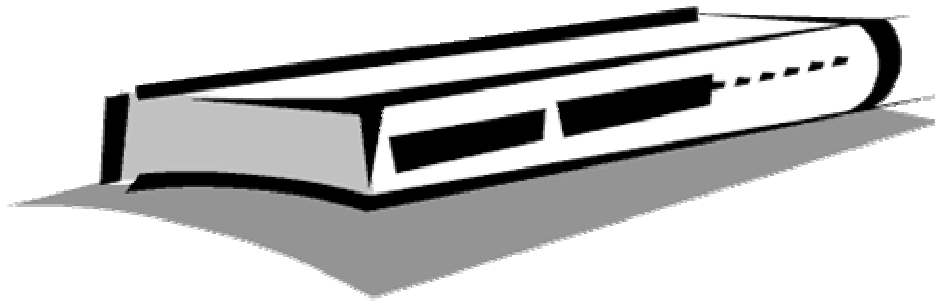
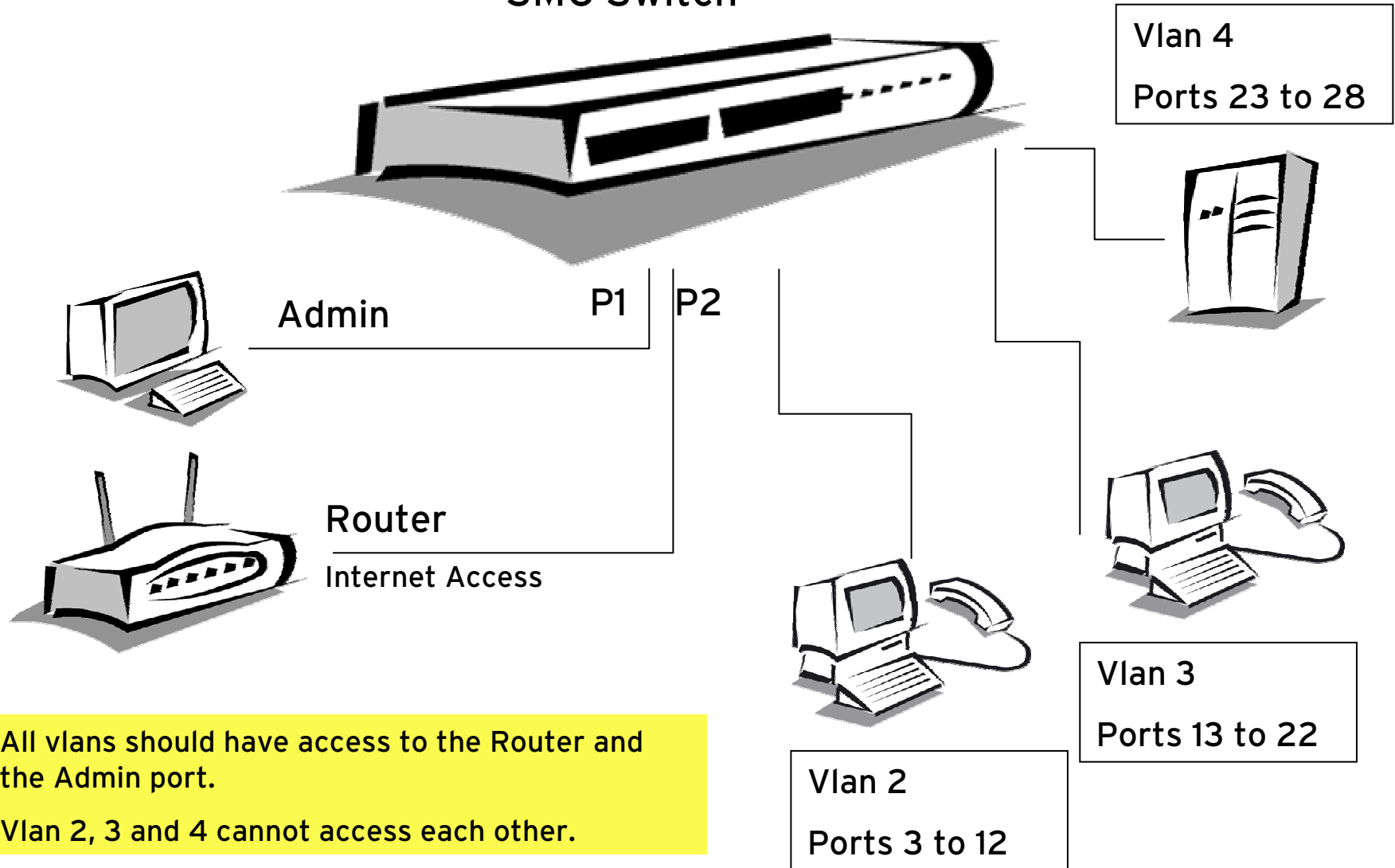


Configuring VLANs in SMC Switches

Example of several vlans sharing one or two uplink ports.



