

3.14.6 Port DSCP

This section shows how to configure the QoS Port DSCP settings for all switch ports.

Web Interface

To configure the QoS Port DSCP parameters in the web interface:

1. Click Configuration, QoS, Port DSCP
2. Activate to enable or disable the Ingress Translate and Scroll the Classify Parameter configuration
3. Select Egress Rewrite parameters
4. Click Apply to save the setting
5. If you want to cancel the setting then you need to click the Reset button.

It will revert to previously saved values

Figure 3-14.6: The QoS Port DSCP Configuration (GS-2310P)

Port	Ingress		Egress
	Translate	Classify	Rewrite
*	<input type="checkbox"/>	<>	<>
1	<input type="checkbox"/>	Disable	Disable
2	<input type="checkbox"/>	Disable	Disable
3	<input type="checkbox"/>	Disable	Disable
4	<input type="checkbox"/>	Disable	Disable
5	<input type="checkbox"/>	Disable	Disable
6	<input type="checkbox"/>	Disable	Disable
7	<input type="checkbox"/>	Disable	Disable
8	<input type="checkbox"/>	Disable	Disable
9A	<input type="checkbox"/>	Disable	Disable
10A	<input type="checkbox"/>	Disable	Disable
9B	<input type="checkbox"/>	Disable	Disable
10B	<input type="checkbox"/>	Disable	Disable

Apply Reset

Parameter description:

Port:

The Port column shows the list of ports for which you can configure dscp ingress and egress settings.

Ingress:

In Ingress settings you can change ingress translation and classification settings for individual ports.

There are two configuration parameters available in Ingress:

Translate: To Enable the Ingress Translation click the checkbox

Classify: Classification for a port have 4 different values

Disable: No Ingress DSCP Classification.

DSCP=0: Classify if incoming (or translated if enabled) DSCP is 0.

Selected: Classify only selected DSCP for which classification is enabled as specified in DSCP Translation window for the specific DSCP.

All: Classify all DSCP.

Egress:

3 Configuration

Port Egress Rewriting can be one of below parameters

Disable: No Egress rewrite.

Enable: Rewrite enable without remapped.

Remap: DSCP from analyzer is remapped and frame is remarked with remapped DSCP value.

Buttons:

Save – Click to save changes.

Reset – Click to undo any changes made locally and revert to previously saved values.

3.14.7 DSCP-Based QoS

This section shows how to configure the DSCP-Based QoS mode.

Web Interface

To configure the DSCP –Based QoS Ingress Classification parameters in the web interface:

1. Click Configuration, QoS, DSCP-Based QoS
2. Activate to enable or disable the DSCP for Trust
3. Select QoS Class and DPL parameters
4. Click Apply to save the setting
5. If you want to cancel the setting then you need to click the Reset button. It will revert to previously saved values

Figure 3-14.7: The DSCP-Based QoS Ingress Classification Configuration

DSCP	Trust	QoS Class	DPL
*	<input type="checkbox"/>	<> ▾	<> ▾
0 (BE)	<input type="checkbox"/>	0 ▾	0 ▾
1	<input type="checkbox"/>	0 ▾	0 ▾
2	<input type="checkbox"/>	0 ▾	0 ▾
3	<input type="checkbox"/>	0 ▾	0 ▾
4	<input type="checkbox"/>	0 ▾	0 ▾
5	<input type="checkbox"/>	0 ▾	0 ▾
6	<input type="checkbox"/>	0 ▾	0 ▾
7	<input type="checkbox"/>	0 ▾	0 ▾
8 (CS1)	<input type="checkbox"/>	0 ▾	0 ▾
9	<input type="checkbox"/>	0 ▾	0 ▾
10 (AF11)	<input type="checkbox"/>	0 ▾	0 ▾
11	<input type="checkbox"/>	0 ▾	0 ▾
12 (AF12)	<input type="checkbox"/>	0 ▾	0 ▾
13	<input type="checkbox"/>	0 ▾	0 ▾
14 (AF13)	<input type="checkbox"/>	0 ▾	0 ▾
15	<input type="checkbox"/>	0 ▾	0 ▾
16 (CS2)	<input type="checkbox"/>	0 ▾	0 ▾
17	<input type="checkbox"/>	0 ▾	0 ▾
18 (AF21)	<input type="checkbox"/>	0 ▾	0 ▾

