

VLAN Setup

This page allows you to create up to 64 VLANs based on the 802.1Q standard. You can also delete or modify VLANs.

Introduction to VLANs

VLANs are logical partitions of the physical LAN. You can use VLANs to increase network performance, improve internal network security, or create separate broadcast domains.

If the network has adequate performance and security for your current needs, it is recommended that you leave the VLAN settings in the default configuration. The default configuration is as follows:

- All ports are members of VLAN 1
- The switch management interface is on VLAN 1 (this cannot be changed)
- All ports have a Port VLAN ID (PVID) of 1
- All ports can send and receive both VLAN-tagged and untagged packets (that is, they are hybrid ports)

In the default configuration, any port is able to send traffic to any other port, and a PC connected to any port will be able to access the management interface. Broadcast traffic, for example, will be flooded to all ports on the switch.

The four VLAN parameters you can configure for each port on the switch include VLAN Aware Enabled, Ingress Filtering Enabled, Packet Type, and PVID. Note that the ports within a trunk cannot be configured individually; configure the trunk instead (trunks are labelled T1 to T12 for the 24 port switch, and T1 to T4 for the 8 port switch).

Creating a VLAN

1. Use the VLAN Setup page to create VLANs on the Switch. In VLAN ID, input a number from 1 to 4094.
2. Click ADD.
3. Select the ports to be a member of this VLAN.
4. Click APPLY.

Modifying a VLAN

1. Use the VLAN Setup page to modify a VLAN. Under the VLAN List section, click on the radio button of the VLAN you would like to modify.
2. Click MODIFY.
3. Select the ports to be added to or removed from this VLAN.
4. Click APPLY.

Deleting a VLAN

1. Use the VLAN Setup page to delete a VLAN. Under the VLAN List section, click on the radio button of the VLAN you would like to delete.
2. Click DELETE.

Note

Before deleting a VLAN, make sure that all the ports in this VLAN are also a member of another VLAN. Otherwise, the port will not be a member of any VLAN.

Field Attributes

Add VLAN

- **VLAN ID** – Input a VLAN ID and click APPLY to create a new VLAN.

VLAN List

- **VLAN List** – The list of up to 64 VLANs. You can modify or delete these VLANs.

Web – Click VLANS, VLAN Setup.

802.1Q VLAN Setup

This page allows you to add up to 64 VLANs.

Add VLAN

VLAN ID

Add

VLAN List

<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

HELP Modify Delete

VLAN Port Config

You can configure VLAN behavior for specific interfaces, including the default VLAN identifier (PVID) and accepted frame types. This page allows you to change the VLAN membership and behavior of individual ports. Each row of the table corresponds to one port or trunk; trunked ports cannot be configured individually.

Field Attributes

VLAN Per Port Configuration

- **Port/Trunk** – The port number or the ID of a trunk.

- **VLAN Aware Enabled** – VLAN aware ports are able to use VLAN tagged frames to determine the destination of the frame. Click to enable or disable VLAN awareness mode for this port.
(Default: Enabled)
- **Ingress Filtering Enabled** – If enabled, incoming frames for VLANs which do not include this ingress port in their member set will be discarded. (Default: Disabled)
- **Packet Type** – Users can set the interface to accept all frame types, or only tagged frames.

If the Packet Type is set to “All,” the port can accept incoming tagged and untagged packets. Untagged packets will be associated with the VLAN identified by the PVID. Tagged packets will be dropped unless the port is a member of the VLAN identified by the VLAN tag in the packet.

If the Packet Type is set to “Tagged,” the port will only send tagged packets. (Default: All)

- **PVID** – From a drop down menu, choose the VLAN ID that will be assigned to untagged frames received on this port. You cannot choose “None” for the VLAN ID unless the packet type is set to “Tagged Only.” Choosing “None” will not assign any VLAN ID to untagged frames received on this port. It is not possible to remove a port from VLAN 1 unless its PVID has been changed to something other than 1. The PVID has no effect on ports that have Packet Type set to Tagged.
(Default: 1)

Web – Click VLANS, VLAN Port Config.

802.1Q Per Port Configuration

This page allows you to configure the VLAN settings per port.

VLAN Per Port Configuration

Port/ Trunk	VLAN aware Enabled	Ingress Filtering Enabled	Packet Type	PVID
P1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="radio"/> All <input type="radio"/> Tagged Only	1
P2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="radio"/> All <input checked="" type="radio"/> Tagged Only	None
P3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="radio"/> All <input type="radio"/> Tagged Only	1
P4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="radio"/> All <input type="radio"/> Tagged Only	1
P5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="radio"/> All <input type="radio"/> Tagged Only	1
P6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="radio"/> All <input type="radio"/> Tagged Only	1
P7	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="radio"/> All <input type="radio"/> Tagged Only	1
P8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="radio"/> All <input type="radio"/> Tagged Only	1
P9	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="radio"/> All <input type="radio"/> Tagged Only	1
P10	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="radio"/> All <input type="radio"/> Tagged Only	1
P11	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="radio"/> All <input type="radio"/> Tagged Only	1
P12	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="radio"/> All <input type="radio"/> Tagged Only	1
P13	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="radio"/> All <input type="radio"/> Tagged Only	1
P14	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="radio"/> All <input type="radio"/> Tagged Only	1
P15	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="radio"/> All <input type="radio"/> Tagged Only	1
P16	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="radio"/> All <input type="radio"/> Tagged Only	1
P17	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="radio"/> All <input type="radio"/> Tagged Only	1
P18	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="radio"/> All <input type="radio"/> Tagged Only	1
P19	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="radio"/> All <input type="radio"/> Tagged Only	1
P20	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="radio"/> All <input type="radio"/> Tagged Only	1
P21	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="radio"/> All <input type="radio"/> Tagged Only	1
P22	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="radio"/> All <input type="radio"/> Tagged Only	1
P23	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="radio"/> All <input type="radio"/> Tagged Only	1
P24	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="radio"/> All <input type="radio"/> Tagged Only	1
T1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="radio"/> All <input type="radio"/> Tagged Only	None
T2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="radio"/> All <input checked="" type="radio"/> Tagged Only	None
T3	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="radio"/> All <input checked="" type="radio"/> Tagged Only	None
T4	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="radio"/> All <input checked="" type="radio"/> Tagged Only	None
T5	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="radio"/> All <input checked="" type="radio"/> Tagged Only	None
T6	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="radio"/> All <input checked="" type="radio"/> Tagged Only	None
T7	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="radio"/> All <input checked="" type="radio"/> Tagged Only	None
T8	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="radio"/> All <input checked="" type="radio"/> Tagged Only	None
T9	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="radio"/> All <input checked="" type="radio"/> Tagged Only	None
T10	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="radio"/> All <input checked="" type="radio"/> Tagged Only	None
T11	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="radio"/> All <input checked="" type="radio"/> Tagged Only	None
T12	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="radio"/> All <input checked="" type="radio"/> Tagged Only	None

HELP

APPLY

REFRESH