAME

GWN7610 / GWN7600 / GWN7600LR / GWN7602 / GWN7615 / GWN7605 / GWN7605LR / GWN7630 / GWN7630LR / GWN7624 / GWN7625 / GWN7660 / GWN7660LR / GWN7664 / GWN7664LR

### DATE

07/24/2023

### FIRMWARE FILE INFORMATION

- GWN7610 Firmware file name: gwn7610fw.bin  
MD5 checksum: 82f76dd2842d9feb99f3f7c96568bb31
- GWN7600/GWN7600LR Firmware file name: gwn7600fw.bin  
MD5 checksum: 1b2c747359ef26d219bfbb7c637e4f0
- GWN7602 Firmware file name: gwn7602fw.bin  
MD5 checksum: 3f3730f21c2cfaa95869453843e3a7e
- GWN7615 Firmware file name: gwn7615fw.bin  
MD5 checksum: f702e84289ea12c0179a3e0eabe79e0b
- GWN7605/GWN7605LR Firmware file name: gwn7605fw.bin  
MD5 checksum: 149d7a9eed6307e1b840e280b8c3b501
- GWN7630/GWN7630LR Firmware file name: gwn7630fw.bin  
MD5 checksum: 6047a2e2356fb4f51b718be5ca214ea9
- GWN7624 Firmware file name: gwn7624fw.bin  
MD5 checksum: 6a03e981a15af54cec7b9dbad7027d91
- GWN7625 Firmware file name: gwn7625fw.bin  
MD5 checksum: 001f2f5413bed501e39fa8451bd88aaa
- GWN7660/GWN7660LR Firmware file name: gwn7660fw.bin  
MD5 checksum: 1d4d6f1459c809df7ec97b8eab0e9aa1
- GWN7664/GWN7664LR Firmware file name: gwn7664fw.bin  
MD5 checksum: 555e6f514b72a35d057126a7bdebedd2

### CHANGES/ENHANCEMENT

- Increased PPSK profiles.
- Increased the client expiration time to 30 days.
- Added device name in syslog messages.
- Added 80MHz channel width in Indonesia country for the 5G band.
- Added support for timestamp and security signature on the URL redirect.
- Fixed radio configuration about DFS channel does not take effect.
- Fixed slave AP automatically factory reset when transferring to the Manager.
- Fixed obscured characters from the schedule name.

- Modified the countermeasure prompt.
- Fixed terminal VLAN ID and downlink PVID intercepts issue when they are different.
- Fixed GWN menu “Error received: -16”.
- Fixed the network card status switches multiple times after first pairing.
- Fixed client not getting any IP when the configured VLAN ID is set to 2.
- Fixed RE slow issue when connected to it, also fixed the RE disconnected issue when acquiring IP.
- Fixed physical port VLAN tag does not work issue.
- Fixed wrong LED test light status issue.
- Fixed 5G TX power test failed issue.
- Fixed AP CPU temperature consistently display as 20°C issue.
- Fixed “5G channel automatically switched from 6 to 161” prompt issue when switching SSID from dual to 5G.
- Fixed not receiving alarm notification after changing alarm setting frequently.
- Fixed AP not responding to cloud after receiving the distributed configuration.
- Fixed the alert settings “AP channel automatically switched” should not contain channel 0 issue.
- Fixed the password authenticate fails when set above 11 digits.
- Fixed DHCP relay feature unusable when switched the primary device.
- Fixed the voucher status displayed issue.
- Fixed unable to kick out the terminal connected to slave issue.
- Fixed the LED light turns on too slow issue after powering up.
- Fixed AP keeps rebooting when there are too many SSIDs in the environment.
- Fixed slave AP reboot and generate panic core issue.
- Fixed network loop occurs issue.
- Fixed secondary channel set lower than main channel but still displayed wrong in the AP channel list issue.
- Fixed devices automatically reboot when associated with 2.4G band.
- Fixed devices crash after receiving the configuration from the cloud.
- Fixed “Error” prompt when acquiring logs after adding devices onto cloud.
- Fixed Honeywell thermostats not connecting issue.
- Fixed the wireless device cannot obtain IP address issue when enabling DHCP service.

## NEW FEATURE OVERVIEW

- **Added support for custom Channel on 2.4G band.**

This feature will allow admins to customize the desired channel on the 2.4G band.

