# 54-Port L3 Fully Managed PoE+ Switch with 48 Gigabit Ethernet Ports and 6 SFP+ Uplinks

# User Manual

Model 562041 (IPS-54GM06-10G-850W)

INTELLINET®
NETWORK SOLUTIONS

intellinet-network.com

This manual provides information about using Intellinet Network Solutions 54-Port L3 Fully Managed PoE+ Switch with 48 Gigabit Ethernet Ports and 6 SFP+ Uplinks [562041 / IPS-54GM06-10G-850W]

## READER OBJECT

- Network Engineer
- Technical Promotion Personnel
- Network Administrator

## TECHNICAL SUPPORT

Intellinet Website intellinet-network.com

## MANUAL DETAILS

**Command line format Convention**

The meaning of the command line format is explained below:
**Bold:** the command line keywords (the parts that must be input as they remain unchanged in the command) areexpressed in bold font.
*Italics:* command line parameters (parts of the command that must be replaced by actual values) are expressed in italics.
[ ]: indicates the part enclosed by [ ], which is optional during command configuration.
{ x | y | ... }: Indicates that one of two or more options is selected.
[ x | y | ... ]: Indicates to select one or none of two or more options.
//: a line starting with a double slash is represented as a comment line.

**Description**

- Some port types illustrated in this manual may be inconsistent with the actual situation. In actual operation, it is necessary to configure according to the port types supported by each product.
- The display information illustrated in this manual may contain the contents of other product series (such as product model, description, etc.), and the specific display information shall be subject to the actual equipment information.

# TABLE OF CONTENTS

# INTRODUCTION

Thank you for purchasing the Intellinet Network Solutions 54-Port L3 Fully Managed PoE+ Switch with 48 Gigabit Ethernet Ports and 6 SFP+ Uplinks. Before you install and use this product, read this manual carefully for a full understanding of its functions.

## PRODUCT OVERVIEW

This new generation Ethernet access switch is a 54-port L3 fully managed PoE+ Switch, featuring 48 Gigabit Ethernet Ports and 6 SFP+ Uplinks. Primarily utilized in IP MANs and intranets, it efficiently supports various Ethernet services. The switch facilitates PoE for devices like WLAN access points, IP security cameras, VoIP telephones, and other low port density installations. With a compact 1U high chassis, it offers 48 10/100/1000Base-TX ports and 6 10G SFP+ ports, along with 48 PoE injectors.

Web Smart refers to the device web management system where the switch can be configured and managed, via a web browser such as Chrome, Internet Explore and Firefox.

Web management includes two parts: Web server and Web client. The Web server is integrated on the device to receive and process the requests sent by the client and return the processing results to the client. The Web client usually refers to the browser, such as Chrome, IE and FF.

## FEATURES

- IEEE802.3, IEEE802.3u, IEEE802.3ab, IEEE802.3z, IEEE802.3at
- Provides 48 x 10/100/1000Base-TX ports + 6 x 10G SFP+ ports
- Provides 48 PoE injector
- Build-in power supplies, 450 W / 900 W
- High back-plane bandwidth 216 Gbps
- Supports MLD Snooping
- Supports standard IP/ Extend IP / MAC IP / ARP ACL
- Supports IGMP snooping for Multimedia application
- Supports Port mirror and bandwidth control
- Supports IEEE802.3x Flow control
- Supports Port Based VLAN / 802.1Q Tag VLAN
- Supports IEEE802.3ad Port trunk with LACP
- Supports Spanning tree protocol IEEE802.1d/802.1w/802.1s
- Supports IEEE802.1p class of service
- Supports IEEE 802.1x user authentication
- Supports Broadcast storm filter
- Supports DHCP client, DHCP relay, DHCP server, DHCP snooping
- Supports Static Route, Policy Route, RIP, OSPF, VRRP
- Supports System event log
- Supports command line interface management
- Management by Web/SNMP/SSH/Telnet/Console

## EXTERNAL COMPONENT DESCRIPTION

### FRONT PANEL

**10/100/1000 Mbps RJ-45 ports (1 – 48):**

Ports can provide power to a connected powered device (PoE+ output up to 30 watts on ports); all powered devices should comply with IEEE 802.3at/af.

**SFP+ ports (49-54G):**

For the installation of up to six SFP modules

**Console:**

Designed to connect with the serial port of a computer or terminal for monitoring and configuring the switch.

**LED indicators:**

The LED indicators will allow you to monitor, diagnose and troubleshoot any potential problem with the switch, its connection or attached devices.

The following chart shows the LED indicators of the switch along with explanation of each indicator.

| LED | COLOR | STATUS | STATUS DESCRIPTION |
|---|---|---|---|
| **PWR** | Green | On | The Switch is connected to a power source |
| | | Off | The Switch is not connected to a power source |
| **SYS** | Orange | Flashing | System is running. |
| | | Off | System is abnormal or no power |
| **1–48 LINK** | Green | On | Port is connected |
| | | Flashing | Data is transmitted/received |
| | | Off | No link established. |
| **1–48 POE** | Orange | On | The connected device (PD) is receiving power. |
| | | Off | The port is not powered or no PD is found |
| **49-54 SFP** | Green | On | Valid port connection. |
| | | Flashing | Data transmitted/received. |
| | | Off | No link established. |

## REAR PANEL

The rear panel of the Switch contains one grounding terminal and an AC power connector as shown.

**AC Power Connector:**

Use the included power cable to connect the receptacle on the back of the switch to a power outlet. Then, turn the On/Off switch to On.

**Grounding Terminal:**

Wire the grounding terminal to an object that provides earth grounding (in rackmount installations, grounding is typically provided by the metal frame of the mounting rack), which is located on the side of the power supply connector.

**WARNING:** Avoid turning on the power switch before connecting the power cable, as it may cause a power surge that could damage the Switch

## PACKAGE CONTENTS

Before installing the Switch, make sure that the following packing list matches the items in the packaging. If any part is lost and damaged, please contact your place of purchase as soon as possible. In addition, make sure that you have the tools to install switches and cables on hand.

- Intellinet Network Solutions 54-Port L3 Fully Managed PoE+ Switch with 48 Gigabit Ethernet Ports and 6 SFP+ Uplinks.
- Quick Instruction Guide
- Rackmount kit
- AC Power Cord

# INSTALLING THE SWITCH

This section describes how to install your Switch and make connections to it. Review the following topics and perform the procedures in the order being presented.

Use the following instructions to avoid incorrect installation, which could damage the Switch or void the warranty.

- Place the Switch on stable surface that can safely hold the switch and any related equipment.
- Make sure the Switch will be connected to power in the proper AC input range (refer to the switch label).
- Avoid electric shock — do not open the Switch housing, even if the switch is disconnected from power.
- Make sure that there is proper clearance on all sides of the Switch for proper heat dissipation and adequate ventilation.

## DESKTOP INSTALLATION

When installing the Switch on a desktop, allow adequate space for ventilation between the device and the objects around it. Be sure to place the switch on a stable surface that can support the weight of the switch and any other components that may be placed on it.

## RACK MOUNTING

To properly mount the switch in the 19" rack, disconnect all cables from the switch. Securely position brackets over the mounting holes on both sides of the switch using screws. Carefully position the switch in the rack and fasten the brackets securely to the rack.

# CONFIGURATION GUIDE

This section provides an introduction to the web-based configuration utility, and covers the following topics:

- Powering on the device
- Connecting to the network
- Starting the web-based configuration utility

## CONNECTING TO POWER

Power down and disconnect the power cord before servicing or wiring a switch.

Do not disconnect modules or cabling unless the power is first switched off. The device only supports the voltage outlined in the type plate. Do not use any other power components except those specifically designated for the switch.

Disconnect the power cord before installation or cable wiring.

Connect the AC power connector on the back panel of the switch to the external power source with the included power cord, and check the power LED is on.

## CONNECTING TO NETWORK

To connect the switch to the network:

**1** Connect an Ethernet cable to the Ethernet port of a computer

**2** Connect the other end of the Ethernet cable to one of the numbered Ethernet ports of the switch. The LED of the port lights if the device connected is active.

**3** Repeat Step 1 and Step 2 for each device to connect to the switch.

We strongly recommend using CAT5E or better cable to connect network devices. When connecting network devices, do not exceed the maximum cabling distance of 100 meters (328 feet). It can take up to one minute for attached devices or the LAN to be operational after it is connected. This is normal behavior.

Connect the switch to end nodes using a standard Ethernet cable (UTP/STP) to connect the switch to end nodes.

Switch ports will automatically adjust to the characteristics (MDI/MDI-X, speed, duplex) of the device to which the switch is connected.

# LOGGING INTO THE SWITCH

This section describes how to navigate the web-based switch configuration utility. Be sure to disable any pop-up blocker.

## LAUNCHING THE CONFIGURATION UTILITY

To open the web-based configuration utility:

1 Open a Web browser.

2 Enter the IP address of the device you are configuring in the address bar on the browser (factory default IP address is 192.168.2.1) and then press Enter.

After a successful connection, the login window displays.

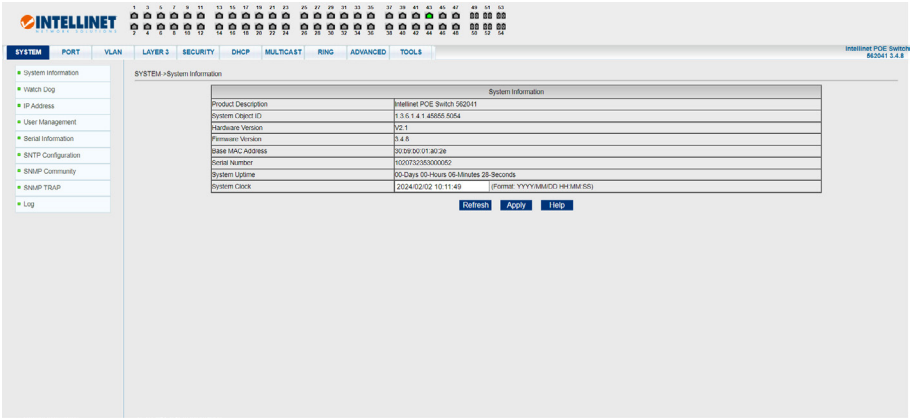

## LOGGING IN

To log in to the device configuration utility:

1 Enter the default user ID and the default password ***"Serial Number of Switch"***.

2 If this is the first time that you logged on with the default user ID and the default password it is recommended that you change your password immediately.

When the login attempt is successful, the System Information window displays.



# THE STRUCTURE OF NAVIGATION TREE

Navigation of features and system information can be accessed from the various tabs at the top of the page and drilled down via the menu on the left of the pages.

Some commonly used buttons are shown below with an explanation of their function.

| ELEMENT | ACTION |
|---|---|
| Button | Effect |
| Refresh | Update all fields on the page |
| Apply | Changes or updates to values will be saved to memory |
| Delete | Delete the current record |
| Help | Open help pages, view the individual pages of the configuration instructions |

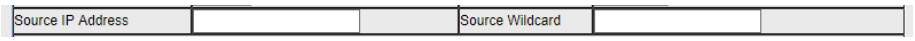
# ENTRY FIELDS

Some pages accessed from the left column have an entry field, as shown in below. Via these fields different rows in the table can be edited.

To add a new line select new from the drop-down menu of entry field, enter the new line's information and then press apply button.

If you want to edit an existing line, select the appropriate line number of the drop-down menu edit the line and then press the apply button, you will see a corresponding change in the table displayed.

If you want to delete a row, select the line number from entry field's drop-down menu press the delete key, this line will be removed from the table.



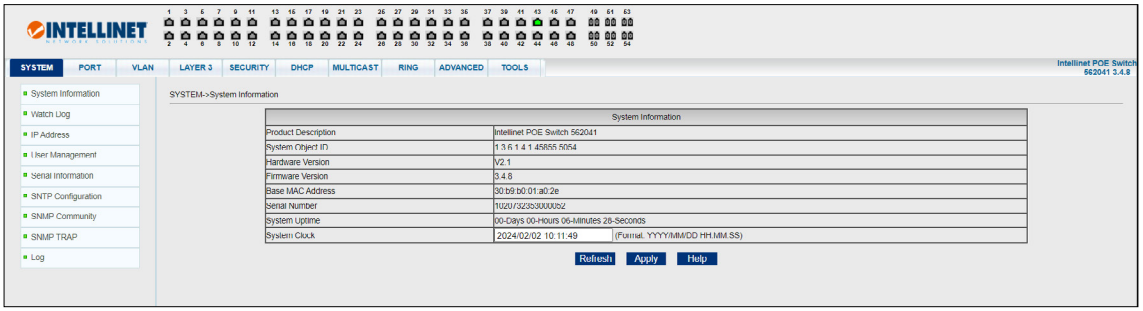

# STATUS FIELD

Some pages of have a state field, as shown in below the field displays the line status. These are selectable not editable.

# SYSTEM CONFIGURATION

## BASIC INFORMATION PAGE

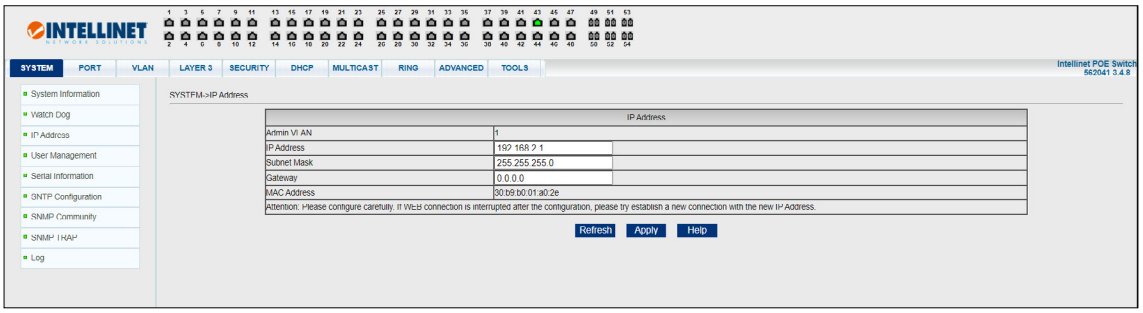
This page is used to display and configure some parameters of the Switch.




| ITEM | DESCRIPTION |
|---|---|
| System Object ID | The SNMP system object ID of the switch. |
| Hardware Version | Version of switch current hardware. |
| Firmware Version | Version of switch current firmware. |
| Base MAC Address | Base MAC Address of the switch |
| Serial Number | Serial Number of the switch |
| System Uptime | Duration of time the switch has been powered up. |
| System Clock | Current date and time.<br>Input parameters as follows: year, month, day, hour, minutes and seconds. |

## IP ADDRESS CONFIGURATION PAGE

This page is used to display and configure IP address in admin VLAN interface.

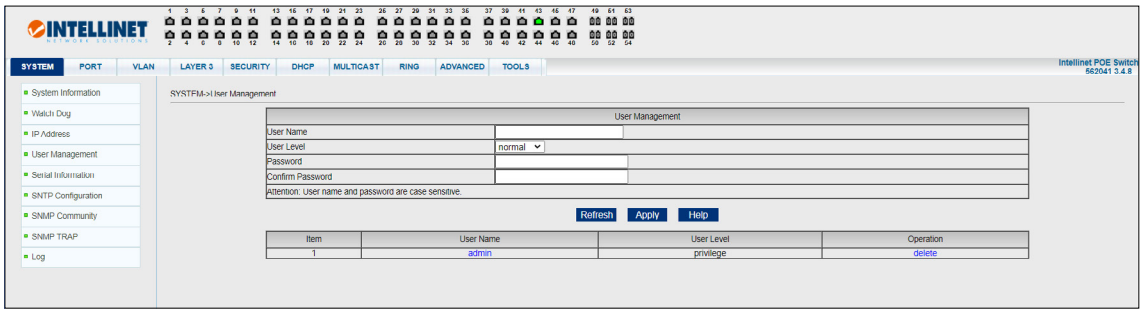



| ITEM | DESCRIPTION |
|---|---|
| Admin VLAN | Admin VLAN used on the switch |
| IP Address | Current IP address on the switch. |
| Subnet Mask | Subnet mask for the IP Address. |
| Gateway | Current switch gateway |
| MAC Address | MAC address for admin vlan |

Please configure carefully. If WEB connection is interrupted after the configuration, try to establish a new connection with the new IP Address.

# USER MANAGEMENT PAGE

Multi-user management not only ensures the safety of switch system, but also provides the ability to manage and maintain switch by multiple users simultaneously.

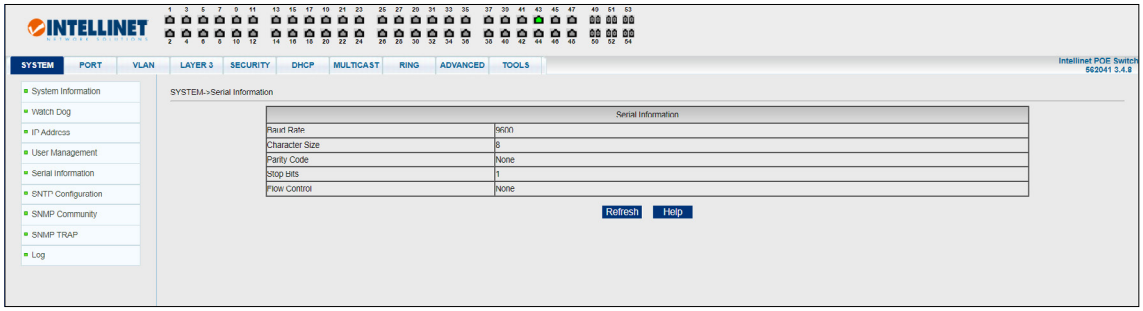



| ITEM | DESCRIPTION |
|---|---|
| User Name | Configure user name. |
| User Level | The switch supports Two-Layers of user: common user and privilege user. |
| Password | Configure or change a user's password. |
| Confirm Password | Make sure two passwords match. |

User's name and password is case-sensitive, please be careful when inputting.

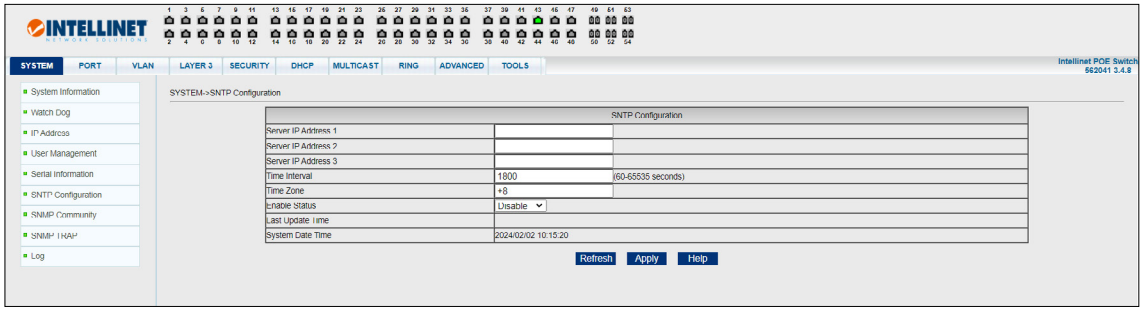
# SERIAL INFORMATION

This page is used to display the serial information, including baud rate, character size, parity code, stop bits and flow control.




