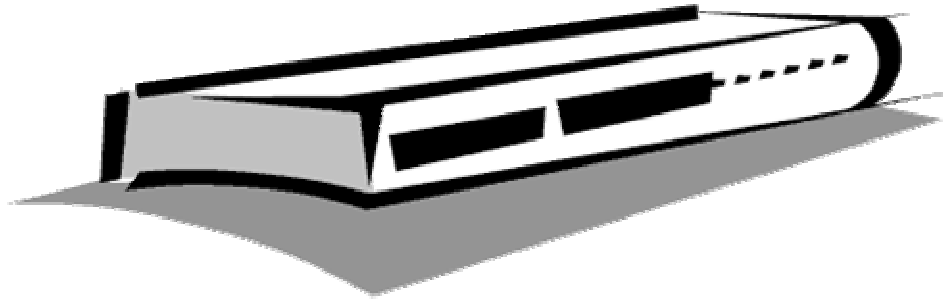
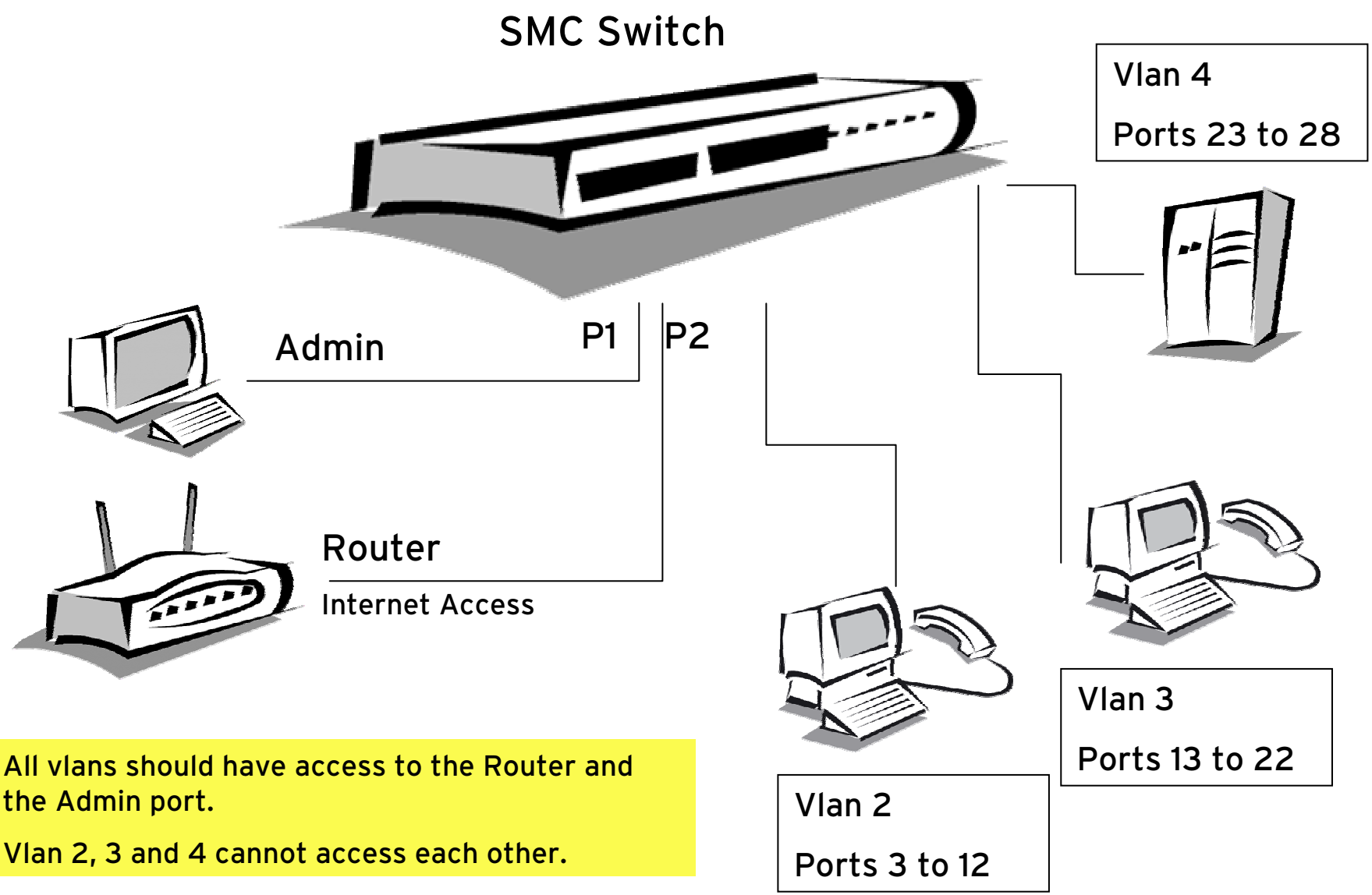
Configuring VLANs in SMC Switches

Example of several vlans sharing one or two uplink ports.

