

Dell™ PowerConnect™ 3024, 3048, and 5012 Network Switches

Addendum to the 3024, 3048, and 5012 User's Guides



Notes, Notices, and Cautions

 **NOTE:** A NOTE indicates important information that helps you make better use of your computer.

 **NOTICE:** A NOTICE indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

 **CAUTION: A CAUTION indicates a potential for property damage, personal injury, or death.**

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September 2002 P/N 9X417 Rev. A00

Addendum to the 3024, 3048, and 5012 User's Guides

New Features:

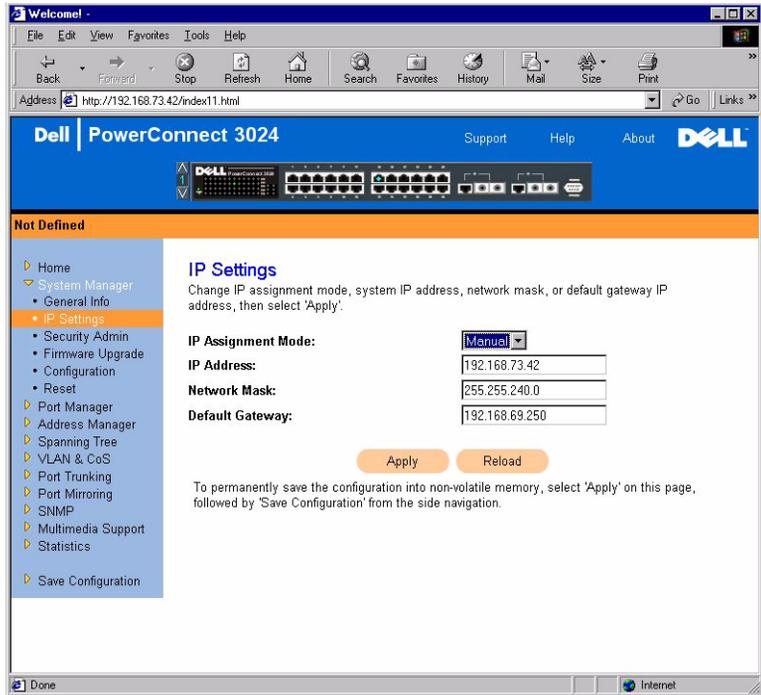
- IP Assignment Mode
- SNMP Host Authorization Table
- User Authentication Mode — RADIUS Server IP Address, RADIUS Shared Secret, IP Filtering, and Allowed IP Addresses
- Layer 3 Priority — DiffServ
- Configuration File Management
- Enhanced Security Administration
- More Statistics/Utilization Summary

 **NOTE:** The features described in this section apply to both the Web interface and the console interface for your switch.

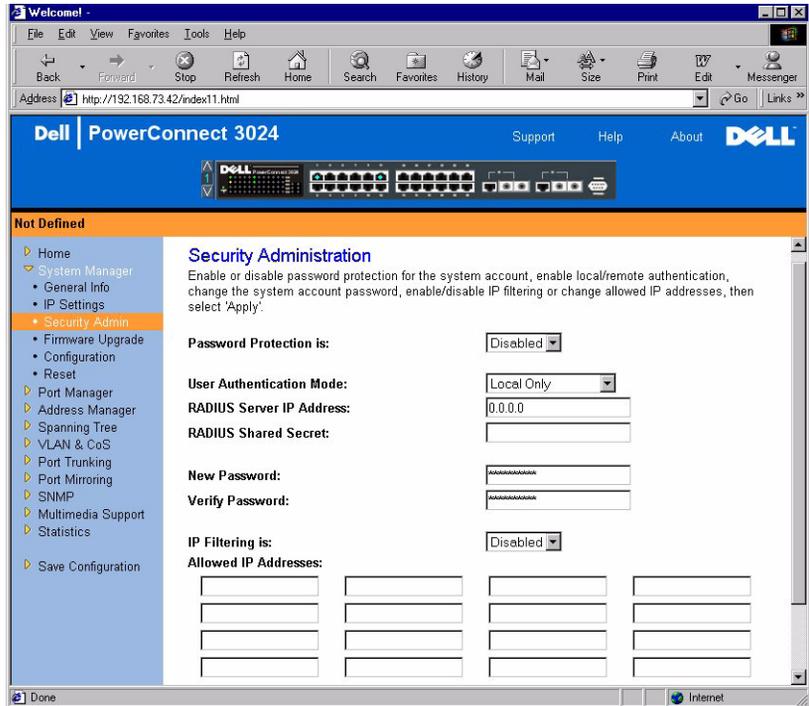
 **NOTE:** The graphics in this section may differ slightly from the graphics on your computer.