# SNTP CONFIGURATION

This page is used to configure and display SNTP protocol.




| ITEM | DESCRIPTION |
|---|---|
| Server IP Address 1 | One of the SNTP server address. |

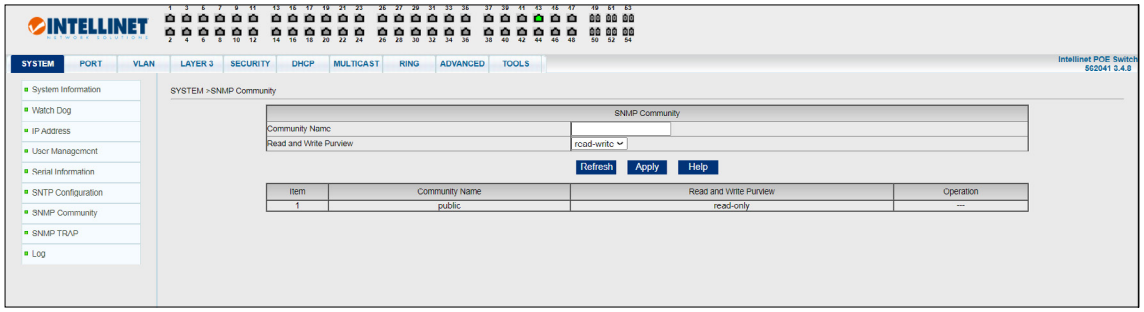
| | |
|---|---|
| Server IP Address 2 | One of the SNTP server address. |
| Server IP Address 3 | One of the SNTP server address. |
| Time Interval | Set the SNTP synchronization time interval in seconds. The default is 1800s. |
| Time Zone | Set the time zone where the switch is located. The default is +8. |
| Enable Status | Enable or disable SNTP protocol. |
| Last Update Time | The time of the last SNTP synchronization. |
| System Date Time | The system current time. |

## SNMP COMMUNITY CONFIGURATION PAGE

This page is used to configure and display the SNMP community settings.

By default, there is a public community name configured and it is read-only. When the switch needs to be managed through SNMP, you need to configure a readable and writable community.

Configured commons cannot be modified and cannot be duplicated with existing names. But you can click the corresponding delete link to delete the community, and then re-configure.




| ITEM | DESCRIPTION |
|---|---|
| Community Name | Community Name |
| Read and Write Purview | Read and write purview |

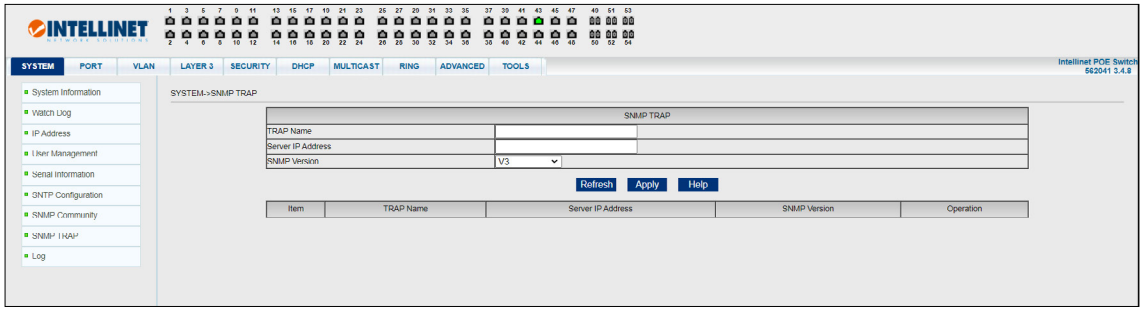
The community name 'public' can't be deleted.

## SNMP TRAP CONFIGURATION PAGE

This page is used to configure and display the SNMP trap.

Enter the TRAP name, the IP address of the TRAP server, and select the version number. the SNMP TRAP function will take effect if the configuration is right. If the link up or link down occurs, the switch will automatically send the TRAP packet to the destination address.

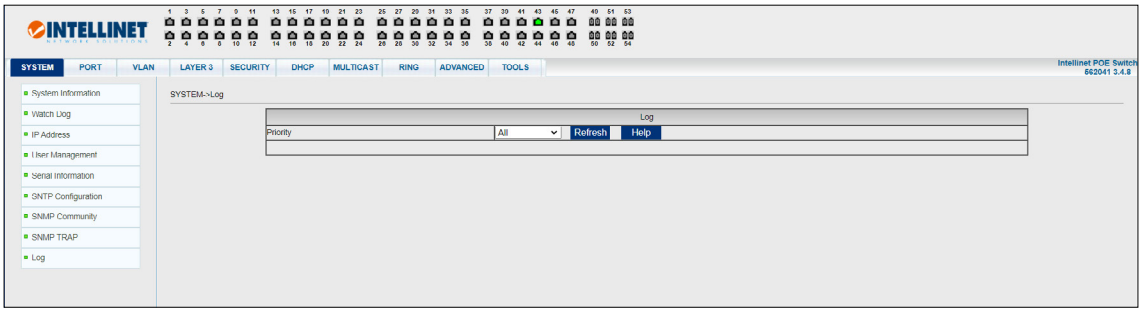
The configured TRAP targets cannot be modified and cannot be duplicated with existing names. But you can click the corresponding delete link to delete the TRAP target, and then re-configure.



| ITEM | DESCRIPTION |
|---|---|
| TRAP Name | TRAP target name. |
| Server IP Address | IP address of TRAP target. |
| SNMP Version | SNMP Version include v1, v2c and v3. |

## LOG INFORMATION

This page is used to view the log. The user can view the log through this page. Select the priority from the drop-down list, you can view the log of the level, click Refresh to view the latest log.



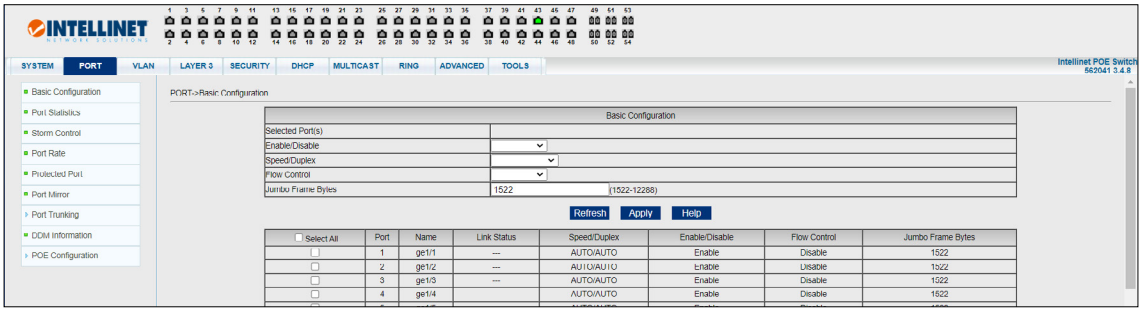

| ITEM | DESCRIPTION |
|---|---|
| Priority | Priority of a log information indicate its importance.The following categories show the order from highest priority to lowest: Critical, Warning, Informational and Debugging. |

# PORT CONFIGURATION

## PORT BASIC CONFIGURATION PAGE

This page is used to configure and display switch port basic information. The user can enable or disable the ports through this page, set the port rate and flow control, or view the basic information of all ports.

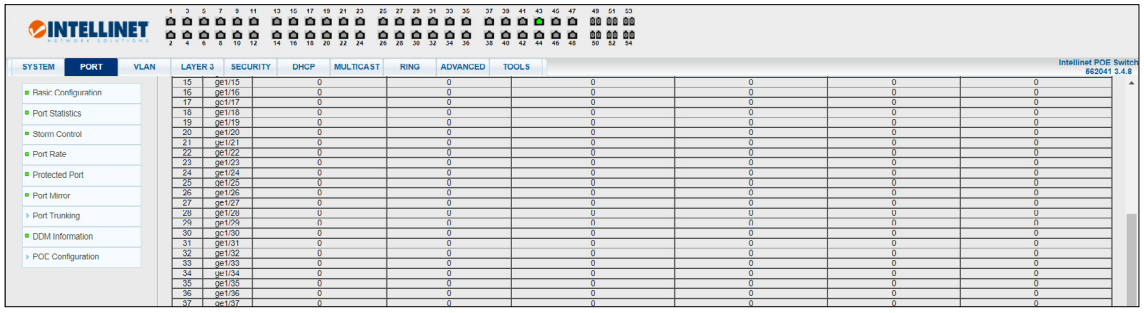
To modify the port configuration, the user needs to check the left side of the port, or use the "Select all" function, the selected port(s) will be displayed at the top of the page. The selected ports are configured with the same parameters once the settings are applied. The list in the page shows the configuration information for all ports.




| ITEM | DESCRIPTION |
|---|---|
| Select Port(s) | Select Port(s) from the following list. |
| Enable/Disable | Enable or disable the port. |
| Speed/Duplex | AUTO/AUTO, 10G/FULL, 1G/FULL, 100M/FULL, 100M/HALF, 10M/FULL, 10M/HALF |
| Flow Control | Open or close to output flow control. |
| Jumbo Frame Bytes | Set the jumbo frame maximum bytes of the port. |

## PORT STATISTICS PAGE

This page is used to display the traffic of receive and send data packets of all ports. The number of packets sent on all ports, the number of bytes sent and received, the packets received, the error packets, and the number of packets discarded.

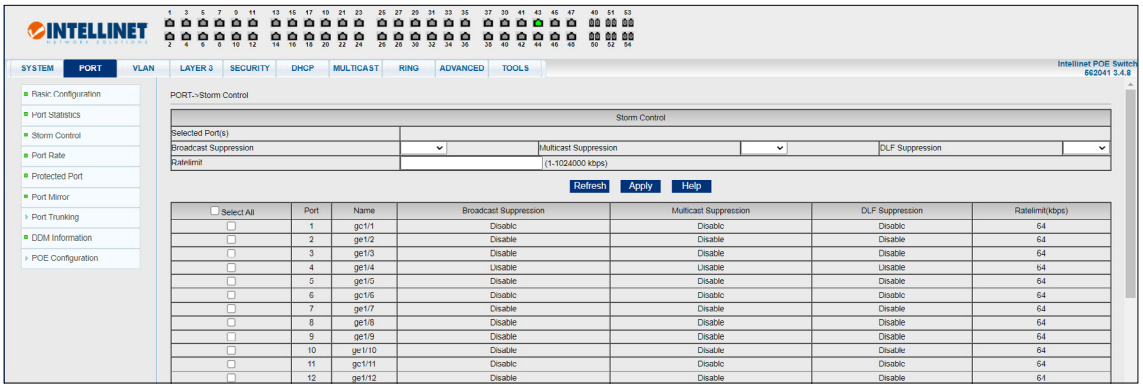



| ITEM | DESCRIPTION |
|---|---|
| Port statistical List | Display packets number, octets number, error packets number and discard packets number. |

# PORT STORM SUPPRESSION PAGE

This page is used to configuration port Broadcast Suppression, Multicast Suppression, DLF Suppression and Ratelimit.

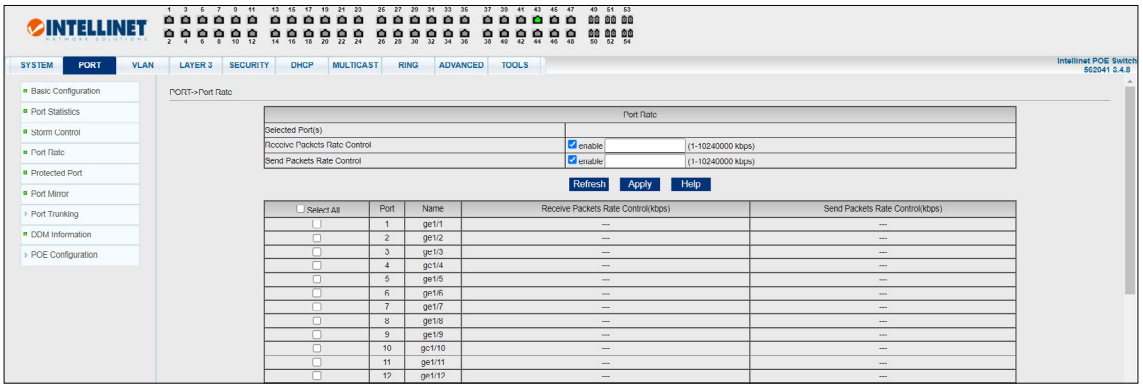
Use the Port drop-down menus to configure ports witht broadcast suppression, multicast, DLF inhibition and suppression. Inhibition rate is used to configure the port inhibition speed, range 1-1024000, unit kbits. The inhibition rate of the same port broadcast suppression, multicast and DLF inhibition is the same.




| ITEM | DESCRIPTION |
|---|---|
| Selected Port(s) | Select port from the following checkbox list. |
| Broadcast Suppression | Open/close Broadcast Suppression |
| Multicast Suppression | Open/close Multicast Suppression |
| DLF Suppression | Open/close DLF Suppression |
| Ratelimit | Configuration rate of the port, range in 1-1024000(kbits) |

# PORT SPEED LIMIT PAGE

This page is used to configure port send and receive rate. Click the port on the left, or use the "select all" function. The speed range is from 1 to 1024000 and the unit is kbits. The list on the page shows configuration information for all ports.

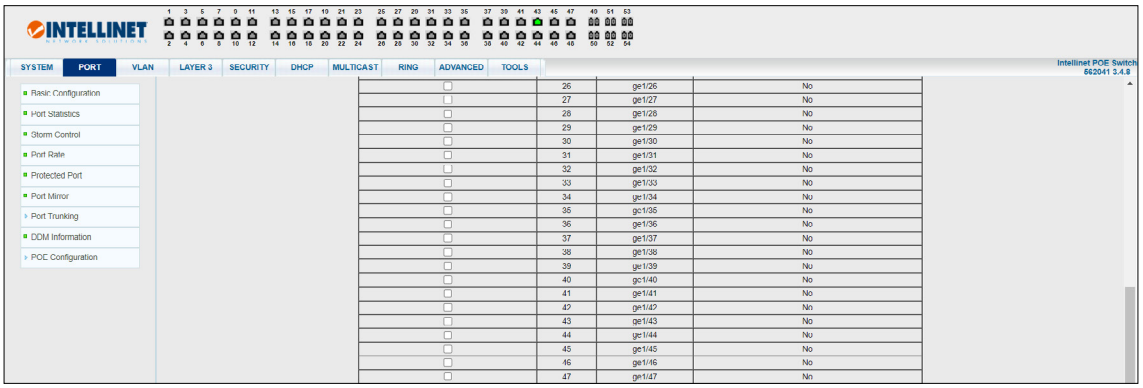



| ITEM | DESCRIPTION |
|---|---|
| Selected Port(s) | Select port from the following checkbox list. |
| Receive Packets Rate Control | Config and display Receive Packet Wide Band Control, range in 1-1024000(kbits) |
| Send Packets Rate Control | Config and display Send Packet Wide Band Control, range in 1-1024000(kbits). |

# PROTECTED PORT

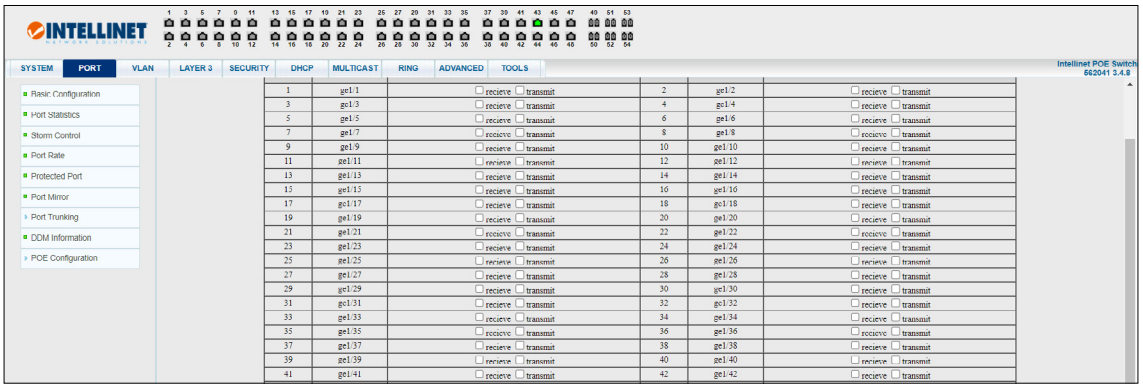
This page shows the protection status of each port. Protected ports can only communicate with unprotected ports.

You can tick the ports and press "protected port" button to set the related protected ports. You can tick the ports and press "Unprotected port" button to clear the related protected ports.




# PORT MIRRORING CONFIGURATION PAGE

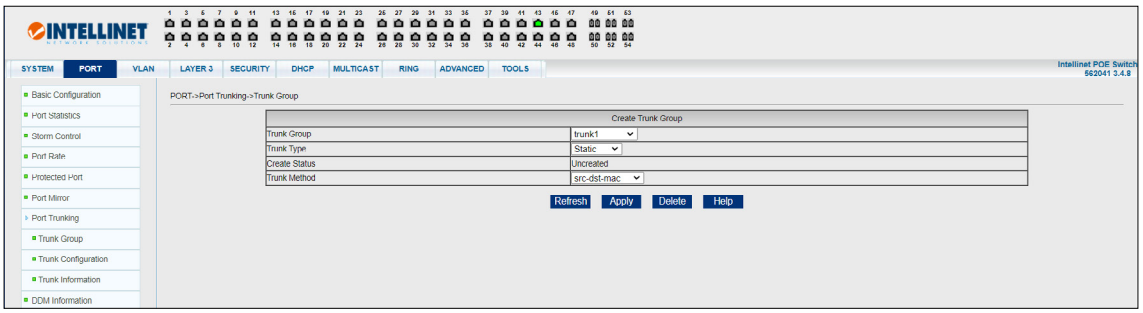
The page allows users to configure port mirroring.




| ITEM | DESCRIPTION |
|---|---|
| Listen Port | Configure listen port. Only can have one listen port. |
| Able Configuration Port | Able to be listened port. Select from the following listen direction checkboxes. |
| Name | The port name. |
| Listen Direction | Receive - listen received packets, Transmit - listen send packets |
| Apply | Active configuration. |
| Delete | Select unset option from Listen Port List and click the Apply button. |

# CREATE TRUNK GROUP PAGE

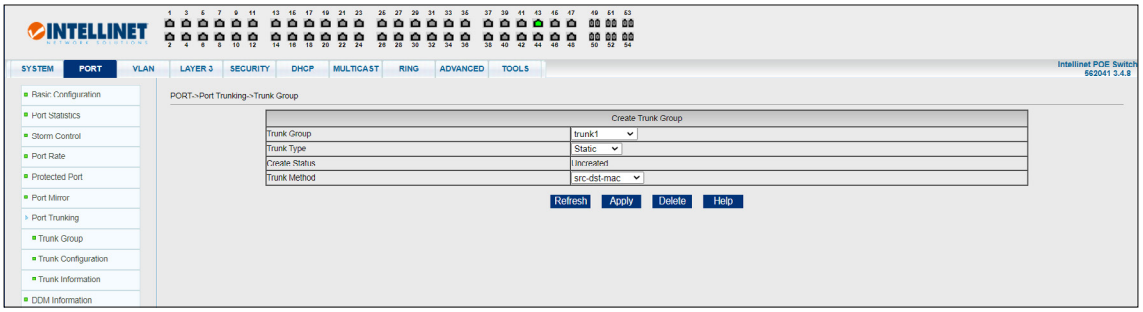
Link aggregation or Trunk groups are created here. Select the group you want to create from the pull-down menu and select the algorithm for link aggregation. The algorithm of link aggregation is based on source MAC, destination MAC, based on source and destination MAC at same time, source IP, destination IP, based on source and destination IP at same time.




| ITEM | DESCRIPTION | |
|---|---|---|
| Trunk Group | Create trunk Group, group ID is 1-32. | |
| Trunk Type | Static trunk group or dynamic LACP trunk group. | |
| Create Status | Uncreated or Created | |
| Trunk Method | Configuration port load balance strategy. | |
| | ***src-mac*** | Based on source MAC balancing strategy. |
| | ***dst-mac*** | Based on target MAC balancing strategy. |
| | ***src-dst-mac*** | Based on source and target MAC balancing strategy. |
| | ***src-ip*** | Based on source IP balancing strategy. |
| | ***dst-ip*** | Based on target IP balancing strategy. |
| | ***src-dst-ip*** | Based on source and target IP balancing strategy. |

## TRUNKING CONFIGURATION PAGE

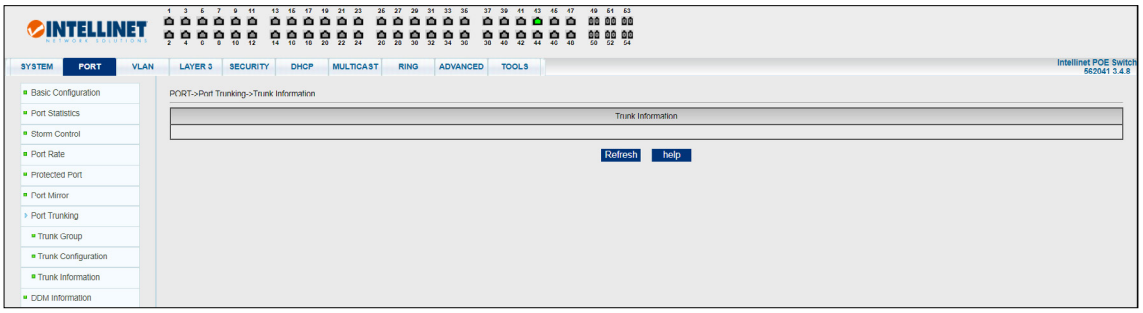
Select the link aggregation/Trunk group from the drop-down menu and select the port to join.




| ITEM | DESCRIPTION |
|---|---|
| Trunk Group created | Display trunk groups those that already have been created |
| Member Port | Port able to be Trunk group member. |

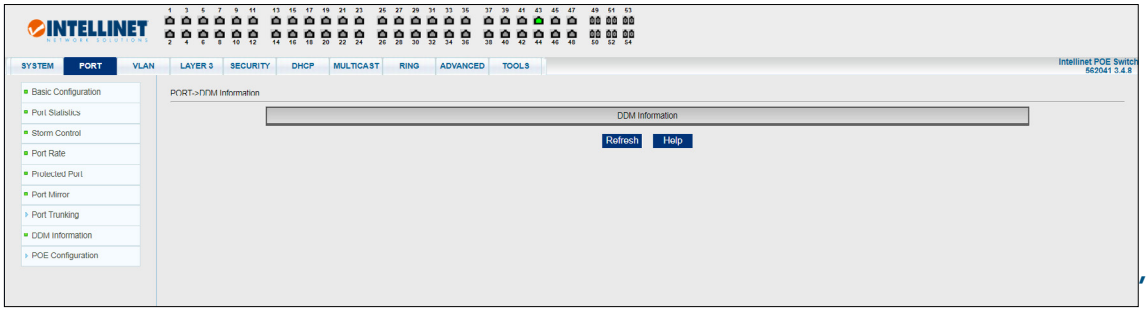
## TRUNK INFORMATION PAGE

This page displays all information about trunking.