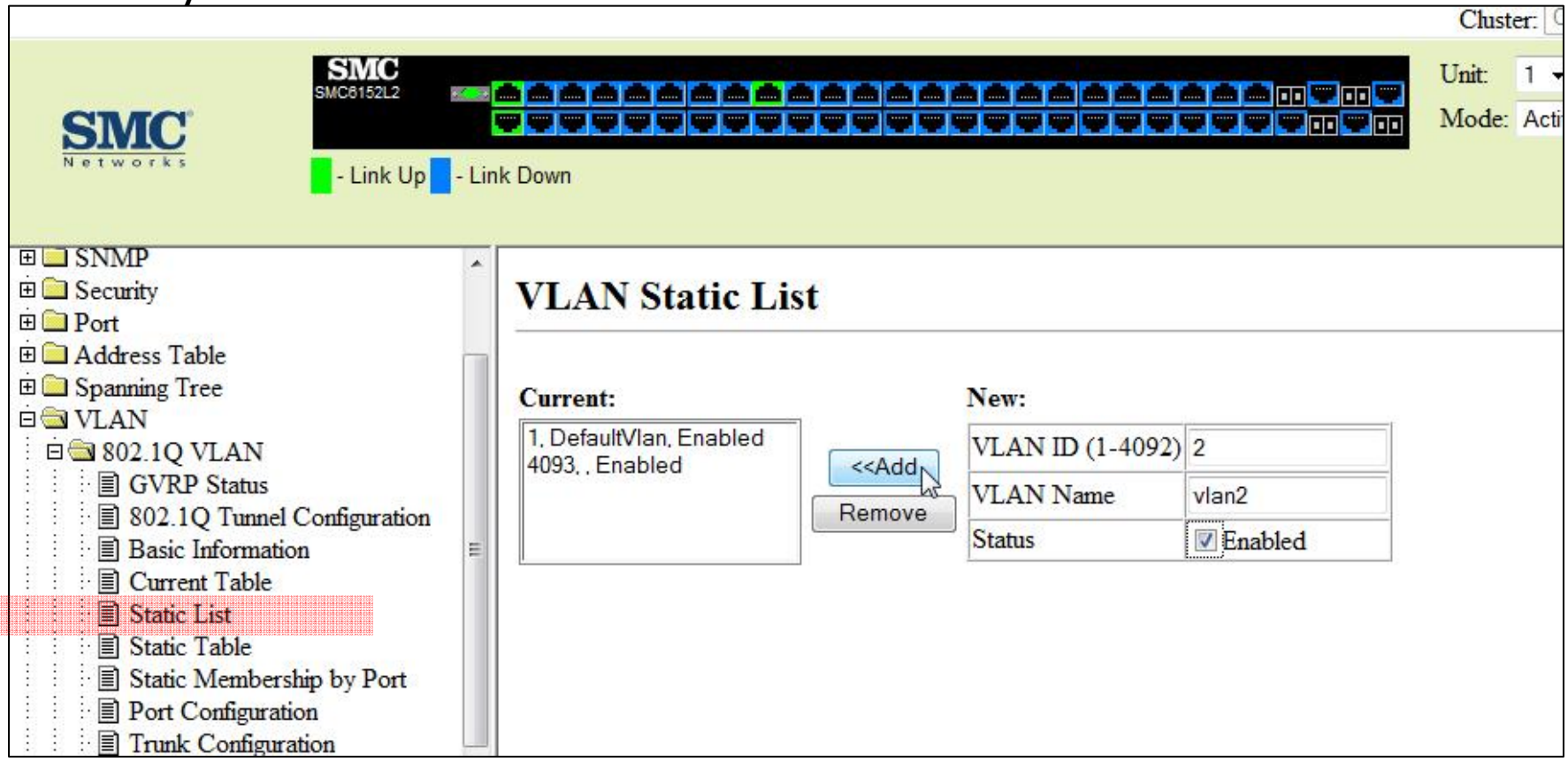



SMC Switch
Vlan 4
Ports 23 to 28
Admin
P1
P2
Router
Internet Access
Vlan 3
Ports 13 to 22
Vlan 2
Ports 3 to 12
All vlans should have access to the Router and the Admin port.
Vlan 2, 3 and 4 cannot access each other.

Configuration using Web Management Interface

STEP 1 - Vlan static List (Create the vlans)

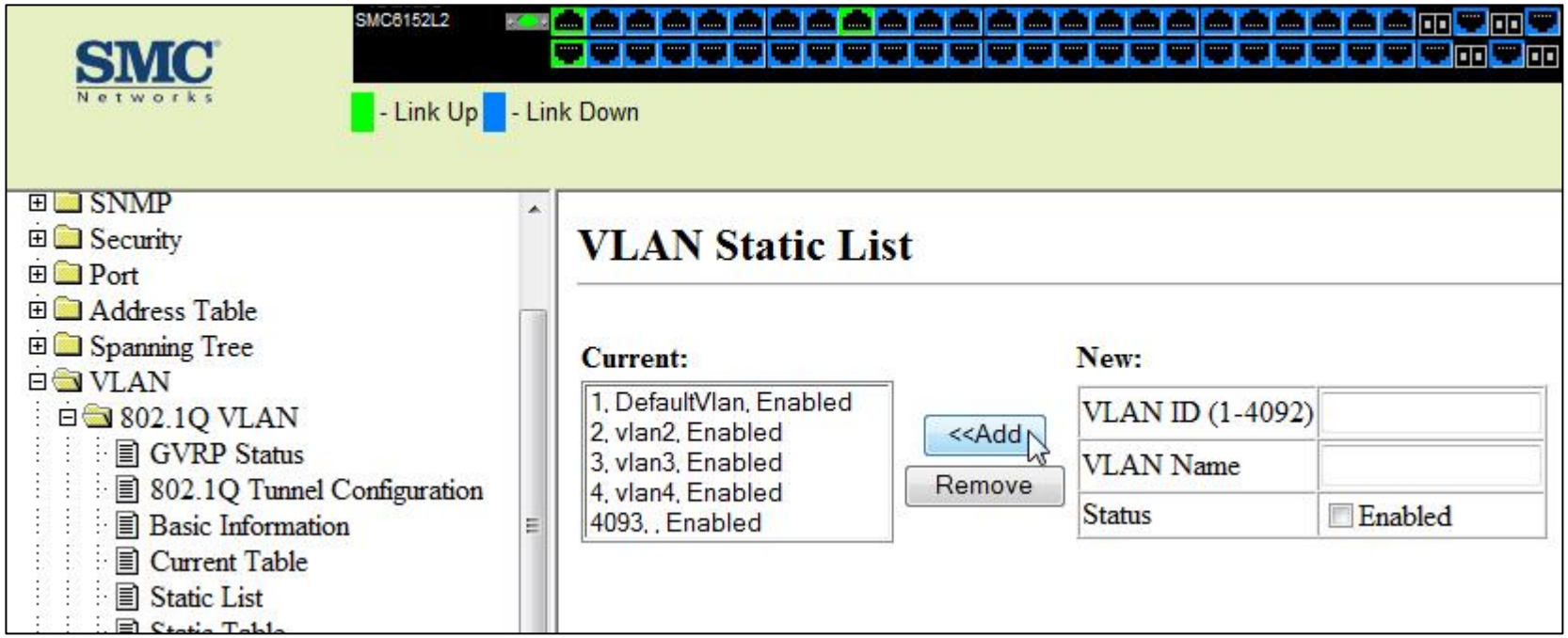
Add vlan 2, vlan 3 and vlan 4 with ID and name, making sure they are enabled after created.



