

## I. Serial Console Settings

Filtering Aggregating Balancer (FAB) administrators may gain access to the command line interface environment using a serial terminal emulator console using the settings below:

Bits per second: 115200  
Data bits: 8  
Parity: None  
Stop: 1  
Flow Control: None

## II. Login Credentials

The "root" account grants full access and permission to a device. The default password for root is "gtroot1". Administrators may also create additional accounts using the following commands:

```
cmd# configure terminal
cmd(config)# username <user> password <password>
```

## III. Terminal Modes

The FAB allows different modes or levels when configuring each device:

**device#** | Login as root will allow users to be able access the configuration of a device

**device(config)#** | Execute 'configure terminal' to access the global configuration of a device

**device(config-if)#** | From the global configuration, execute 'interface <interface type><interface ID>' will allow users to do interface specific configurations

**device(config)# configuration map (1-4000)** | From the global configuration, allows users to create port configuration maps via command line interface. Query command options using **help** or ?

## IV. IP Management Interface

FAB system administrators may change the management port's default IP address 10.10.10.200 with the following commands:

```
cmd# configure terminal
cmd(config)# interface cpu0
cmd(config-if)# ip address <ip_addr> <subnet_mask>
```

FAB system administrators may set the gateway IP using the following commands:

```
cmd# configure terminal
cmdt(config)# ip route 0.0.0.0 0.0.0.0 <gateway_ip>
```

Troubleshooting a "No OOB port exists" error:

```
cmd# erase startup-config
cmd# erase nvram
cmd# reload
```

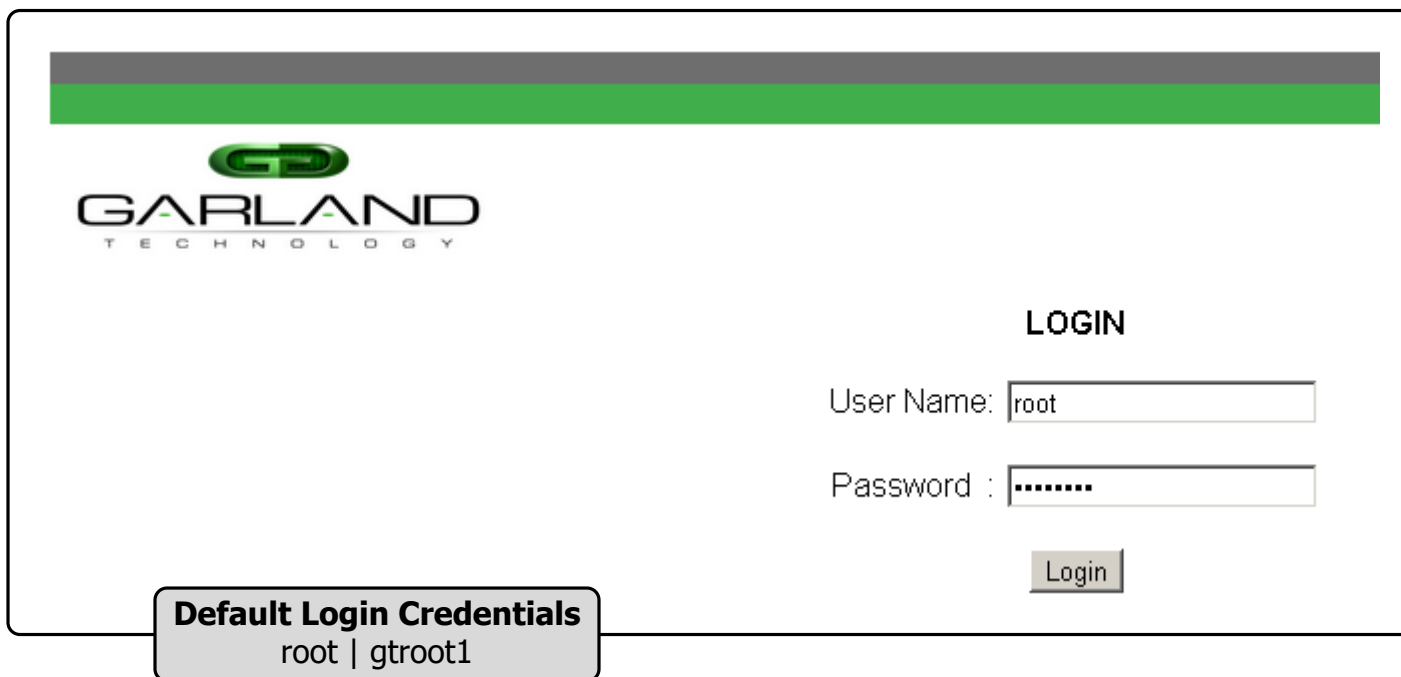
## V. Web Interface Login

FAB system administrators may choose to configure and manage devices via web or graphical user interface. After setting the management port's IP address, you will then be able to access the graphical user interface using a normal web browser application. Simply browse to your devices assigned IP address and login using the credentials below:

Http://<ip\_addr>  
Username: root  
Password: gtroot1

**\*For product support and inquiries visit: [www.garlandtechnology.com](http://www.garlandtechnology.com)**

## Web Interface Orientation



**LOGIN**

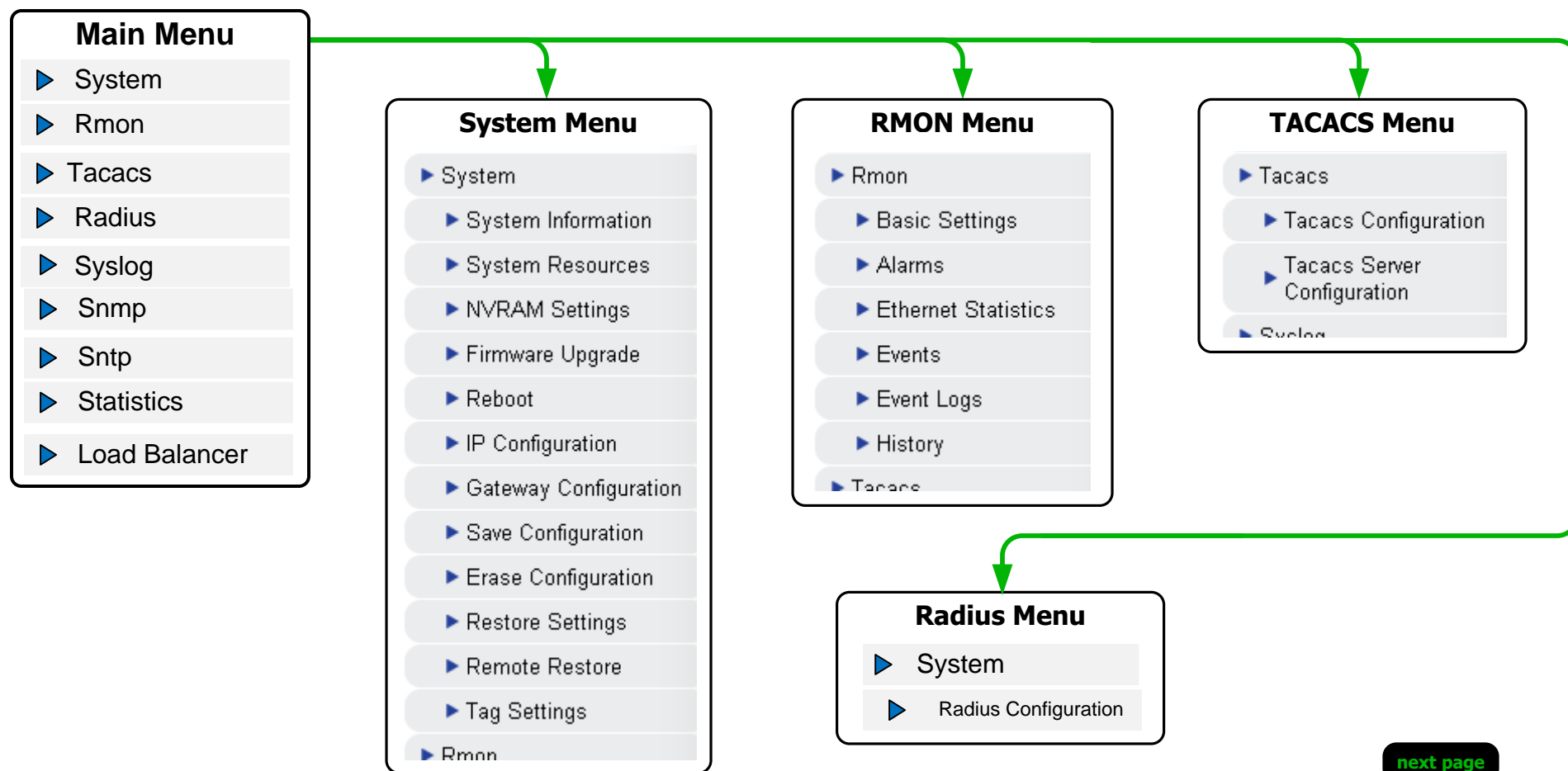
User Name:

Password :