# DDM INFORMATION

This page is used to display the DDM information of all ports with SFP or SFP+ optical modules inserted.



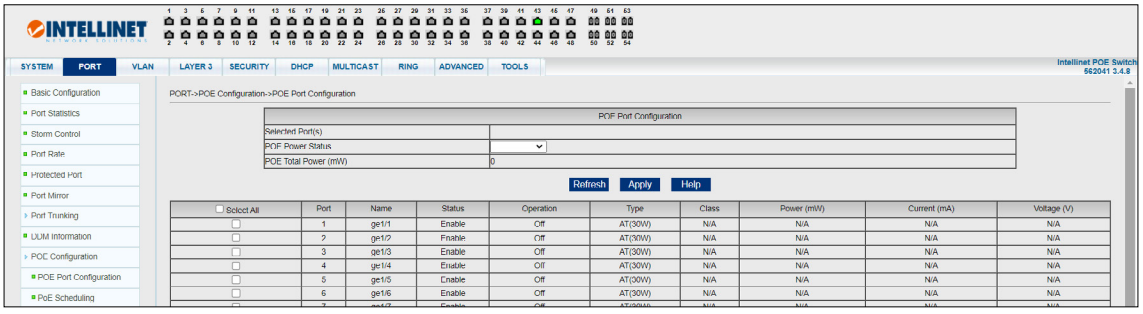

# POE PORT CONFIGURATION

PoE port Configuration Page

The PoE port configuration / PoE-display page. Users can enable or disable the port's PoE function to the page, or View all ports of PoE information.

Information can be seen in the following table:

| ITEM | | |
|---|---|---|
| Status | ***Enable*** | PoE function is available |
| | ***Disable*** | PoE function is close. |
| Operation | | Displays the PoE ports ON or OFF |



# VLAN CONFIGURATION

## VLAN CONFIGURATION PAGE

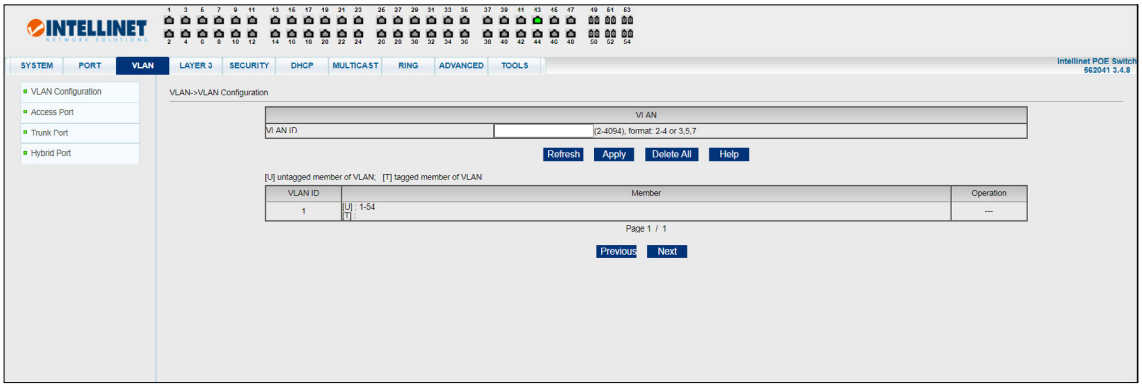
This page is used to create VLANs.

If you want to create a new VLAN, you can enter a VID in the active line, ranging from 2 to 4094. The switch creates VLAN 1 by default, and VLAN 1 cannot be deleted.

If you want to delete a VLAN, click the corresponding delete link in the VLAN list. Click the Delete All button to delete all VLANs except VLAN1.

The VLAN list shows all the VLANs that have been created and identifies the port members of each VLAN. A port can be a tagged or untagged member of a VLAN. The characters in the front of the page are as follows:

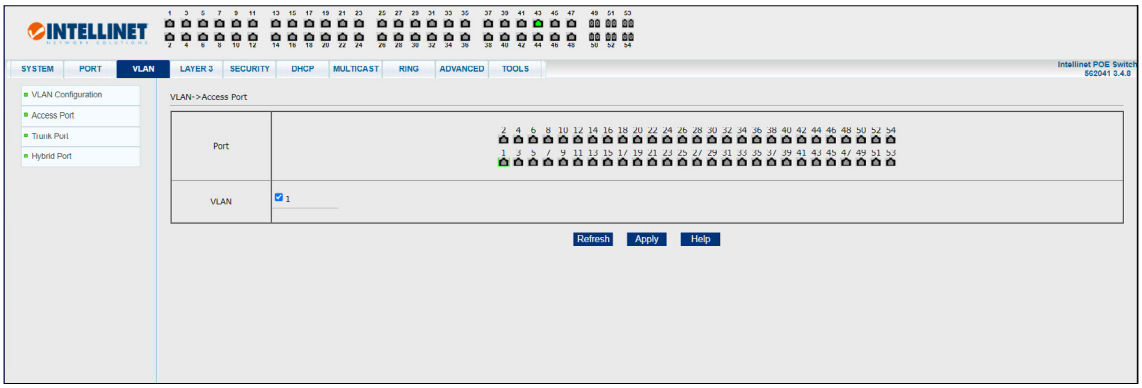
| ITEM | DESCRIPTION |
|---|---|
| T (tagged) | The port is a tagged member of this VLAN |
| U (untagged) | The port is an untagged member of this VLAN |




## ACCESS PORT CONFIGURATION PAGE

This page displays and configures the port access mode and the VLAN to which it belongs.

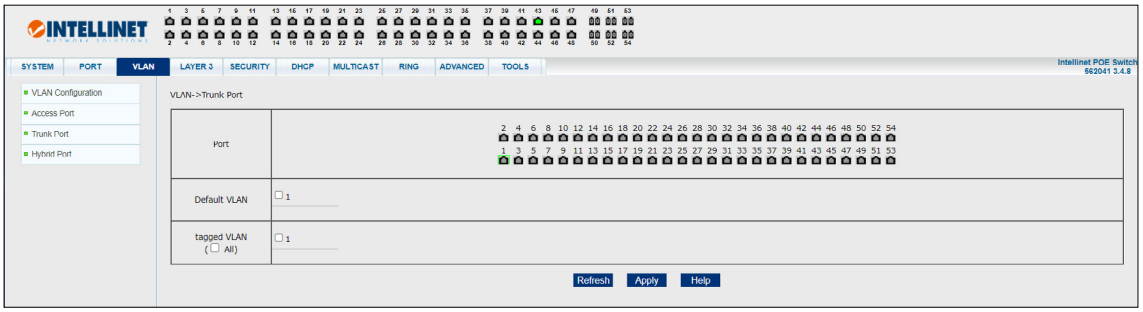
This page is divided into two parts: port list and VLAN list. The mouse on the port hover, you can see the port VLAN mode, click on a port to display / configure the port VLAN. If the port is in Access mode, it can display its VLAN, and you can select another VLAN then apply it. If the port is not in Access mode, the port is changed to Access mode and VLAN is configured. Note that only one VLAN can be selected when in Access mode style.



# TRUNK PORT CONFIGURATION PAGE

This page displays and configures the port Trunk mode and the VLAN to which it belongs.

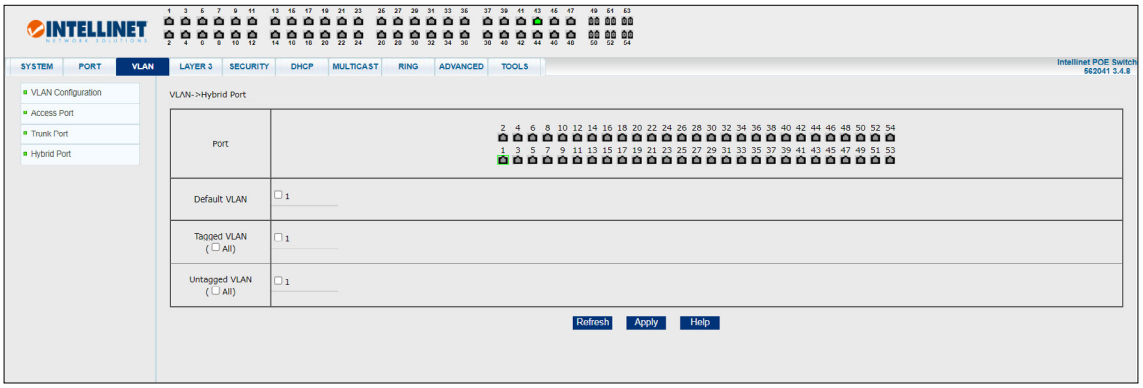
This page is divided into two parts: port list and VLAN list. The port part of the operation can refer to the second section (Access port configuration page). If the port is in trunk mode, it can display its VLAN, and you can select another VLAN than apply it. If the port is not in trunk mode, the port is configured with Trunk mode and VLAN. While in trunk mode, VLAN can be multi-selected. When need to select a group of consecutive VLAN, select the first, hold down the Shift key, then select the last one.




# HYBRID PORT CONFIGURATION PAGE

This page displays and configures the port hybrid mode and the VLAN to which it belongs.

This page is divided into two parts: port lists and VLAN list, the port part of the operation can refer to the second section (Access port configuration page). If the port is in hybrid mode, it can display its VLAN, and you can select another VLAN then apply it. If the port is not in the hybrid mode, the port is configured with the hybrid mode and the VLAN is configured. The default VLAN must be configured and only one can be selected. The tagged VLAN and the untagged VLAN can be selected in any number. However, for a VLAN, only one of the three modes can be selected. If a VLAN is configured with a tagged VLAN, the VLAN cannot be Specified as default VLAN or untagged VLAN, and so on.

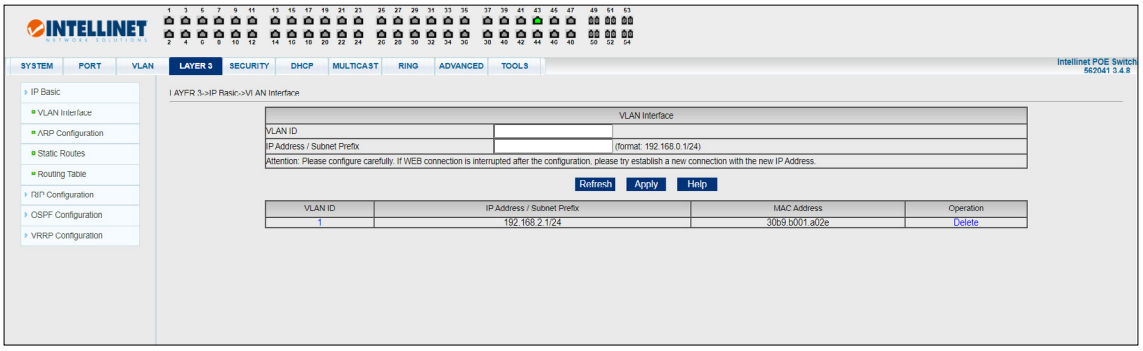


# LAYER 3 FEATURES

## IP BASIC CONFIGURATION

### VLAN INTERFACE CONFIGURATION PAGE

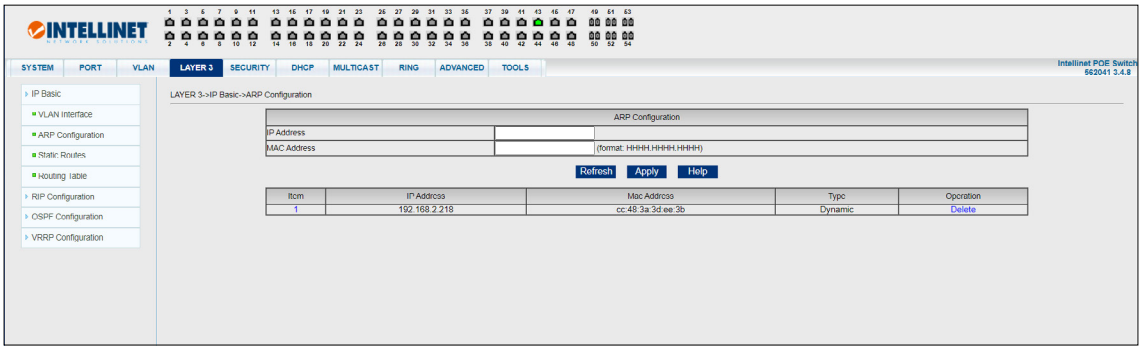
This page shows the VLAN interface configuration page. User can use this page to configure the IP address of the interface, remove the IP address of the interface, and view the interface information.




### ARP CONFIGURATION PAGE

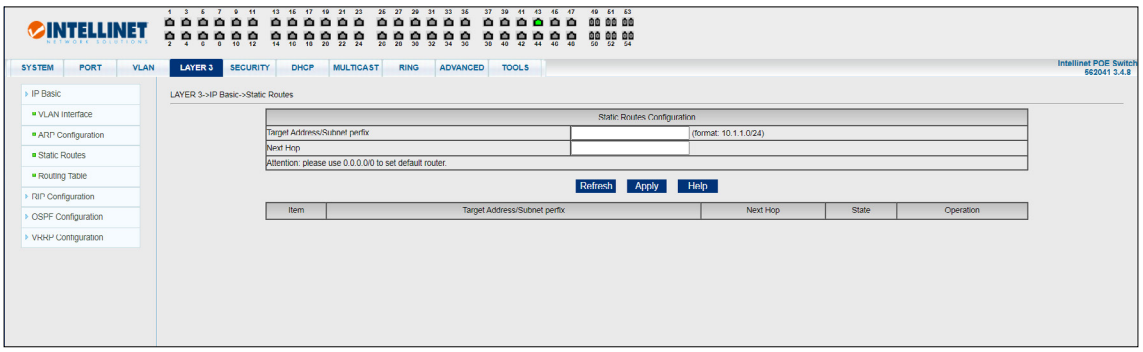
This page shows the ARP configuration page, which displays all the information of the ARP table of the switch. Users can use this page to configure static ARP entries, delete ARP entries, and modify dynamic ARP entries to static ARP entries.

When configure a static ARP entry, need to enter the IP address and MAC address. The MAC address must be a unicast MAC address, and then click the Apply button. When the user to delete an ARP entry, click on the list in the corresponding delete link can be.



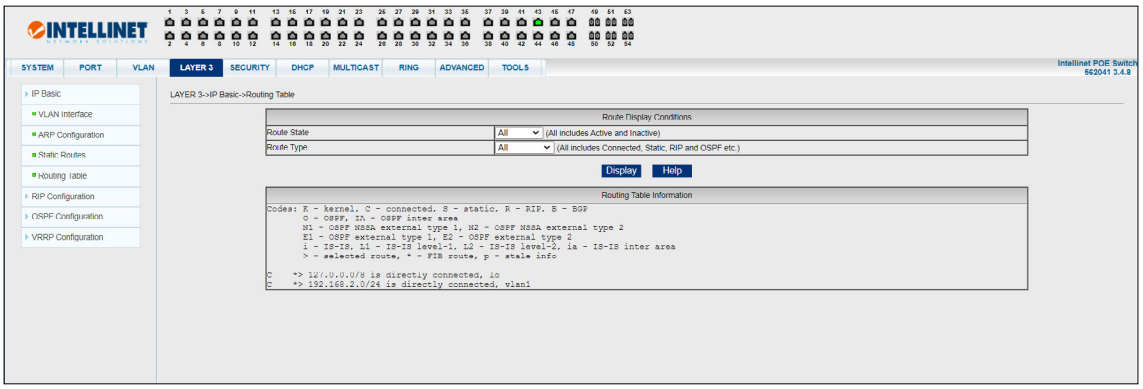

### STATIC ROUTING CONFIGURATION PAGE

This is a static routing configuration page, the user can add and delete the static routing of the switch. By default, no static route is configured on the switch. Users can configure the default route through the page. That is, the destination / subnet prefix is the routing of 0.0.0.0/0.



## ROUTING TABLE INFORMATION PAGE

This page is used to display routing table information according to the conditions of route state and route type.