SMC Switch



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.

The screenshot displays the SMC Networks web management interface. At the top, there is a header with the SMC logo and a network status bar showing a row of ports with green and blue indicators. Below the header, a navigation menu on the left lists various configuration options, with 'VLAN' expanded to show '802.1Q VLAN' and 'Static List' highlighted in red. The main content area is titled 'VLAN Static List' and contains two sections: 'Current:' and 'New:'. The 'Current:' section lists existing VLANs: '1, DefaultVlan, Enabled' and '4093, . Enabled'. The 'New:' section is a form for adding a new VLAN, with fields for 'VLAN ID (1-4092)' set to '2', 'VLAN Name' set to 'vlan2', and 'Status' set to 'Enabled' (checked). A '<<Add' button is positioned between the two sections, and a 'Remove' button is located below it.

Cluster: 0
Unit: 1
Mode: Acti

SMC Networks
SMC8152L2
- Link Up - Link Down

SNMP
Security
Port
Address Table
Spanning Tree
VLAN
802.1Q VLAN
GVRP Status
802.1Q Tunnel Configuration
Basic Information
Current Table
Static List
Static Table
Static Membership by Port
Port Configuration
Trunk Configuration

VLAN Static List

Current:

1, DefaultVlan, Enabled
4093, . Enabled

New:

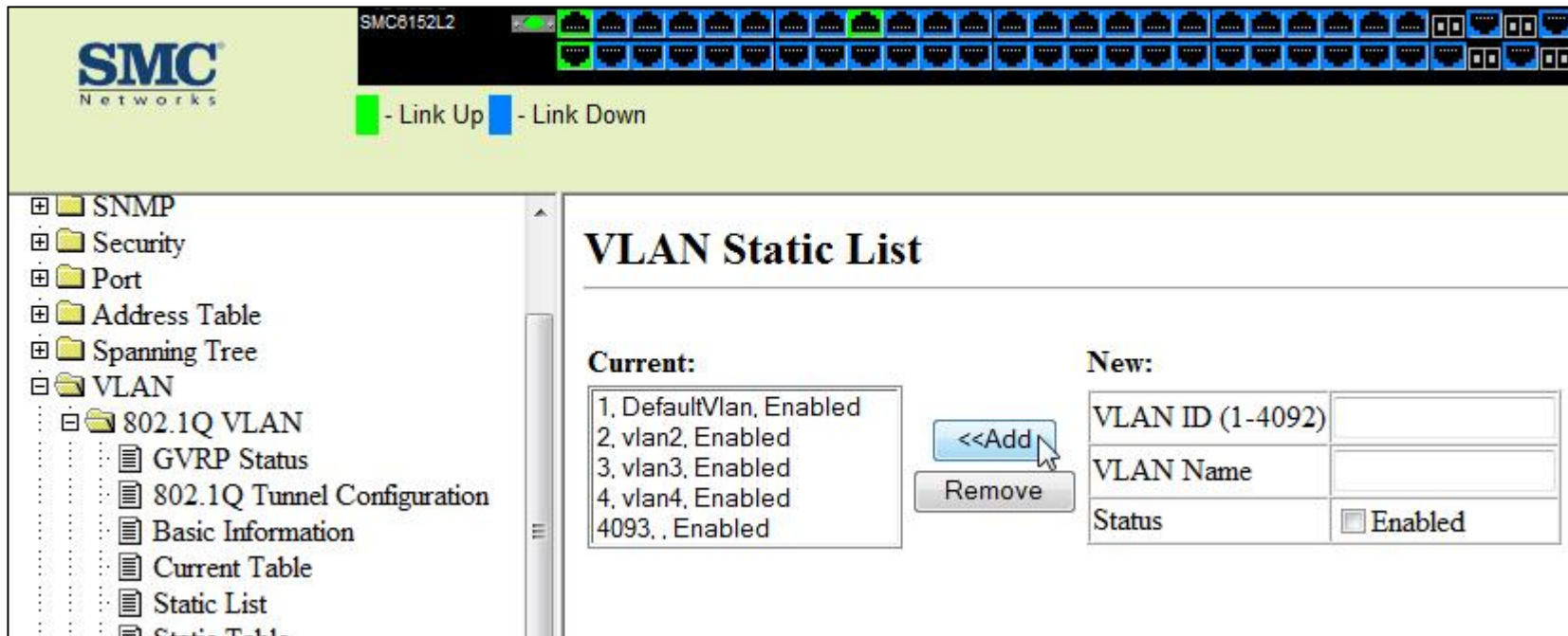
VLAN ID (1-4092)	2
VLAN Name	vlan2
Status	<input checked="" type="checkbox"/> Enabled