59	<input checked="" type="checkbox"/>	0	0
60	<input checked="" type="checkbox"/>	0	0
61	<input checked="" type="checkbox"/>	0	0
62	<input checked="" type="checkbox"/>	0	0
63	<input checked="" type="checkbox"/>	0	0

Save Reset

Parameter description:

DSCP:

Maximum number of supported DSCP values are 64.

Trust:

Click to check if the DSCP value is trusted.

QoS Class:

QoS Class value can be any of (0-7)

DPL:

Drop Precedence Level (0-3)

Buttons:

Save – Click to save changes.

Reset – Click to undo any changes made locally and revert to previously saved values.

3.14.8 DSCP Translation

The section describes how to configure the basic QoS DSCP Translation settings for all switches. DSCP translation can be done in Ingress or Egress.

Web Interface

To configure the DSCP Translation parameters in the web interface:

1. Click Configuration, QoS, DSCP Translation
2. Set the Ingress Translate and Egress Remap DP0 and Remap DP1 Parameters
3. Activate to enable or disable Classify
4. Click Apply to save the setting
5. If you want to cancel the setting then you need to click the Reset button. It will revert to previously saved values

Figure 3-14.8: The DSCP Translation Configuration

3 Configuration

DSCP Translation

DSCP	Ingress		Egress	
	Translate	Classify	Remap DP0	Remap DP1
*	<>	<input type="checkbox"/>	<>	<>
0 (BE)	0 (BE)	<input type="checkbox"/>	0 (BE)	0 (BE)
1	1	<input type="checkbox"/>	1	1
2	2	<input type="checkbox"/>	2	2
3	3	<input type="checkbox"/>	3	3
4	4	<input type="checkbox"/>	4	4
5	5	<input type="checkbox"/>	5	5
6	6	<input type="checkbox"/>	6	6
7	7	<input type="checkbox"/>	7	7
8 (CS1)	8 (CS1)	<input type="checkbox"/>	8 (CS1)	8 (CS1)
9	9	<input type="checkbox"/>	9	9
10 (AF11)	10 (AF11)	<input type="checkbox"/>	10 (AF11)	10 (AF11)
11	11	<input type="checkbox"/>	11	11
12 (AF12)	12 (AF12)	<input type="checkbox"/>	12 (AF12)	12 (AF12)
13	13	<input type="checkbox"/>	13	13
14 (AF13)	14 (AF13)	<input type="checkbox"/>	14 (AF13)	14 (AF13)
15	15	<input type="checkbox"/>	15	15
16 (CS2)	16 (CS2)	<input type="checkbox"/>	16 (CS2)	16 (CS2)
17	17	<input type="checkbox"/>	17	17
49	49	<input type="checkbox"/>	49	49
50	50	<input type="checkbox"/>	50	50
51	51	<input type="checkbox"/>	51	51
52	52	<input type="checkbox"/>	52	52
53	53	<input type="checkbox"/>	53	53
54	54	<input type="checkbox"/>	54	54
55	55	<input type="checkbox"/>	55	55
56 (CS7)	56 (CS7)	<input type="checkbox"/>	56 (CS7)	56 (CS7)
57	57	<input type="checkbox"/>	57	57
58	58	<input type="checkbox"/>	58	58
59	59	<input type="checkbox"/>	59	59
60	60	<input type="checkbox"/>	60	60
61	61	<input type="checkbox"/>	61	61
62	62	<input type="checkbox"/>	62	62
63	63	<input type="checkbox"/>	63	63

Save Reset

Parameter description:

DSCP:

Maximum number of supported DSCP values are 64 and valid DSCP value ranges from 0 to 63.

Ingress:

Ingress side DSCP can be first translated to new DSCP before using the DSCP for QoS class and DPL map.