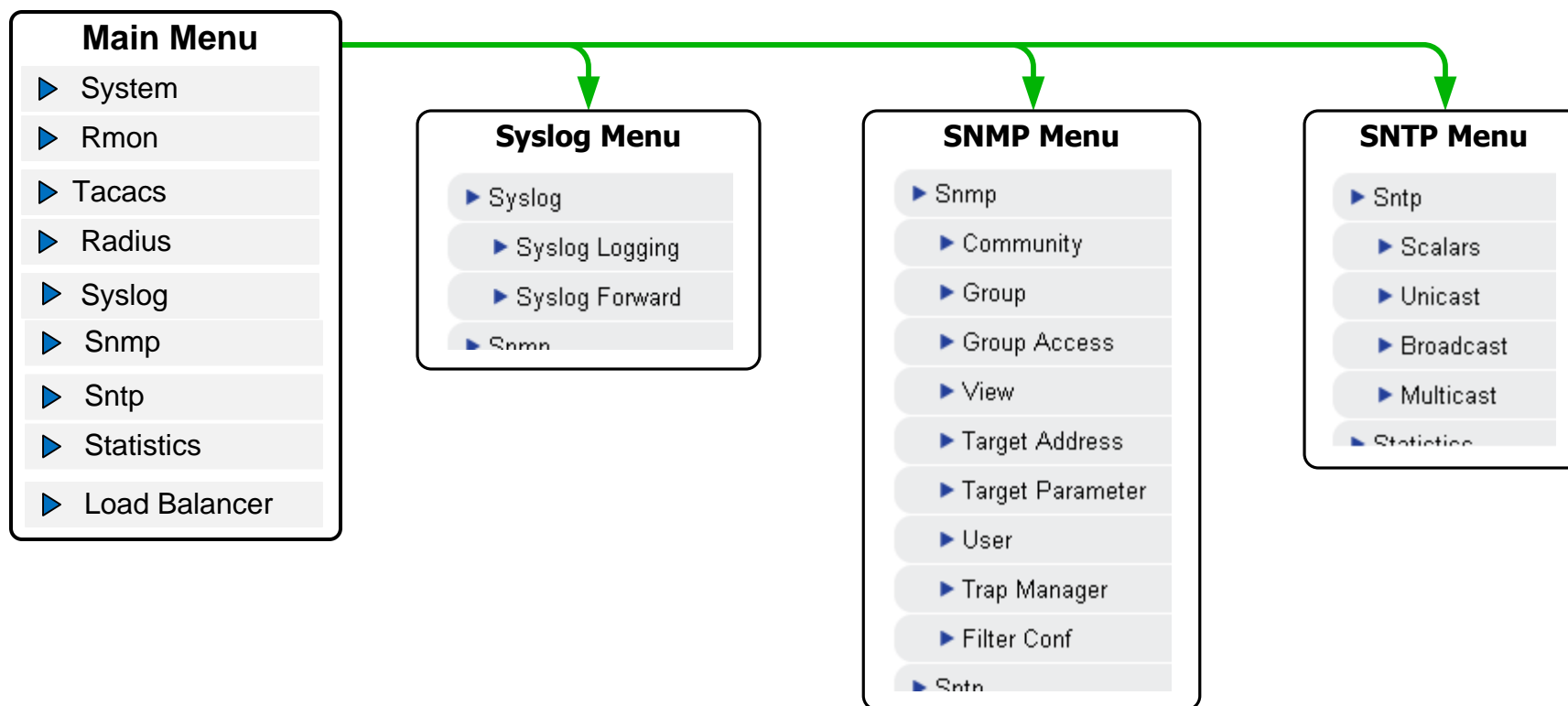
Login

**Default Login Credentials**  
root | gtrout1

## Web Interface Orientation

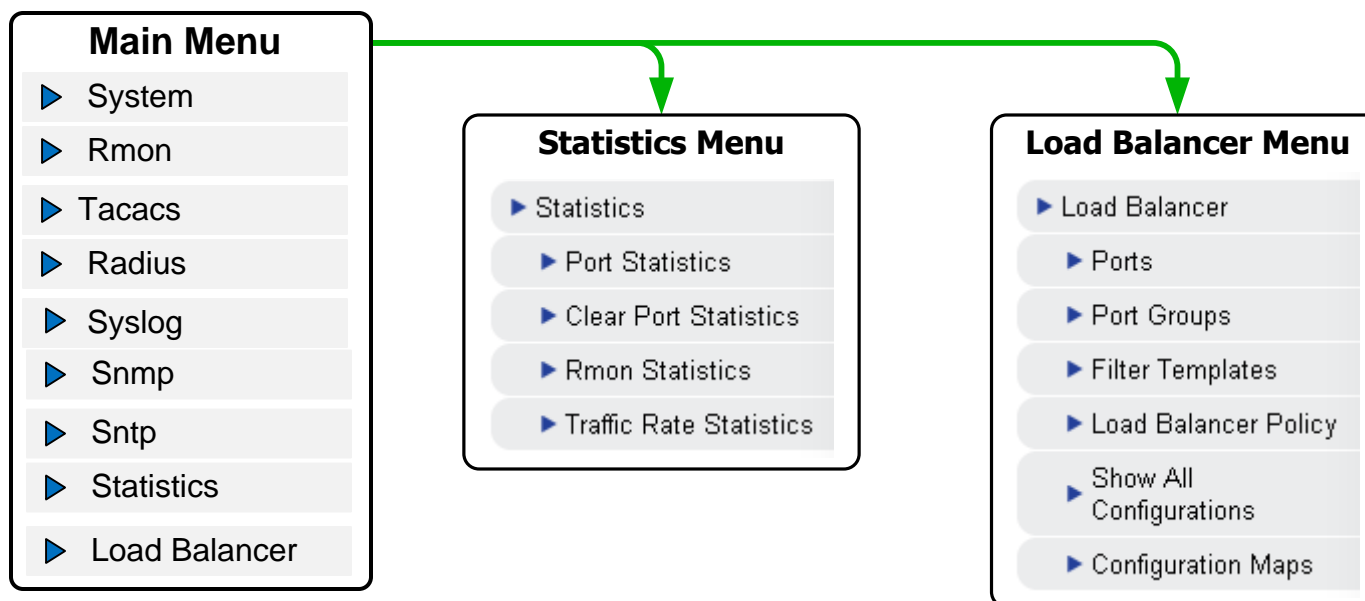


## Web Interface Orientation



[next page](#)

## Web Interface Orientation































## Web Interface Orientation

### System Type

- ▶ System
- ▶ Rmon
- ▶ Tacacs
- ▶ Radius
- ▶ Syslog
- ▶ Snmp
- ▶ Sntp
- ▶ Statistics
- ▶ Load Balancer
- ▶ Ports**
- ▶ Port Groups
- ▶ Filter Templates
- ▶ Load Balancer Policy
- ▶ Show All Configurations
- ▶ Configuration Maps

### Port List

Polling 5 sec

	name	description	ID	status	link status	speed	force mode
	P1	Physical Port	1	 enabled		10 Gbps	 disabled
	P2	Physical Port	2	 enabled		10 Gbps	 disabled
	P3	Physical Port	3	 enabled		10 Gbps	 disabled
	P4	Physical Port	4	 enabled		10 Gbps	 disabled
	P5	Physical Port	5	 enabled		10 Gbps	 disabled
	P6	Physical Port	6	 enabled		10 Gbps	 disabled
	P7	Physical Port	7	 enabled		10 Gbps	 disabled



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### Port Groups

New Edit Delete

	name	description	type	ports in group	parameters
	PO25	Enter description here	port channel	1, 12, 16	-
	PO26	Enter description here	port channel	10, 15, 20	-






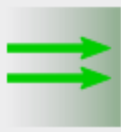
## Web Interface Orientation

### System Type

- ▶ System
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- ▶ Sntp
- ▶ Statistics
- ▶ Load Balancer
  - ▶ Ports
  - ▶ Port Groups
  - ▶ **Filter Templates**
  - ▶ Load Balancer Policy
- ▶ Show All Configurations
- ▶ Configuration Maps

### Filter Templates

New Edit Delete

	name	description
	filter	Pass by criteria
	filter	Deny by criteria
	filter	Pass all filter
	filter	Deny all filter