Configuration using Web Management Interface

STEP 1 - Vlan static List

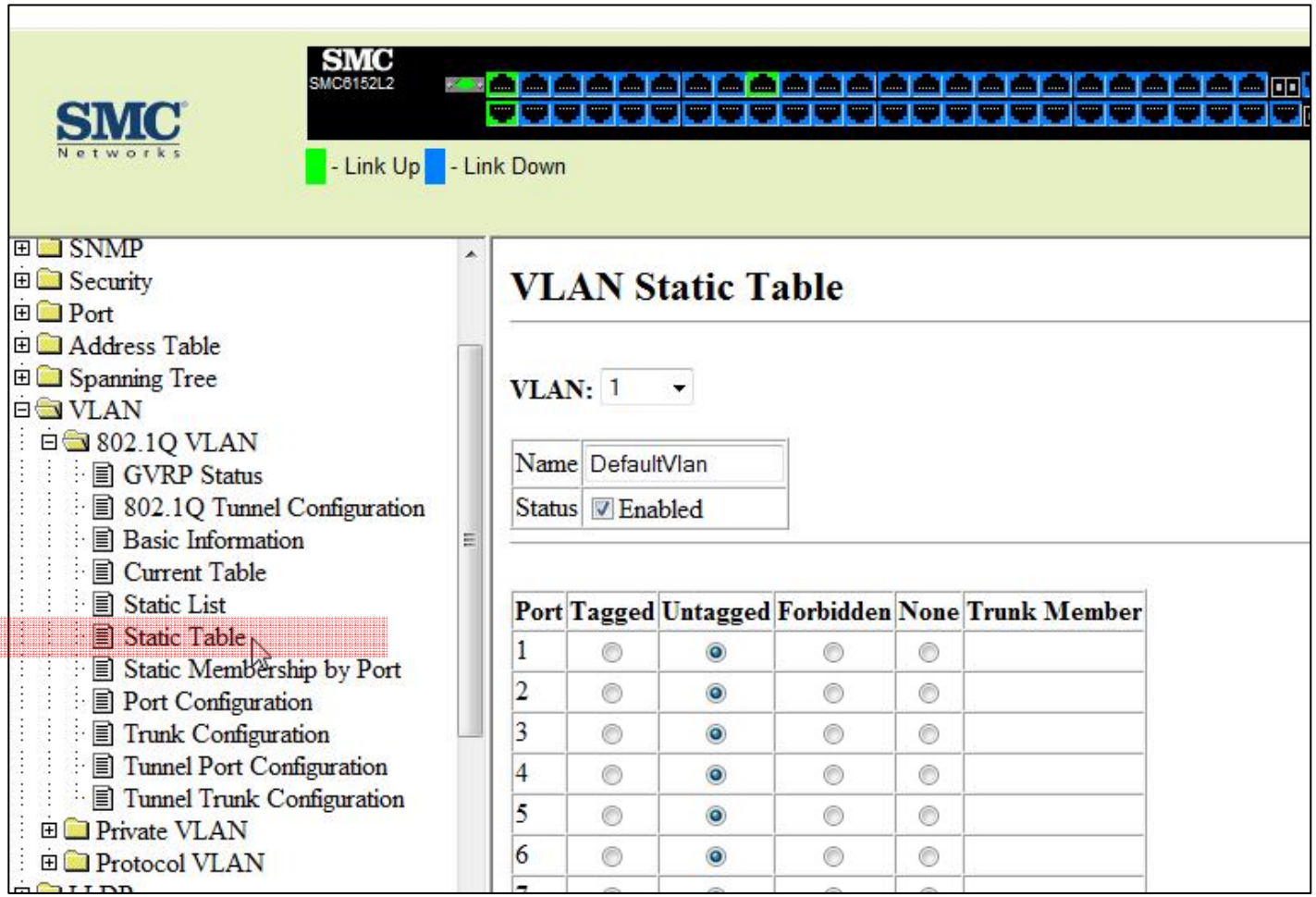
Do not remove vlan1 and vlan 4093 (in case it exists already).