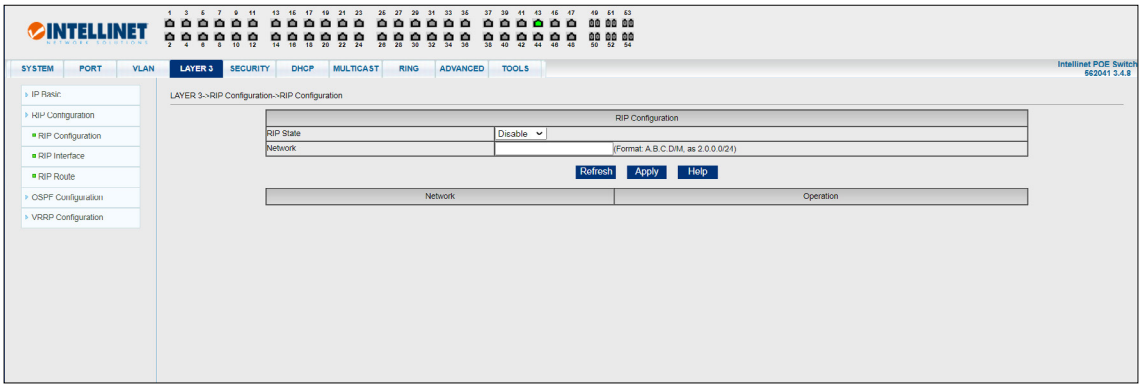



| ITEM | DESCRIPTION |
|---|---|
| Route State | Active means only to display active routes. All means to display all routes, including active and inactive routes. |
| Route Type | Connected means only to display connected routes. Static means only to display static routes. RIP means only to display dynamic routes learning from RIP protocol. OSPF means only to display dynamic routes learning from OSPF protocol. All means to display all types of routing information, including connected, static, RIP and OSPF etc. |
| Routing Table Information | Displaying the corresponding routing information according to the selection criteria. |

# RIP CONFIGURATION

## RIP CONFIGURATION

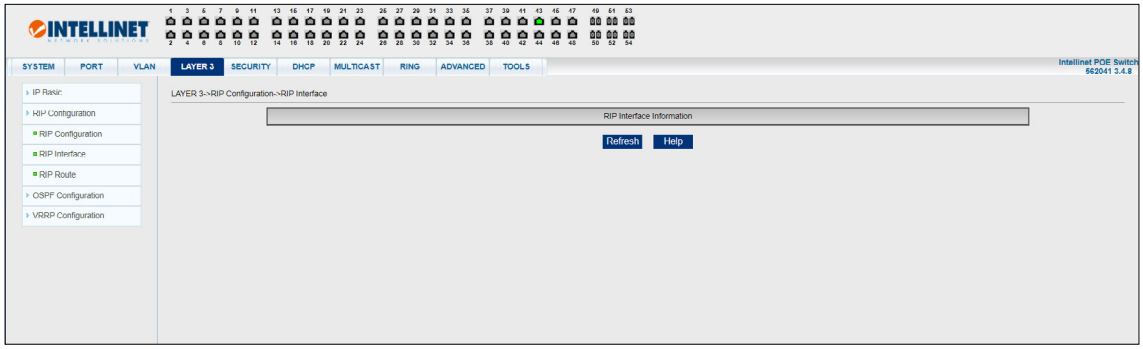
This page is used to configure and display RIP protocol.




| ITEM | DESCRIPTION |
|---|---|
| RIP State | Enable or disable RIP protocol. |
| Network | Set the network of the RIP protocol and start the RIP protocol of the corresponding VLAN interface according to the address of the network. |
| Network Information | List all the network information, and can delete the specified network. |

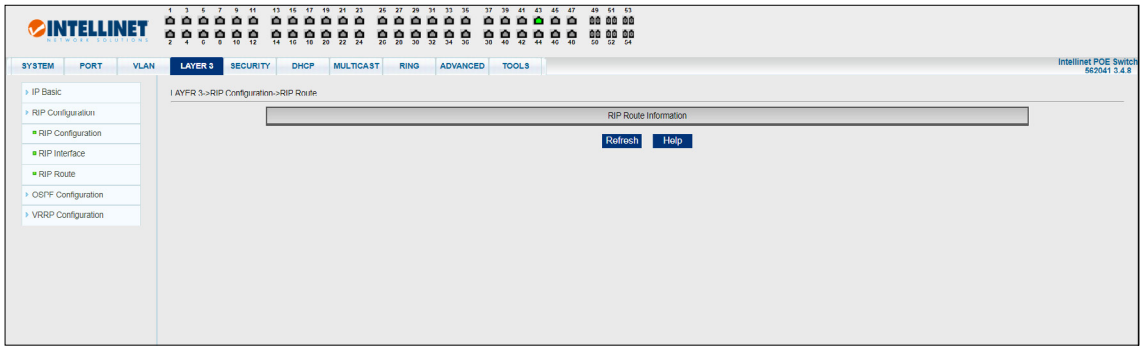
## RIP INTERFACE

This page is used to display all the RIP interface information.




## RIP ROUTE

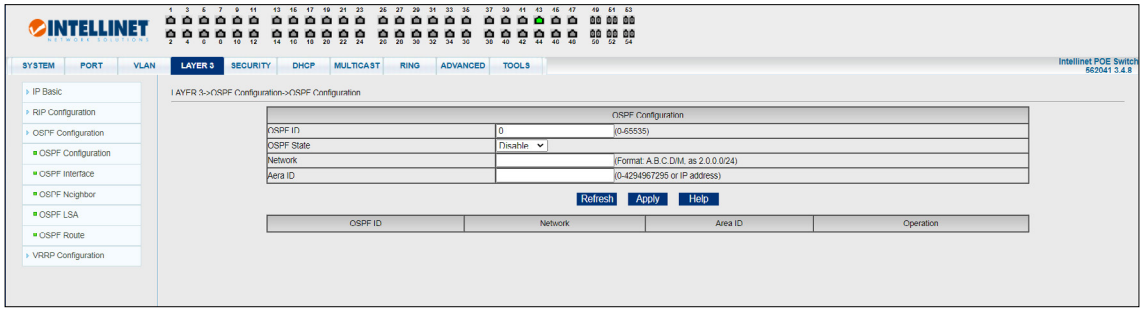
This page is used to display all the RIP route information.




# OSPF CONFIGURATION

## OSPF CONFIGURATION

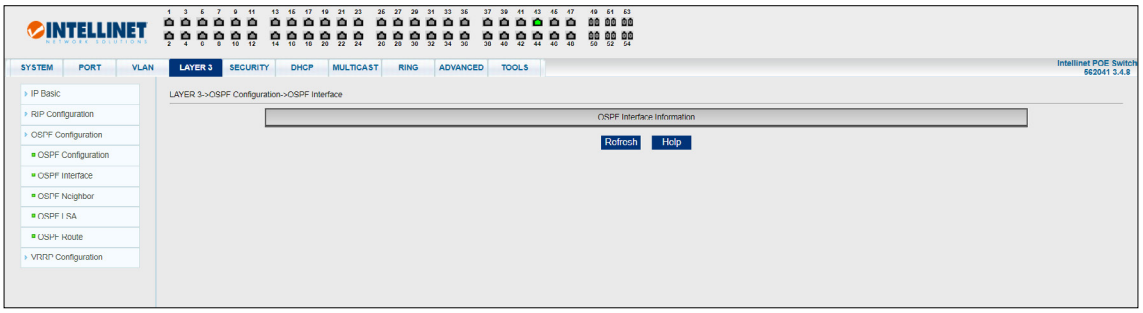
This page is used to configure and display OSPF protocol.




| ITEM | DESCRIPTION |
|---|---|
| OSPF ID | Fill in the OSPF id. The following OSPF state and network etc. belong to this OSPF id. The default OSPF id is 0. |
| OSPF State | Enable or disable OSPF protocol. |
| Network | Set the network of the OSPF protocol and start the OSPF protocol of the corresponding VLAN interface according to the address of the network. |
| Aera ID | The area id of the network. The default area id is 0. |

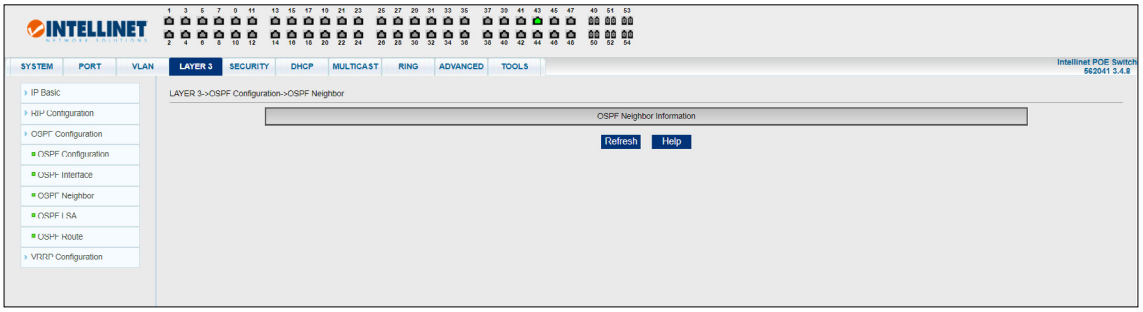
## OSPF INTERFACE

This page is used to display all the OSPF interface information.



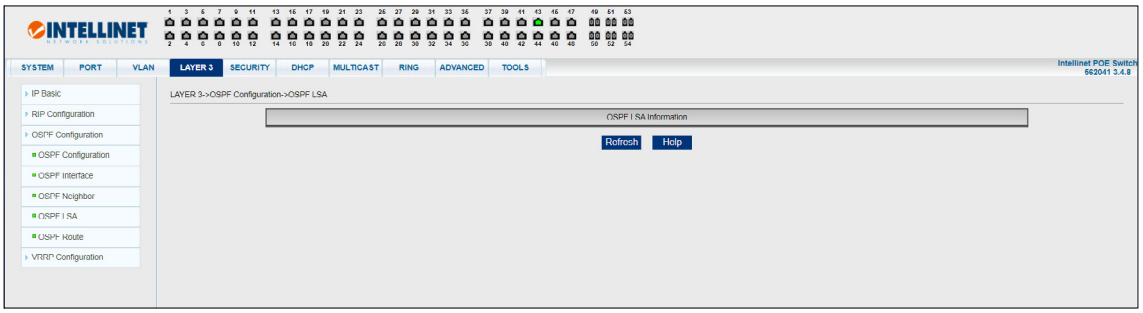

## OSPF NEIGHBOR

This page is used to display all the OSPF neighbor information.



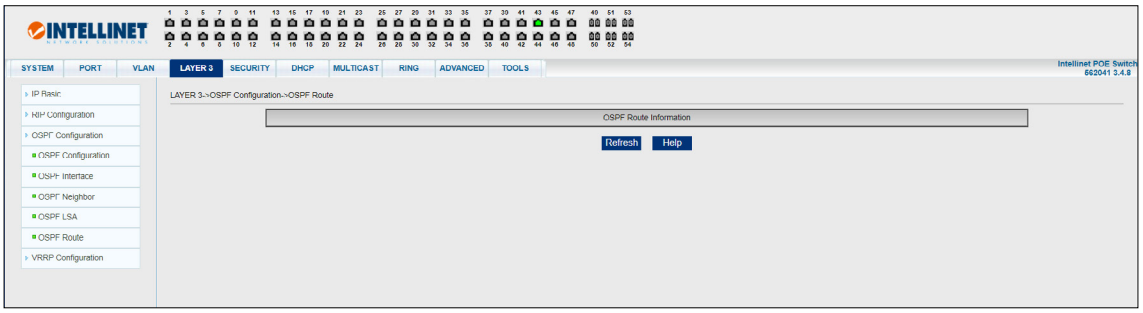

## OSPF LSA

This page is used to display all the OSPF LSA information.




## OSPF ROUTE

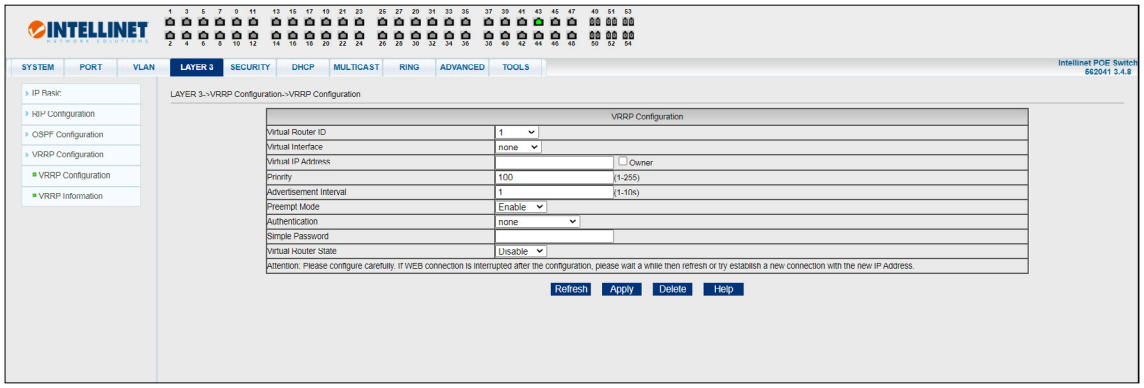
This page is used to display all the OSPF route information.



# VRRP CONFIGURATION

## VRRP CONFIGURATION

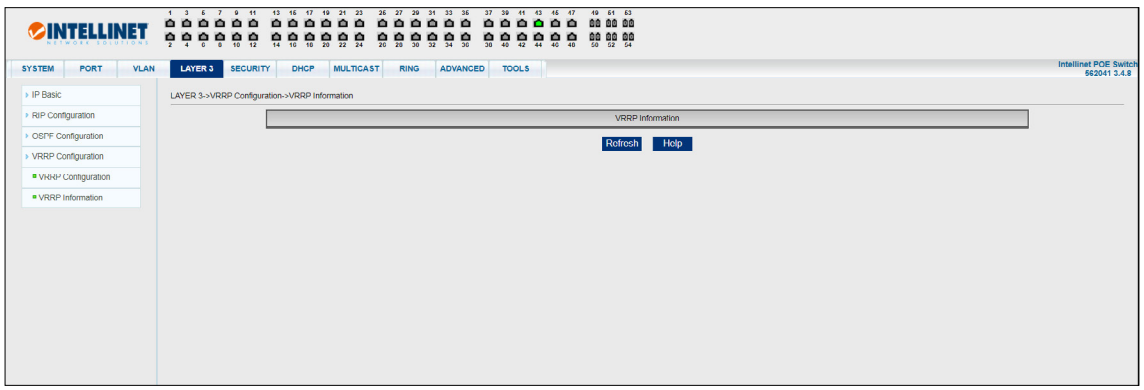
This page is used to configure VRRP.




| ITEM | DESCRIPTION |
|---|---|
| Virtual Router ID | One switch can enable multiple virtual routers on different interfaces. The virtual router ID ranges from 1 to 255. |
| Virtual Interface | Select the layer3 VLAN interface used by the virtual router. |
| Virtual IP Address | If the virtual IP address is the IP address of the layer 3 VLAN interface of the virtual router, the Owner checkbox must be selected. |
| Priority | If the virtual router is Owner, the priority must be 255. On multiple switches of the same virtual router, the one with the highest priority becomes the master. |
| Advertisement Interval | If the virtual router is master, this is the time interval for sending VRRP packets. |
| Preempt Mode | If the preempt mode is true, the switch with higher priority will preempt and become the master. If the preempt mode is false and there is a master in the virtual router, the switch with higher priority but not Owner will not preempt and become the master. |
| Authentication | Authentication mode of protocol interaction between multiple switches in the same virtual router, including none and simple password authentication. |
| Simple Password | Set password content if the simple password authentication is selected. |
| Virtual Router State | Enable or disable the virtual router. |

## VRRP INFORMATION

This page is used to display the VRRP information, including all existing virtual routers.



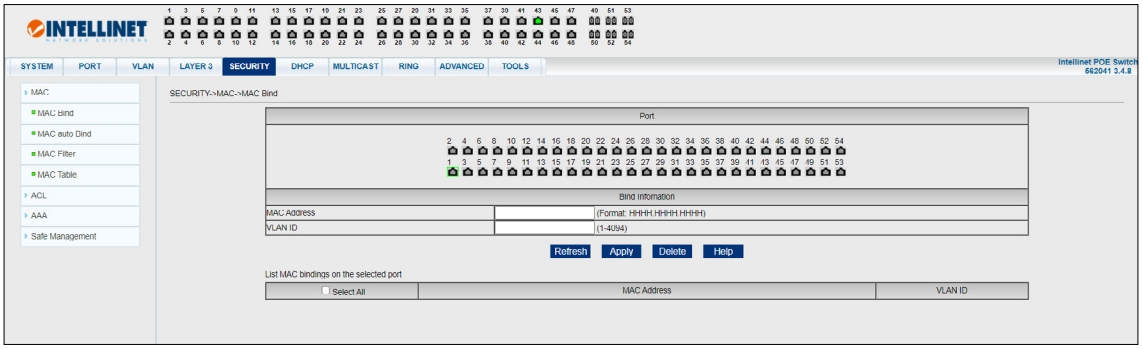
# SECURITY CONFIGURATION

## MAC CONFIGURATION

### MAC ADDRESS MANUAL BINDING PAGE

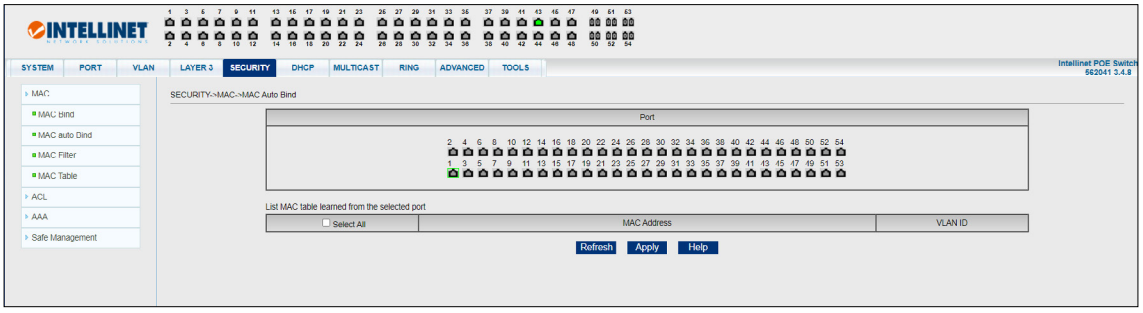
This page is used to achieve the port to the MAC address binding.

The MAC address on the page is used to enter the bound MAC address. The VLAN ID entry is used to enter the VLAN to which the MAC address belongs.



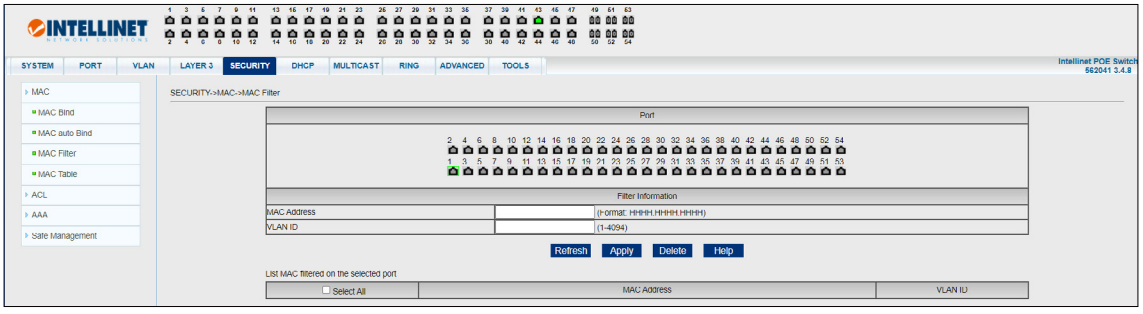

### MAC ADDRESS AUTO-BINDING PAGE

This is the MAC binding automatic conversion page. This page is used to achieve the port MAC address auto-binding.




### MAC FILTERING CONFIGURATION PAGE

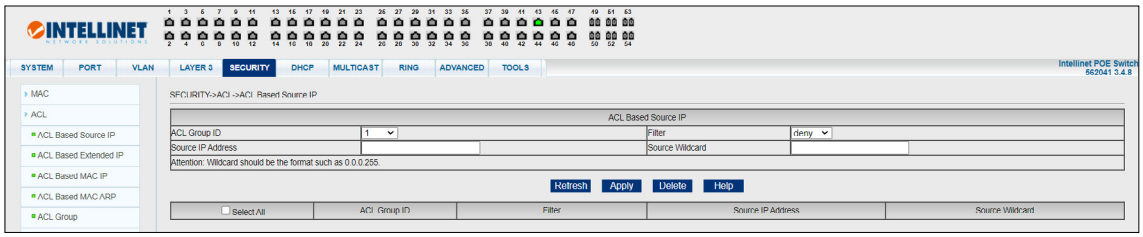
Enter the MAC address for filtering and VLAN ID entry is used to enter the MAC address affiliated VLAN.



# ACL CONFIGURATION

## IP SOURCE ACL CONFIGURATION PAGE

This is the IP standard group ACL page the user can use this page to establish the ACL standard IP rule base. The user can select an ACL group number (range between 1-99, or 1300-1999) to create one or more rules in the group. Fields that can be matched in a rule have only source IP addresses (with mask).

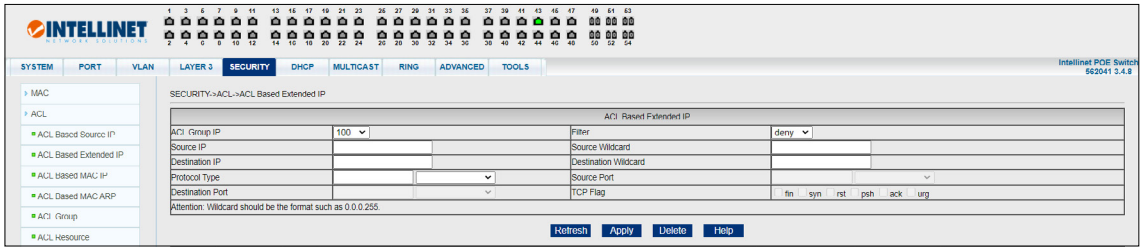



The source IP address must include a mask, the rule can match the collection of IP addresses.