## Web Interface Orientation

### System Type

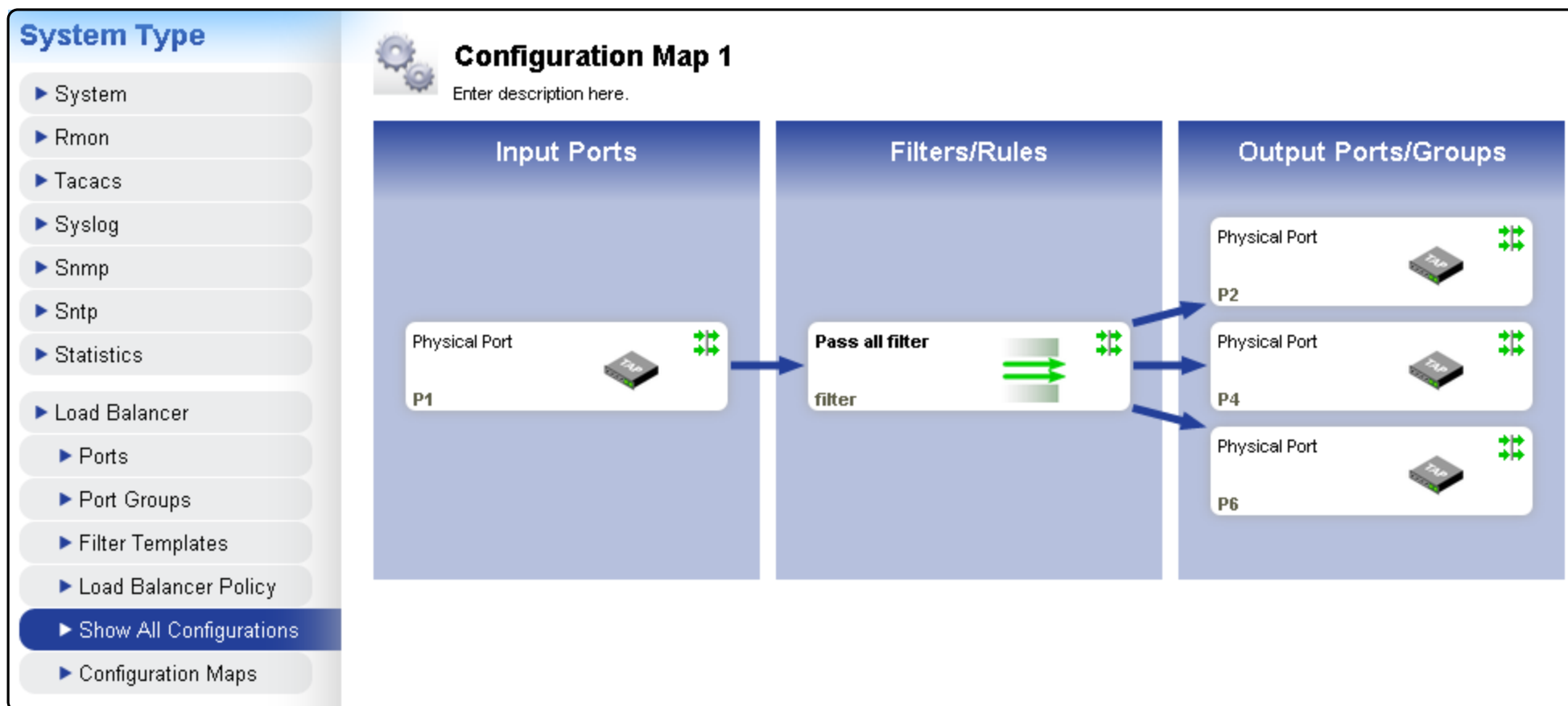
- ▶ System
- ▶ Rmon
- ▶ Tacacs
- ▶ Radius
- ▶ Syslog
- ▶ Snmp
- ▶ Sntp
- ▶ Statistics
- ▶ Load Balancer
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  - ▶ Port Groups
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  - ▶ Show All Configurations
  - ▶ Configuration Maps

### LA Load Balancing Policy

Select	Hash Index Type	Selection Policy		
<input checked="" type="radio"/>	XOR Based	<input type="checkbox"/> MAC Source <input type="checkbox"/> MAC Destination <input checked="" type="checkbox"/> IP Source <input checked="" type="radio"/> Byte0-Byte2 <input type="radio"/> Byte1-Byte3 <input checked="" type="checkbox"/> IP Destination <input type="radio"/> Byte0-Byte2 <input checked="" type="radio"/> Byte1-Byte3	<input checked="" type="checkbox"/> MPLS Label 0 <input type="checkbox"/> MPLS Label 1 <input type="checkbox"/> MPLS Label 2	<input type="checkbox"/> Ipv6 Destination <input type="checkbox"/> Ipv6 Source <input checked="" type="checkbox"/> Source L4 Port <input checked="" type="checkbox"/> Destination L4 Port
<input type="radio"/>	CRC Based	<input type="text" value="Enter the seed value"/>		
<input type="radio"/>	CRC-16 Based	<input type="text" value="Enter the seed value"/>		

Apply

## Web Interface Orientation





## Web Interface Orientation

### System Type


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- ▶ Configuration Maps

### Configuration Maps

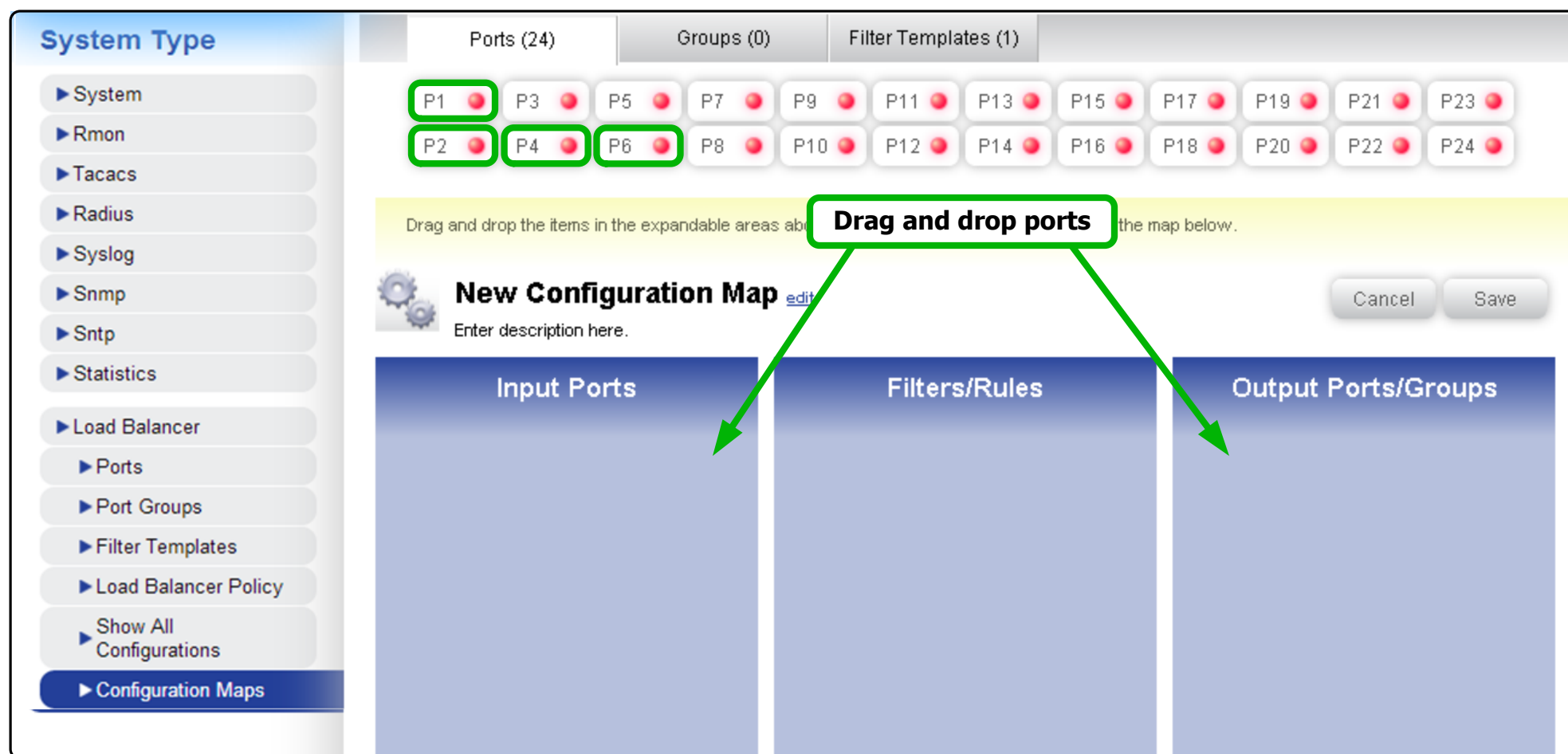
Show All
New
Edit
Delete
Set Priorities

	name	date created	status	priority	packet matched count
	<a href="#">Configuration Map 1</a>	2011-06-26T23:26:57.096Z	 enabled	<div>▲</div> <div>2998</div> <div>▼</div>	0