Web UI:

Access Points → Configuration → Device Configuration

### Device Configuration



PVID ?

Allowed VLAN(s) ?

#### 2.4G (802.11b/g/n)

Disable 2.4GHz ?

Channel Width ?

Channel ?

Radio Power ?

Enable Minimum RSSI ?

Minimum Access Rate Limit ?

#### 5G (802.11a/n/ac)

Disable 5GHz ?

Channel Width ?

Channel ?

Save

Cancel

On GWN Cloud:

Settings → Wi-Fi → Global Radio Settings → 2.4G

2.4G (802.11b/g/n/ax) ^

Channel Width ⓘ  20MHz  20MHz/40MHz  40MHz

Channel ⓘ

Custom Channel

Radio Power ⓘ

## [5/31/2023] FIRMWARE VERSION 1.0.25.3

### PRODUCT NAME

GWN7610 / GWN7600 / GWN7600LR / GWN7602 / GWN7615 / GWN7605 / GWN7605LR / GWN7630 / GWN7630LR / GWN7624 / GWN7625 / GWN7660 / GWN7660LR / GWN7664 / GWN7664LR

### DATE

05/31/2023

### FIRMWARE FILE INFORMATION

- GWN7610 Firmware file name: gwn7610fw.bin  
MD5 checksum: b537c0193a921ec369d51b958a7fb417
- GWN7600/GWN7600LR Firmware file name: gwn7600fw.bin  
MD5 checksum: 5e12bb0a9d1b160b35955ed024c0c8af
- GWN7602 Firmware file name: gwn7602fw.bin  
MD5 checksum: 2afd0759f076f67eb0f5be2258fc74af
- GWN7615 Firmware file name: gwn7615fw.bin  
MD5 checksum: 17ccd9bfe20ffcc54bf3a2b0e5ac23a0
- GWN7605/GWN7605LR Firmware file name: gwn7605fw.bin  
MD5 checksum: 0d5660527e6353f943ae0f212b1b5906
- GWN7630/GWN7630LR Firmware file name: gwn7630fw.bin  
MD5 checksum: b005676e3c31e0bdc8f53425e3d0f20b
- GWN7624 Firmware file name: gwn7624fw.bin  
MD5 checksum: af997b13f92c0af571c01d2b2e721101
- GWN7625 Firmware file name: gwn7625fw.bin  
MD5 checksum: 9234246b4ad6ce4c0234a3c11a451c47
- GWN7660/GWN7660LR Firmware file name: gwn7660fw.bin  
MD5 checksum: a220521f75e544b7d479ad48804f9bcd
- GWN7664/GWN7664LR Firmware file name: gwn7664fw.bin  
MD5 checksum: 1df6bb2931daf98c54b48509b8009498

### CHANGES/ENHANCEMENT

- Fixed an issue causing MESH network instability on 1.0.25.1
- Internal bug fixes



## [5/19/2023] FIRMWARE VERSION 1.0.25.1

### PRODUCT NAME

GWN7610 / GWN7600 / GWN7600LR / GWN7602 / GWN7615 / GWN7605 / GWN7605LR / GWN7630 / GWN7630LR / GWN7624 / GWN7625 / GWN7660 / GWN7660LR / GWN7664 / GWN7664LR

### DATE

05/19/2023

### FIRMWARE FILE INFORMATION

- GWN7610 Firmware file name: gwn7610fw.bin  
MD5 checksum: 7be6d53630b02ab90b8daf7019fa8329
- GWN7600/GWN7600LR Firmware file name: gwn7600fw.bin  
MD5 checksum: 4828df4265afec3ca5d06ea293d252cb
- GWN7602 Firmware file name: gwn7602fw.bin  
MD5 checksum: 43fc481888a77dafb6e19bb9ca570c43
- GWN7615 Firmware file name: gwn7615fw.bin  
MD5 checksum: 542a6f934f302301e9e30a627714ec40
- GWN7605/GWN7605LR Firmware file name: gwn7605fw.bin  
MD5 checksum: e613606708acaacae3df33322a257728
- GWN7630/GWN7630LR Firmware file name: gwn7630fw.bin  
MD5 checksum: d8ba45c592334a6c10142abd5f707722
- GWN7624 Firmware file name: gwn7624fw.bin  
MD5 checksum: ab1d976357677d37919349e0dd0698d5
- GWN7625 Firmware file name: gwn7625fw.bin  
MD5 checksum: 77a02793fa7ae8020b803ecd69ae84dd
- GWN7660/GWN7660LR Firmware file name: gwn7660fw.bin  
MD5 checksum: eb7fa9265e68c43d2db3764c5fe56007
- GWN7664/GWN7664LR Firmware file name: gwn7664fw.bin  
MD5 checksum: 4ffdbbf22c9a749c45247e3e83bcd1b8