<<Add
Remove

Configuration using Web Management Interface

STEP 1 - Vlan static List

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

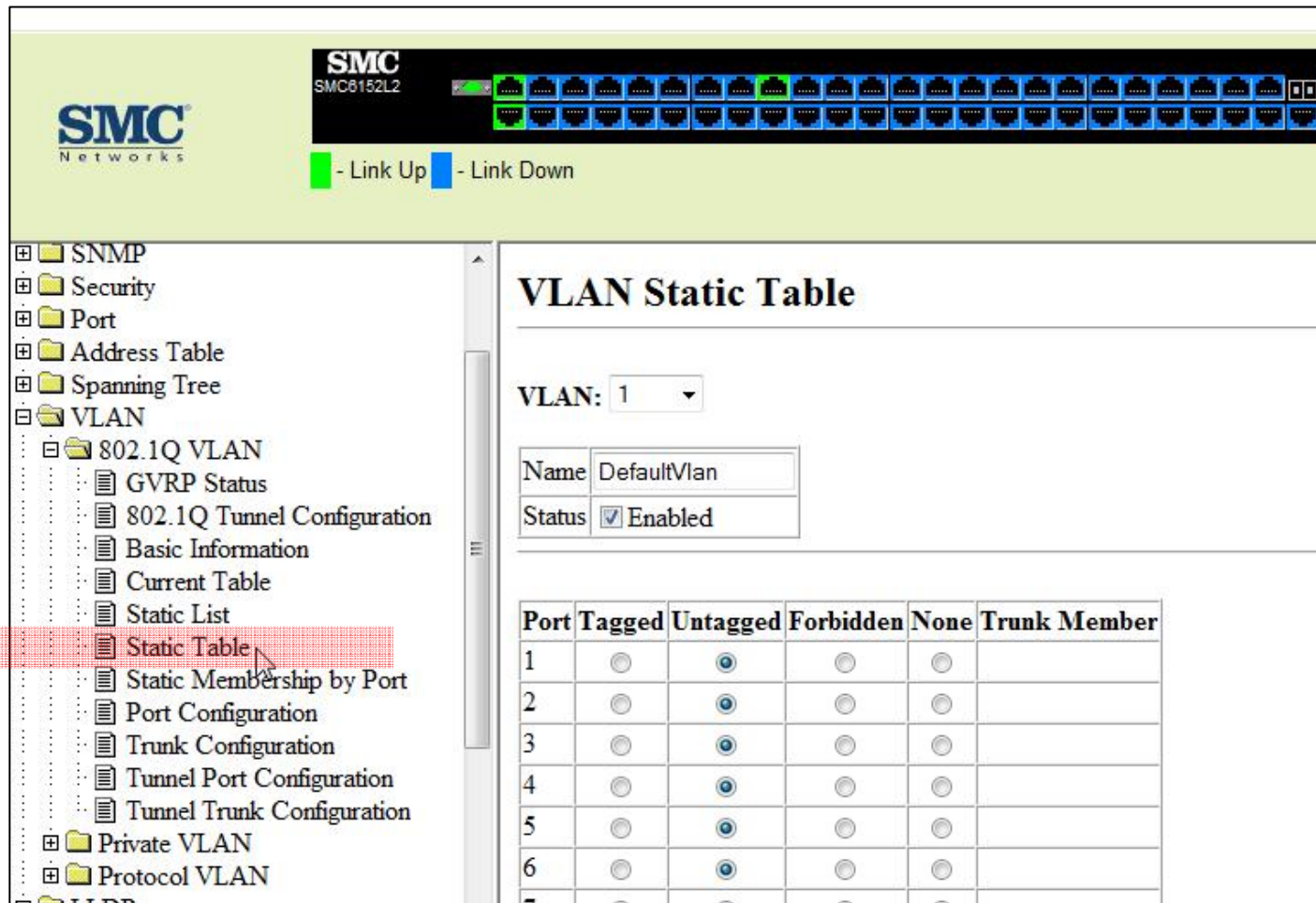


The screenshot displays the SMC Networks Web Management Interface for device SMC8152L2. The top status bar shows a row of network ports with green and blue indicators, and a legend below it: a green square for '- Link Up' and a blue square for '- Link Down'. The left sidebar contains a tree view of configuration categories: SNMP, Security, Port, Address Table, Spanning Tree, and VLAN. The 'VLAN' category is expanded to show '802.1Q VLAN', which includes sub-items like GVRP Status, 802.1Q Tunnel Configuration, Basic Information, Current Table, Static List, and Static Table. The main content area is titled 'VLAN Static List'. It features two columns: 'Current:' and 'New:'. The 'Current:' column contains a list of existing VLANs: '1, DefaultVlan, Enabled', '2, vlan2, Enabled', '3, vlan3, Enabled', '4, vlan4, Enabled', and '4093, . Enabled'. Between the columns are two buttons: '<<Add' and 'Remove'. The 'New:' column contains three input fields: 'VLAN ID (1-4092)', 'VLAN Name', and 'Status' with an 'Enabled' checkbox.

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).



The screenshot displays the SMC Networks web management interface. At the top, there is a header with the SMC logo and a status bar showing 'SMC SMC8152L2' and a row of port status indicators (Link Up/Down). Below the header, a navigation tree on the left lists various configuration categories, with 'VLAN' expanded to show '802.1Q VLAN' and 'Static Table' highlighted. The main content area is titled 'VLAN Static Table' and shows configuration for VLAN 1. The 'Name' is set to 'DefaultVlan' and the 'Status' is 'Enabled'. A table below lists ports 1 through 7, with the 'Untagged' column for each port having a selected radio button.

VLAN Static Table

VLAN: 1

Name: DefaultVlan
Status: Enabled

Port	Tagged	Untagged	Forbidden	None	Trunk Member
1	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
2	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
3	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
4	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
5	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
6	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
7	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	

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

The screenshot displays the SMC Networks Web Management Interface. On the left is a navigation tree with categories like SNMP, Security, Port, Address Table, Spanning Tree, and VLAN. Under VLAN, there is a sub-menu for 802.1Q VLAN with options such as GVRP Status, 802.1Q Tunnel Configuration, Basic Information, Current Table, Static List, Static Table, Static Membership by Port, Port Configuration, Trunk Configuration, Tunnel Port Configuration, and Tunnel Trunk Configuration. The main area shows the 'VLAN Static Table' configuration. A table lists ports 1 through 17 with columns for Tagged, Untagged, Forbidden, and None. Ports 1, 2, and 3 have their 'Untagged' radio buttons selected. A dropdown menu is open over the 'VLAN' field, showing options 1, 2, 3, 4, and 4093, with '2' selected. Below the table is another table with columns for Port, Tagged, Untagged, Forbidden, None, and Trunk Member. The 'None' column has radio buttons selected for ports 1, 2, 3, and 4. At the bottom left, there are 'Apply', 'Revert', and 'Help' buttons. The top of the interface shows the SMC logo and a status bar with 'Link Up' and 'Link Down' indicators.

Port	Tagged	Untagged	Forbidden	None
1	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