Configure a new map



## Web Interface Configuration



**System Type**

- System
- Rmon
- Tacacs
- Radius
- Syslog
- Snmp
- Sntp
- Statistics
- Load Balancer
  - Ports
  - Port Groups
  - Filter Templates
  - Load Balancer Policy
  - Show All Configurations
- Configuration Maps**

**Ports (24)** **Groups (0)** **Filter Templates (1)**

P1 P3 P5 P7 P9 P11 P13 P15 P17 P19 P21 P23  
P2 P4 P6 P8 P10 P12 P14 P16 P18 P20 P22 P24

Drag and drop the items in the expandable areas above the map below.

**New Configuration Map** [edit](#)

Enter description here.

**Input Ports** **Filters/Rules** **Output Ports/Groups**

**Drag and drop ports**

Cancel Save

## Web Interface Configuration

### System Type

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Ports (24)
Groups (0)
Filter Templates (1)

P1 P3 P5 P7 P9 P11 P13 P15 P17 P19 P21 P23

P2 P4 P6 P8 P10 P12 P14 P16 P18 P20 P22 P24

Drag and drop the items in the expandable areas above to create connections and groups in the map below.

### New Configuration Map

Enter description here.

Drag and drop filters

Input Ports

Physical Port  
P1  
remove | edit | statistic

Filters/Rules

Output Ports/Groups

Physical Port  
P2  
remove | edit | statistic

Physical Port  
P4  
remove | edit | statistic

Physical Port  
P6  
remove | edit | statistic

Cancel Save

## Web Interface Configuration

### System Type

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- ▶ Show All Configurations
- ▶ Configuration Maps

Ports (24) Groups (0) Filter Templates (1)

Default

Drag and drop the items and groups in the map below.

[done](#)

Cancel

Save

Input Ports

Physical Port  
P1  
remove | edit | statistic

Filters/Rules

Pass all filter  
filter  
remove | edit | statistic

Output Ports/Groups

Physical Port  
P2  
remove | edit | statistic

Physical Port  
P4  
remove | edit | statistic

Physical Port  
P6  
remove | edit | statistic

## Web Interface Configuration


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- ▶ Load Balancer Policy
- ▶ Show All Configurations
- ▶ Configuration Maps

Ports (24) | Groups (0) | Filter Templates (1)

Default

Drag and drop the items in the expandable areas above to create connections and groups in the map below.


 [done](#)

Cancel

Save

#### Input Ports

Physical Port  
P1  
remove | edit | statistic

#### Filters/Rules

Pass all filter  
filter  
remove | **edit** | statistic

Edit the filter

#### Output Ports/Groups

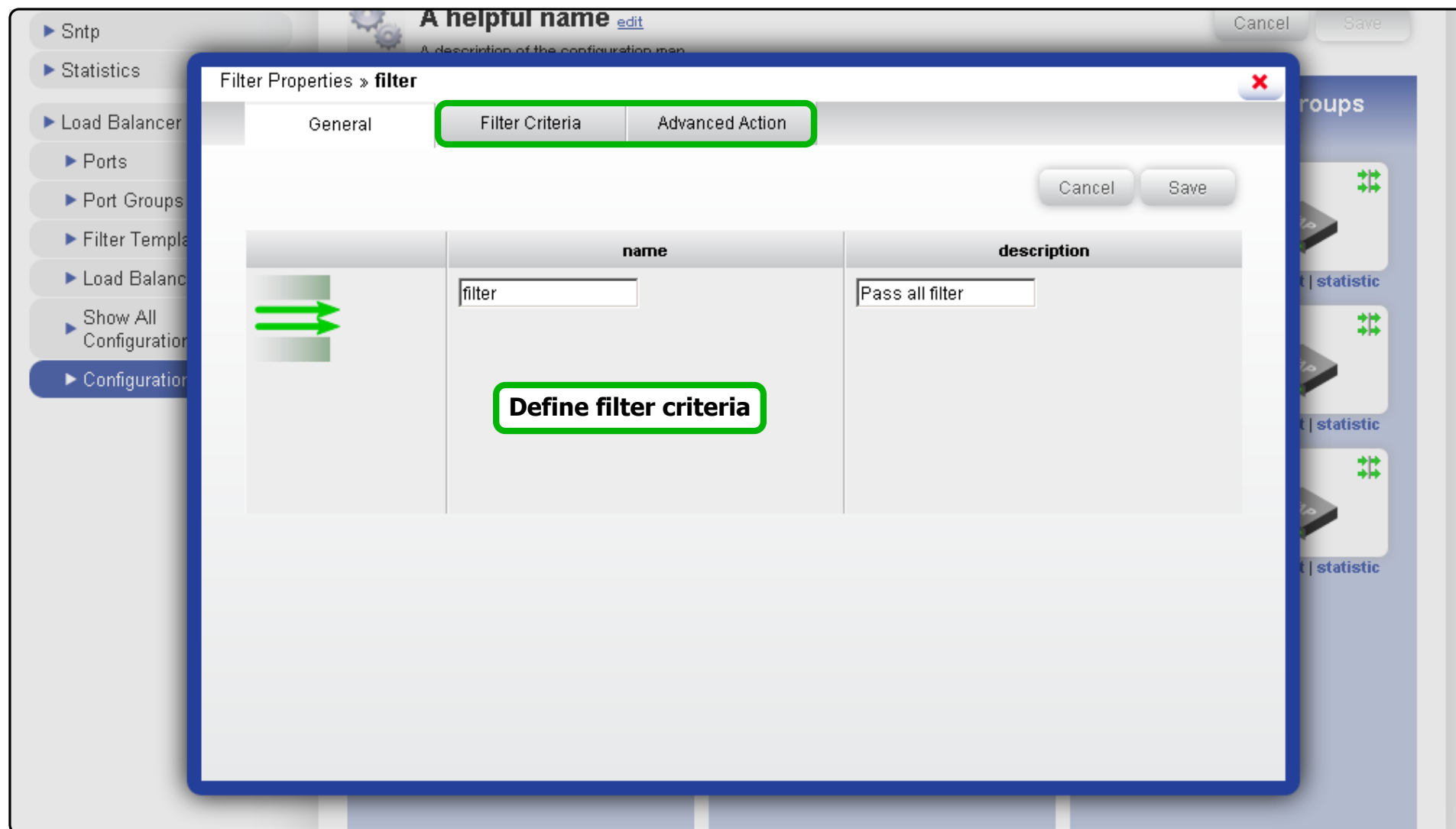
Physical Port  
P2  
remove | edit | statistic

