GWN78xx Switch Firmware Release Notes

IMPORTANT UPGRADING NOTE

1. 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

Table of Content

FIRMWARE FILE DOWNLOAD

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

FIRMWARE VERSION 1.0.15.126

PRODUCT NAME

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

DATE

6/30/2025

FIRMWARE FILE INFORMATION

- GWN7801(P) / 7802(P) / 7803(P) Firmware file name: gwn780xfw.bin
  MD5 checksum: f84421315919f78abc2db904db18f2e4
- GWN7806(P) Firmware file name: gwn7806fw.bin
  MD5 checksum: f9030fbd081525c6e508abb79a1a1b4d
- GWN7811(P) / 7812P / 7813(P) Firmware file name: gwn781xfw.bin
  MD5 checksum: b7bdd755b678377e197a9556692bd2e2
- GWN7816(P) Firmware file name: gwn7816fw.bin
  MD5 checksum: f9030fbd081525c6e508abb79a1a1b4d
- GWN7821P Firmware file name: gwn7821fw.bin
  MD5 checksum: b7bdd755b678377e197a9556692bd2e2
- GWN7822P Firmware file name: gwn7822fw.bin
  MD5 checksum: b7bdd755b678377e197a9556692bd2e2
- GWN7830 Firmware file name: gwn7830fw.bin
  MD5 checksum: b7bdd755b678377e197a9556692bd2e2
- GWN7831 Firmware file name: gwn7831fw.bin
  MD5 checksum: b7bdd755b678377e197a9556692bd2e2
- GWN7832 Firmware file name: gwn7832fw.bin
  MD5 checksum: f9030fbd081525c6e508abb79a1a1b4d

CHANGES/ENHANCEMENT

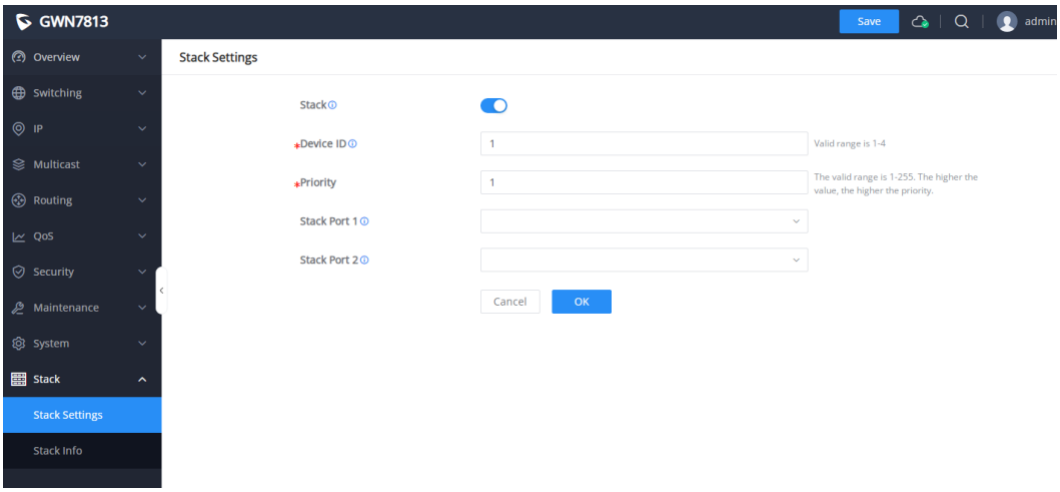
- Added support for switch stacking feature for GWN7806(P), GWN7811(P), GWN7812P, GWN7813(P), GWN7816(P), GWN7821P, GWN7822P, GWN7830, GWN7831, GWN7832.
- Added the Ability to disable the native VLAN.
- Added support for PVLAN for models of GWN7806(P), GWN7811(P), GWN7812P, GWN7813(P), GWN7816(P), GWN7821P, GWN7822P, GWN7830, GWN7831, GWN7832.
- Added the option to set the Web GUI language on the configuration.