2	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
3	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
4	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
5	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
6	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
7	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
8	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
9	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
10	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
11	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
12	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
13	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
14	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
15	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
16	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
17	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

Port	Tagged	Untagged	Forbidden	None	Trunk Member
1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	
2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	
3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	
4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	

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](#)

VLAN Static Table

VLAN: 4

Name: vlan4

Status: Enabled

Port	Tagged	Untagged	Forbidden	None	Trunk Member
1	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
2	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	
4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	
5	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	
6	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	
7	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	
8	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	
9	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	
10	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	
11	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	
12	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	
13	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	
14	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	
15	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	
16	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	
17	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	
18	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	
19	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	
20	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	
21	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	
22	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	
23	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
24	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
25	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
26	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
27	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
28	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	

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

The screenshot displays the SMC Networks Web Management Interface. At the top, there is a header with the SMC logo and a network diagram showing a switch with 28 ports. Below the header, a navigation tree on the left shows the configuration path: VLAN > 802.1Q VLAN > Port Configuration. The main content area is titled "VLAN Port Configuration" and contains a table with 7 columns: Port, PVID, Acceptable Frame Type, Ingress Filtering, GVRP Status, GARP Join Timer (Centi Seconds) (20-1000), and GARP Leave Timer (Centi Seconds) (60-3000). The table lists ports 1 through 8, all with PVID 1. The "Ingress Filtering" column has a checked checkbox for "Enabled" for all ports, and the "GVRP Status" column has an unchecked checkbox for "Enabled".