Physical Port  
P4  
remove | edit | statistic

Physical Port  
P6  
remove | edit | statistic



## Web Interface Configuration



The screenshot shows the 'Filter Properties' dialog box for a filter named 'filter'. The dialog has two tabs: 'General' and 'Filter Criteria'. The 'Filter Criteria' tab is selected and highlighted with a green box. The 'General' tab contains a 'name' field with the value 'filter' and a 'description' field with the value 'Pass all filter'. The 'Filter Criteria' tab is empty. A green box with the text 'Define filter criteria' is overlaid on the 'Filter Criteria' tab. The background shows the main configuration interface with a sidebar on the left containing a tree view with items like 'Sntp', 'Statistics', 'Load Balancer', 'Ports', 'Port Groups', 'Filter Template', 'Load Balance', 'Show All Configuration', and 'Configuration'. The main area has a title 'A helpful name' and a description 'A description of the configuration map'. There are 'Cancel' and 'Save' buttons at the top right of the main area.

**Filter Properties » filter**

General **Filter Criteria** Advanced Action

Cancel Save

name	description
filter	Pass all filter

**Define filter criteria**

## Web Interface Configuration

**Filter Properties » filter**

General | **Filter Criteria** | Advanced Action

**filter mode**

- ☐ Pass All
- ☐ Deny All
- ☒ Pass by criteria
- ☐ Deny by criteria

**criteria type**

- ☒ Layer 2
- ☐ Layer 3/4 (IPv4)
- ☐ IPv6
- ☐ UDB

**Advanced Action**

Source MAC: 00:00:00:00:00:00

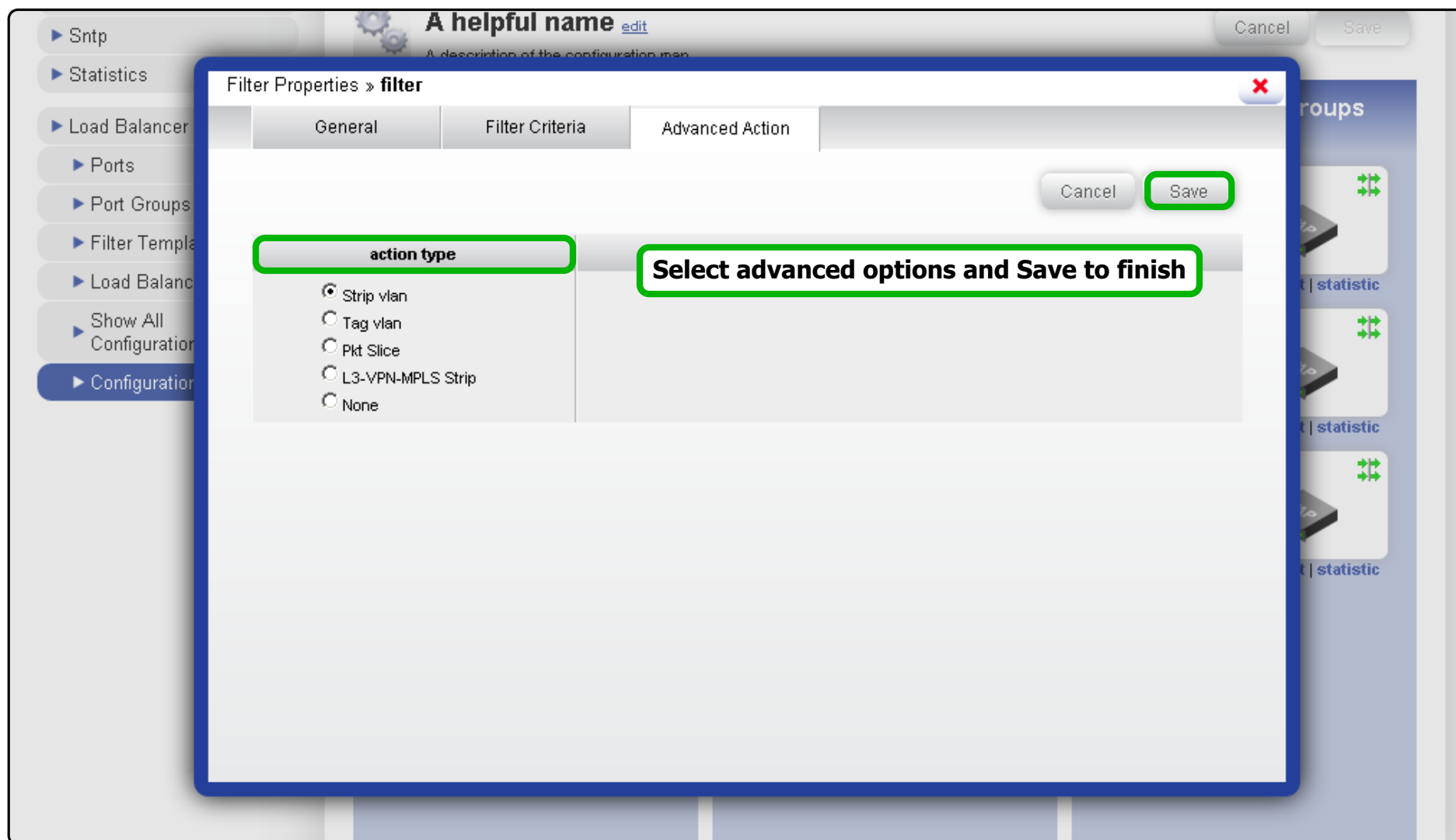
Destination MAC: 00:00:00:00:00:00

Ethernet Type: 0x0

Vlan Id: 0

**Select options**

## Web Interface Configuration



## Web Interface Configuration

**System Type**

- ▶ System
  - ▶ System Information
  - ▶ System Resources
  - ▶ NVRAM Settings
  - ▶ Firmware Upgrade
  - ▶ Reboot
  - ▶ IP Configuration
  - ▶ Gateway Configuration
  - ▶ **Save Configuration**
  - ▶ Erase Configuration
  - ▶ Restore Settings
  - ▶ Remote Restore
  - ▶ Tag Settings