Configuration using Web Management Interface

STEP 2- Vlan Static Table (Associate ports to vlans)

Associate all ports to vlan1 as untagged. (It should be done by default).

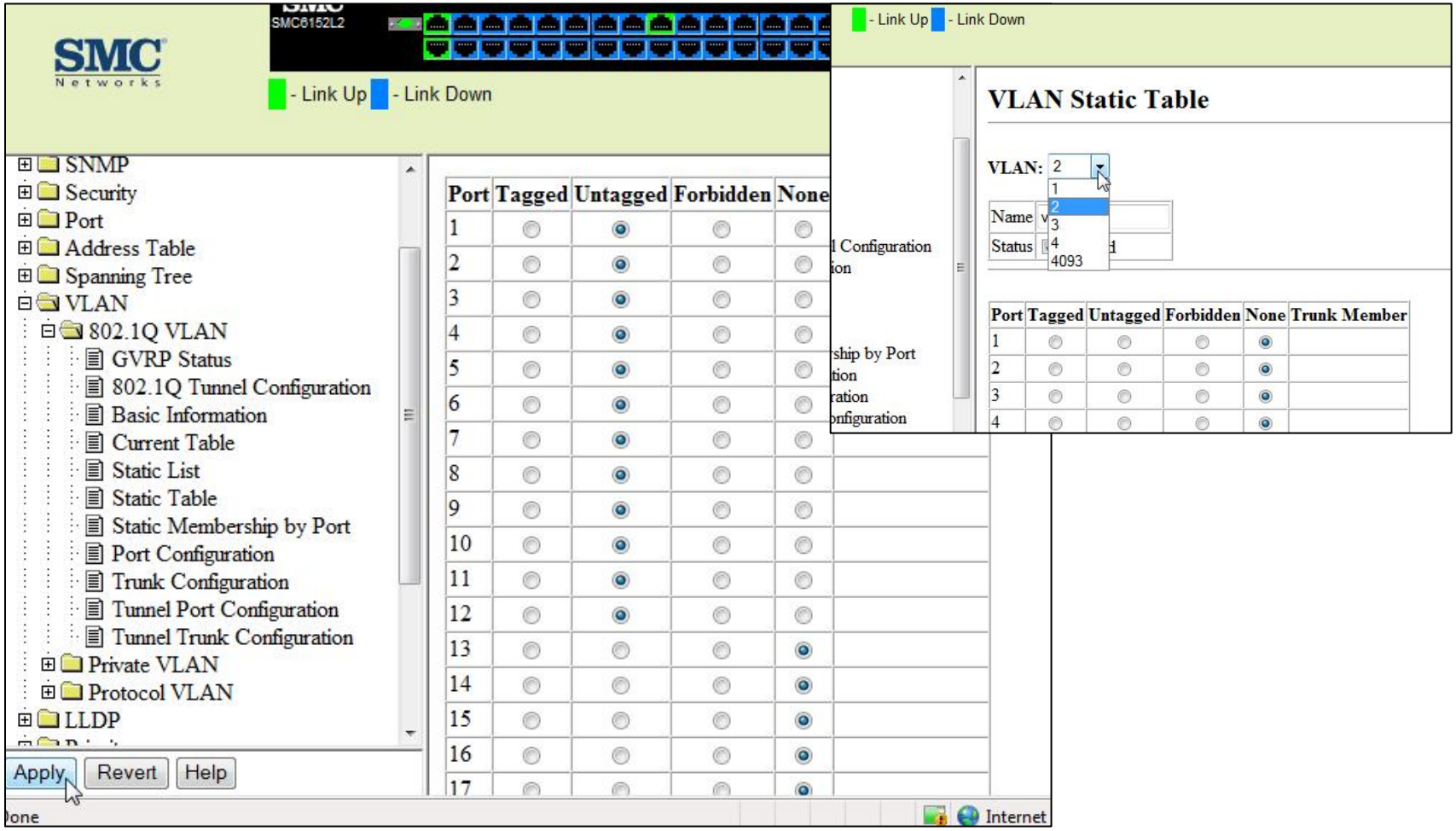


Configuration using Web Management Interface

STEP 2- Vlan Static Table (Associate ports to vlans)

Associate P1, P2, and P3 to P12 to vlan2 as untagged.