There are two configuration parameters for DSCP Translation –

Translate: DSCP at Ingress side can be translated to any of (0-63) DSCP values.

Classify: Click to enable Classification at Ingress side.

Egress:

There are following configurable parameters for Egress side –

Remap DP0: Select the DSCP value from select menu to which you want to remap. DSCP value ranges form 0 to 63

Remap DP1: Select the DSCP value from select menu to which you want to remap. DSCP value ranges form 0 to 63.

There is following configurable parameter for Egress side -

Remap: Select the DSCP value from select menu to which you want to remap. DSCP value ranges form 0 to 63.

Buttons:

Save – Click to save changes.

Reset – Click to undo any changes made locally and revert to previously saved values.

3.14.9 DSCP Classification

The section describes how to configure and map DSCP value to a QoS Class and DPL value.

Web Interface

To configure the DSCP Classification parameters in the web interface:

1. Click Configuration, QoS, DSCP Translation
2. Set the DSCP Parameters
3. Click Apply to save the setting
4. If you want to cancel the setting then you need to click the Reset button. It will revert to previously saved values

Figure 3-14.9: The DSCP Classification Configuration

QoS Class	DPL	DSCP
*	*	<>
0	0	0 (BE)
0	1	0 (BE)
1	0	0 (BE)
1	1	0 (BE)
2	0	0 (BE)
2	1	0 (BE)
3	0	0 (BE)
3	1	0 (BE)
4	0	0 (BE)
4	1	0 (BE)
5	0	0 (BE)
5	1	0 (BE)
6	0	0 (BE)
6	1	0 (BE)
7	0	0 (BE)
7	1	0 (BE)

Save Reset

Parameter description:

QoS Class:

Available QoS Class value ranges from 0 to 7. QoS Class (0-7) can be mapped to followed parameters.

DPL:

Drop Precedence Level (0-1) can be configured for all available QoS Classes.

DSCP:

Select DSCP value (0-63) from DSCP menu to map DSCP to corresponding QoS Class

3 Configuration

and DPL value

Buttons:

Save – Click to save changes.

Reset – Click to undo any changes made locally and revert to previously saved values.

3.14.10 QoS Control List Configuration

The section shows the QoS Control List(QCL), which is made up of the QCEs. Each row describes a QCE that is defined. The maximum number of QCEs is 256 on each switch. Click on the lowest plus sign to add a new QCE to the list.

Web Interface

To configure the QoS Control List parameters in the web interface:


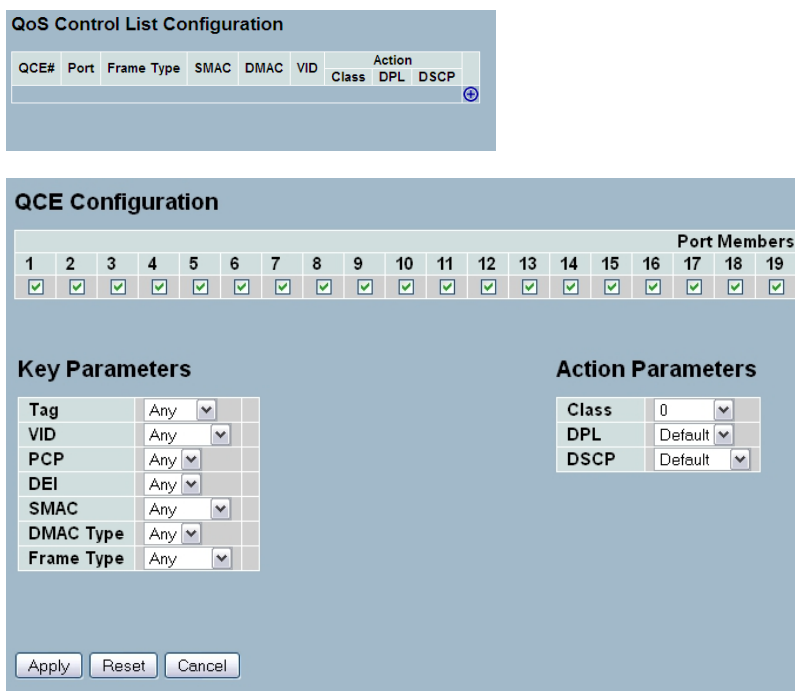
1. Click Configuration, QoS, QoS Control List
2. Click the  to add a new QoS Control List
3. Select the parameters and activate the Port Member to join the QCE rules
4. Click Apply to save the setting
5. If you want to cancel the setting then you need to click the Reset button. It will revert to previously saved values

Figure 3-14.10: The QoS Control List Configuration



Parameter description:

QCE#:

Indicates the index of QCE.