Example if the rule desired was to match the IP address range 192.168.0.0 to 192.168.0.255, then the IP address should be 192.168.0.1 and its mask of 0.0.0.255. Each rule has a filter mode: allow or deny.

## IP EXTENDED ACL CONFIGURATION PAGE

This is an extended IP group ACL page, through which users can create a rule base for ACL extension IP. The user can select an ACL group number (between 100-199, or 2000-2699) to create one or more rules in the group. (Such as ICMP, TCP, UDP, etc.), the source port, and the destination port (TCP and UDP only). The source IP address (masked), destination IP address (masked), protocol type (such as ICMP, TCP, UDP, etc.) Protocol valid), TCP control flag.



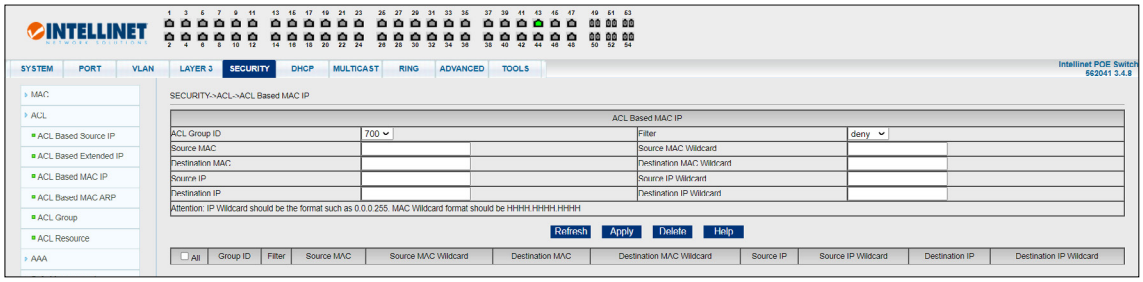

When a user configures a rule, the source IP address and destination IP address must be masked. The rule can match the set of IP addresses.

Example if the rule desired was for IP address range 192.168.0.0 to 192.168.0.255, The IP address should be 192.168.0.1 and the mask is 0.0.0.255.

Each rule must have a filtering mode: allow or deny.

## MAC IP GROUP ACL PAGE

This shows the MAC IP group ACL page. You can use this page to create a rule base for ACL MAC addresses. The user can select an ACL group number (in the range of 700-799) to create one or more rules in the group. Fields that can match in a rule Active MAC address (with address match bit), source IP address (with address match bit), destination IP address (with address match bit).

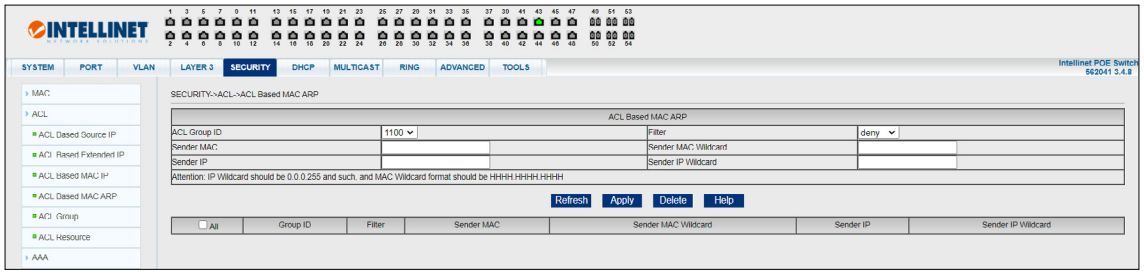


When configures a rule, the source MAC address, source IP address, and destination IP address need to match the address. The rule can match the set of MAC address and IP address. For example, if the rule matches the IP address range 192.168.0.0 to 192.168.0. 255, the IP address should be 192.168.0.1 and its mask is 0.0.0.255.

Each rule must have a filtering mode: allow or deny.

## MAC ARP GROUP ACL PAGE

This page shows the MAC ARP group ACL. You can use this page to create a rule base for ACL MAC ARP. The user can select an ACL group number (in the range of 1100-1199) to create one or more rules in the group. Fields that can be matched in a rule have ARP operation type, send MAC address (with address match bit), send IP address (with address match bit).




The MAC address and the IP address are sent with an address matching bit.

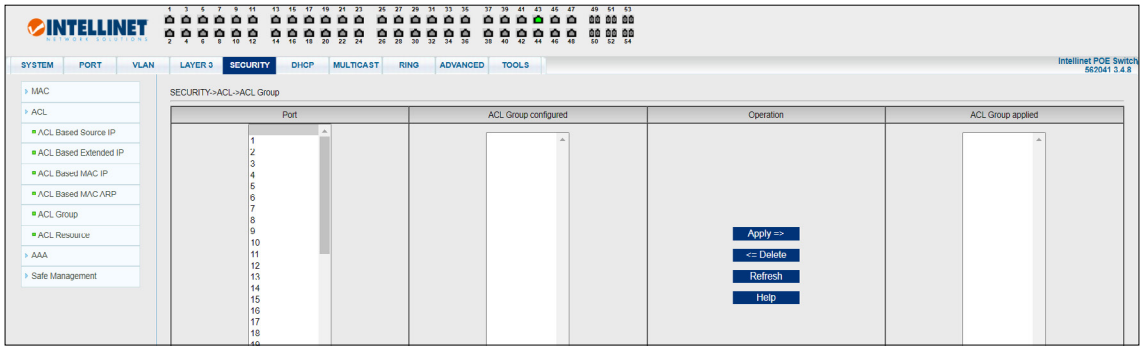
Example, if the rule matches the IP address range 192.168.0.0 to 192.168.0. 255, the IP address should be 192.168.0.1 and its mask is 0.0.0.255.

Each rule must have a filtering mode: allow or deny.

## PORT APPLICATION ACL PAGE

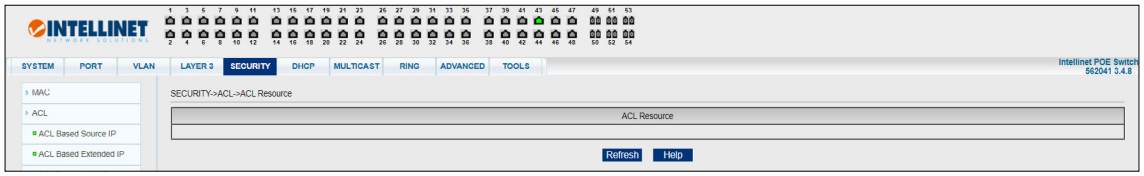
This shows the ACL application page for a port. Use this page to select an ACL group for a port and write the rules in this ACL group to the port hardware logic to enable the port to perform ACL filtering on the received packets according to these rules.

When selecting an ACL group on a port, select the IP standard, IP extension, MAC IP, and MAC ARP ACL. The selected ACL group must exist. Select the ACL rule group list and press the Add key. When deleting an ACL group, select an ACL group from the list of referenced rule groups and press the Delete key.




## ACL CONFIGURATION INFORMATION PAGE

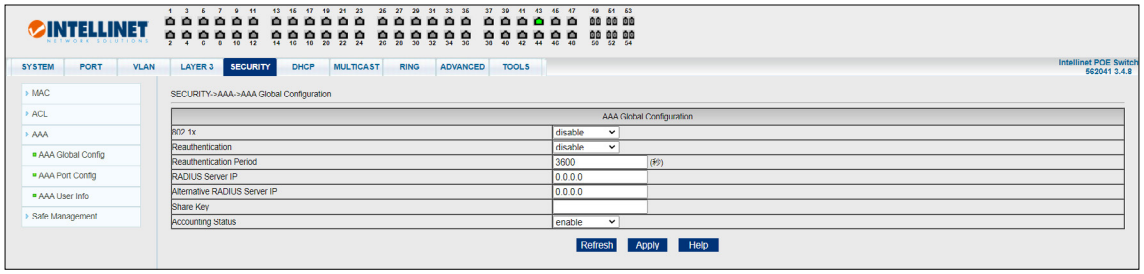
This shows the ACL configuration information page, which displays all the rules and references configured in the current ACL.



# AAA CONFIGURATION

## AAA GLOBAL CONFIGURATION PAGE

This is the AAA global configuration page. It can configure the information related to AAA. The information that can be set includes:




Enable or disable 802.1x protocol, be sure to enable 802.1x protocol when doing authentication and accounting.

Enable or disable the re-authentication function. the default is disabled. Turning on the reauthentication will slightly increase the traffic to the network.

Set the re-authentication interval, only in the case of re-authentication function is enabled, the default is 3600 seconds.

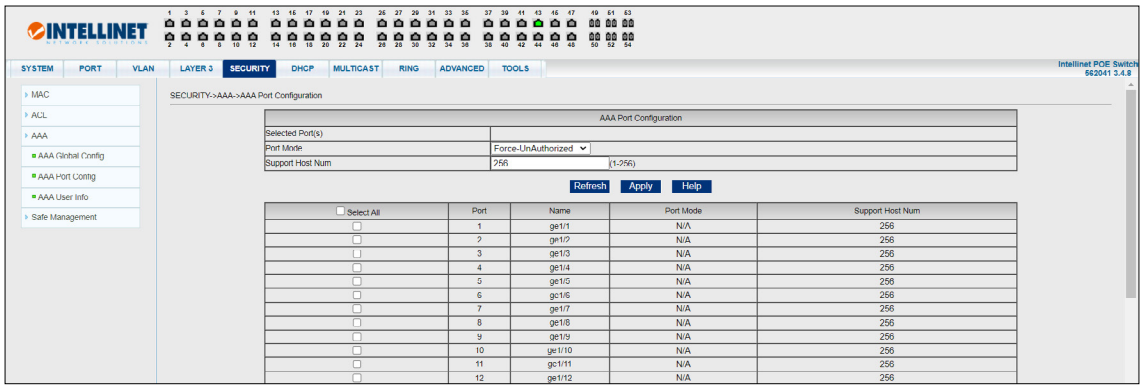
RADIUS server IP address – The IP address of your RADIUS server is entered here.

Standby RADIUS server IP address, can be set if there is an alternate RADIUS server.

Shared key, used to set the switch and the Radius server between the encrypted shared password.

## AAA PORT CONFIGURATION PAGE

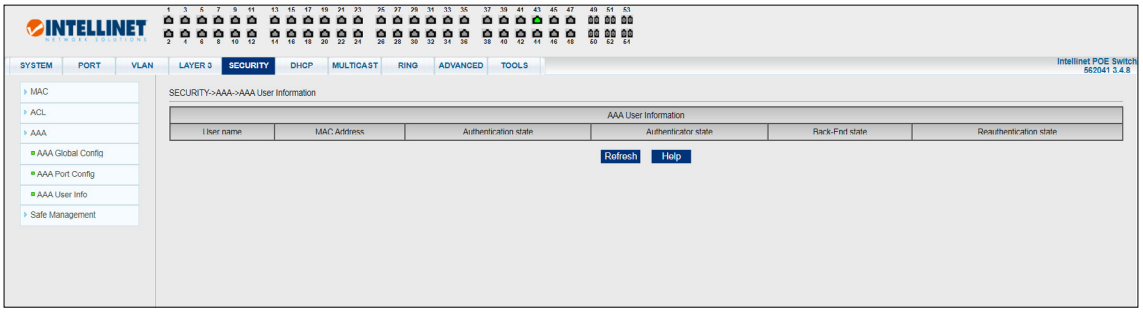
This shows the AAA port configuration page. Configure and view the authentication port mode. To modify the port AAA configuration, the user needs to check the left side of the corresponding port, or use the "Select All" function, the selected port will be displayed at the top of the page, several consecutive ports with the connection number. When the settings are successful, the selected ports are configured with the same parameters. The AAA port mode includes four types: N / A status, Auto status, Force-authorized status, and Force-unauthorized status. When a port needs to do 802.1x authentication, the port should be set to Auto state, if no authentication it can access the network, the port is set to N / A state, the other two states in the practical application rarely used.




When 802.1x authentication is enabled, the maximum number of hosts that can be accessed by the port is 256, and the user can modify this field to support up to 256.

## AAA USER INFORMATION PAGE

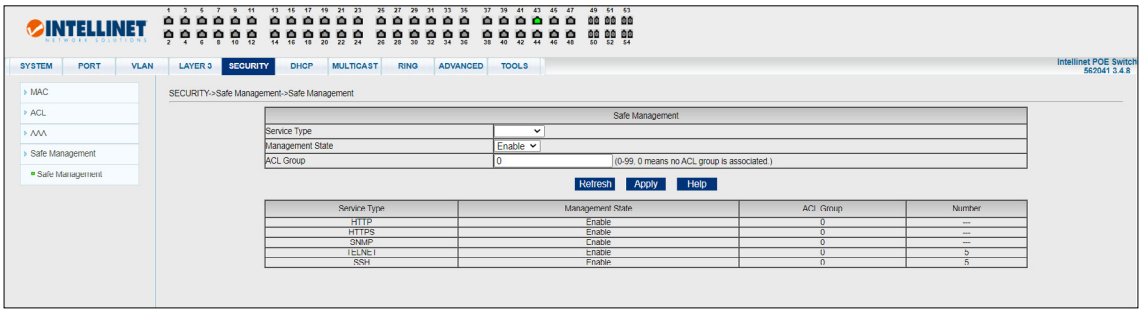
The user can view the page under a port access to all users of the state information




# LOCAL MANAGEMENT SECURITY CONFIGURATION

## SAFE MANAGEMENT CONFIGURATION PAGE

The administrator can enable or disable all of the network management services.

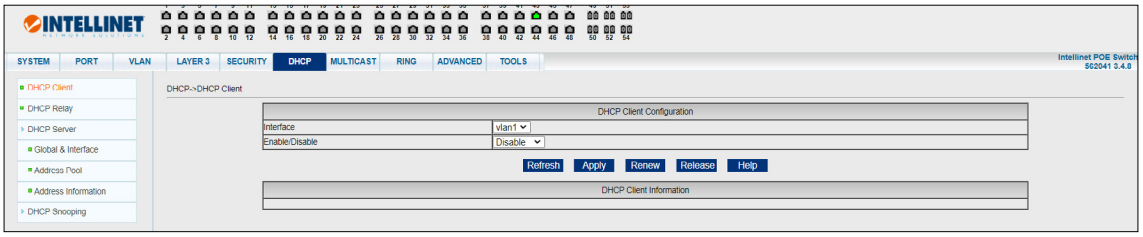



By default TELNET, WEB and SNMP services are enabled. ACL filtering is not applied by default.

# DHCP

## DHCP CLIENT

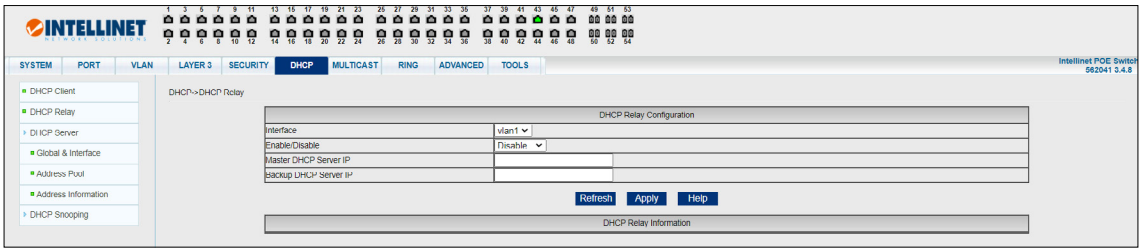
This page is used to configure DHCP client.




| ITEM | DESCRIPTION |
|---|---|
| Interface | Select the layer 3 VLAN interface to be configured. |
| Enable/Disable | Enable or disable the DHCP client feature of the specified interface. |
| DHCP Client Information | Display the DHCP client information. |

## DHCP RELAY

This page is used to configure DHCP relay.

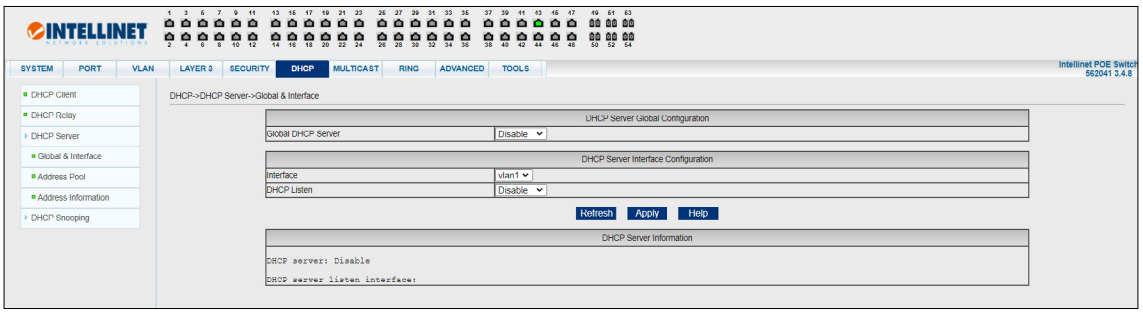



| ITEM | DESCRIPTION |
|---|---|
| Interface | Select the layer 3 VLAN interface to be configured. |
| Enable/Disable | Enable or disable the DHCP relay feature of the specified interface. |
| Master DHCP Server IP | Set the master DHCP server IP address. |
| Backup DHCP Server IP | Set the backup DHCP server IP address. |
| DHCP Relay Information | Display the DHCP relay information. |

## DHCP SERVER

### DHCP SERVER GLOBAL & INTERFACE CONFIGURATION

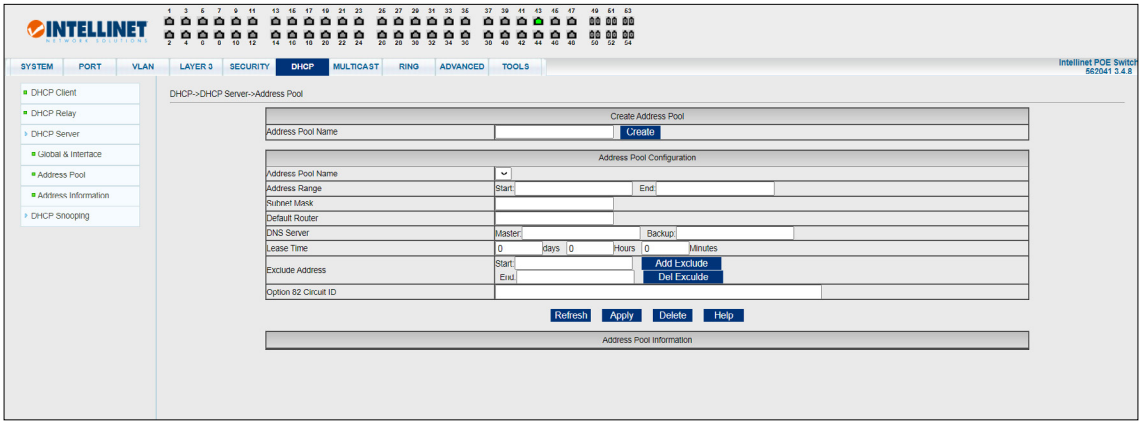
This page is used to configure DHCP server, including global and interface configuration.



| ITEM | DESCRIPTION |
|---|---|
| Global DHCP Server | Enable or disable global dhcp server. |
| Interface | Select the layer 3 VLAN interface to be configured. |
| DHCP Listen | Enable or disable the DHCP listen feature of the specified interface. |
| DHCP Server Information | Display the DHCP server global and interface configuration information. |