- Added support to use encrypted strings in password fields in CLI.
- Added support for "Calling-Station-Id" in RADIUS Access-Request
- Optimized CPU utilization.
- Fixed issue that SNMP missed support for FDB and VLAN MIBs (BRIDGE-MIB / Q-BRIDGE-MIB).
- Fixed issue that firmware upgrade fails due to HW Model mismatch error.
- Fixed issue that IP Source Guard not working as expected on GWN78xx.
- Fixed issue that New Zealand daylight saving cannot be configured due to start time cannot after end time.
- Fixed issue that IGMP Snooping might cause Multicast flooding.
- Fixed issue that fans running non-stop even at low temperature.
- Fixed issue that GWN7803P lost 192.168.0.1 gateway after reboot.
- Improved the accuracy of upload current rate value.
- Fixed internal bugs.

NEW FEATURE OVERVIEW

- **Stacking Feature**

  This feature can be enabled on Web UI Stack page. Please go to Grandstream Documentation Center check the GWN78xx Stacking Feature User Guide for more details.



Note: After the configuration is completed through the CLI or Web GUI, you need to save it first, then restart the device. The device ID and port number will take effect after the restart is completed.

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

4/28/2025

FIRMWARE FILE INFORMATION

- GWN7801(P) / 7802(P) / 7803(P) Firmware file name: gwn780xfw.bin
  MD5 checksum: ef2b2dd39f1bb75d7c57c1df54cc00e3
- GWN7806(P) Firmware file name: gwn7806fw.bin
  MD5 checksum: 4ea66f5f50051cedc9372eff9926d6bc
- GWN7811(P) / 7812P / 7813(P) Firmware file name: gwn781xfw.bin
  MD5 checksum: e6479bb368f02e100ced79f3d630f8b5
- GWN7816(P) Firmware file name: gwn7816fw.bin
  MD5 checksum: 4ea66f5f50051cedc9372eff9926d6bc
- GWN7821P Firmware file name: gwn7821fw.bin
  MD5 checksum: e6479bb368f02e100ced79f3d630f8b5
- GWN7822P Firmware file name: gwn7822fw.bin
  MD5 checksum: e6479bb368f02e100ced79f3d630f8b5
- GWN7830 Firmware file name: gwn7830fw.bin
  MD5 checksum: e6479bb368f02e100ced79f3d630f8b5
- GWN7831 Firmware file name: gwn7831fw.bin
  MD5 checksum: e6479bb368f02e100ced79f3d630f8b5
- 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) / 7812P / 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:

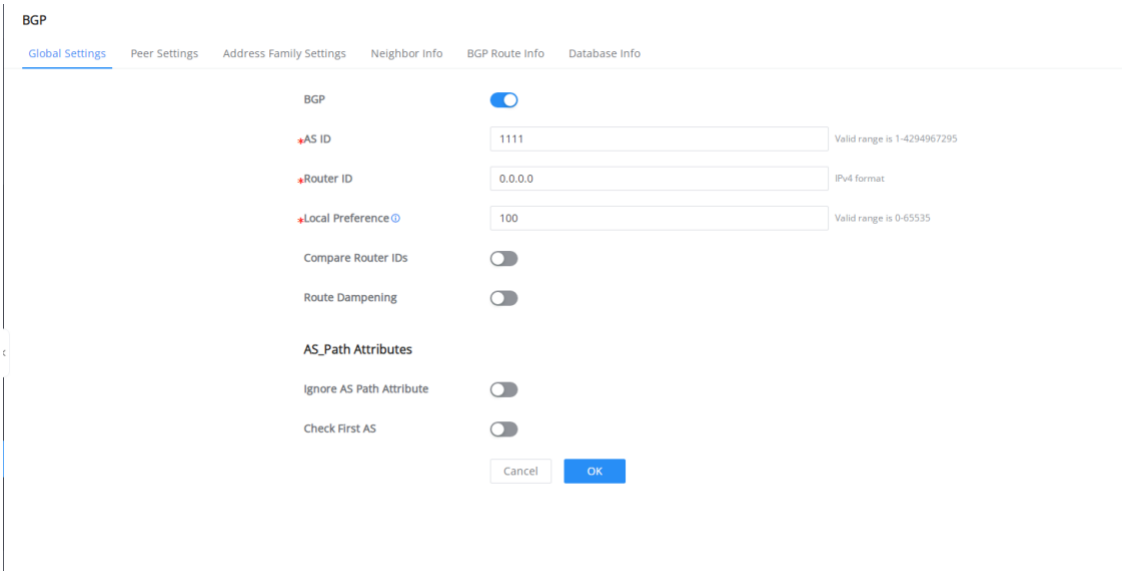
  Path selection: Determine the best route by comparing the path attributes of different destinations.