Port:

Indicates the list of ports configured with the QCE.

Frame Type:

Indicates the type of frame to look for incoming frames. Possible frame types are:

Any: The QCE will match all frame type.

Ethernet: Only Ethernet frames (with Ether Type 0x600-0xFFFF) are allowed.

LLC: Only (LLC) frames are allowed.

SNAP: Only (SNAP) frames are allowed

IPv4: The QCE will match only IPV4 frames.

IPv6: The QCE will match only IPV6 frames.

SMAC:

Displays the OUI field of Source MAC address, i.e. first three octet (byte) of MAC address.

DMAC:

Specify the type of Destination MAC addresses for incoming frame. Possible values are:

Any: All types of Destination MAC addresses are allowed.

Unicast: Only Unicast MAC addresses are allowed.

Multicast: Only Multicast MAC addresses are allowed.

Broadcast: Only Broadcast MAC addresses are allowed.

The default value is 'Any'.

VID:

Indicates (VLAN ID), either a specific VID or range of VIDs. VID can be in the range 1-4094 or 'Any'

Conflict:

Displays QCE status. It may happen that resources required to add a QCE may not available, in that case it shows conflict status as 'Yes', otherwise it is always 'No'. Please note that conflict can be resolved by releasing the resource required by the QCE and pressing 'Refresh' button.

Action:

Indicates the classification action taken on ingress frame if parameters configured are matched with the frame's content.

There are three action fields: Class, DPL and DSCP.


Class: Classified QoS Class; if a frame matches the QCE it will be put in the queue.


DPL: Drop Precedence Level; if a frame matches the QCE then DP level will set to value displayed under DPL column.


DSCP: If a frame matches the QCE then DSCP will be classified with the value displayed under DSCP column.

Modification Buttons:

You can modify each QCE (QoS Control Entry) in the table using the following buttons:

 Inserts a new QCE before the current row.

 Edits the QCE.

 Moves the QCE up the list.

 Moves the QCE down the list.

 Deletes the QCE.

 The lowest plus sign adds a new entry at the bottom of the QCE listings.

Port Members:

Check the checkbox button to include the port as member in the QCL entry. By default all ports will be checked

Key Parameters:

3 Configuration

Key configuration are described as below:

Tag Value of Tag field can be 'Any', 'Untag' or 'Tag'

VID Valid value of VLAN ID can be any value in the range 1-4094 or 'Any'; user can enter either a specific value or a range of VIDs

PCP Priority Code Point: Valid value PCP are specific(0, 1, 2, 3, 4, 5, 6, 7) or range(0-1, 2-3, 4-5, 6-7, 0-3, 4-7) or 'Any'

DEI Drop Eligible Indicator: Valid value of DEI can be any of values between 0, 1 or 'Any'

SMAC Source MAC address: 24 MS bits (OUI) or 'Any'

DMAC Type Destination MAC type: possible values are unicast(UC), multicast(MC), broadcast(BC) or 'Any'

Frame Type Frame Type can have any of the following values

Any

Ethernet

LLC

SNAP

IPv4

IPv6



All frame types are explained below:

1. Any: Allow all types of frames.

2. Ethernet: Ethernet Type Valid Ethernet type can have values within 0x600-0xFFFF or 'Any', default value is 'Any'.

3. LLC: SSAP Address Valid SSAP (Source Service Access Point) can vary from 0x00 to 0xFF or 'Any', the default value is 'Any' DSAP Address Valid DSAP(Destination Service Access Point) can vary from 0x00 to 0xFF or 'Any', the default value is 'Any' Control Address Valid Control Address can vary from 0x00 to 0xFF or 'Any', the default value is 'Any'