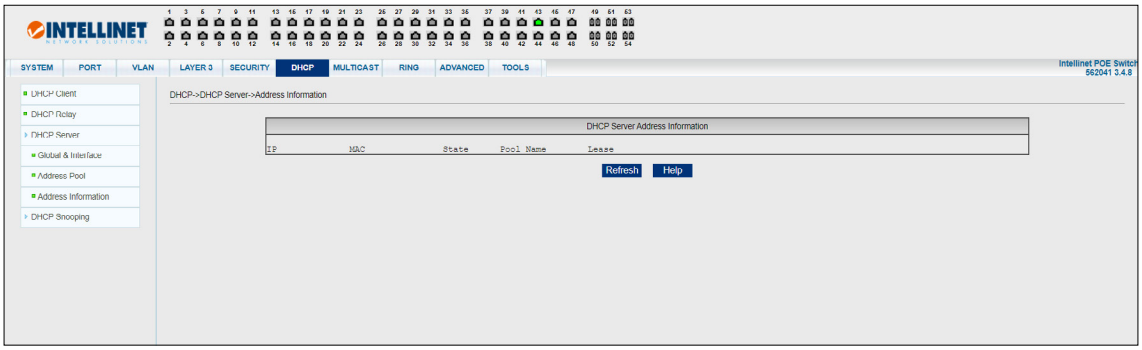
## DHCP SERVER ADDRESS POOL CONFIGURAITON

This page is used to configure DHCP server address pool.




| ITEM | DESCRIPTION |
|---|---|
| Address Pool Name | To be created – Set the address pool name to be created, then click "Create" button. |
| Address Pool Name | To be configured – Select the address pool name to be configured. |
| Address Range | Set the range of IP addresses that can be assigned to DHCP clients in this address pool. |
| Subnet Mask | Set the subnet mask that this address pool can assign to DHCP clients. |
| Default Router | Set the default router that this address pool can assign to DHCP clients. |
| DNS Server | Set the IP addresses of the DNS server that this address pool can assign to DHCP clients. You can set the master and backup DNS server IP addresses. |
| Lease Time | Set the lease time that this address pool can assign to DHCP clients. You can set a limited lease time of days, hours and minutes or select infinite lease time. |
| Exclude Address | Set the exclude address range to not be assigned to DHCP clients. You can add or delete exclude address by clicking the two buttons. |
| Option 82 Circuit ID | Set the option 82 circuit id applicable to the address pool. |

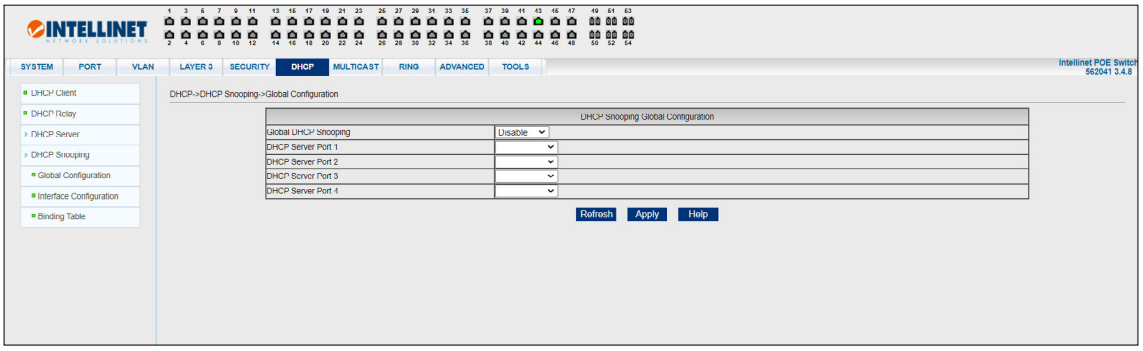
## DHCP SERVER ADDRESS INFORMATION



# DHCP SNOOPING GLOBAL CONFIGURATION

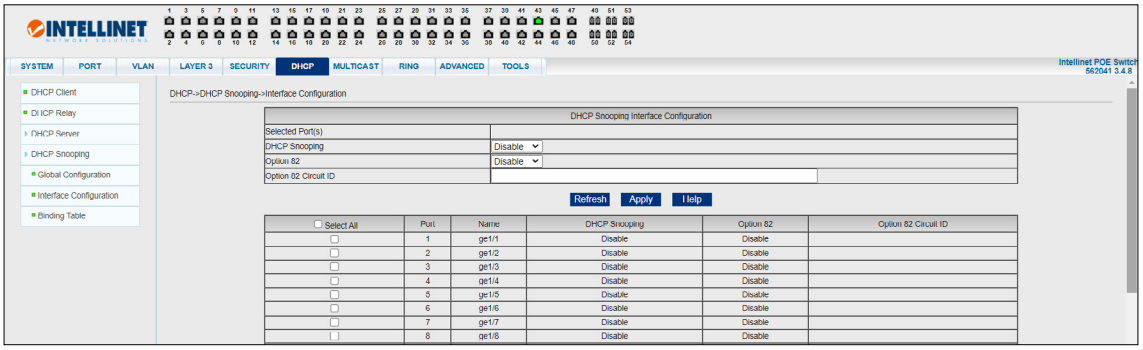
## GLOBAL CONFIGURATION

This page is used to configure global DHCP snooping.

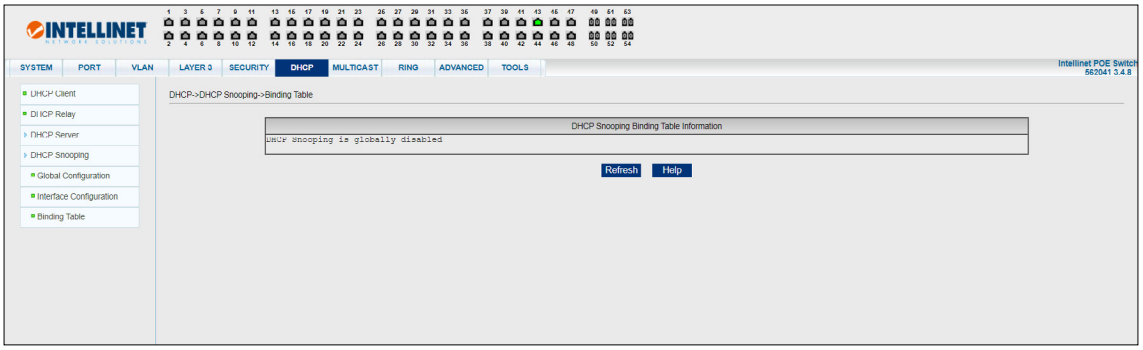



| ITEM | DESCRIPTION |
|---|---|
| Global DHCP Snooping | Enable or disable global DHCP snooping. |
| DHCP Server Port 1 | Select the trusted port to which the DHCP server is connected. Up to four DHCP server trusted ports can be selected. |
| DHCP Server Port 2 | Select the trusted port to which the DHCP server is connected. Up to four DHCP server trusted ports can be selected. |
| DHCP Server Port 3 | Select the trusted port to which the DHCP server is connected. Up to four DHCP server trusted ports can be selected. |
| DHCP Server Port 4 | Select the trusted port to which the DHCP server is connected. Up to four DHCP server trusted ports can be selected. |

## DHCP SNOOPING INTERFACE CONFIGURATION



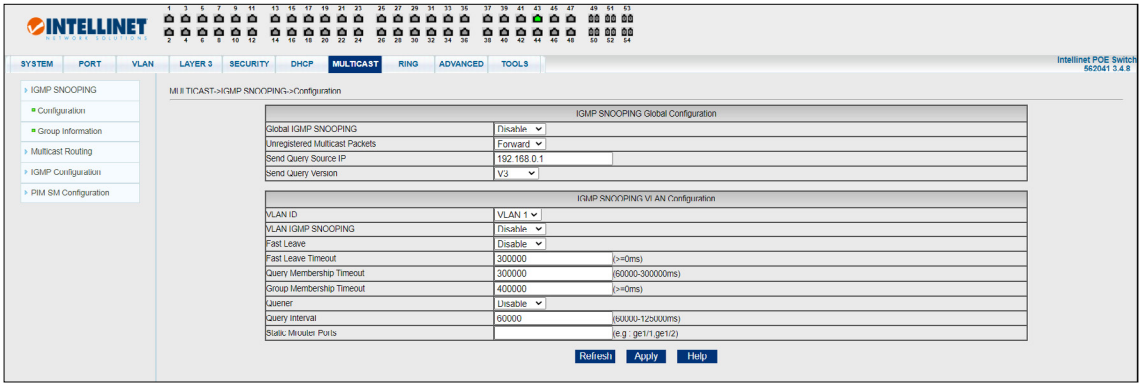

## DHCP SNOOPING BINDING TABLE INFORMATION



# MULTICAST CONFIGURATION

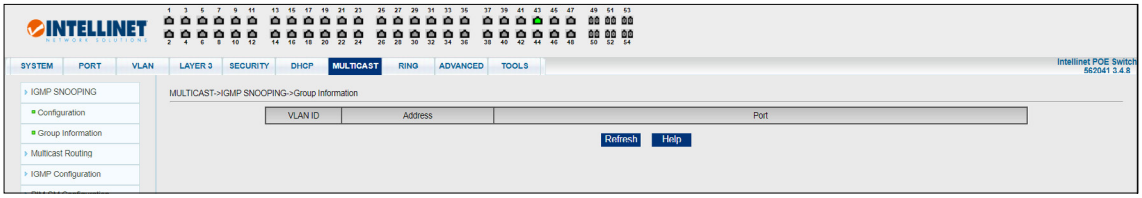
## IGMP SNOOPING

### CONFIGURATION




| ITEM | DESCRIPTION |
|---|---|
| Global IGMP SNOOPING | Enable or disable global-based IGMP snooping. The default value is disabled. |
| VLAN ID | Select a VLAN to do the following configuration. |
| VLAN IGMP SNOOPING | Enable or disable VLAN-based IGMP snooping. |
| Fast Leave | Enable or disable VLAN-based IGMP snooping fast leave function. |
| Fast Leave Timeout | Set VLAN-based IGMP snooping fast leave timeout. |
| Query Membership Timeout | Set VLAN-based IGMP snooping query membership timeout. |
| Group Membership Timeout | Set VLAN-based IGMP snooping group membership timeout. |
| Querier | Enable or disable the VLAN to send IGMP query packets. |
| Query Interval | Set the interval for sending IGMP query packets in this VLAN. |

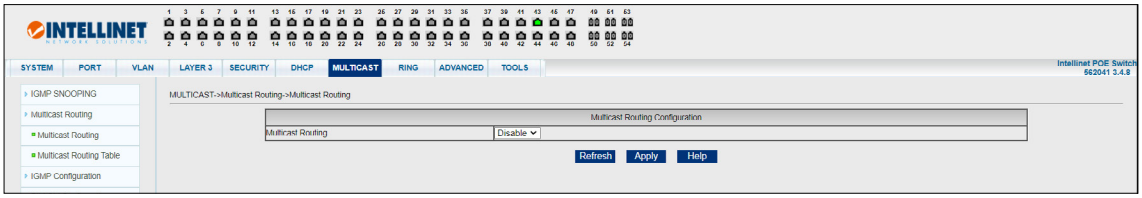
### MULTICAST GROUP INFORMATION



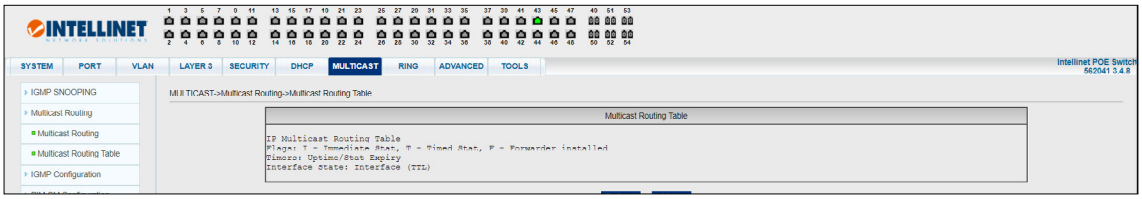

## MULTICAST ROUTING CONFIGURATION

### MULTICAST ROUTING

Enable or disable the multicast routing. Before operating IGMP or PIM-SM protocol, you need to enable the multicast routing first.

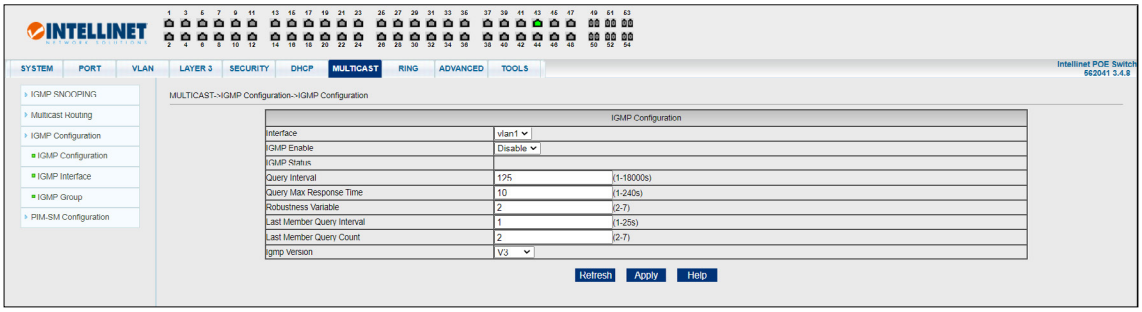


## MULTICAST ROUTING TABLE



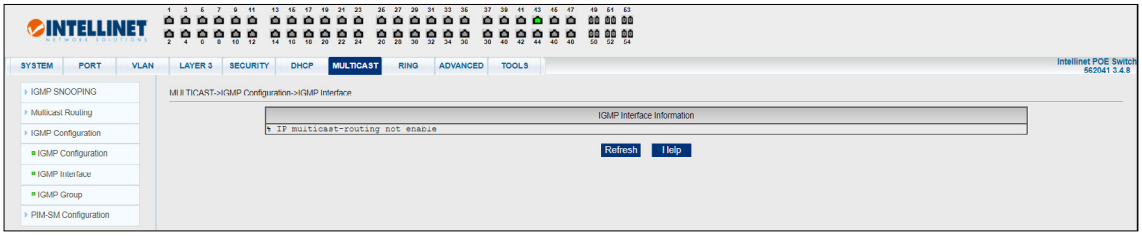

# IGMP CONFIGURATION

## CONFIGURATION

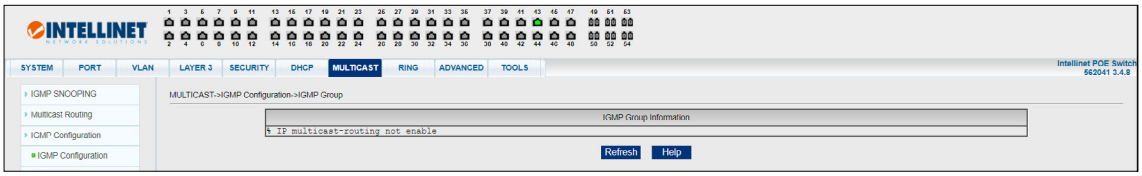



| ITEM | DESCRIPTION |
|---|---|
| Interface | Select an interface to do the following configuration. |
| IGMP Enable | Enable or disable the IGMP protocol of the selected interface. Before operating the IGMP protocol, you need to enable the global multicast routing first. When the PIM-SM protocol of the interface is enabled, even if the IGMP protocol is disabled here, the IGMP protocol is always running. |
| IGMP Status | Display the IGMP protocol running status of the interface. |
| Query Interval | Configure the time interval for the interface to send IGMP query packets. |
| Query Max Response Time | Configure the max response time encapsulated in the IGMP query packet sent by the interface. The host sends back the IGMP report packet within the max response time. |
| Robustness Variable | Configure the robustness variable of the interface. The robustness variable affects the number of retransmissions and the interval of related timers. |
| Last Member Query Interval | Configure the last member query interval of the interface. When an IGMP leave packet is received, the group-specific IGMP query packet is retransmitted according to this time interval. |
| Last Member Query Count | Configure the last member query count of the interface. When an IGMP leave packet is received, the number of times that a group-specific IGMP query packet is sent without responses. |
| IGMP Version | Configure the version number of the IGMP packets sent by the interface. |

## IGMP INTERFACE INFORMATION

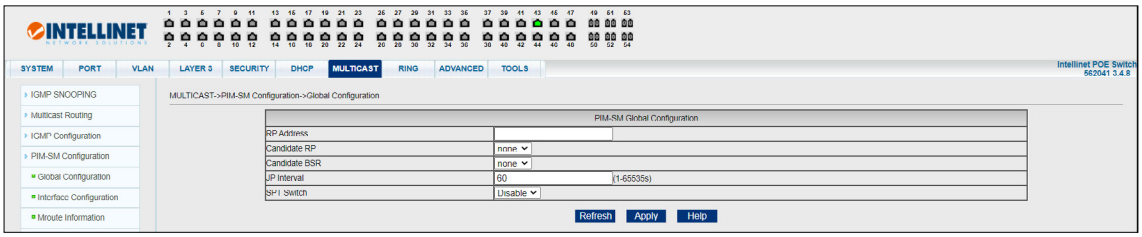


## IGMP GROUP INFORMATION



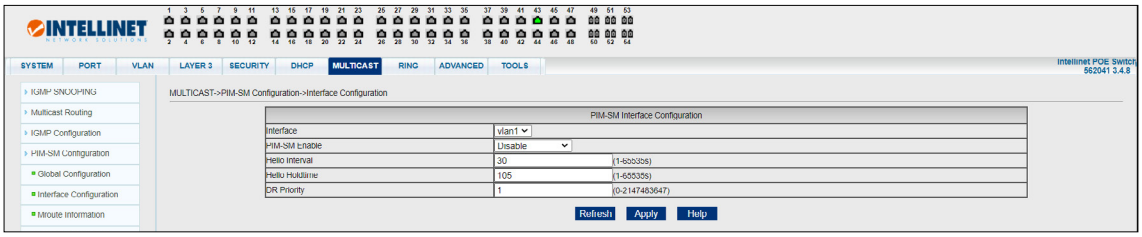

# PIM-SM CONFIGURATION

## GLOBAL CONFIGURATION



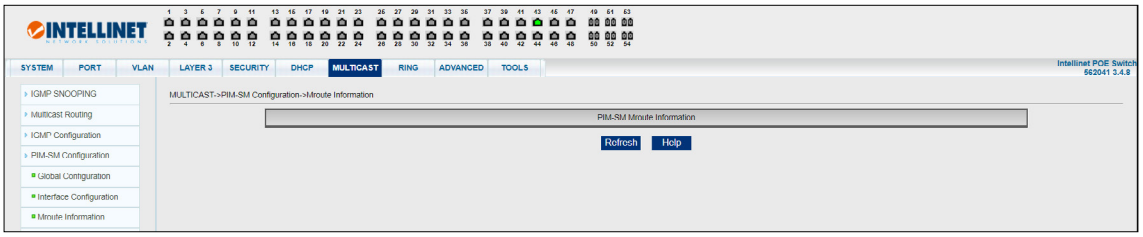

| ITEM | DESCRIPTION |
|---|---|
| RP Address | Configure a static RP address. |
| Candidate RP | Configure the L3 interface of the dynamic candidate RP. If none is selected, the candidate RP will be disabled. |
| Candidate BSR | Configure the L3 interface of the dynamic candidate BSR. If none is selected, the candidate BSR will be disabled. |
| JP Interval | Configure the interval for sending PIM-SM join/prune packets. |
| SPT Switch | Enable or disable the SPT switch. The default SPT switch is disabled and the multicast data packets are forwarded through the shared tree. |

## INTERFACE CONFIGURATION

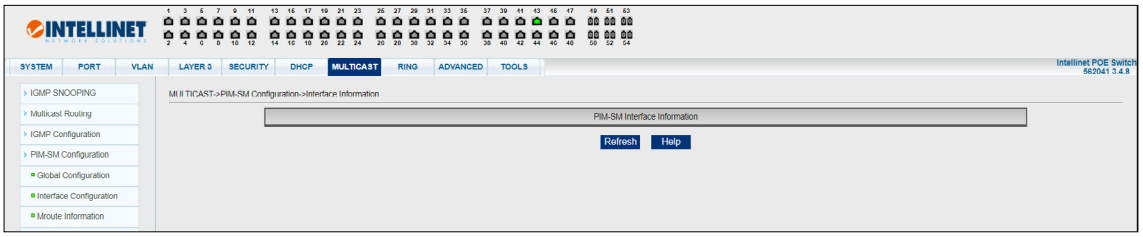



| ITEM | DESCRIPTION |
|---|---|
| Interface | Select an interface to do the following configuration. |
| PIM-SM Enable | Enable or disable the PIM-SM protocol of the selected interface. Before operating the PIM-SM protocol, you need to enable the global multicast routing first. If PIM-SM passive is enabled, the interface only recieves but does not send PIM-SM packets. |
| Hello Interval | Configure the interval at which the interface sends PIM-SM hello packets. |
| Hello Holdtime | Configure the time at which the interface fails to receive the PIM-SM hello packet from the neighbor and the neighbor becomes invalid. |
| DR Priority | Configure the priority of the interface in DR election. The one with the higher priority becomes the DR. If the priority is the same, the one with the higher router ID becomes the DR. |