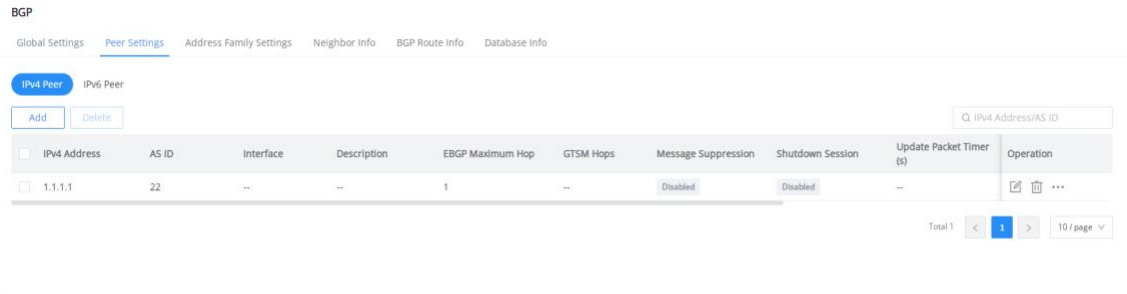
  Routing Policies: Select specific segments by defining routing policies.

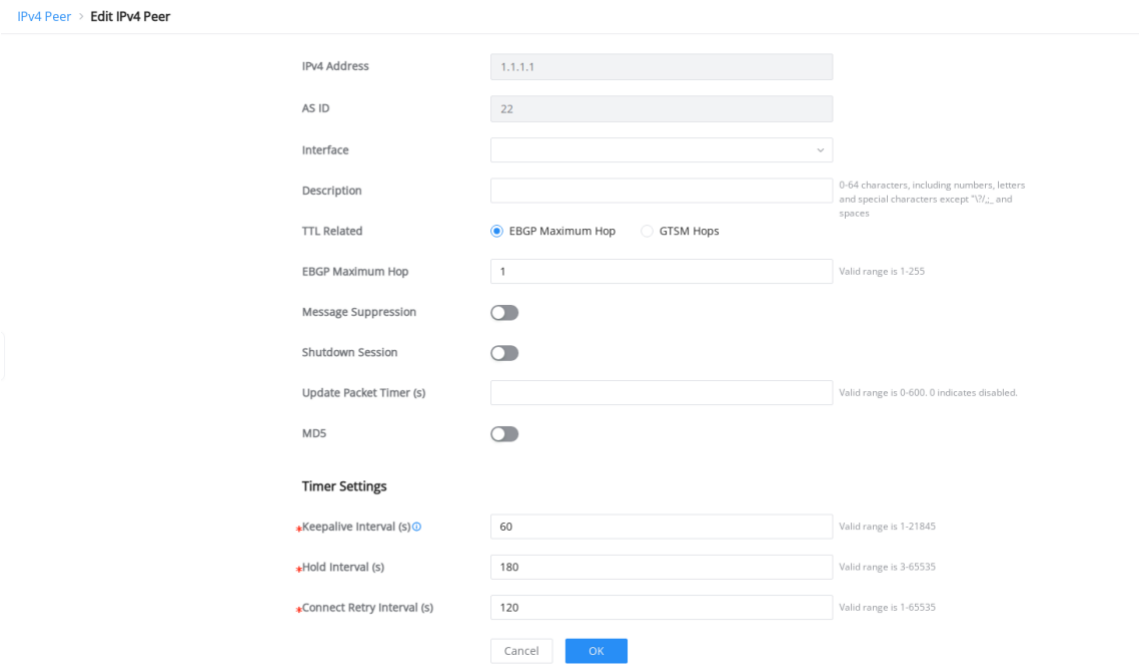
  Aggregation: By aggregating multiple route declarations, the number of routing information is reduced, the routing table is simplified, and the processing load is reduced.