4. SNAP: PID Valid PID (a.k.a Ethernet type) can have a value within 0x00-0xFFFF or 'Any', default value is 'Any'

5. IPv4: Protocol IP protocol number: (0-255, TCP or UDP) or 'Any' Source IP Specific Source IP address in value/mask format or 'Any'. IP and Mask are in the format x.y.z.w where x, y, z, and w are decimal numbers between 0 and 255. When Mask is converted to a 32-bit binary string and read from left to right, all bits following the first zero must also be zero DSCP Diffserv Code Point value(DSCP): It can be specific value, range of value or 'Any'. DSCP values are in the range 0-63 including BE, CS1-CS7, EF or AF11-AF43

IP Fragment IPv4 frame fragmented option: yes|no|any

Sport Source TCP/UDP port:(0-65535) or 'Any', specific or port range applicable for IP protocol UDP/TCP

Dport Destination TCP/UDP port:(0-65535) or 'Any', specific or port range applicable for IP protocol UDP/TCP

6. IPv6: Protocol IP protocol number: (0-255, TCP or UDP) or 'Any' Source IP IPv6 source address: (a.b.c.d) or 'Any', 32 LS bits

DSCP Diffserv Code Point value(DSCP): It can be specific value, range of value or 'Any'. DSCP values are in the range 0-63 including BE, CS1-CS7, EF or AF11-AF43

Sport Source TCP/UDP port:(0-65535) or 'Any', specific or port range applicable for IP protocol UDP/TCP

Dport Destination TCP/UDP port:(0-65535) or 'Any', specific or port range applicable for IP protocol UDP/TCP

Action Configuration:

Class QoS Class: "class (0-7)", default- basic classification

DP Valid DP Level can be (0-3)", default- basic classification

DSCP Valid dscp value can be (0-63, BE, CS1-CS7, EF or AF11-AF43)

Buttons:

Save – Click to save changes.

Reset – Click to undo any changes made locally and revert to previously saved values.

3.14.11 QCL Status

The section shows how to configure and display the QCL status

Each row describes the QCE that is defined. It is a conflict if a specific QCE is not applied to the hardware due to hardware limitations. The maximum number of QCEs is 256 on each switch.

Web Interface

To display the QoS Control List Status in the web interface:

1. Click Configuration, QoS, QCL Status
2. If you want to auto-refresh the information then you need to activate "Auto-refresh".
3. Select the combined, static, Voice VLAN and conflict.
4. Click the " Refresh" to refresh a entry of the MVR Statistics Information.

Figure 3-14.11: The QoS Control List Status

User	QCE#	Frame Type	Port	Action			Conflict
				Class	DP	DSCP	
Static	2	Any	2-4.7.8.10A-10B	Class 2	Default	Default	No
Static	1	Any	5-10B	Class 0	Default	Default	No

Parameter description:

User:

Indicates the QCL user.

QCE#

Indicates the index of QCE.

Frame Type:

Indicates the type of frame to look for incoming frames. Possible frame types are:

Any: The QCE will match all frame type.

Ethernet: Only Ethernet frames (with Ether Type 0x600-0xFFFF) are allowed.

LLC: Only (LLC) frames are allowed

LLC: Only (SNAP) frames are allowed.

IPv4: The QCE will match only IPV4 frames.

IPv6: The QCE will match only IPV6 frames.

Port:

Indicates the list of ports configured with the QCE.

Action:

3 Configuration

Indicates the classification action taken on ingress frame if parameters configured are matched with the frame's content.

There are three action fields: Class, DPL and DSCP.

Class: Classified QoS Class; if a frame matches the QCE it will be put in the queue.

DPL: Drop Precedence Level; if a frame matches the QCE then DP level will set to value displayed under DPL column.

DSCP: If a frame matches the QCE then DSCP will be classified with the value displayed under DSCP column.

