

GWN78xx Switch Firmware Release Notes

IMPORTANT UPGRADING NOTE

Combined all GWN78xx switches model firmware release together since 1.0.13.6. For 1.0.9.15
and previous firmware release notes, please visit:
 https://www.grandstream.com/support/firmware



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FIRMWARE FILE DOWNLOAD

Individual firmware files are	available for downloading	at URL below:
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https://www.grandstream.com/support/firmware



FIRMWARE VERSION 1.0.13.18

PRODUCT NAME

GWN7801(P), GWN7802(P), GWN7803(P), GWN7806(P) GWN7811(P), GWN7812P, GWN7813(P), GWN7816(P) GWN7821P, GWN7822P GWN7830, GWN7831, GWN7832

DATE

4/24/2025

FIRMWARE FILE INFORMATION

- GWN7801(P) / 7802(P) / 7803(P) Firmware file name: gwn780xfw.bin
 MD5 checksum: 03488884c5bb2c58c6f4ed529c3da870
- GWN7806(P) Firmware file name: gwn7806fw.bin
 MD5 checksum: 4ea66f5f50051cedc9372eff9926d6bc
- GWN7811(P) / 7812(P) / 7813(P) Firmware file name: gwn781xfw.bin
 MD5 checksum: 57bb5adb4d36a3a8e071c62d140c7565
- GWN7816(P) Firmware file name: gwn7816fw.bin
 MD5 checksum: 4ea66f5f50051cedc9372eff9926d6bc
- GWN7821P Firmware file name: gwn7821fw.bin
 MD5 checksum: 57bb5adb4d36a3a8e071c62d140c7565
- GWN7822P Firmware file name: gwn7822fw.bin
 MD5 checksum: 57bb5adb4d36a3a8e071c62d140c7565
- GWN7830 Firmware file name: gwn7830fw.bin
 MD5 checksum: 57bb5adb4d36a3a8e071c62d140c7565
- GWN7831 Firmware file name: gwn7831fw.bin
 MD5 checksum: 57bb5adb4d36a3a8e071c62d140c7565
- GWN7832 Firmware file name: gwn7832fw.bin
 MD5 checksum: 4ea66f5f50051cedc9372eff9926d6bc

CHANGES/ENHANCEMENT

- Optimized GWN783x CPU utilization.
- Fixed issue IGMP Snooping might cause Multicast Flooding.
- Fixed issue that the fan keeps running non-stop even the device is at low temperature.
- Fixed compatibility issue with GDMS that the Cloud configures 2.5G but local speed is Auto.
- Fixed compatibility issue with GDMS that the 2.5G port on GDMS is displayed in yellow-green instead of light blue.



[11/20/2024] FIRMWARE VERSION 1.0.13.6

PRODUCT NAME

GWN7821P, GWN7822P

DATE

11/20/2024

FIRMWARE FILE INFORMATION

GWN7821P Firmware file name: gwn7821fw.bin
 MD5 checksum: c2fdc4d77dbeb700b617c7bce8dd406a

GWN7822P Firmware file name: gwn7822fw.bin
 MD5 checksum: c2fdc4d77dbeb700b617c7bce8dd406a

This is the initial firmware version for GWN7821P/7822P.