System Manager/IP Settings:

- **IP Assignment Mode** — Sets whether IP functionality is enabled through manual (static) configuration or set by Dynamic Host Configuration Protocol (DHCP) or Boot Protocol (BootP).
 - **Manual** — Sets static IP address.
 - **BootP** — Gets IP address from a BootP server.
 - **DHCP** — Gets IP address from a DHCP server.



- **Allowed IP Addresses** — You can enter up to 16 IP addresses in the Allowed IP Address table.
- **Disable Telnet/Web Access (Console Only)** — Provides an option to enable or disable Telnet or Web access to the switch.



```
Tera Term - COM2 VT
File Edit Setup Control Window Help

PowerConnect 3024RA
System Manager/Security Admin

Telnet Access is: Enabled
Web Access is: Enabled

Password Protection is: Disabled
User Authentication Mode: Local Only
RADIUS Server IP Address: 0.0.0.0
RADIUS Shared Secret:

New Password:
Verify Password:

IP Filtering: More...

-----
Hit <Space> to Enable or Disable Telnet Access
<ESC> Back <Ctrl-L> Refresh <Ctrl-W> Save
```

```
Tera Term - 192.168.73.42 VT
File Edit Setup Control Window Help

PowerConnect 3024RA
System Manager/Security Admin/IP Filtering

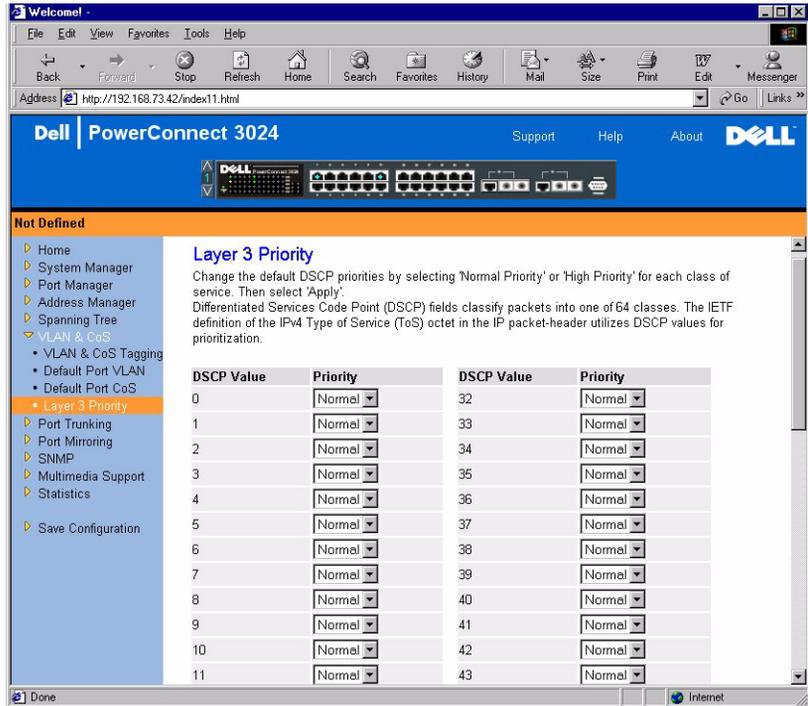
IP Filtering is: Disabled
Allowed IP Addresses
1.1.1.1
2.2.2.2
_____

-----
Enter IP address that is allowed switch access.
<ESC> Back <Ctrl-X> Delete Row <Ctrl-L> Refresh <Ctrl-W> Save
```

Layer 3 Priority — DiffServ:

- DiffServ — You can change the default ToS priority by selecting **Normal Priority** or **High Priority** for each class of services. This setting leverages the IETF definition of the IPv4 Type of Service (ToS) octet in the IP packet-header by using the Differentiated Services Code.

- Point (DSCP) field(6 bits) classifies packets into any of the 64 possible classes.