Conflict:

Displays QCE status. It may happen that resources required to add a QCE may not available, in that case it shows conflict status as 'Yes', otherwise it is always 'No'. Please note that conflict can be resolved by releasing the resource required by the QCE and pressing 'Refresh' button.

Auto-refresh:

Activate the auto-refresh to refresh the information automatically.

Resolve Conflict:

Click it to resolve the conflict issue.

Refresh:

Refresh the QCL information manually.

3.14.12 Storm Control

The section shows how to configure the Storm control of the switch. There is a unicast storm rate control, multicast storm rate control, and a broadcast storm rate control. These only affect flooded frames, i.e. frames with a (VLAN ID, DMAC) pair not present on the MAC Address table. The configuration indicates the permitted packet rate for unicast, multicast or broadcast traffic across the switch

Web Interface

To configure the Storm Control Configuration parameters in the web interface:

1. Click Configuration, QoS, Storm Control Configuration
2. Activate to select the frame type to enable storm control
3. Set the Rate Parameters
4. Click Apply to save the setting
5. If you want to cancel the setting then you need to click the Reset button. It will revert to previously saved values

Figure 3-14.12: The Storm Control Configuration

Frame Type	Enable	Rate (pps)
Unicast	<input type="checkbox"/>	1
Multicast	<input type="checkbox"/>	1
Broadcast	<input type="checkbox"/>	1

Save Reset

Parameter description:

Frame Type:

The settings in a particular row apply to the frame type listed here: Unicast, Multicast or Broadcast.

Enable:

Enable or disable the storm control status for the given frame type.

Rate:

The rate unit is packets per second (pps). Valid values are: 1, 2, 4, 8, 16, 32, 64, 128, 256, 512, 1K, 2K, 4K, 8K, 16K, 32K, 64K, 128K, 256K, 512K or 1024K., 1024K, 2048K, 4096K, 8192K, 16384K or 32768K., 1024K, 2048K, 4096K, 8192K, 16384K or 32768K.

The 1 kpps is actually 1002.1 pps.

Buttons:

Save – Click to save changes.

Reset – Click to undo any changes made locally and revert to previously saved values.

3.15 PoE

PoE is an acronym for Power over Ethernet. Power over Ethernet is used to transmit electrical power to remote devices over standard Ethernet cable. It could for example be used for powering IP telephones, wireless LAN access points and other equipment, where it would be difficult or expensive to connect the equipment to main power supply.

3.15.1 Configuration

This page allows the user to inspect and configure the current PoE port settings.

Figure 3-15.1: The PoE Configuration

Power Over Ethernet Configuration

Primary Power Supply [W]	130
Retry Time	60 sec(s)

Port	PoE Mode	Priority	Maximum Power [W]	Detection	Reset
*	<>	<>		<>	<input type="checkbox"/>
1	Enabled	Low	30	2-Point-Legacy	<input type="checkbox"/>
2	Enabled	Low	30	2-Point-Legacy	<input type="checkbox"/>
3	Enabled	Low	30	2-Point-Legacy	<input type="checkbox"/>
4	Enabled	Low	30	2-Point-Legacy	<input type="checkbox"/>
5	Enabled	Low	30	2-Point-Legacy	<input type="checkbox"/>
6	Enabled	Low	30	2-Point-Legacy	<input type="checkbox"/>
7	Enabled	Low	30	2-Point-Legacy	<input type="checkbox"/>
8	Enabled	Low	30	2-Point-Legacy	<input type="checkbox"/>

Apply Reset

Parameter description:

Primary Power Supply: The amount of power the source can deliver to the PDs in total.

Retry Time: The period in seconds for trying to turn on an overloaded PoE port.

Port: The logical port number for this row.

PoE Mode: The PoE operating mode for the port. Disabled: PoE disabled for the port. Enabled: Enables PoE+ IEEE 802.3at (Class 4 PDs are limited to 30 W).

Priority: The port's power supply priority. The three levels of priority are Low, High and Critical. The priority is used if the remote devices require more power than the power supply can deliver. In this case the ports with the lowest priority will be turned off starting from the port with the highest port number.