Port	PVID	Acceptable Frame Type	Ingress Filtering	GVRP Status	GARP Join Timer (Centi Seconds) (20-1000)	GARP Leave Timer (Centi Seconds) (60-3000)
1	1	ALL	<input checked="" type="checkbox"/> Enabled	<input type="checkbox"/> Enabled	20	60
2	1	ALL	<input checked="" type="checkbox"/> Enabled	<input type="checkbox"/> Enabled	20	60
3	1	ALL	<input checked="" type="checkbox"/> Enabled	<input type="checkbox"/> Enabled	20	60
4	1	ALL	<input checked="" type="checkbox"/> Enabled	<input type="checkbox"/> Enabled	20	60
5	1	ALL	<input checked="" type="checkbox"/> Enabled	<input type="checkbox"/> Enabled	20	60
6	1	ALL	<input checked="" type="checkbox"/> Enabled	<input type="checkbox"/> Enabled	20	60
7	1	ALL	<input checked="" type="checkbox"/> Enabled	<input type="checkbox"/> Enabled	20	60
8	1	ALL	<input checked="" type="checkbox"/> Enabled	<input type="checkbox"/> Enabled	20	60

At the bottom of the interface, there are buttons for "Apply", "Revert", and "Help".

Configuration using Web Management Interface

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

SMC Networks SMC6152L2

- Link Up - Link Down

- SNMP
- Security
- Port
- Address Table
- Spanning Tree
- VLAN
 - 802.1Q VLAN
 - GVRP Status
 - 802.1Q Tunnel Configuration
 - Basic Information
 - Current Table
 - Static List
 - Static Table
 - Static Membership by Port
 - Port Configuration
 - Trunk Configuration
 - Tunnel Port Configuration
 - Tunnel Trunk Configuration
 - Private VLAN
 - Protocol VLAN
- LLDP

Apply Revert Help

					(20-1000)	(60-3000)	(500-18000)
1	1	ALL	<input checked="" type="checkbox"/> Enabled	<input type="checkbox"/> Enabled	20	60	1000
2	1	ALL	<input checked="" type="checkbox"/> Enabled	<input type="checkbox"/> Enabled	20	60	1000
3	2	ALL	<input checked="" type="checkbox"/> Enabled	<input type="checkbox"/> Enabled	20	60	1000
4	2	ALL	<input checked="" type="checkbox"/> Enabled	<input type="checkbox"/> Enabled	20	60	1000
5	2	ALL	<input checked="" type="checkbox"/> Enabled	<input type="checkbox"/> Enabled	20	60	1000
6	2	ALL	<input checked="" type="checkbox"/> Enabled	<input type="checkbox"/> Enabled	20	60	1000
7	2	ALL	<input checked="" type="checkbox"/> Enabled	<input type="checkbox"/> Enabled	20	60	1000
8	2	ALL	<input checked="" type="checkbox"/> Enabled	<input type="checkbox"/> Enabled	20	60	1000
9	2	ALL	<input checked="" type="checkbox"/> Enabled	<input type="checkbox"/> Enabled	20	60	1000
10	2	ALL	<input checked="" type="checkbox"/> Enabled	<input type="checkbox"/> Enabled	20	60	1000
11	2	ALL	<input checked="" type="checkbox"/> Enabled	<input type="checkbox"/> Enabled	20	60	1000
12	2	ALL	<input checked="" type="checkbox"/> Enabled	<input type="checkbox"/> Enabled	20	60	1000
13	3	ALL	<input checked="" type="checkbox"/> Enabled	<input type="checkbox"/> Enabled	20	60	1000
14	3	ALL	<input checked="" type="checkbox"/> Enabled	<input type="checkbox"/> Enabled	20	60	1000