Click Apply

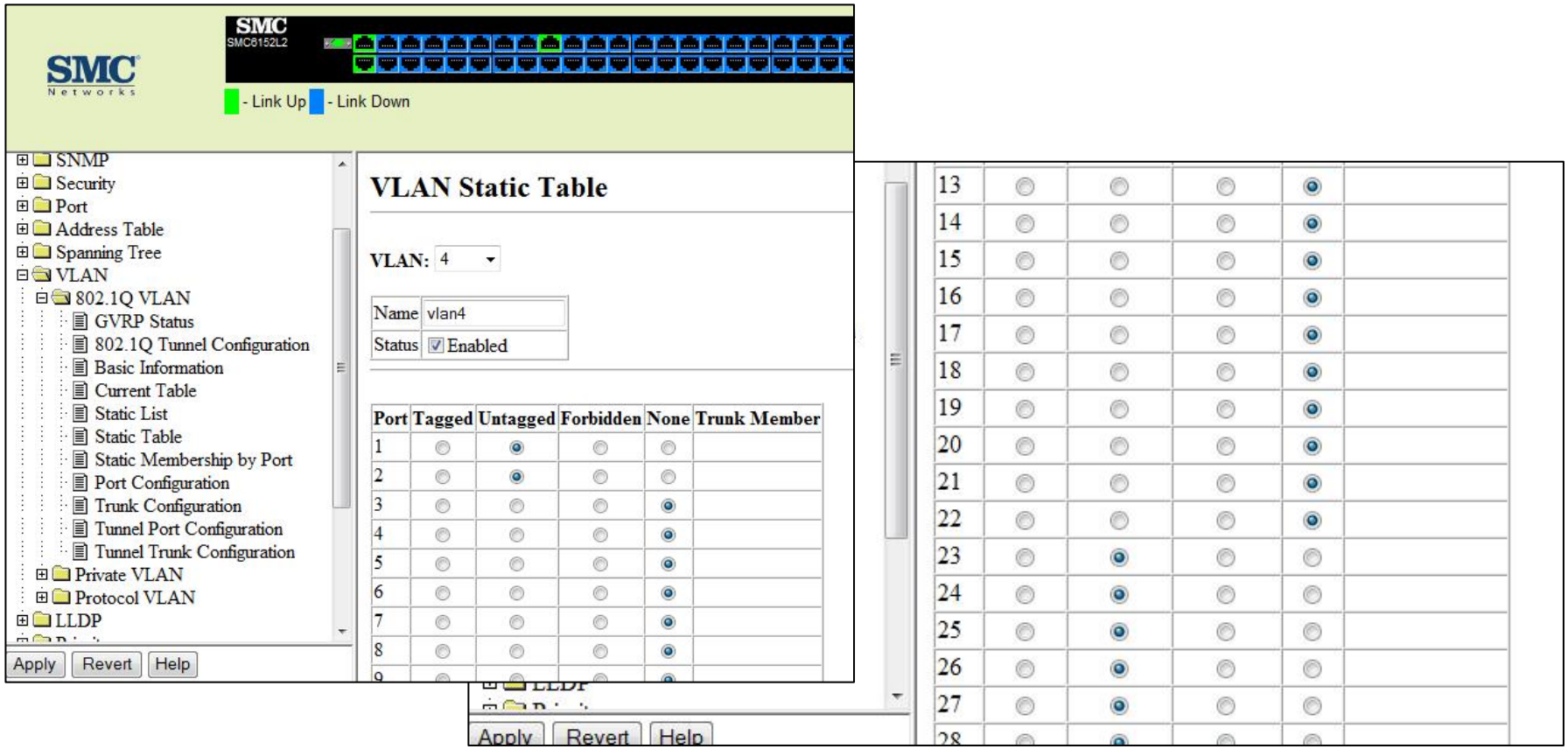


Configuration using Web Management Interface

STEP 2- Vlan Static Table (Associate ports to vlans)

Associate P1, P2, and P13 to P22 to vlan3 as untagged. Click Apply

Associate P1, P2, and P23 to P28 to vlan4 as untagged. Click Apply



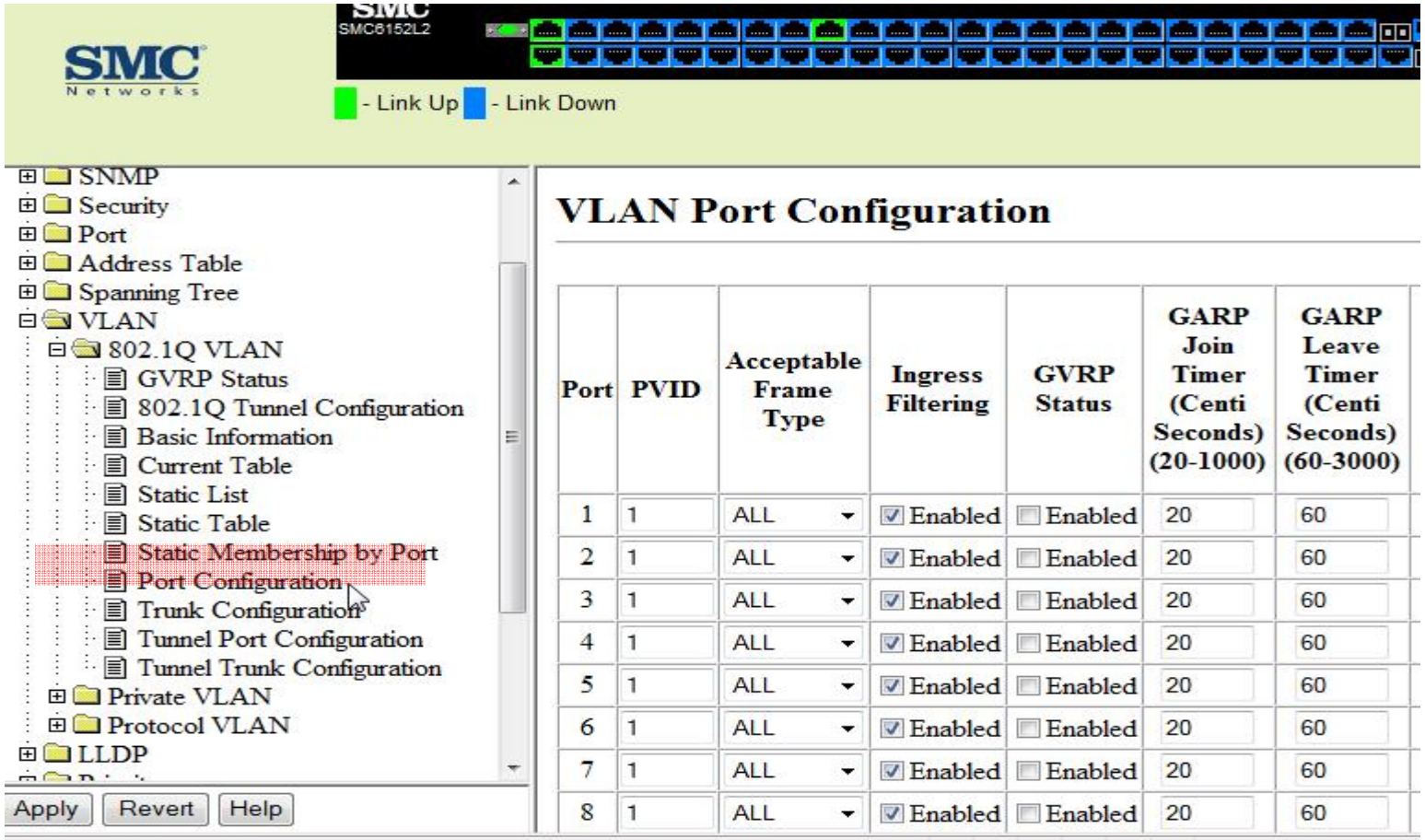
Configuration using Web Management Interface