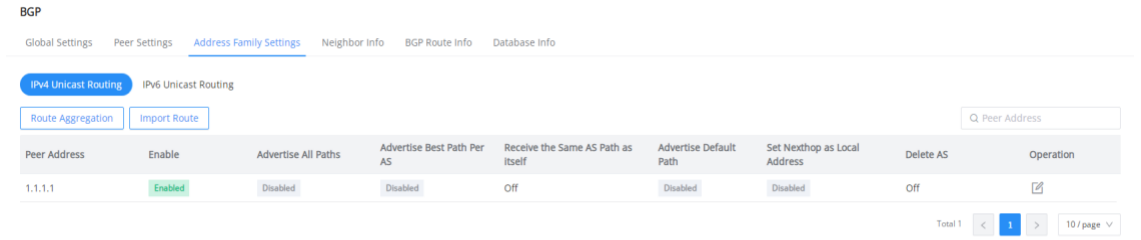
  Loop avoidance: Path vectors are used to prevent routing loops. Each BGP router knows the best path to each destination and uses this information to avoid loops.

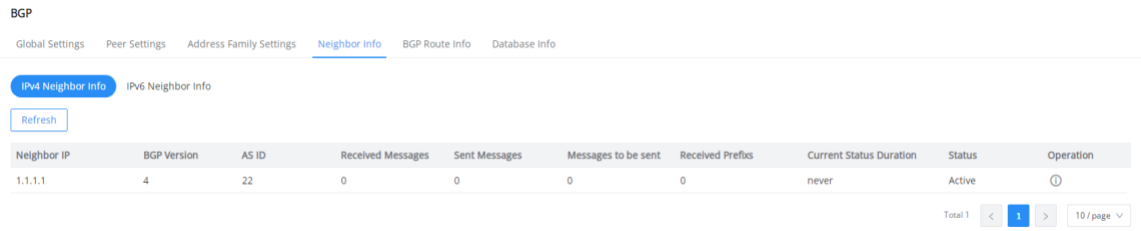
  Security maintenance: MD5 authentication is used to protect routing information from unauthorized access or tampering.