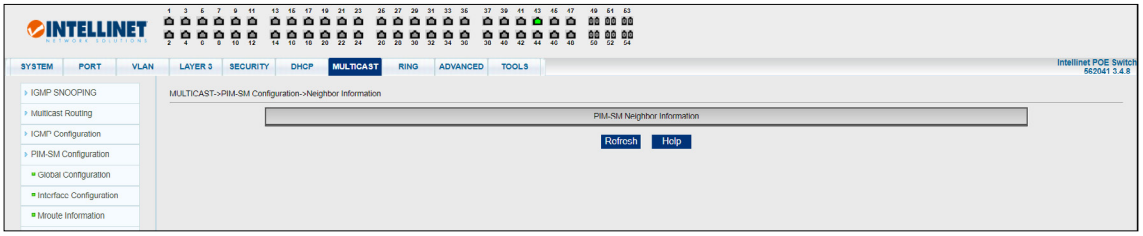
# MULTICAST ROUTE INFORMATION



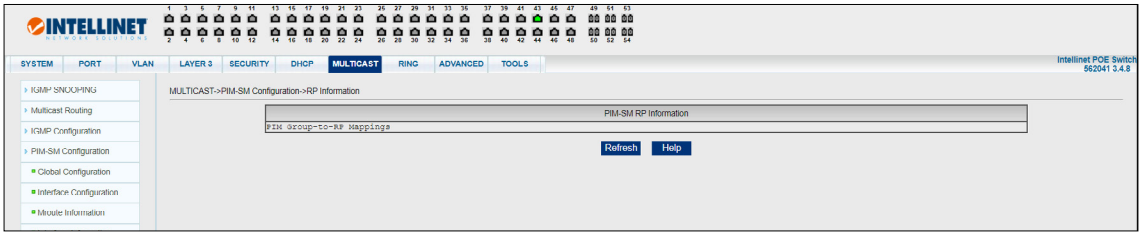

# PIM-SM INTERFACE INFORMATION



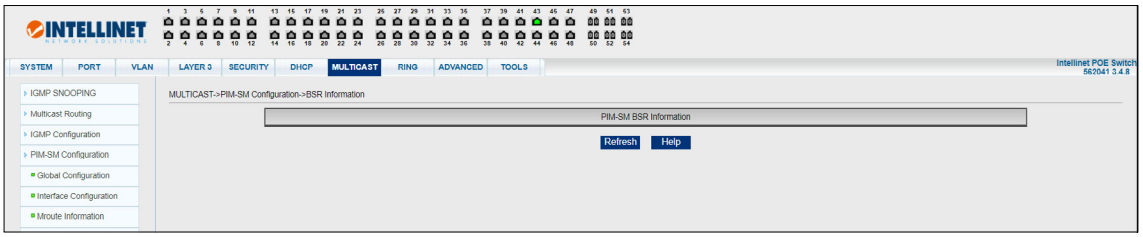

# PIM-SM NEIGHBOR INFORMATION




# PIM-SM RP MAPPING INFORMATION



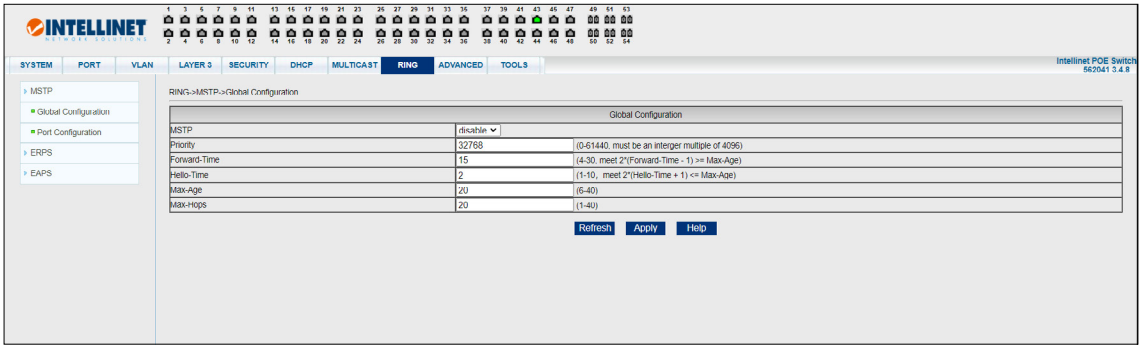

# PIM-SM BSR ROUTER INFORMATION



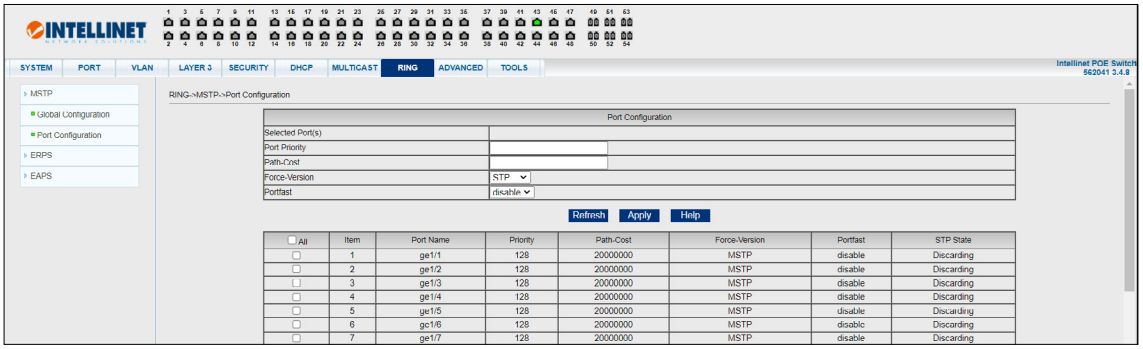
# RING

## SPANNING TREE CONFIGURATION

### SPANNING TREE GLOBAL CONFIGURATION PAGE




### SPANNING TREE PORT CONFIGURATION PAGE

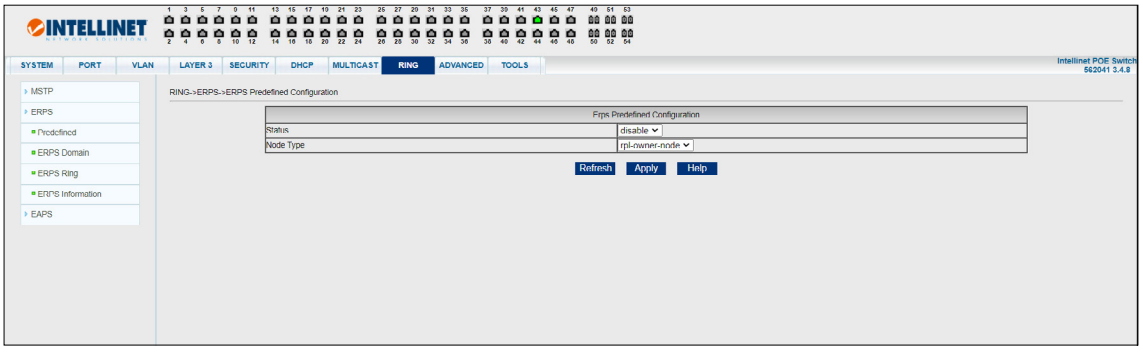



## ERPS CONFIGURATION

### ERPS PREDEFINED CONFIGURATION PAGE

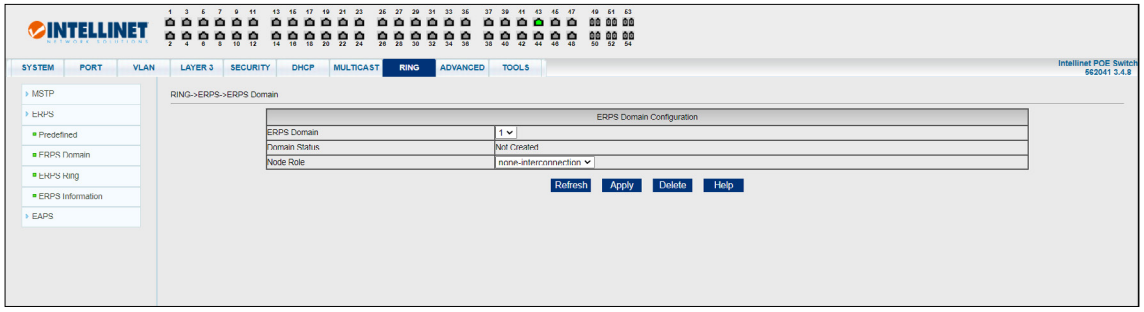
This is the ERPS Predefined Configuration page, which enables the ERPS pre-configuration configuration. When enable the ERPS predefined configuration, can specify the node type: the master node or the transit node.

For example, the ERPS instance number is 1, the ERPS mode is 1, the ring mode is the primary ring mode, the protocol VLAN is VLAN3001, the data VLAN is VLAN1, the rpl port is 51, the rl port is 52, and the recovery behavior is re- coverable, Hold-off time is 0, guard time is 500 milliseconds, wtr time is 5 minutes, wtb time is 5 seconds, protocol message transmission time is 5 seconds.



## ERPS INSTANCE CONFIGURATION PAGE

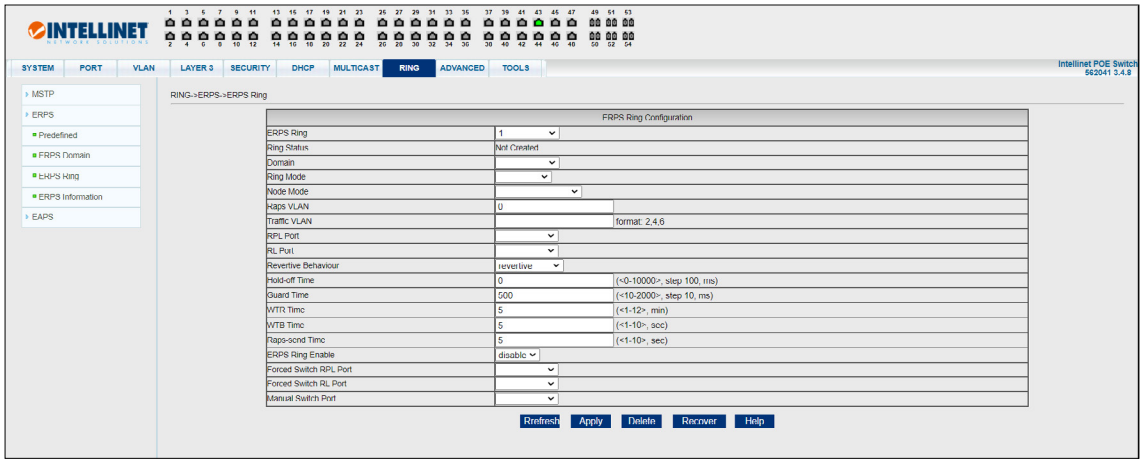
This is the ERPS Instance Configuration page, where you can configure ERPS instances. When an instance is not created, click the Apply button to create and specify a role; if the instance has been created and has no associated ring, the role can be modified; if the instance has been created and the ring is associated, the instance can not be modified. Click the Delete button to delete the selected instance. It can configure up to 8 instances.




## ERPS RING CONFIGURATION PAGE

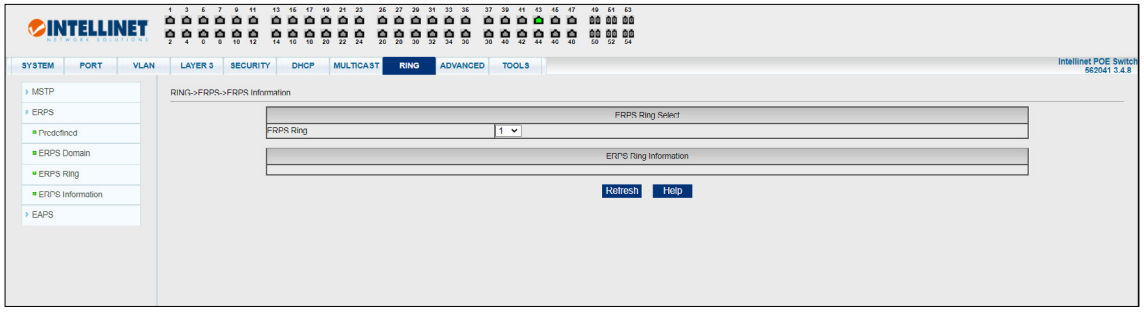
This is the ERPS ring configuration page, through which user can create and configure an ERPS ring.

The ring must and can only be associated with an instance, and up to 32 loops can be configured. When a ring failure is detected, click the Manual Restore button to resume.




## ERPS INFORMATION PAGE

This is the ERPS information page, and the selected ring number displays the configuration and status

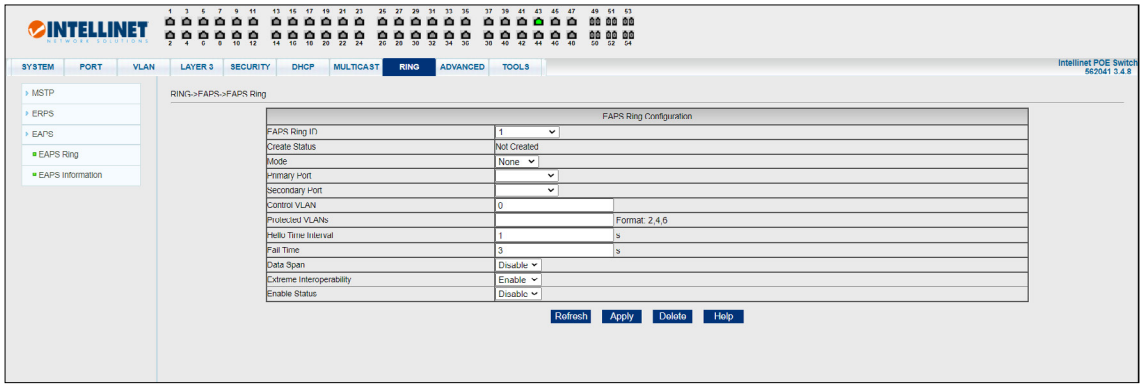


# EAPS CONFIGURATION

## EAPS CONFIGURATION PAGE

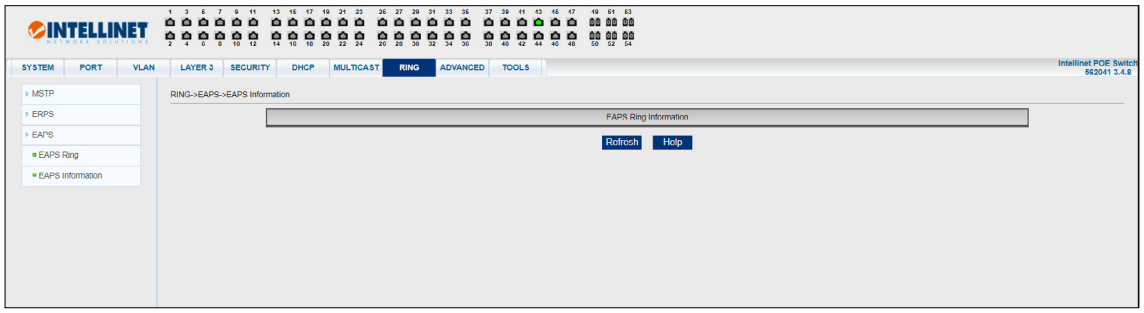
This is an EAPS configuration page, through which you can configure some EAPS related information, including:

- Select an EAPS ring number.
- Configure the operating node mode of an EAPS Domain.
- Configure Primary Port of EAPS Domain.
- Configure Secondary Port of EAPS Domain.
- Configure a control VLAN for EAPS Domain.
- Add one or more protected VLANs of the EAPS Domain.
- Configure an EAPS Domain to periodically send HEALTH packets. Hello-timer must be less than fail-time.
- Set the fail-period timer of one EAPS domain to expire.
- Enable or disable compatibility with Extreme devices.
- Whether to enable




## EAPS INFORMATION PAGE

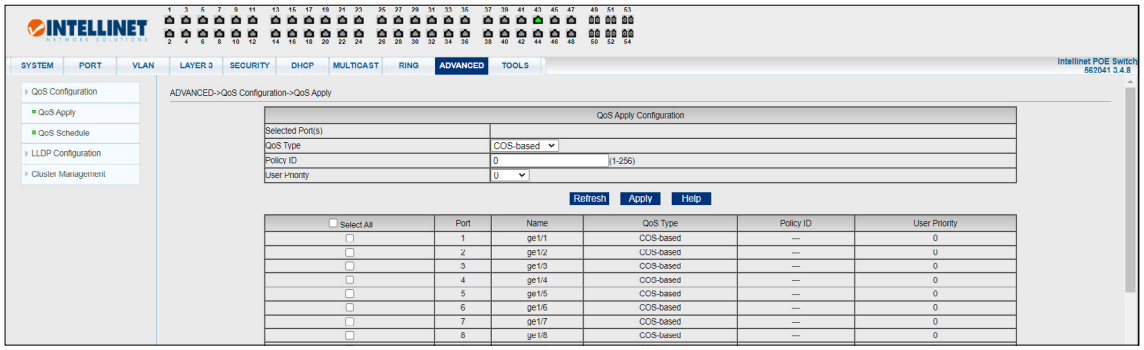
This is an EAPS information page, through which users can view some EAPS related information.



# ADVANCED CONFIGURATION

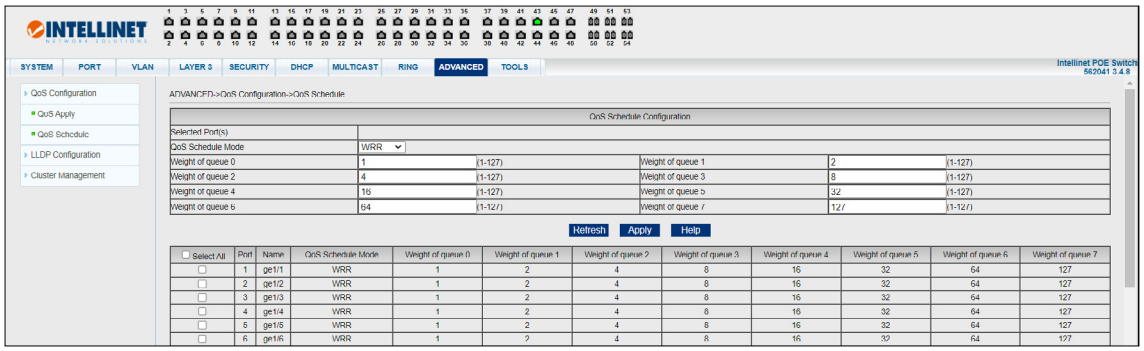
## QOS APPLY CONFIGURATION PAGE

This is a QoS Apply configuration page.




| ITEM | DESCRIPTION |
|---|---|
| Select Port(s) | Select Port(s) from the following list. |
| QoS Type | Three QoS types: COS-based, DSCP-based and Apply-policy. The default value is COS-based. |
| Policy ID | Only valid if the QoS type is Apply-policy. The policy ID must exist before setting |
| User Priority | The user proirity is valid only when the incoming packets are not tagged with VLAN. The default value is 0. |

## QOS SCHEDULE CONFIGURATION PAGE




| ITEM | DESCRIPTION |
|---|---|
| Select Port(s) | Select Port(s) from the following list. |
| QoS Schedule Mode | Four QoS schedule modes: SP, RR, WRR and WDRR. The default value is WRR. |
| Weight of queue 0 | The weight of queue 0 ranges from 1 to 127. The default value is 1. |
| Weight of queue 1 | The weight of queue 1 ranges from 1 to 127. The default value is 2. |
| Weight of queue 2 | The weight of queue 2 ranges from 1 to 127. The default value is 4. |
| Weight of queue 3 | The weight of queue 3 ranges from 1 to 127. The default value is 8. |
| Weight of queue 4 | The weight of queue 4 ranges from 1 to 127. The default value is 16. |
| Weight of queue 5 | The weight of queue 5 ranges from 1 to 127. The default value is 32. |
| Weight of queue 6 | The weight of queue 6 ranges from 1 to 127. The default value is 64. |
| Weight of queue 7 | The weight of queue 7 ranges from 1 to 127. The default value is 127. |

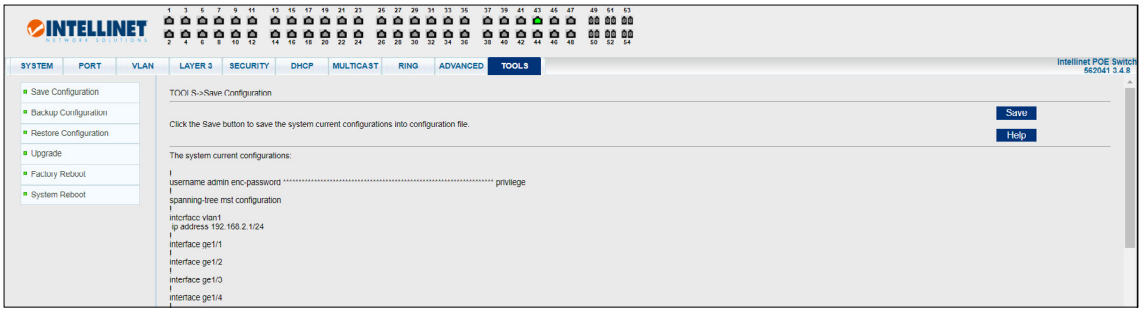
# SYSTEM TOOLS

## SAVE THE CONFIGURATION PAGE

Save button stores the current configuration of the system into the configuration file.