### CHANGES/ENHANCEMENT

- Added support of IPv6 ND defense
- Added support of ARP defense
- Added support of disabling ethernet port
- Added support of switching RF timer
- Added support of DHCP relay and option82
- Added support of web packet capture saving to local PC
- Added support of trunk/access mode for NET/PoE port
- Added support of External syslog protocol selection

- Added support of Captive Portal - Active Directory Auth (LDAP)
- Added support of Captive Portal - kickout timeout unauthenticated clients
- Added support of Captive Portal - Daily access limit by auth method
- Added support of collecting logs by MAC
- Optimized client steering
- Internal bug fixes

## [5/19/2023] FIRMWARE VERSION 1.0.23.27

### PRODUCT NAME

GWN7661 / GWN7662

### DATE

05/19/2023

### FIRMWARE FILE INFORMATION

- GWN7662 Firmware file name: gwn7662fw.bin  
MD5 checksum: f460d3b5d3ec709598b54df653051b92

### CHANGES/ENHANCEMENT

- This is the initial releases of GWN7662

## [5/19/2023] FIRMWARE VERSION 1.0.23.26

### PRODUCT NAME

GWN7661

### DATE

05/19/2023

### FIRMWARE FILE INFORMATION

- GWN7661 Firmware file name: gwn7661fw.bin  
MD5 checksum: 637d8da536452e0027e9214001034bdd

### CHANGES/ENHANCEMENT

- This is the initial releases of GWN7661

## [2/13/2023] FIRMWARE VERSION 1.0.23.24

### PRODUCT NAME

GWN7610 / GWN7600 / GWN7600LR / GWN7602 / GWN7615 / GWN7605 / GWN7605LR / GWN7630 / GWN7630LR / GWN7624 / GWN7625 / GWN7660 / GWN7660LR / GWN7664 / GWN7664LR

### DATE

02/13/2023

### FIRMWARE FILE INFORMATION

- GWN7610 Firmware file name: gwn7610fw.bin  
MD5 checksum: 2c1a5e6a052649260e13e7033947a5d5
- GWN7600/GWN7600LR Firmware file name: gwn7600fw.bin  
MD5 checksum: 86b8af88a245ce95c15eb1a8b2ae9299
- GWN7602 Firmware file name: gwn7602fw.bin  
MD5 checksum: 990728fafcaf5ec2dd5806cd75a4bbc1
- GWN7615 Firmware file name: gwn7615fw.bin  
MD5 checksum: d1c26a20db1f103c764033b301c87f26
- GWN7605/GWN7605LR Firmware file name: gwn7605fw.bin  
MD5 checksum: a42145514a250b4841f57ecc18a8e841
- GWN7630/GWN7630LR Firmware file name: gwn7630fw.bin  
MD5 checksum: 8e8e37db2d386b9f6e458ff25f87a666
- GWN7624 Firmware file name: gwn7624fw.bin  
MD5 checksum: e06469bfc63369190c9a09db5a24a251
- GWN7625 Firmware file name: gwn7625fw.bin  
MD5 checksum: ab88bd3bc852cfe173d7e1c1aa666aa0
- GWN7660/GWN7660LR Firmware file name: gwn7660fw.bin  
MD5 checksum: 5e6315faf3740918cb70f9762c39954d
- GWN7664/GWN7664LR Firmware file name: gwn7664fw.bin  
MD5 checksum: 8409fb972afb962cf26d08d5fd956ddd

### CHANGES/ENHANCEMENT

- Fixed an issue that GWN7664 generated panic core and randomly rebooted.
- Fixed an issue of AP free memory calculation.
- Internal bug fixes.