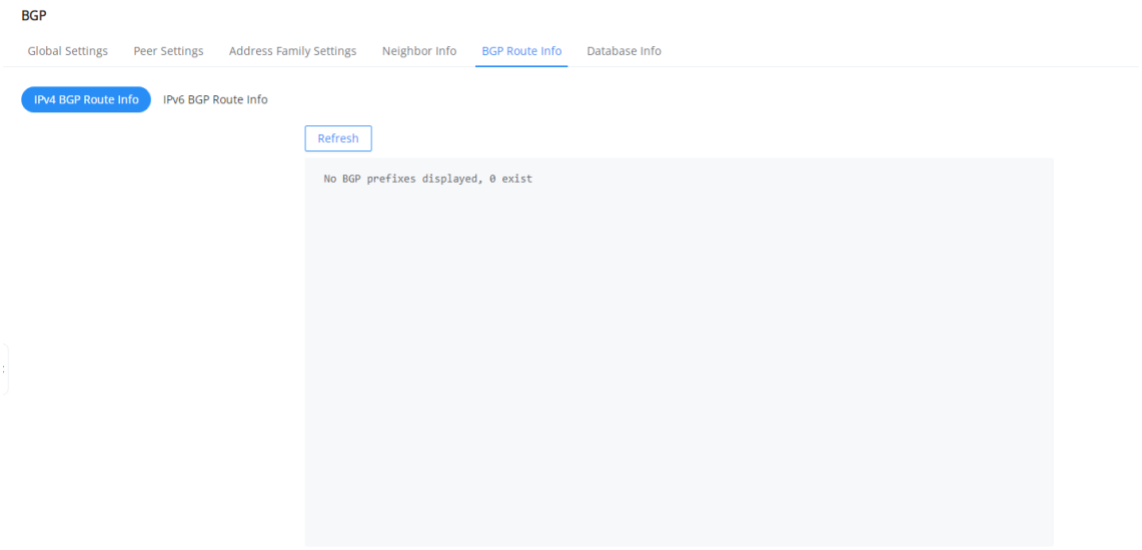


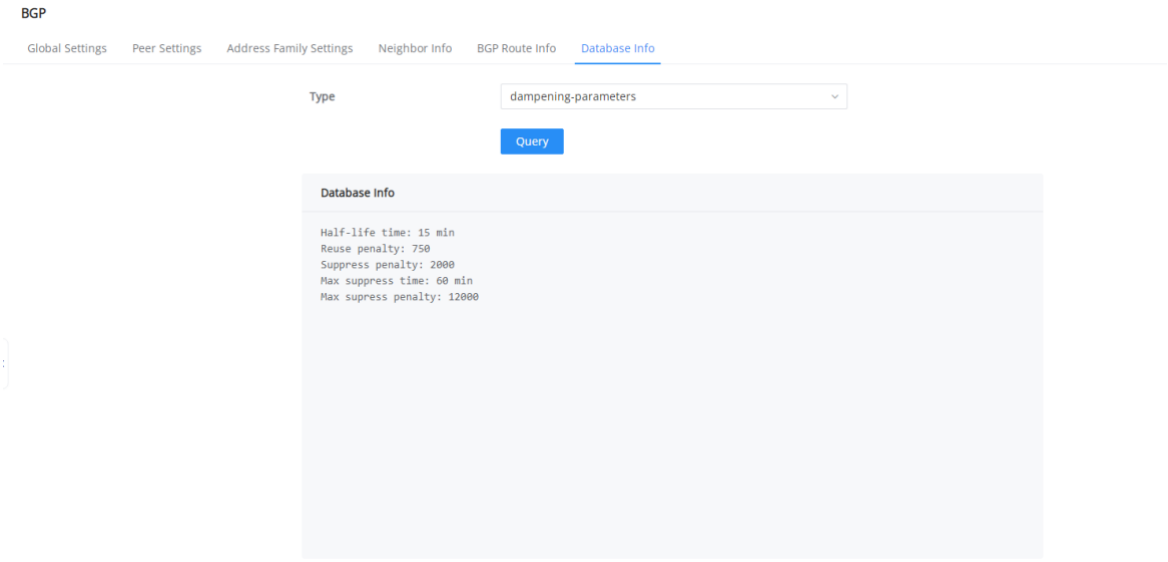



IPv4 Peer > Edit IPv4 Peer
IPv4 Address
1.1.1.1
AS ID
22
Interface
Description
0-64 characters, including numbers, letters and special characters except '\'/,,, and spaces
TTL Related
EBGP Maximum Hop
GTSM Hops
EBGP Maximum Hop
1
Valid range is 1-255
Message Suppression
Shutdown Session
Update Packet Timer (s)
Valid range is 0-600. 0 indicates disabled.
MD5
Timer Settings
Keepalive Interval (s)
60
Valid range is 1-21845
Hold Interval (s)
180
Valid range is 3-65535
Connect Retry Interval (s)
120
Valid range is 1-65535
Cancel
OK