Dell PowerConnect 3024 Support Help About **DELL**

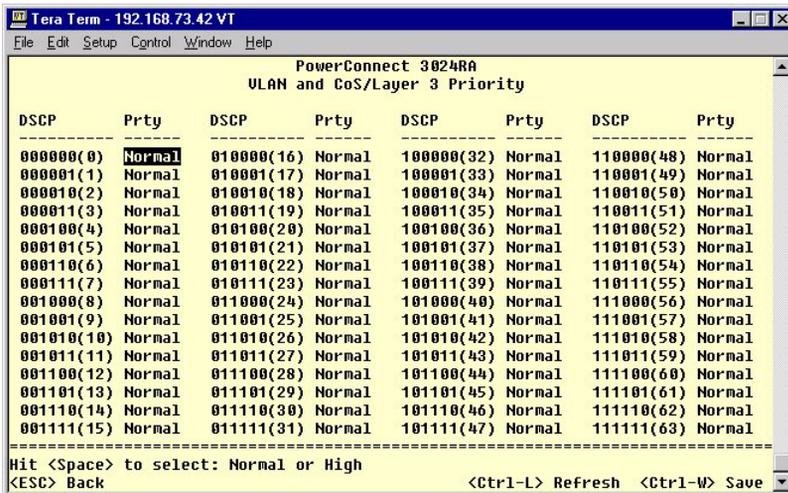
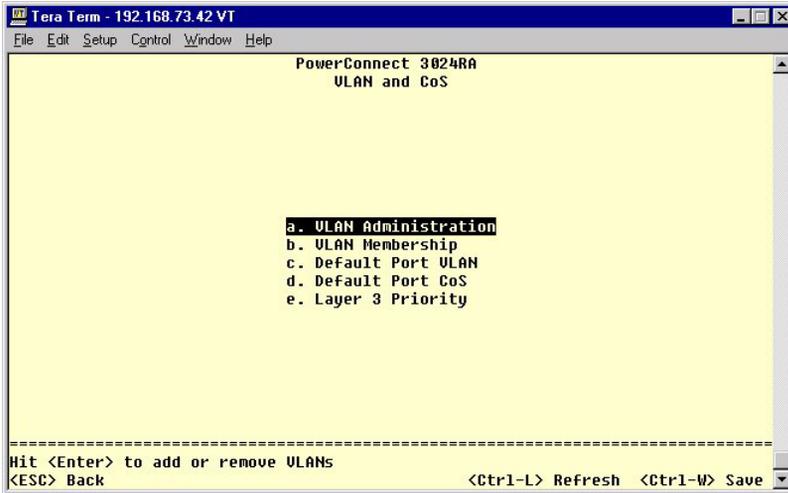
Not Defined

- Home
- System Manager
- Port Manager
- Address Manager
- Spanning Tree
- VLAN & CoS
 - VLAN & CoS Tagging
 - Default Port VLAN
 - Default Port CoS
 - Layer 3 Priority**
- Port Trunking
- Port Mirroring
- SNMP
- Multimedia Support
- Statistics
- Save Configuration

Layer 3 Priority

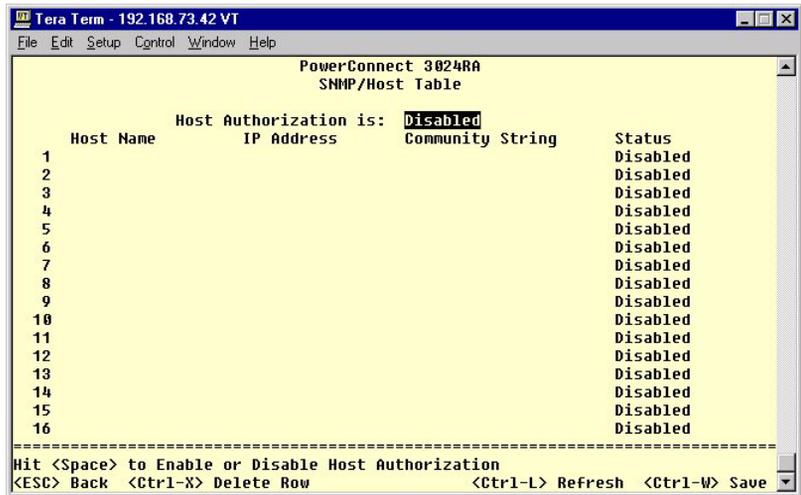
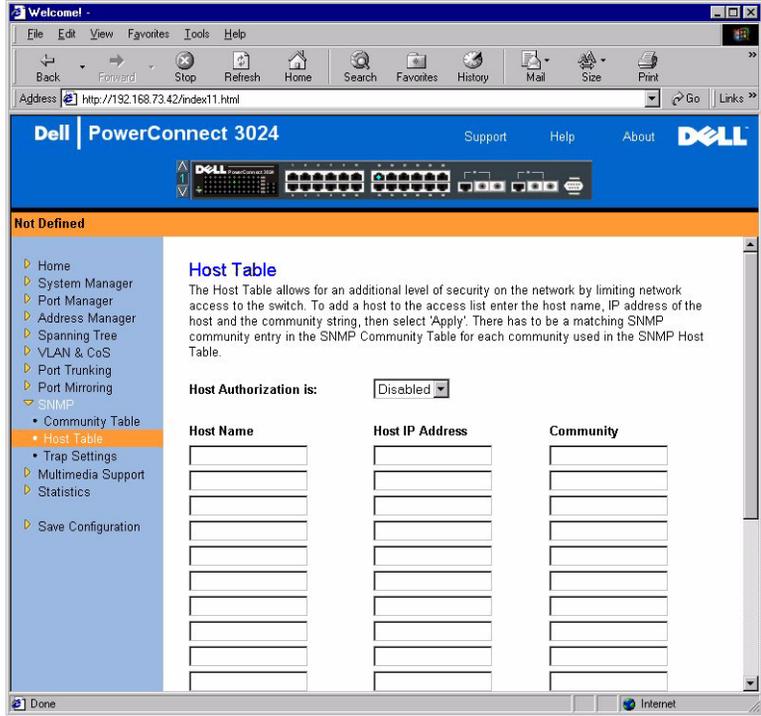
Change the default DSCP priorities by selecting 'Normal Priority' or 'High Priority' for each class of service. Then select 'Apply'. Differentiated Services Code Point (DSCP) fields classify packets into one of 64 classes. The IETF definition of the IPv4 Type of Service (ToS) octet in the IP packet-header utilizes DSCP values for prioritization.

