Dell<sup>™</sup> PowerConnect<sup>™</sup> 5324

# PowerConnect 5324 Release Notes

Date: August 2004 System Firmware Version 1.0.0.45

Information in this document is subject to change without notice. © 2004 Dell Inc. All rights reserved.

Reproduction in any manner whatsoever without the written permission of Dell Inc.is strictly forbidden.

Trademarks used in this text: Dell, the DELL logo and PowerConnect are trademarks of Dell Computer Corporation;; Microsoft and Windows are registered trademarks of Microsoft Corporation.

Other trademarks and trade names may be used in this document to refer to either the entity claiming the marks and names or their products. Dell Computer Corporation disclaims any proprietary interest in trademarks and trade names other than its own. All rights reserved. This document may not, in whole or in part, be copied, photocopied, reproduced, translated, or reduced to any electronic medium or machine readable form without the prior written consent of Dell. Dell reserves the right to make changes without further notices to any products or specifications referred to herein to improve reliability, functionality or design. Reproduction, adaptation or translation without prior written permission is prohibited, except as allowed under the copyright laws.

# Table of Contents

Introduction	1
GLOBAL SUPPORT	1
Firmware Specifications	1
Added functionality in this release	1
Issues resolved	2
Known Restrictions and Limitations	2
Management	3
Web-based Management	
Telnet	3
Security	4
SSH	4
802.1x	4
Configuration	5
Ping	5
Documentation updates	7
Introduction	7
General	7
Starting and Configuring the Device	7
LAG Configuration	
Storm Control	
Port Mirroring	
Protocol Port	9
Configuring GVRP	9
RMON History Control	9
Viewing Tables	
QoS	
QoS Overview	
Interface CoS/QoS Settings	10
Global Queue Settings	11
Rapid Spanning Tree	12
Network Security	

Multiple Hosts	12
Port Security	13
Port Configuration	13
Radius Settings	13
Modified Commands in the CLI Reference Guide	14
clock summer-time	14
sntp anycast client enable	14
sntp client enable	14
bridge address	14
bridge aging time	14
port security	15
show bridge address-table count	15
show bridge multicast address-table	15
show ports security	15
clock summer-time	15
sntp broadcast client enable	
Mdix	16
port storm-control broadcast enable	
port storm-control broadcast rate	16
show ports storm-control	17
clear host	17
permit (management)	17
show copper-ports tdr	17
port monitor	17
channel-group	
wrr-queue bandwidth	
rmon collection history	
switchport trunk allowed vlan	
crypto certificate generate	19
sntp broadcast client enable	19
permit (management)	19
radius-server host	20
eleted Commands	20
lodified Text	20
xamples:	20
TAC_PLUS configuration	20

### End of Release Notes

20



# Introduction

This document provides specific information for the Dell PowerConnect 5324 Switch system, firmware version 1.0.0.45.

It is recommended that this release note be thoroughly reviewed prior to installing or upgrading of this product.

### **GLOBAL SUPPORT**

By Web: <u>http://support.dell.com/</u>

For information regarding the latest available firmware, recent release notes revisions, or if requiring additional assistance, please visit the <u>http://www.dell.com</u> Support Web Site.

### Firmware Specifications

#### Firmware Version Details

Boot PROM Name	Version No.	Release Date
5324_boot-10020.rfb	1.0.0.20	August, 2004
Firmware Image Name	Version No.	Release Date
5324-10045.dos	1.0.0.45	August, 2004

The firmware image version should be 1.0.0.45 on the PowerConnect 5324. The boot prom image should be 1.0.0.20 Refer to the PowerConnect 5324 Getting Started Guide for instructions on loading the boot PROM software and updating the firmware image.

Version n	umbe	r			Version Numbering Convention Description
5324	1	0	0	45	Four part version number
				Ĺ	Denotes the build number.
			Ĺ		Denotes an ad hoc release of the product software.
		Ĺ			Denotes a scheduled maintenance release of the product software.
	Ĺ				Denotes a major version number.

### **Supported Firmware Functionality**

For more details regarding the functionalities listed, please refer to the PowerConnect 5324 User Guide.

### Added functionality in this release



Version 1.0.0.45 is the first software release of the PowerConnect 5324.

### Issues resolved

Version 1.0.0.45 is the first software release of the PowerConnect 5324.

# Known Restrictions and Limitations



# Management

# Web-based Management

Title	Description	ID
Presenting a full ARP table in Web- based management.	Presenting a full ARP table may take several minutes if the ARP table has a significant number of entries. Workaround: Use CLI to show full ARP table.	24828
Deleting an ACE using web interface	When deleting an ACE from an ACL using the web interface, the page refresh may take several minutes.	24835
Repeated authentication (Username/password) in navigation tree	Repeated authentication of Username and password window may be presented while using the navigation tree on the right hand side of the embedded web management. This system exhibits itself when the embedded web management is in the middle of presenting a requested management page and is interrupted by the user's clicking on a different page.	24400
Port configuration management using Mozilla Browser in Linux OS	When managing the device using Mozilla Browser in Linux OS and changing Flow Control (System->Switch->Ports->Port Configuration->Show All) from "Disable" to "Enable" and vice versa in one of the dropdowns, all other dropdowns under it change their values too.	25085

# Telnet

Title	Description	ID
Telnet session fatal error message	When connected to a PowerConnect 5324 and the user connects to another switch ("second switch") using the "Telnet" command, a fatal error message will be displayed after	25837
	<ol> <li>the second switch's telnet exec timeout period transpires and</li> </ol>	
	<ol> <li>the user resumes the operation of the terminated telnet session.</li> </ol>	
Telnet launch from Unix/Linux web- browser	When a web-based browser running on Unix/Linux, clicking the Telnet button in the web-based management does not open a Telnet session.	