STEP 3 – Port Configuration PVID (Setting native vlan for every port)

Write PVID 2 for port P3 to P12 Click Apply

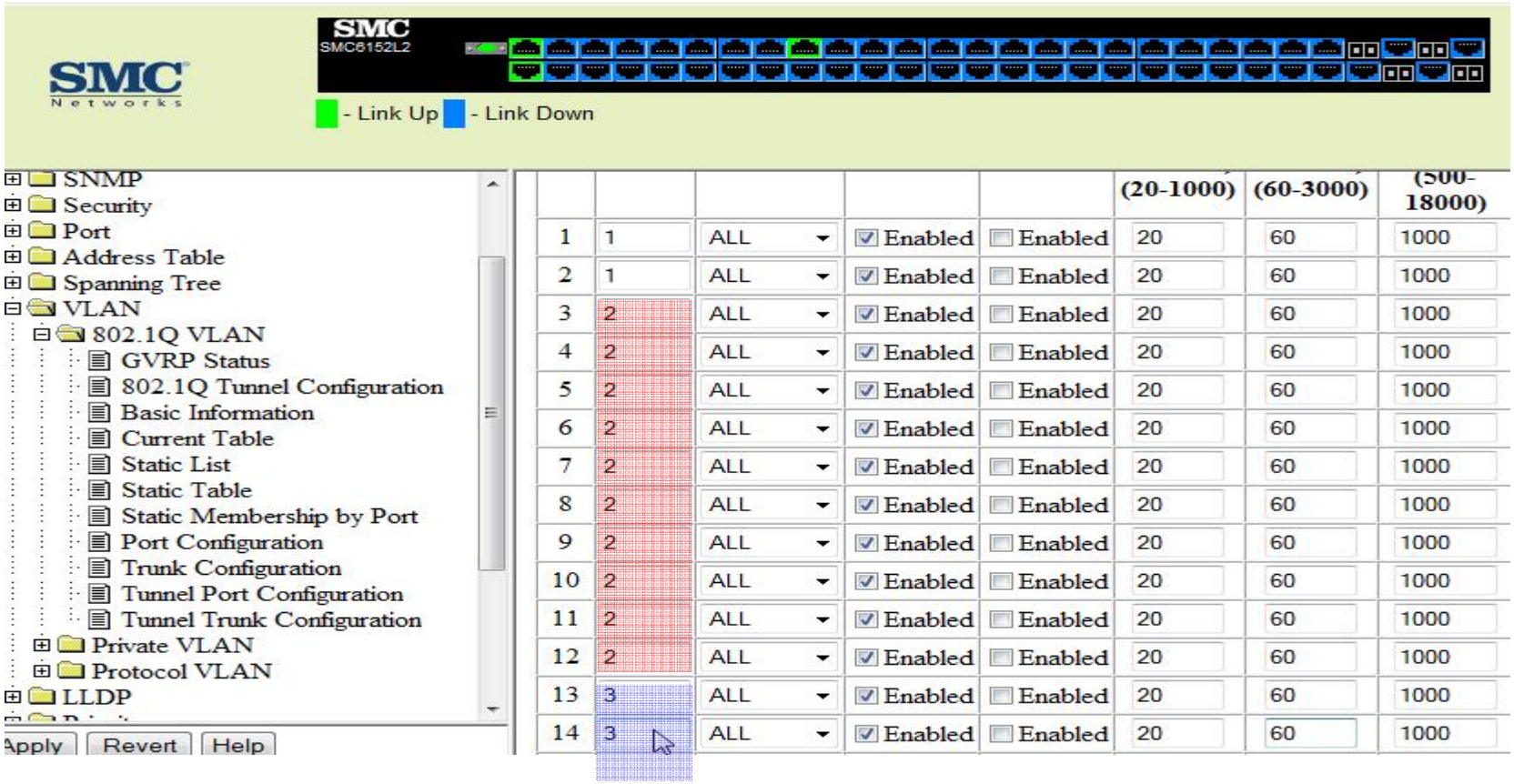
Write PVID 3 for port P13 to P22 Click Apply