DSCP Value	Priority	DSCP Value	Priority
0	Normal	32	Normal
1	Normal	33	Normal
2	Normal	34	Normal
3	Normal	35	Normal
4	Normal	36	Normal
5	Normal	37	Normal
6	Normal	38	Normal
7	Normal	39	Normal
8	Normal	40	Normal
9	Normal	41	Normal
10	Normal	42	Normal
11	Normal	43	Normal



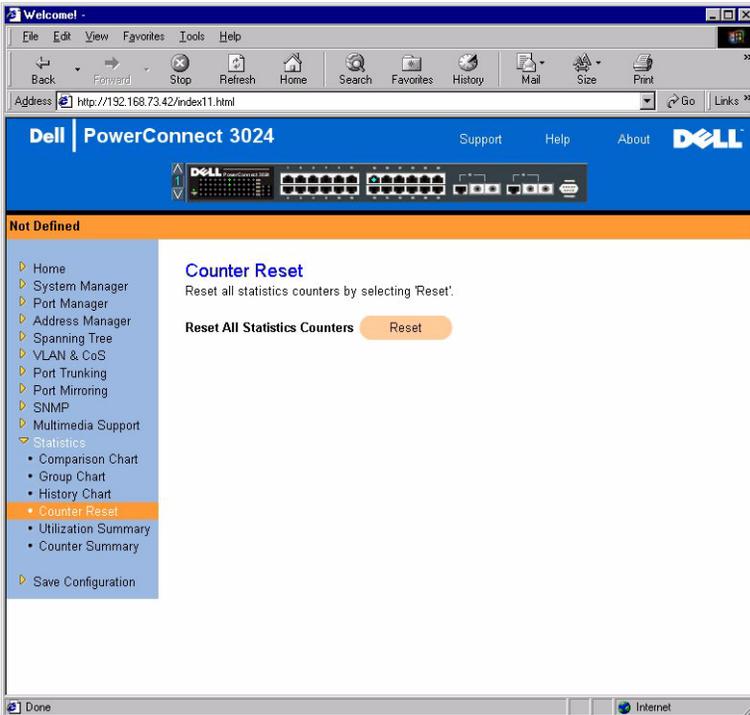
SNMP Host Authorization Table:

If the host authorization is disabled, which is the default setting, the switch allows any SNMP manager to access the switch. If the host authorization is enabled, the administrator can specify up to 16 SNMP managers on the host table to access the switch.



Statistics/Counter Reset:

Reset — Allows you to reset all statistics counters.



- **Statistics/Utilization Summary** — Allows you to view a summary by port of the link status, percent utilization, ratio of incoming unicast, nonunicast, and error packets.

Utilization Summary
Provides a summary of port utilization during the last one second. Select 'Refresh' to update the summary.