**Save configuration**

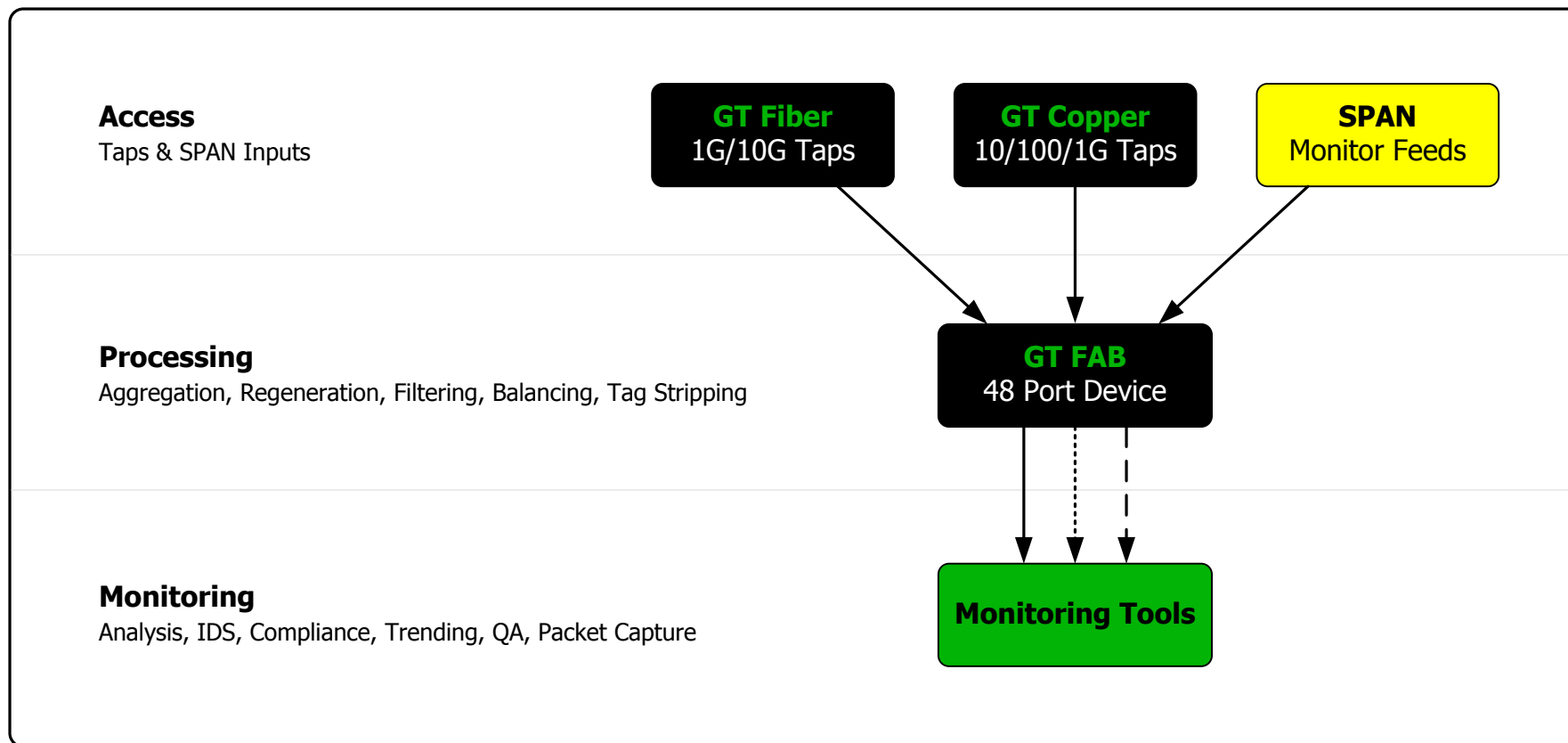
This page will save the current configuration into file present on Flash or on Remote TFTP Server.  
For Restoration using the Saved Configuration Please make sure that Restore Settings are set properly.