FIRMWARE VERSION 1.0.13.6

PRODUCT NAME

GWN7801(P), GWN7802(P), GWN7803(P), GWN7806(P) GWN7811(P), GWN7812P, GWN7813(P), GWN7816(P) GWN7830, GWN7831, GWN7832

DATE

10/21/2024

FIRMWARE FILE INFORMATION

- GWN7801(P) / 7802(P) / 7803(P) Firmware file name: gwn780xfw.bin
 MD5 checksum: 3076343d9809e252a19f937ccfe5cf31
- GWN7806(P) Firmware file name: gwn7806fw.bin
 MD5 checksum: 0ddf14f3a340ed78609b4db6a784e465
- GWN7811(P) / 7812(P) / 7813(P) Firmware file name: gwn781xfw.bin
 MD5 checksum: c2fdc4d77dbeb700b617c7bce8dd406a
- GWN7816(P) Firmware file name: gwn7816fw.bin
 MD5 checksum: 0ddf14f3a340ed78609b4db6a784e465
- GWN7830 Firmware file name: gwn7830fw.bin
 MD5 checksum: c2fdc4d77dbeb700b617c7bce8dd406a
- GWN7831 Firmware file name: gwn7831fw.bin
 MD5 checksum: c2fdc4d77dbeb700b617c7bce8dd406a
- GWN7832 Firmware file name: gwn7832fw.bin
 MD5 checksum: 0ddf14f3a340ed78609b4db6a784e465

CHANGES/ENHANCEMENT

- Added support for GWN7821P and GWN7822P model.
- Added support for BGP & Route Policy on L3 Switch.
- Added support for MVR(CLI).
- Added LED status change during the start-up process
- Removed PTP settings from Web UI.
- Optimized IPv6 OSPFv3 CLI command.
- Optimized GWN780x CPU usage.
- Fixed from GWN Cloud login the Web UI fails when HTTPS login authentication method is TACACS+.
- Fixed issue that unable to import configuration files from older versions.
- Fixed issue that user can still add a method successfully when the AAA name already exists.
- Fixed the IP Address will be set to 0.0.0.0 when enable Querier via GWN Cloud.



Fixed Profile import fails after changing the profile name.

NEW FEATURE OVERVIEW

BGP

Only L3 switches are supported.

BGP is a border gateway protocol that is used to transfer routing information between different AS. It provides following function:

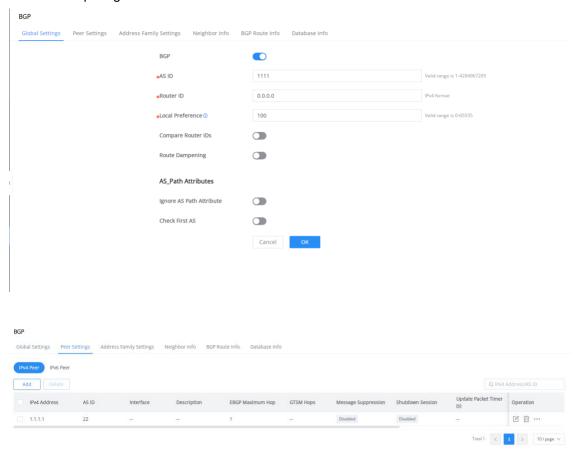
Path selection: Determine the best route by comparing the path attributes of different destinations.

Routing Policies: Select specific segments by defining routing policies.

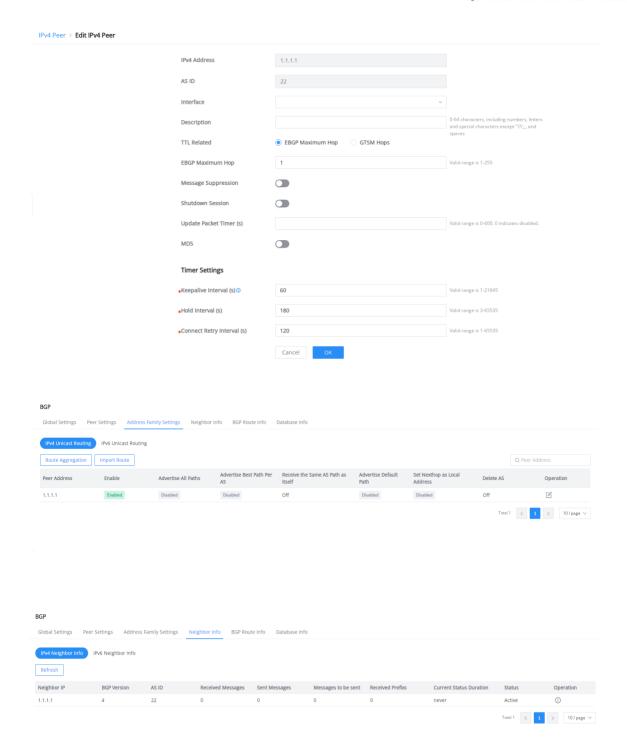
Aggregation: By aggregating multiple route declarations, the number of routing information is reduced, the routing table is simplified, and the processing load is reduced.