Port	Status	%Utilization	%Unicast Received	%Non-Unicast Received	%Errors Received
1	Down	0%	0%	0%	0%
2	Down	0%	0%	0%	0%
3	Down	0%	0%	0%	0%
4	Down	0%	0%	0%	0%
5	Down	0%	0%	0%	0%
6	Down	0%	0%	0%	0%
7	Down	0%	0%	0%	0%
8	Down	0%	0%	0%	0%
9	Down	0%	0%	0%	0%
10	Down	0%	0%	0%	0%
11	Down	0%	0%	0%	0%
12	Down	0%	0%	0%	0%
13	Up	0%	66%	33%	0%
14	Down	0%	0%	0%	0%
15	Down	0%	0%	0%	0%
16	Down	0%	0%	0%	0%
17	Down	0%	0%	0%	0%
18	Down	0%	0%	0%	0%

- **Refresh** — Allows you to refresh the **Utilization Summary** page.
- **Statistics/Counter Summary** — Allows you to view all ports accumulated, transmitted, and received unicast, nonunicast and error packets.
- **Refresh** — Allows you to refresh the **Counter Summary** page.

3 Welcome! - http://192.168.73.42/index11.html

Dell PowerConnect 3024 Support Help About DELL

Not Defined

- Home
- System Manager
- Port Manager
- Address Manager
- Spanning Tree
- VLAN & CoS
- Port Trunking
- Port Mirroring
- SNMP
- Multimedia Support
- Statistics
 - Comparison Chart
 - Group Chart
 - History Chart
 - Counter Reset
 - Utilization Summary
 - Counter Summary**
- Save Configuration

Counter Summary

Provides a summary of statistical counters since the statistics counter was last reset. Select 'Refresh' to update the summary. To reset the statistics counter, select 'Counter Reset' from the side navigation.

Port	Status	Unicast Received	Unicast Transmitted	Non-Unicast Received	Non-Unicast Transmitted	Errors Received	Errors Transmitted
1	Up	19255	17813	1228	572	10	0
2	Down	0	0	0	0	0	0
3	Down	0	0	0	0	0	0
4	Down	0	0	0	0	0	0
5	Down	0	0	0	0	0	0
6	Down	0	0	0	0	0	0
7	Down	0	0	0	0	0	0
8	Down	0	0	0	0	0	0
9	Down	0	0	0	0	0	0
10	Down	0	0	0	0	0	0
11	Up	5052	5408	567	1220	0	0
12	Down	0	0	0	0	0	0
13	Down	0	0	0	0	0	0
14	Down	0	0	0	0	0	0
15	Down	0	0	0	0	0	0
16	Down	0	0	0	0	0	0
17	Down	0	0	0	0	0	0
40	Down	0	0	0	0	0	0

Done Internet

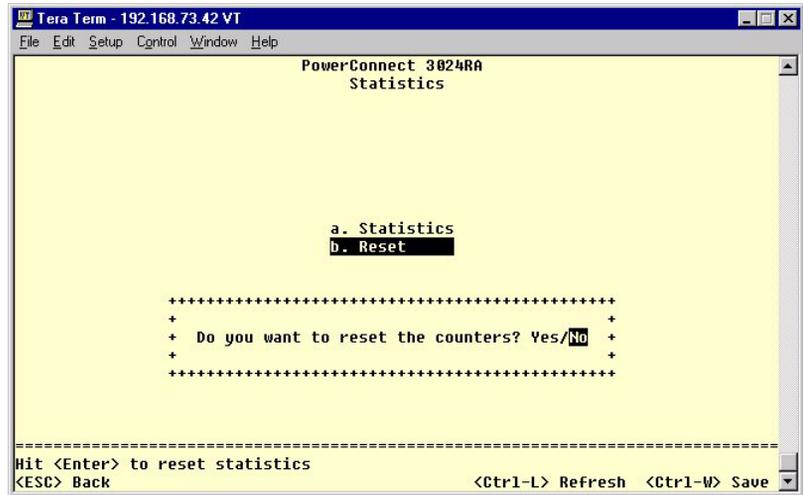
Tera Term - 192.168.73.42 VT

File Edit Setup Control Window Help

PowerConnect 3024RA Statistics

a. Statistics
b. Reset

Hit <Enter> to view statistics
<ESC> Back <Ctrl-L> Refresh <Ctrl-W> Save



Configuration File Management:

- To save the switch's current configuration file to a server, supply the TFTP server IP address and configuration filename, and then select **Transfer Configuration File to Server**. To load a configuration file from a server, supply the TFTP server IP address and configuration filename, and then select **Transfer Configuration File from Server**.
- To restore the preinstalled configuration, select **Restore**.
- **TFTP Server IP Address** — Inserts the TFTP Server IP Address to save or load.
- **TFTP Path/Configuration Filename** — Inserts the TFTP Path and configuration filename to save or load.
- **Transfer Configuration File to Server**— Saves the switch configuration file to a server.
- **Transfer Configuration File from Server** — Loads a configuration file from a server to the switch.
- **Restore** — Restores preinstalled default settings.