Write PVID 4 for port P23 to P28 Click Apply



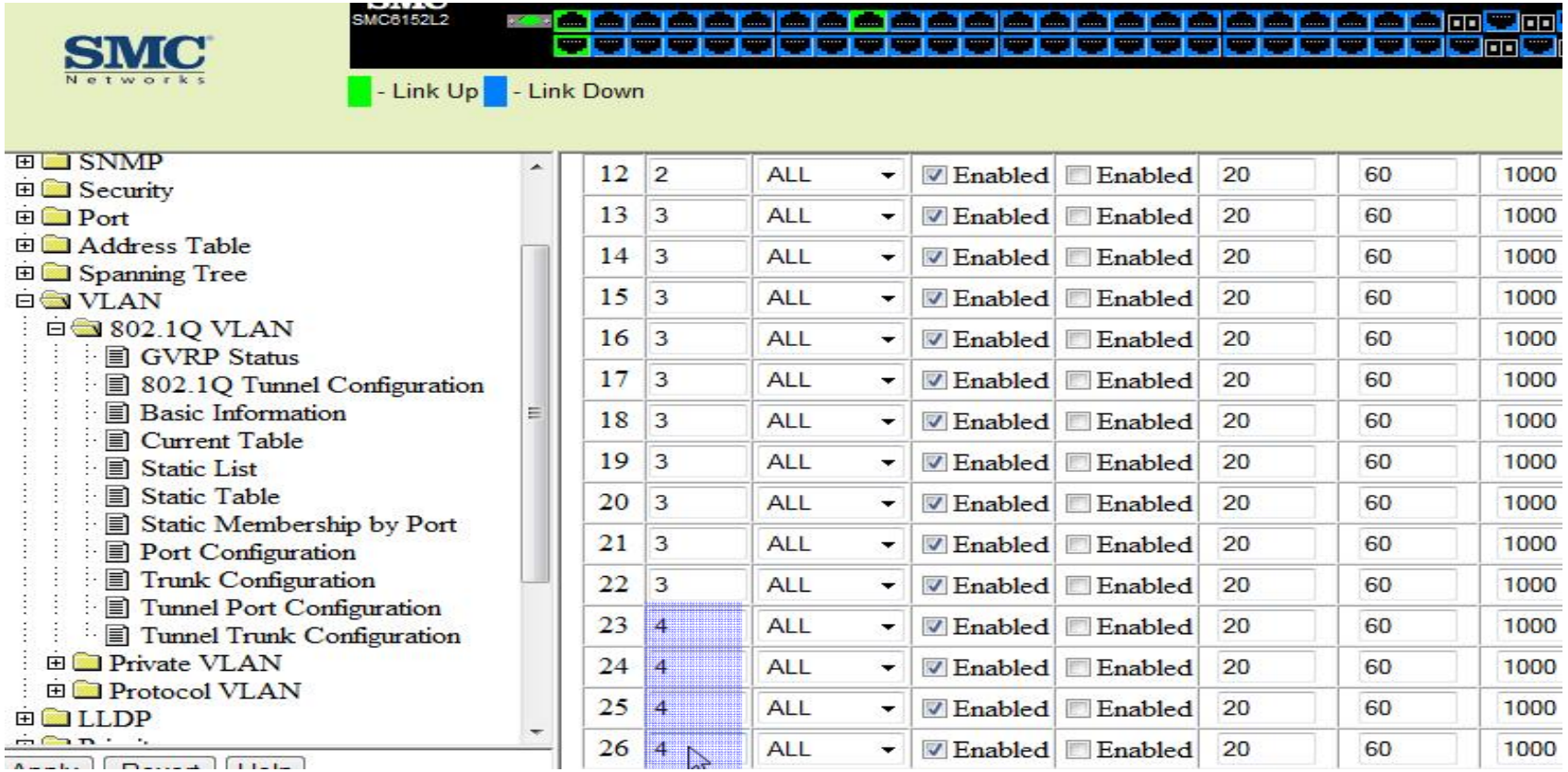
Configuration using Web Management Interface

STEP 3 – **Port Configuration PVID** (Setting native vlan for every port)