3 Configuration

Maximum Power: The maximum power in watts that can be delivered to a remote device. If you want the port to support IEEE802.3at, the maximum allowed value is 30 W.

Detection: Type of detection. Select Legacy, 4-Point, 4-Point-Legacy, 2-Point or 2-Point-Legacy.

Reset: Reset the specific PoE port.

Buttons:

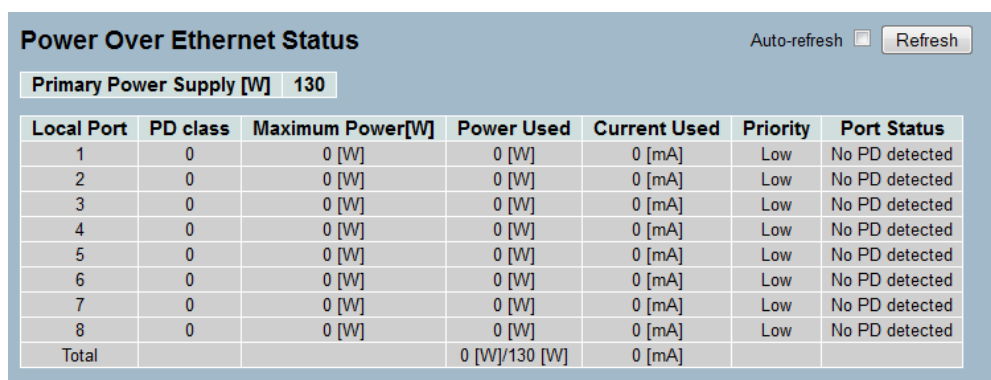
Apply – Apply changes.

Reset – Undo any changes made locally and revert to previously saved values.

3.15.2 Status

This page allows the user to inspect the current status for all PoE ports.

Figure 3-15.2: The PoE Status



The screenshot shows a web interface titled "Power Over Ethernet Status". At the top right, there is an "Auto-refresh" checkbox (unchecked) and a "Refresh" button. Below this, a "Primary Power Supply [W]" indicator shows a value of 130. The main part of the interface is a table with the following data:

Local Port	PD class	Maximum Power[W]	Power Used	Current Used	Priority	Port Status
1	0	0 [W]	0 [W]	0 [mA]	Low	No PD detected
2	0	0 [W]	0 [W]	0 [mA]	Low	No PD detected
3	0	0 [W]	0 [W]	0 [mA]	Low	No PD detected
4	0	0 [W]	0 [W]	0 [mA]	Low	No PD detected
5	0	0 [W]	0 [W]	0 [mA]	Low	No PD detected
6	0	0 [W]	0 [W]	0 [mA]	Low	No PD detected
7	0	0 [W]	0 [W]	0 [mA]	Low	No PD detected
8	0	0 [W]	0 [W]	0 [mA]	Low	No PD detected
Total			0 [W]/130 [W]	0 [mA]		

Parameter description:

Primary Power Supply: The amount of power the source can deliver to the PDs in total.

Local Port: The logical port number for this row.

PD Class: The class the of PDs that identify with a specified current. The classification current describes the amount of power the PD will require during normal operation.

Maximum Power: The maximum power in watts that can be delivered to a remote device.

Power Used: The power the PD currently is using.

Current Used: The current the PD currently is using.

Priority: The port's power supply priority.

Port Status: The port's status.

Auto-refresh: Refresh the port information automatically.

Buttons:

Refresh – Refresh the port information manually.

3.15.3 Power Delay

This page allows the user to set the delay time of power supply after the reboot of a device.

Figure 3-15.3: The PoE Power Delay

POE Power Delay

Port	Delay Mode	Delay Time(0~300 sec)
*	<>	
1	Disable	0
2	Disable	0
3	Disable	0
4	Disable	0
5	Disable	0
6	Disable	0
7	Disable	0
8	Disable	0

Apply

Parameter description:

Port: The logical port number for this row.

Delay Mode: Enable or disable the power delay function.

Delay Time: Period until the PoE port starts providing power to the PD.