Note: The storage operation needs to erase the FLASH chip, which takes a certain amount of time.

Do not restart the switch directly after saving the configuration, Save and leave this page.

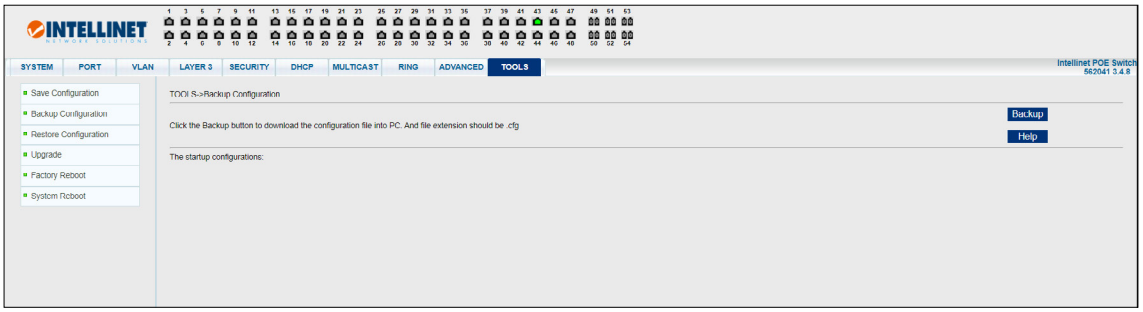



## BACK UP THE CONFIGURATION FILE PAGE

This page allows the user to view the initial configuration of the system.

Clicking the backup button, will pop up a dialog box, the user can then choose the path and name of the configuration file.

The file name of the downloaded configuration file defaults to switch. cfg

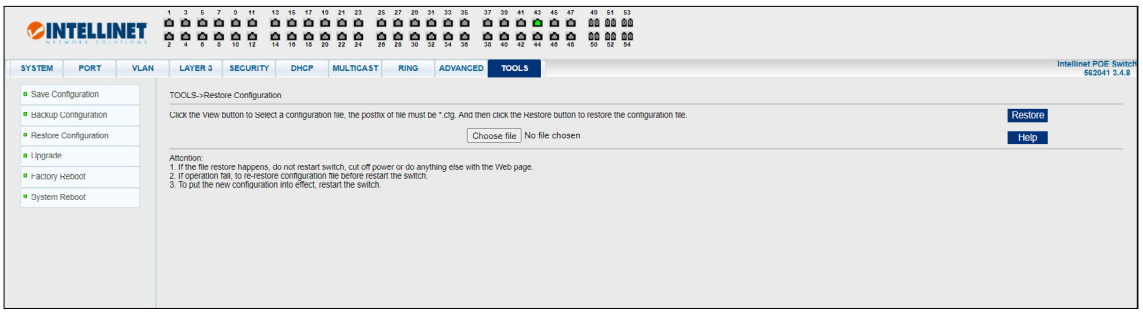



## RESTORE THE CONFIGURATION FILE PAGE

Click the Browse button to select the directory path of the uploaded profile on the PC.

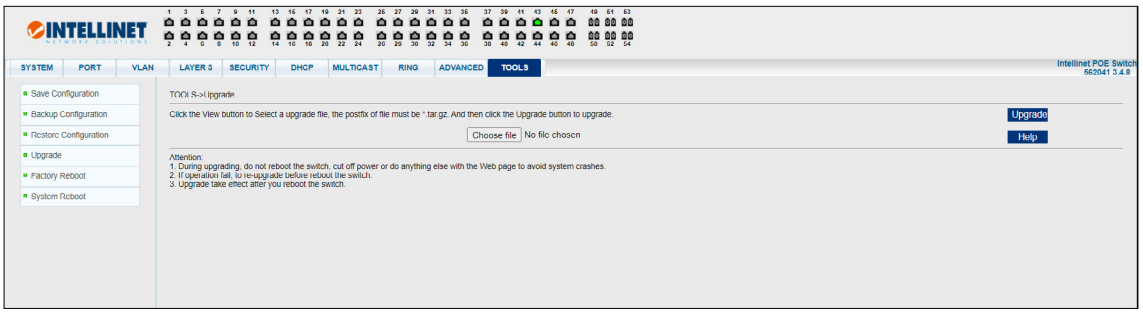
Click the upload button to upload the configuration file. The suffix of the configuration file must be * .cfg.

Do not click on other pages or reboot the switch before the transfer results page returns. Otherwise, the file transfer will cause the system to crash.



# SOFTWARE UPGRADE PAGE

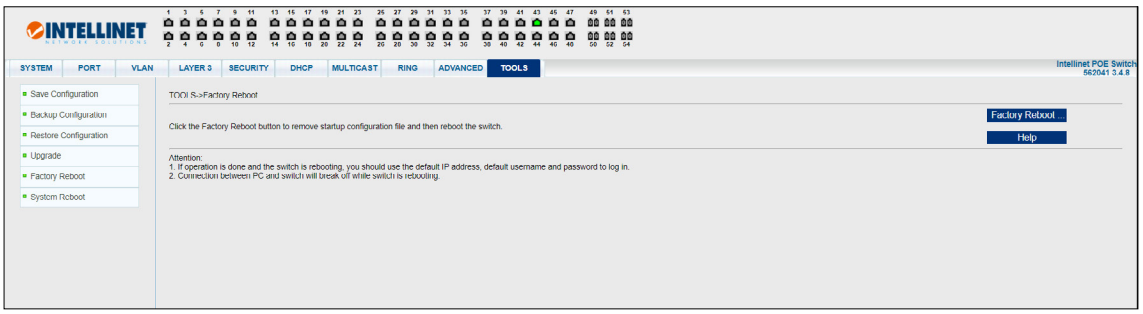
Use the Browse button to select the directory path of the uploaded image file on the PC. Click the Upload button to upload the image file (which must be provided by the Intellinet Technical support) and the file name suffix must be * .img. Do not click on other pages or reboot the switch before the transfer results page returns. Otherwise, the file transfer will cause the system to crash.returns. Otherwise, the file transfer will cause the system to crash.




# RESTORE THE FACTORY CONFIGURATION PAGE

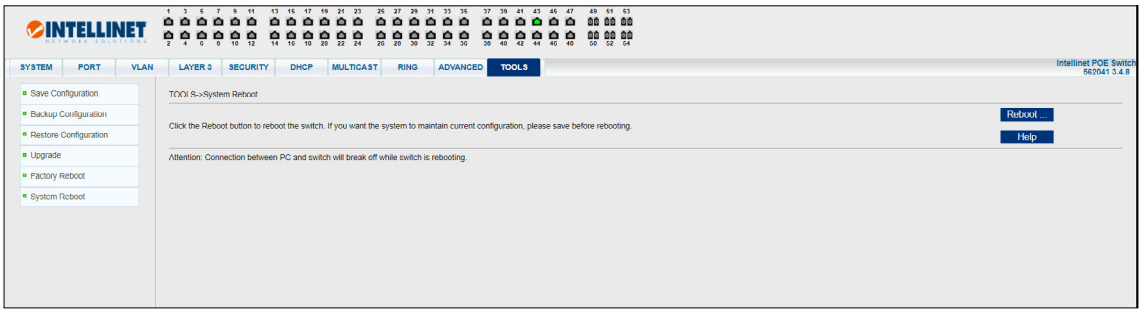
This page allows the user to delete the configuration file in the FLASH to restore to the factory configuration.

Click the Restore Factory Configuration button to bring up a dialog box that prompts the user if it is OK. After the factory configuration is restored, the switch will automatically restart to make the factory configuration take effect. Please use the factory default IP address and password the next time when log in.




# SYSTEM REBOOT

When you click the restart button, a dialog box will pop up prompting if the user is sure to restart the switch or not. If sure, press the OK key. Otherwise, press the Cancel key. The Web page will no longer be opened when it is restarted.



# APPENDIX: TECHNICAL SPECIFICATIONS

| HARDWARE SPECIFICATIONS | | |
|---|---|---|
| Standards and Protocols | | IEEE 802.1p, IEEE 802.1q, IEEE 802.1d, IEEE 802.1w, IEEE 802.1s, IEEE 802.3ad, IEEE 802.3ae, IEEE 802.3z, IEEE 802.3, IEEE 802.3ab, IEEE 802.3ad, IEEE 802.3af, IEEE 802.3at, IEEE 802.3u, IEEE 802.3x |
| Network Media | | 10Base-T: UTP/STP category 5e cable (maximum 100 m)<br>100Base-Tx: UTP/STP category 5e cable (maximum 100 m)<br>1000Base-T: UTP/STP category 5e cable (maximum 100 m) |
| Transfer Method | | Store-and-Forward |
| Switching Capacity | | 216 Gbps |
| Packet Forwarding | | 106.7 Mpps |
| Packet Buffer | | 16 Mbit |
| MAC Address Table | | 32K, Auto-learning, Auto-update |
| Jumbo Frame | | 12K Bytes |
| Number of Ports | | 48 x 10/100/1000 Mbps RJ45 Ethernet Ports |
| PoE Ports (SFP+) | | 6 x 10Gbps SFP+ Ethernet Ports |
| Power Pin Assignment | | 1/2 (-), 3/6 (+) |
| PoE Budget | | 400 W / 850 W |
| Indicators | Per Port | Link/Act (Green), PoE (Orange), SFP (Green) |
| | Per Device | Power (Green), SYS (Orange) |
| Power Supply | | AC 100 – 240 V / 50 – 60 Hz internal power |
| Power Consumption | | Maximum: 50 W (220 V / 50 Hz) |
| Dimensions ( W x D x H ) | | 400 x 350 x 44 mm (15.75 x 13.78 x 1.73 in.) |
| Environment | | Operating Temperature: 0 – 40°C (32 – 104°F)<br>Storage Temperature: -10 – 70°C (14 – 158°F)<br>Operating Humidity: 5 – 95% non-condensing |

| SOFTWARE SPECIFICATIONS | | | |
|---|---|---|---|
| **L2 Function** | **L3 Function** | **Security Policy** | **VLAN** |
| • Ethernet Set<br>• STP/RSTP/MSTP<br>• Storm-suppression<br>• Port mirror<br>• Port rate limit<br>• MAC filter<br>• Link Aggregation (static, Lacp)<br>• Jumbo Frame | • IP interface<br>• ARP proxy<br>• L3 forwarding<br>• Ping<br>• OSPF, RIP<br>• IPv4, IPv6 static route<br>• IP Routing | • Count<br>• ACL<br>• QoS<br>• Flow-control | • Port based VLAN<br>• 802.1Q VLAN<br>• GVRP<br>• Based MAC/protocol/IP subnet/policy VLAN<br>• VLAN-translation |
| **Security** | **Application Protocol** | **Management** | **Other** |
| • Radius<br>• Tacacs+<br>• Dos-attack<br>• dot1x<br>• Arp-attack<br>• Port-security | • DHCP Relay<br>• DHCP snooping<br>• DHCP Client/Server<br>• FTP/TFTP | • WEB<br>• Telnet<br>• SSH<br>• Console | • LLDP<br>• IGMP Snooping<br>• MLD Snooping<br>• Support IPMC<br>• IGMP, PIM<br>• SNMPV1, V2c, V3<br>• RMON (1, 2, 3, 9) |

## WASTE ELECTRICAL & ELECTRONIC EQUIPMENT

DISPOSAL OF ELECTRIC AND ELECTRONIC EQUIPMENT

(Applicable In The European Union And Other European Countries With Separate Collection Systems)

**ENGLISH:** This symbol on the product or its packaging means that this product must not be treated as unsorted household waste. In accordance with EU Directive 2012/19/EU on Waste Electrical and Electronic Equipment (WEEE), this electrical product must be disposed of in accordance with the user's local regulations for electrical or electronic waste. Please dispose of this product by returning it to your local point of sale or recycling pickup point in your municipality.

**DEUTSCH:** Dieses auf dem Produkt oder der Verpackung angebrachte Symbol zeigt an, dass dieses Produkt nicht mit dem Hausmüll entsorgtwerden darf. In Übereinstimmung mit der Richtlinie 2012/19/EU des Europäischen Parlaments und des Rates über Elektro- und Elektronik-Altgeräte (WEEE) darf dieses Elektrogerät nicht im normalen Hausmüll oder dem Gelben Sack entsorgt werden. Wenn Sie dieses Produkt entsorgen möchten, bringen Sie es bitte zur Verkaufsstelle zurück oder zum Recycling-Sammelpunkt Ihrer Gemeinde.

**ESPAÑOL:** Este símbolo en el producto o su embalaje indica que el producto no debe tratarse como residuo doméstico. De conformidad con la Directiva 2012/19/EU de la UE sobre residuos de aparatos eléctricos y electrónicos (RAEE), este producto eléctrico no puede desecharse se con el resto de residuos no clasificados. Deshágase de este producto devolviéndolo a su punto de venta o a un punto de recolección municipal para su reciclaje.

**FRANÇAIS:** Ce symbole sur le produit ou son emballage signifie que ce produit ne doit pas être traité comme un déchet ménager. Conformément à la Directive 2012/19/EU sur les déchets d'équipements électriques et électroniques (DEEE), ce produit électrique ne doit en aucun cas être mis au rebut sous forme de déchet municipal non trié. Veuillez vous débarrasser de ce produit en le renvoyant à son point de vente ou au point de ramassage local dans votre municipalité, à des fins de recyclage.

**ITALIANO:** Questo simbolo sui prodotto o sulla relativa confezione indica che il prodotto non va trattato come un rifiuto domestico. In ottemperanza alla Direttiva UE 2012/19/EU sui rifiuti di apparecchiature elettriche ed elettroniche (RAEE), questa prodotto elettrico non deve essere smaltito come rifiuto municipale misto. Si prega di smaltire il prodotto riportandolo al punto vendita o al punto di raccolta municipale locale per un opportuno riciclaggio.

**POLSKI:** Jeśli na produkcie lub jego opakowaniu umieszczono ten symbol, wówczas w czasie utylizacji nie wolno wyrzucać tego produktu wraz z odpadami komunalnymi. Zgodnie z Dyrektywą Nr 2012/19/EU w sprawie zużytego sprzętu elektrycznego i elektronicznego (WEEE), niniejszego produktu elektrycznego nie wolno usuwać jako nie posortowanego odpadu komunalnego. Prosimy o usuniecie niniejszego produktu poprzez jego zwrot do punktu zakupu lub oddanie do miejscowego komunalnego punktu zbiórki odpadów przeznaczonych do recyklingu.

## WARRANTY INFORMATION • GARANTIEINFORMATIONEN • GARANTÍA • GARANTIE • GWARANCJI • GARANZIA

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**EN MÉXICO:** Póliza de Garantía Intellinet Network Solutions — Datos del importador y responsable ante el consumidor IC Intracom México, S.A.P.I. de C.V. • Av. Interceptor Poniente # 73, Col. Parque Industrial La Joya, Cuautitlán Izcalli, Estado de México, C.P. 54730, México. • Tel. (55)1500-4500

La presente garantía cubre los siguientes productos contra cualquier defecto de fabricación en sus materiales y mano de obra.

A. Garantizamos los productos de limpieza, aire comprimido y consumibles, por 60 dias a partir de la fecha de entrega, o por el tiempo en que se agote totalmente su contenido por su propia función de uso, lo que suceda primero.

B. Garantizamos los productos con partes móviles por 3 años.

C. Garantizamos los demás productos por 5 años (productos sin partes móviles), bajo las siguientes condiciones:

1. Todos los productos a que se refiere esta garantía, ampara su cambio físico, sin ningún cargo para el consumidor.
2. El comercializador no tiene talleres de servicio, debido a que los productos que se garantizan no cuentan con reparaciones, ni refacciones, ya que su garantía es de cambio físico.
3. La garantía cubre exclusivamente aquellas partes, equipos o sub-ensambles que hayan sido instaladas de fábrica y no incluye en ningún caso el equipo adicional o cualesquiera que hayan sido adicionados al mismo por el usuario o distribuidor.

Para hacer efectiva esta garantía bastará con presentar el producto al distribuidor en el domicilio donde fue adquirido o en el domicilio de IC Intracom México, S.A.P.I. de C.V., junto con los accesorios contenidos en su empaque, acompañado de su póliza debidamente llenada y sellada por la casa vendedora (indispensable el sello y fecha de compra) donde lo adquirió, o bien, la factura o ticket de compra original donde se mencione claramente el modelo, número de serie (cuando aplique) y fecha de adquisición. Esta garantía no es válida en los siguientes casos: Si el producto se hubiese utilizado en condiciones distintas a las normales; si el producto no ha sido operado conforme a los instructivos de uso; o si el producto ha sido alterado o tratado de ser reparado por el consumidor o terceras personas.

## REGULATORY STATEMENTS

FCC Class A

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of Federal Communications Commission (FCC) Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: reorient or relocate the receiving antenna; increase the separation between the equipment and the receiver; connect the equipment to an outlet on a circuit different from the receiver; or consult the dealer or an experienced radio/TV technician for help.

CE

**ENGLISH:** This device complies with the requirements of CE 2014/30/EU and/or 2014/35/EU. The Declaration of Conformity for is available at:
**DEUTSCH:** Dieses Gerät enspricht der CE 2014/30/EU und / oder 2014/35/EU. Die Konformitätserklärung für dieses Produkt finden Sie unter:
**ESPAÑOL:** Este dispositivo cumple con los requerimientos de CE 2014/30/EU y / o 2014/35/EU. La declaración de conformidad esta disponible en:
**FRANÇAIS:** Cet appareil satisfait aux exigences de CE 2014/30/EU et / ou 2014/35/EU. La Déclaration de Conformité est disponible à:
**POLSKI:** Urządzenie spełnia wymagania CE 2014/30/EU I / lub 2014/35/EU. Deklaracja zgodności dostępna jest na stronie internetowej producenta:
**ITALIANO:** Questo dispositivo è conforme alla CE 2014/30/EU e / o 2014/35/EU. La dichiarazione di conformità è disponibile al:

**support.intellinet-network.com/barcode/562041**


| North America | Asia & Africa | Europe |
|---|---|---|
| IC Intracom America | IC Intracom Asia | IC Intracom Europe |
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