Loop avoidance: Path vectors are used to prevent routing loops. Each BGP router knows the best path to each destination and uses this information to avoid loops.

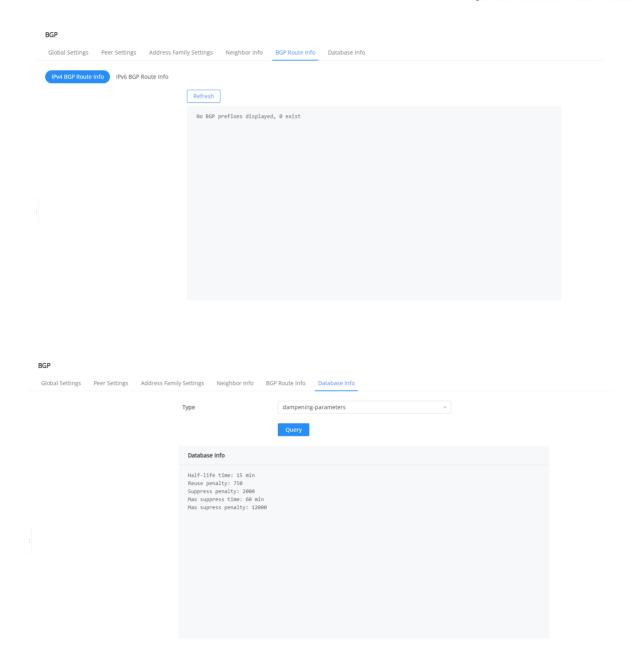
Security maintenance: MD5 authentication is used to protect routing information from unauthorized access or tampering.











Routing policy

Only supported by L3 switches and effective only when used with BGP, other dynamic routing protocols are currently not supported.

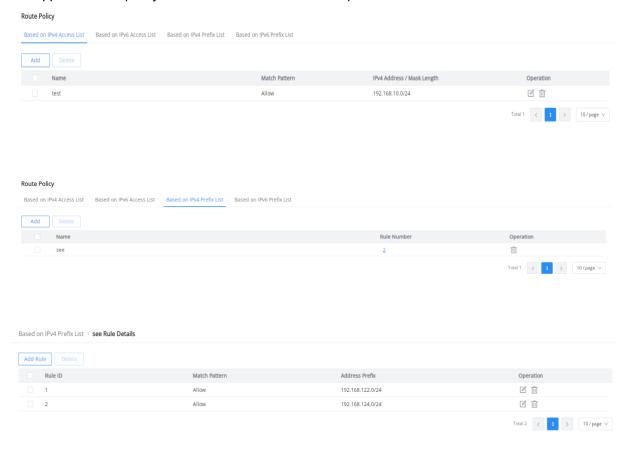
Route policies control route advertisement and reception, as well as manage route import and attribute settings by altering route attributes.

The steps for implementing a route policy are: (1) First, define the characteristics of the route



information to which the policy will be applied, i.e., define a set of matching rules. Various matching rules can be flexibly defined using filters; (2) Then, apply the matching rules to the route policy for processes such as route advertisement, reception, and import.

Supported route policy filters include Access Lists and prefix lists.



MVR [CLI only]

The multicast VLAN registration function is used to optimize the transmission efficiency of multicast streams across different VLANs, reducing unnecessary traffic duplication and flooding, and effectively improving network performance.

```
GWN7813(config)# mvr

<cr>
group MVR group address configuration
mode MVR mode configuration
query-time MVR Query Response Time
vlan MVR VLAN ID configuration
```