BGP
Global Settings
Peer Settings
Address Family Settings
Neighbor Info
BGP Route Info
Database Info
IPv4 Unicast Routing
IPv6 Unicast Routing
Route Aggregation
Import Route
Peer Address
Peer Address
Enable
Advertise All Paths
Advertise Best Path Per AS
Receive the Same AS Path as Itself
Advertise Default Path
Set Nexthop as Local Address
Delete AS
Operation
1.1.1.1
Enabled
Disabled
Disabled
Off
Disabled
Disabled
Off
Total 1
1
10 / page


BGP
Global Settings
Peer Settings
Address Family Settings
Neighbor Info
BGP Route Info
Database Info
IPv4 Neighbor Info
IPv6 Neighbor Info
Refresh
Neighbor IP
BGP Version
AS ID
Received Messages
Sent Messages
Messages to be sent
Received Prefixs
Current Status Duration
Status
Operation
1.1.1.1
4
22
0
0
0
0
never
Active
Total 1
1
10 / page





- **Routing policy**

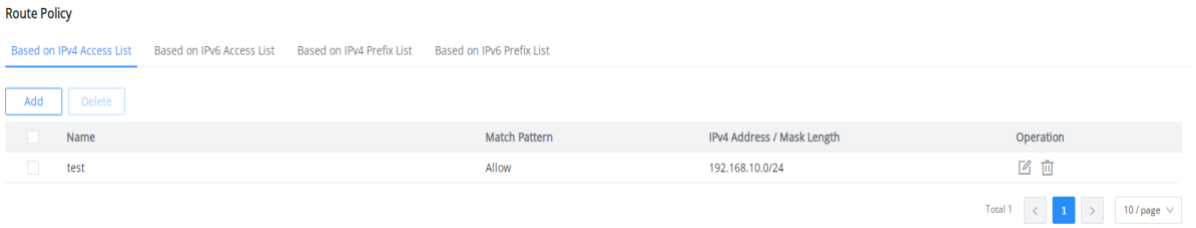
  Only supported by L3 switches and effective only when used with BGP, other dynamic routing protocols are currently not supported.

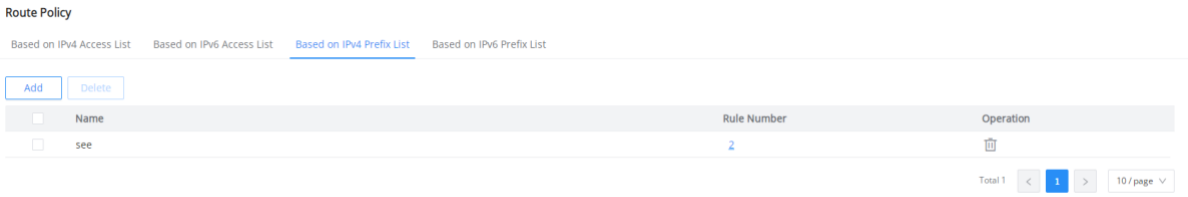
  Route policies control route advertisement and reception, as well as manage route import and attribute settings by altering route attributes.

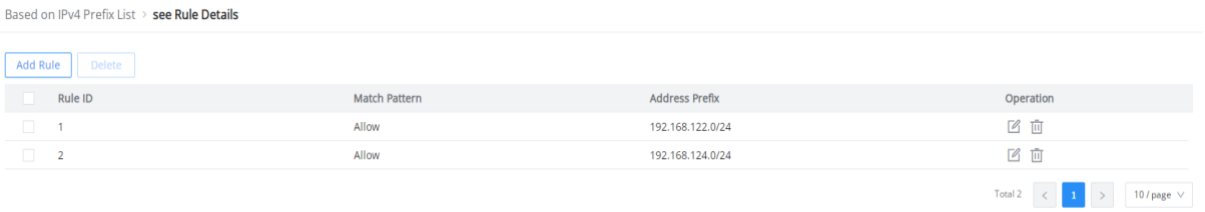
  The steps for implementing a route policy are: (1) First, define the characteristics of the route

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.