Layer 3 InterVLAN Routing Configuration on 300 Series Managed Switch

Objective

The objective of this document is to configure layer 3 InterVLAN routing on 300 switches.

Applicable Devices

300 Series switches

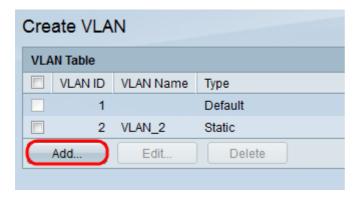
Step-by-Step Procedure

Prerequisites

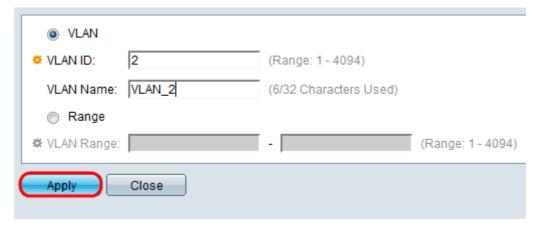
- 1. Make sure Layer3 feature is enabled. For additional information on how to enable Layer 3 Mode on firmware version 1.2.7.76 or earlier, please refer to How to configure Layer 3 mode for SX300. For later firmwares, please refer to Switching to Layer 3 Mode on the SF/SG 300 Series Switches.
- 2. Make sure you have more than one VLAN configured.

Create VLANs

Step 1. Use the switch GUI interface to choose VLAN Management > Create VLAN.



Step 2. Click **Add** to create new VLAN and enter VLAN parameters.



Step 3. To add a single VLAN check **VLAN** radio button and enter the VLAN information. Repeat this step to create other VLANs.

- VLAN ID VLAN number.
- VLAN Name VLAN description.

Step 4. To add a range of VLAN check **Range** radio button and enter the range of IP address.

• VLAN Range — VLAN number range.

Step 5. Click Apply to save.

Assign port to VLAN

Step 1. Use the switch GUI interface to choose **VLAN Management** > **Port to VLAN**.

Port to VLAN																
Filter: VL	LAN I	D eq	uals	to 2		AND	Inter	face i	Туре	equal	s to	Port -	G	0		
Interface	GF1	GE2	GE3	GF4	GE5	GE6	GE7	GF8	GE9	GF10	GF11	GF12	GE13	 GF14	GE15	GF16
Access	0	0	0	0		0	0	0		0	0	0	0	0	0	0
Trunk	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0
General	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Customer																
Forbidden	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Excluded	0	•	0	0	0	0	0	0	0	(a)	•	•	•	•	•	•
Tagged	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Untagged	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PVID																
Interface GE25 GE26 GE27 GE28																
Access																
Trunk	0	0			0											
General		0														
Customer																
Forbidden	0	0			0											
Excluded	0	0			•											
Tagged	0	0			0											
Untagged	0	0			0											
PVID] [7												
Apply		Can	cel	F	ort V	LAN N	lemb	ershi	p Tab	le						

Step 2. Choose the VLAN ID number from the VLAN ID drop-menu and Interface type from Interface Type menu.

Step 3. Click **Go** to see the VLAN membership status of the selected port.

Step 4. Choose from interface type from radio buttons.

- Access The interface is untagged member of single VLAN.
- Trunk The interface is not a member of specific tagged VLAN.
- General The interface supports tagged and untagged one or more VLANs.

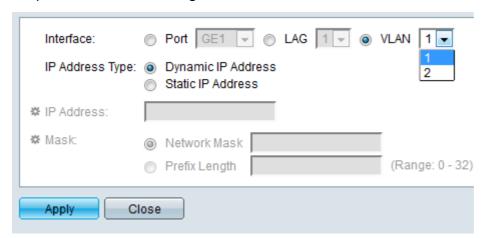
Step 5. Click **Apply** to save

Configure InterVLAN routing

Step 1. Use the switch GUI interface choose IP Configuration > Management and IP interfaces > IPv4 Interface. IPv4 Interface pages opens.



Step 2. Click Add to assign IP address for VLANs.



Step 3. Check **VLAN** and select VLAN ID number from the drop down menu.

Step 4. Assign IP address for the VLANs.

- IP Address Type How IP address will be assigned.
 - Dynamic IP Address DHCP dynamic IP address assignment.
 - Static IP address Manually configured IP address assignment.

Step 5. Click **Apply** to Save.