Buttons:

Apply – Apply changes.

3.15.4 Auto Checking

This page allows the user to specify the auto detection parameters to check the linking status between PoE ports and PDs. When the system detects a connection failure, it will reboot remote devices automatically.

Figure 3-15.4: The PoE Auto Checking

POE Auto Checking

Ping Check Disable

Port	Ping IP Address	Interval Time(sec)	Retry Time	Failure Log	Failure Action	Reboot Time(sec)
1	0.0.0.0	30	3	error=0 ,total=0	Nothing	15
2	0.0.0.0	30	3	error=0 ,total=0	Nothing	15
3	0.0.0.0	30	3	error=0 ,total=0	Nothing	15
4	0.0.0.0	30	3	error=0 ,total=0	Nothing	15
5	0.0.0.0	30	3	error=0 ,total=0	Nothing	15
6	0.0.0.0	30	3	error=0 ,total=0	Nothing	15
7	0.0.0.0	30	3	error=0 ,total=0	Nothing	15
8	0.0.0.0	30	3	error=0 ,total=0	Nothing	15

Apply

Parameter description:

Ping Check: Enable the ping check function to detect the connection between PoE port and powered device.

Port: The logical port number for this row.

Ping IP Address: The PD's IP address to which the system should ping. '0.0.0.0' disables the function.

Interval Time: The period between checking messages sent to the PD by the system. The interval time range is 10 to 120 seconds.

Retry Time: The Number of times the system retries to ping the PD. After the last time, it will trigger failure action. The retry time range is 1 to 5 times.

3 Configuration

Failure Log: Failure loggings counter.

Failure Action: The action which is taken after failed detection. Nothing: Keep pinging the remote device. Reboot Remote PD: Turn off the power of the PoE port and reboot the PD.

Reboot Time: The period until the PoE port restores power after a reboot of the PD. The reboot time range is 3 to 120 seconds.

Buttons:

Apply – Apply changes.

3.15.5 Scheduling

This page allows the user to make a schedule for the PoE power supply. Scheduling makes PoE management easier and can help to save energy.

Figure 3-15.5: The PoE Scheduling

POE Scheduling

Port	1	2	3	4	5	6	7	8
Status	×	×	×	×	×	×	×	×

Port:

Status:

Select All

Hour	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
23	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Apply

Parameter description:

Port: The logical port number.

Status: Enable or disable the PoE scheduling for the selected port.

Select All: Select all hours and weekdays.

Hour: The hour for which PoE should be enabled.

Sunday/Monday/Tuesday/Wednesday/Thursday/Friday/Saturday: The day for which PoE should be enabled.

Buttons:

Apply – Apply changes.

3.16 sFlow Agent

The sFlow Collector configuration for the switch can be monitored and modified here. Up to 1 Collector is supported. This page allows for configuring sFlow collector IP type, sFlow collector IP Address, Port Number, for each sFlow Collector

3.16.1 Collector

The "Current " field displays the currently configured sFlow Collector. The "Configured" field displays the new Collector Configuration.

Web Interface

To configure the sFlow Agent in the web interface:

1. Click Configuration, sFlow Agent, Collector
2. Set the parameters
3. Scroll to IP Type to choice with IPv4 or IPv6
4. Click Apply to save the setting
5. If you want to cancel the setting then you need to click the Reset button. It will revert to previously saved values.

Figure 3-16.1: The sFlow Collector Configuration

	Configured	Current
Receiver Id	1	1
IP Type	IPv4	IPv4
IP Address	0.0.0.0	0.0.0.0
Port	6343	6343
Time Out	0	0
Datagram Size	1400	1400

Save Reset

Parameter description:

Receiver Id:

The "Receiver ID" input fields allow the user to select the receiver ID. Indicates the ID of this particular sFlow Receiver. Currently one ID is supported as one collector is supported.

IP Type:

A drop down list to select the type of IP of Collector is displayed. By default, IPv4 is the type of Collector IP type. You could using IPv4 or IPv6.

IP Address:

The address of a reachable IP is to be entered into the text box.