Configuration using Web Management Interface

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

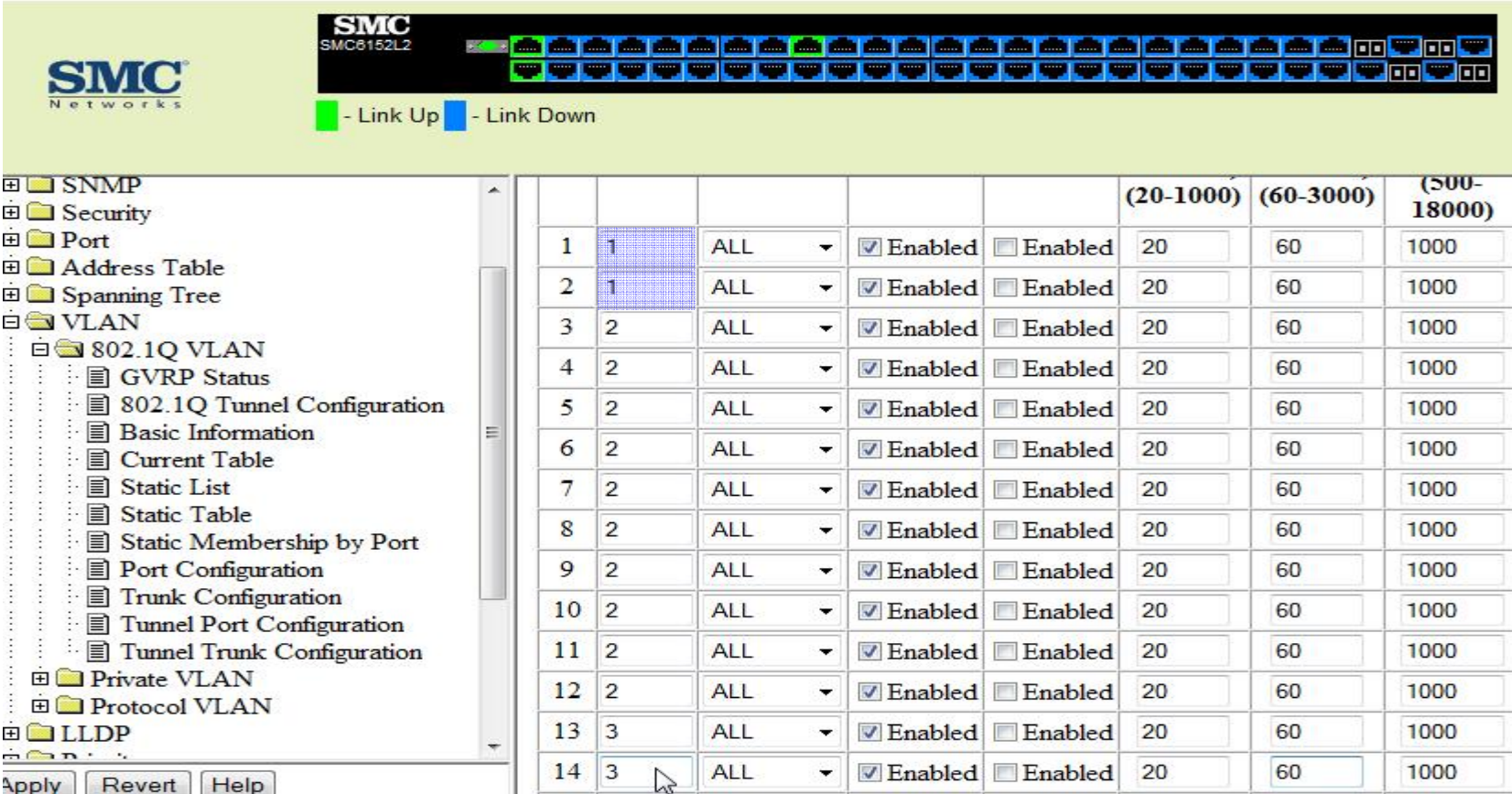
The screenshot displays the SMC Networks web management interface. The top header shows the SMC Networks logo and a status bar with a legend: a green square for '- Link Up' and a blue square for '- Link Down'. Below the header is a navigation tree on the left side, with 'VLAN' expanded to show '802.1Q VLAN' and its sub-items: 'GVRP Status', '802.1Q Tunnel Configuration', 'Basic Information', 'Current Table', 'Static List', 'Static Table', 'Static Membership by Port', 'Port Configuration', 'Trunk Configuration', 'Tunnel Port Configuration', and 'Tunnel Trunk Configuration'. The main content area on the right is a table with 9 columns and 15 rows of data. The table is as follows:

12	2	ALL	<input checked="" type="checkbox"/> Enabled	<input type="checkbox"/> Enabled	20	60	1000
13	3	ALL	<input checked="" type="checkbox"/> Enabled	<input type="checkbox"/> Enabled	20	60	1000
14	3	ALL	<input checked="" type="checkbox"/> Enabled	<input type="checkbox"/> Enabled	20	60	1000
15	3	ALL	<input checked="" type="checkbox"/> Enabled	<input type="checkbox"/> Enabled	20	60	1000
16	3	ALL	<input checked="" type="checkbox"/> Enabled	<input type="checkbox"/> Enabled	20	60	1000
17	3	ALL	<input checked="" type="checkbox"/> Enabled	<input type="checkbox"/> Enabled	20	60	1000
18	3	ALL	<input checked="" type="checkbox"/> Enabled	<input type="checkbox"/> Enabled	20	60	1000
19	3	ALL	<input checked="" type="checkbox"/> Enabled	<input type="checkbox"/> Enabled	20	60	1000
20	3	ALL	<input checked="" type="checkbox"/> Enabled	<input type="checkbox"/> Enabled	20	60	1000
21	3	ALL	<input checked="" type="checkbox"/> Enabled	<input type="checkbox"/> Enabled	20	60	1000
22	3	ALL	<input checked="" type="checkbox"/> Enabled	<input type="checkbox"/> Enabled	20	60	1000
23	4	ALL	<input checked="" type="checkbox"/> Enabled	<input type="checkbox"/> Enabled	20	60	1000
24	4	ALL	<input checked="" type="checkbox"/> Enabled	<input type="checkbox"/> Enabled	20	60	1000
25	4	ALL	<input checked="" type="checkbox"/> Enabled	<input type="checkbox"/> Enabled	20	60	1000
26	4	ALL	<input checked="" type="checkbox"/> Enabled	<input type="checkbox"/> Enabled	20	60	1000

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.



The screenshot displays the SMC Networks web management interface for an SMC8152L2 switch. The top section shows a physical port layout with a legend: a green square for 'Link Up' and a blue square for 'Link Down'. Below this is a navigation tree on the left with 'VLAN' expanded to '802.1Q VLAN', and 'Port Configuration' selected. The main area is a table for configuring 14 ports.

					(20-1000)	(60-3000)	(500-18000)
1	1	ALL	<input checked="" type="checkbox"/> Enabled	<input type="checkbox"/> Enabled	20	60	1000
2	1	ALL	<input checked="" type="checkbox"/> Enabled	<input type="checkbox"/> Enabled	20	60	1000
3	2	ALL	<input checked="" type="checkbox"/> Enabled	<input type="checkbox"/> Enabled	20	60	1000
4	2	ALL	<input checked="" type="checkbox"/> Enabled	<input type="checkbox"/> Enabled	20	60	1000
5	2	ALL	<input checked="" type="checkbox"/> Enabled	<input type="checkbox"/> Enabled	20	60	1000
6	2	ALL	<input checked="" type="checkbox"/> Enabled	<input type="checkbox"/> Enabled	20	60	1000
7	2	ALL	<input checked="" type="checkbox"/> Enabled	<input type="checkbox"/> Enabled	20	60	1000
8	2	ALL	<input checked="" type="checkbox"/> Enabled	<input type="checkbox"/> Enabled	20	60	1000
9	2	ALL	<input checked="" type="checkbox"/> Enabled	<input type="checkbox"/> Enabled	20	60	1000
10	2	ALL	<input checked="" type="checkbox"/> Enabled	<input type="checkbox"/> Enabled	20	60	1000
11	2	ALL	<input checked="" type="checkbox"/> Enabled	<input type="checkbox"/> Enabled	20	60	1000
12	2	ALL	<input checked="" type="checkbox"/> Enabled	<input type="checkbox"/> Enabled	20	60	1000
13	3	ALL	<input checked="" type="checkbox"/> Enabled	<input type="checkbox"/> Enabled	20	60	1000
14	3	ALL	<input checked="" type="checkbox"/> Enabled	<input type="checkbox"/> Enabled	20	60	1000

At the bottom of the interface, there are buttons for 'Apply', 'Revert', and 'Help'.

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.