Configuration using Web Management Interface

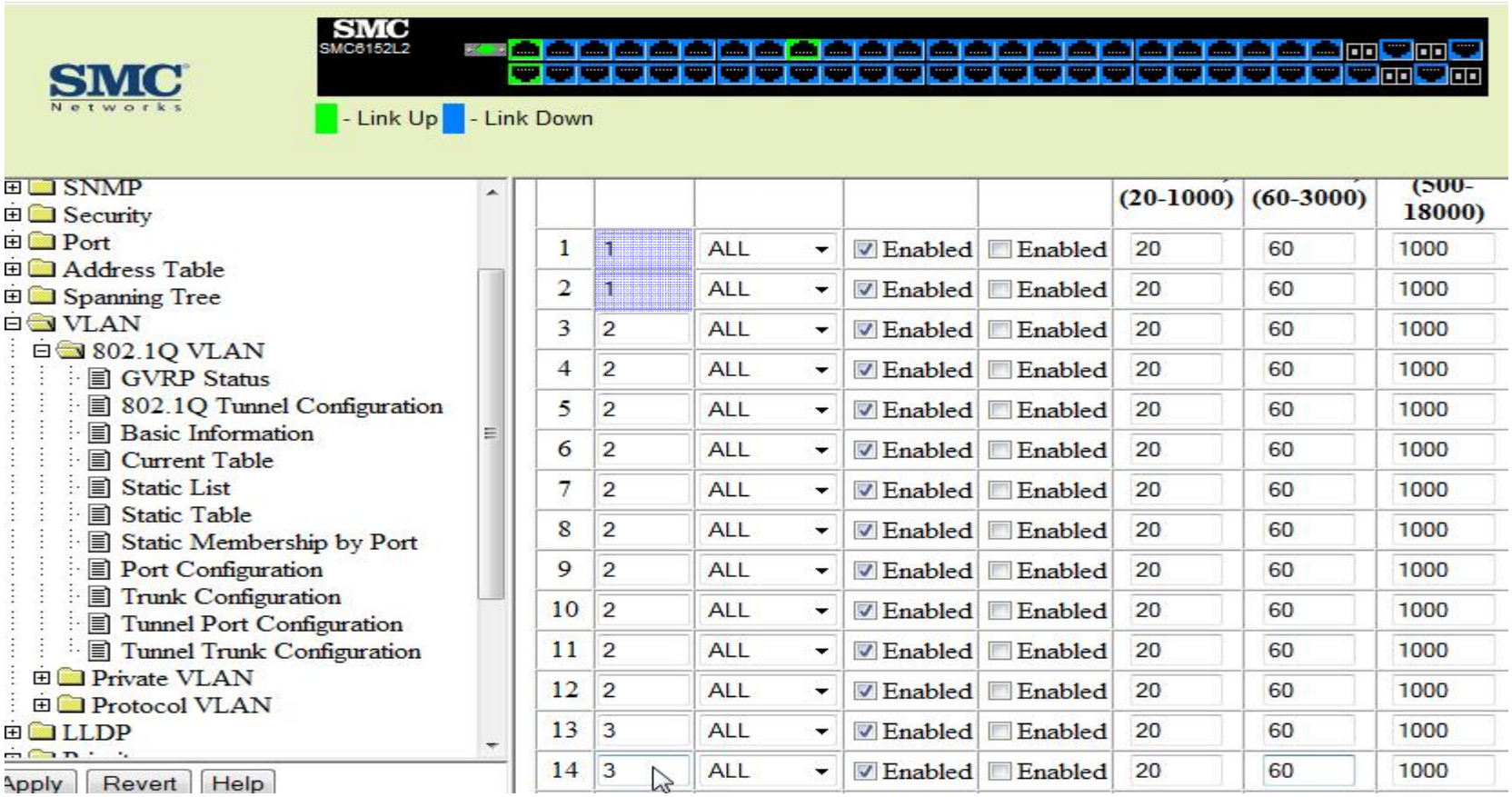
STEP 3 – **Port Configuration PVID** (Setting native vlan for every port)



Configuration using Web Management Interface

STEP 3 – **Port Configuration PVID** (Setting native vlan for every port)

Leave PVID 1 for Port 1 and Port 2.



Configuration using Web Management Interface

STEP 4 - You are ready to go!!

Don't forget to save your configuration to the startup config file to avoid losing your changes.

Configuration using CLI

STEP 1 - Vlan static List (Create the vlans)

```
Console# config
Console(config)# VLAN database
Console(config-vlan)# VLAN 2 name vlan2 media ethernet state active
Console(config-vlan)# VLAN 3 name vlan3 media ethernet state active
Console(config-vlan)# VLAN 4 name vlan4 media ethernet state active
```

Configuration using CLI

STEP 2 - Vlan static Table (Associate ports to vlans)

STEP 3 - Port Configuration PVID (Setting native vlan for every port)

PORT 1 and PORT 2

```
Console# config
Console(config)# interface ethernet 1/1
Console(config-if)#switchport allowed vlan add 1-4 untagged
Console(config-if)# switchport native vlan 1

Console(config)# interface ethernet 1/2
Console(config-if)# switchport allowed vlan add 1-4 untagged
Console(config-if)# switchport native vlan 1
```

Configuration using CLI

STEP 2 - Vlan static Table (Associate ports to vlans)

STEP 3 - Port Configuration PVID (Setting native vlan for every port)

PORT 3 TO PORT 12

```
Console# config
Console(config)# interface ethernet 1/3
Console(config-if)#switchport allowed vlan add 1-2 untagged
Console(config-if)# switchport native vlan 2

Console# config
Console(config)# interface ethernet 1/4
Console(config-if)#switchport allowed vlan add 1-2 untagged
Console(config-if)# switchport native vlan 2
```

...

Configuration using CLI

STEP 2 - Vlan static Table (Associate ports to vlans)

STEP 3 - Port Configuration PVID (Setting native vlan for every port)

PORT 13 TO PORT 22

```
Console# config
Console(config)# interface ethernet 1/13
Console(config-if)#switchport allowed vlan add 1,3 untagged
Console(config-if)# switchport native vlan 3

Console# config
Console(config)# interface ethernet 1/14
Console(config-if)#switchport allowed vlan add 1,3 untagged
Console(config-if)# switchport native vlan 3
```

...

Configuration using CLI

STEP 2 - Vlan static Table (Associate ports to vlans)

STEP 3 - Port Configuration PVID (Setting native vlan for every port)

PORT 23 TO PORT 28

```
Console# config
Console(config)# interface ethernet 1/23
Console(config-if)#switchport allowed vlan add 1,4 untagged
Console(config-if)# switchport native vlan 4

Console# config
Console(config)# interface ethernet 1/24
Console(config-if)#switchport allowed vlan add 1,4 untagged
Console(config-if)# switchport native vlan 4
```

...

Configuration using CLI

STEP 4 - You are ready to go!!

Don't forget to save your configuration to the startup config file to avoid losing your changes.