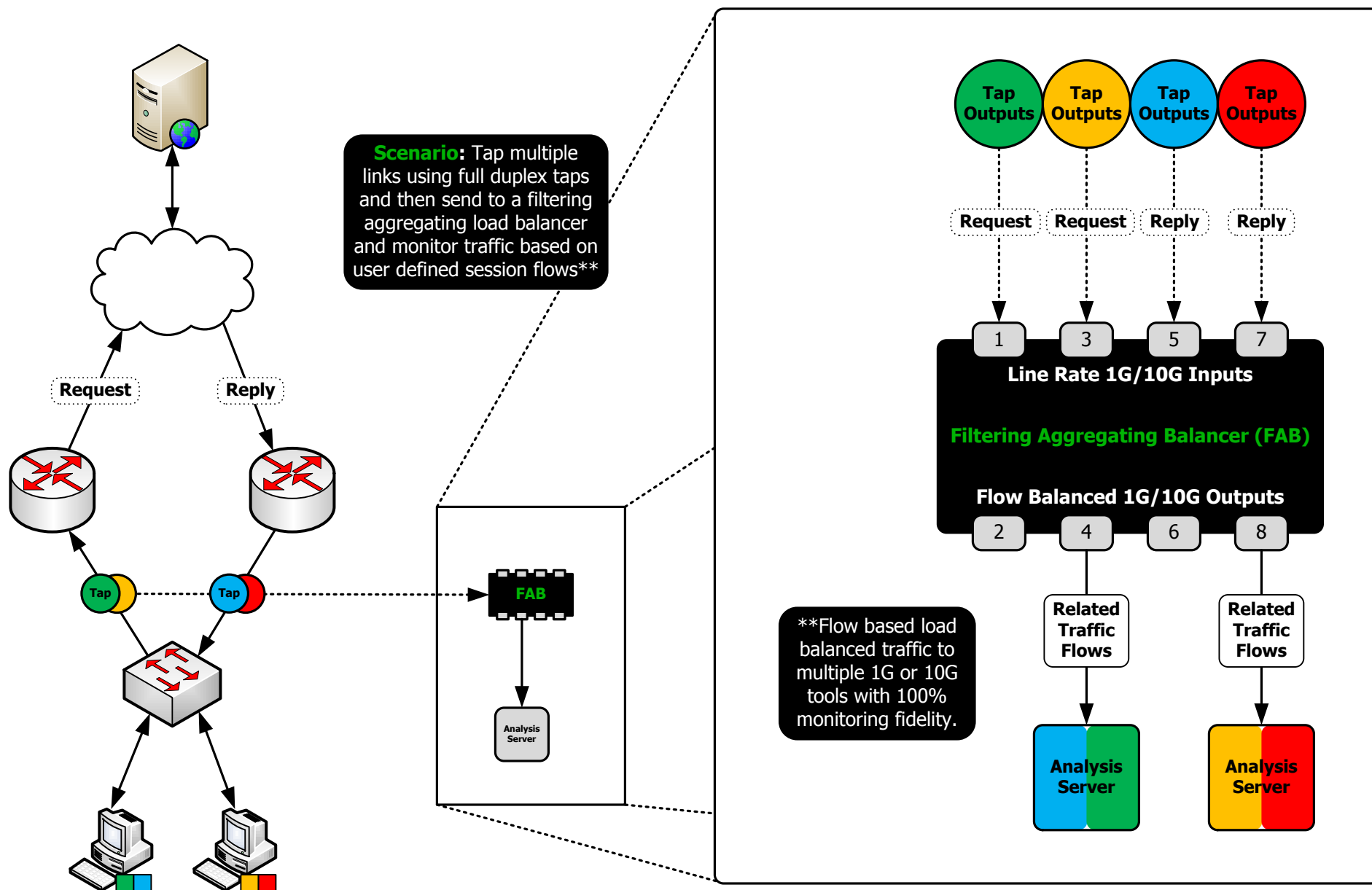
Save option	<input checked="" type="radio"/> Flash Save <input type="radio"/> Remote Save
Transfer Mode	TFTP
Address Type	IPv4
IP Address	0.0.0.0
File Name	iss.conf

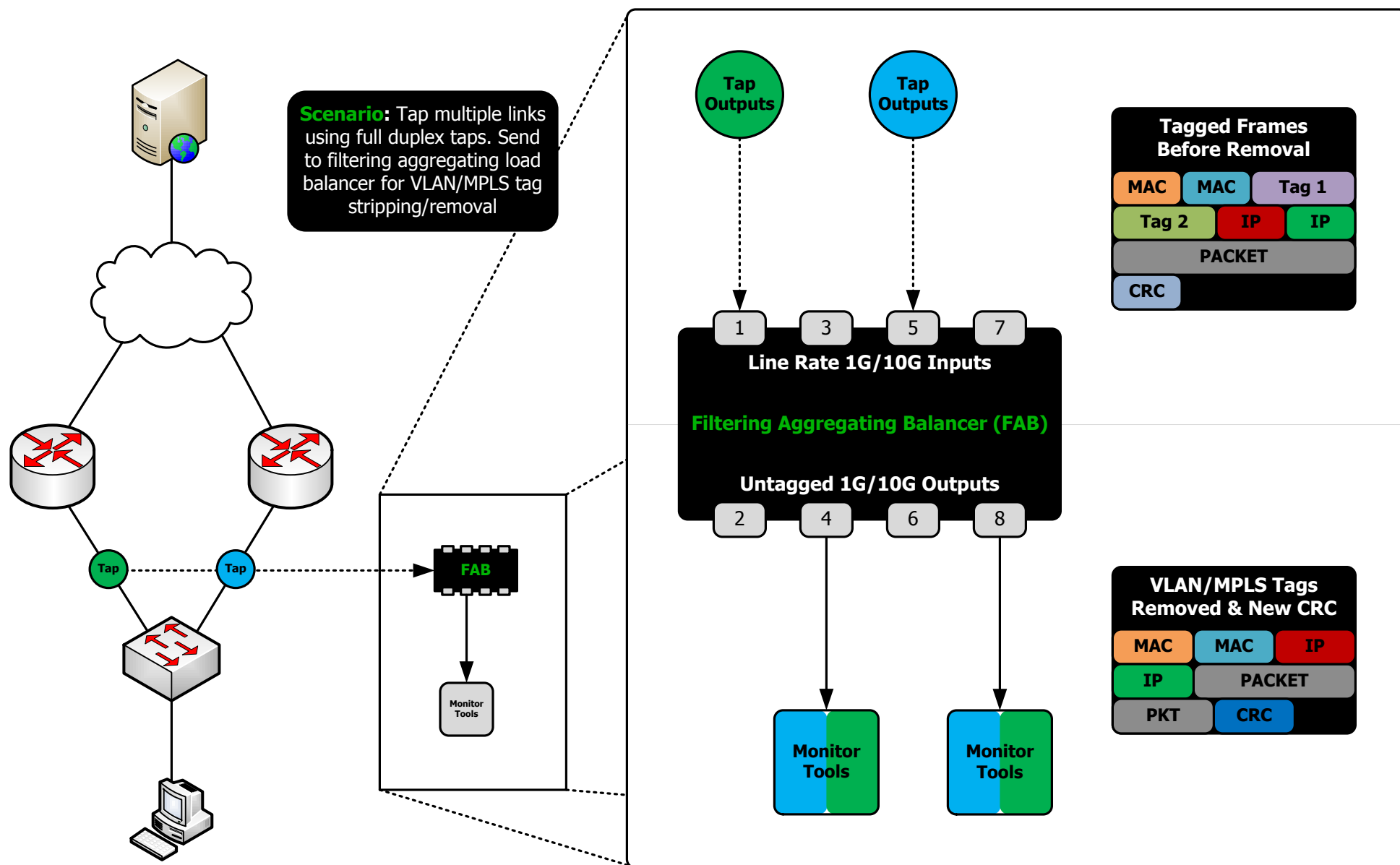
ApplyReset

**Save configuration to complete setup**

## System Deployment Scenario







## Main Menu

- ▶ System
- ▶ Rmon
- ▶ Tacacs
- ▶ Radius
- ▶ Syslog
- ▶ Snmp
- ▶ Sntp
- ▶ Statistics
- ▶ Load Balancer