Security

# SSH

Title	Description	ID
Serial connection is lost after 4 concurrent SSH sessions	An attempt to open a forth SSH session will cause the serial connection to the device to become inactive. <b>Workaround:</b> Do not open more than three concurrent SSH sessions.	24773
Deleting SSH generated crypto key	Once a key is generated (RSA or DSA), a key cannot be removed. Workaround: Erase the flash image and reload.	25047

# 802.1x

Title	Description	ID
802.1x authentication does not work when EAP packets are transmitted with a VLAN tag = 0	When 802.1x packets are transmitted with VLAN tag = 0, port cannot authenticate. <b>Workaround:</b> Do not use VLAN 0 for network configurations. Switch default VLAN is 1.	23215
Incorrect information displayed in "Authenticated Users" Web-based management page	Incorrect information displayed in "Authenticated Users" Web-based management page with no relevancy to 802.1x status (enabled or disabled) Workaround: Use CLI for "Authenticated Users" status.	25857



# Configuration

# Ping

### Title

Ping packets sent from a network using a 10Mbps hub are lost

Description	ID
Ping packets that are sent from network using a 10Mbps hub are lost.	23043



# **Flow Control**

**Note:** When FlowControl is disabled per interface, flow control will be disabled per device not per Interface.



### **Documentation updates**

### Introduction

This document lists the changes from the PowerConnect 5324 User's Guide. The modifications are due to instances discovered in various user environments.

### General

The following must be changed globally:

# Starting and Configuring the Device

#### Assigning Static IP Addresses on an Inband Interface

Modify the following:

Current	New
Console (config-if) # ip address 192.168.1.123/24	Console (config-if) # ip address 192.168.1.123
255.255.255.0	255.255.255.0

#### Configuring an Initial HTTPS Password

Delete the following:

Enter the following commands once when configuring to use a terminal, a Telnet, or an SSH session in order to use an HTTPS session.

Note: In the Web browser enable SSL 2.0 or greater for the page content to be displayed.

```
console(config)# crypto certificate generate key_generate
console(config)# ip https server
```

### Telnet Connection

To start communications using automatic baud detection, press the Enter key twice. The factory default is autobaud enabled and no synchronization between a terminal and a device is required during the initial device installation. If, during the operation, the terminal was replaced by another one or the speed mode was switched over on the device, the following must be taken into consideration:

- A blank screen appearing after reset is an indication that the terminal and the device are not synchronized. To activate the autobaud option, press the Enter key twice.
- If the autobaud option is enabled on the device, it automatically becomes operational after reset ONLY ONCE, after pressing the Enter key twice.

### Configuring Domain Name Systems

Under the Add DNS page add the following field description:

DNS Server — DNS Server Name. The name cannot start with a numeric character.





### Defining a New Community

Add extra instructions.

Current	New
5 Click Apply Changes.	5 Click Apply Changes.
The new community is saved, and the	6 Close Add SNMP Community page. The SNMP
device is updated.	Community page is displayed.
	7 Click Refresh.
	The new community is inserted.

#### **Defining SNMP Traps**

Add extra instructions.

Current	New
5 Click Apply Changes.	5 Click Apply Changes.
SNMP traps are enabled on the card.	6 Click Refresh.
	SNMP traps are enabled on the card.

# LAG Configuration

#### **Defining LAG Parameters**

Add to the description:

The LACP port channel can accept up to 16 ports but only 8 will be active at the same time.

### Storm Control

Add to description: Storm Control is enabled per Gigabit ports by defining the packet type and the rate the packets are transmitted. Ports can also be grouped to provide Storm protection for the entire group.

Modify the CLI Command

Current	New
port storm-control broadcast enable	port storm-control broadcast enable [ethernet interface]

Modify

Field	Current	New
	Broadcast Rate Threshold (1-100000)— The maximum rate (packets per second) at which unknown packets are forwarded. The range is 0-1000000. The default value is zero. All values are rounded to the nearest 64Kbps. If the field value is under 64Kbps, the value is rounded up to 64Kbps, with the exception of the value zero.	Broadcast Rate Threshold (0-65535) — The maximum rate (packets per second) at which unknown packets are forwarded. The range is 0-65535. The default value is zero. All values are rounded to the nearest 64Kbps. If the field value is under 64Kbps, the value is rounded up to 64Kbps, with the exception of the value zero. Note that if the rate is 0, broadcast packets are not forwarded.





#### **Defining Port Mirroring Sessions**

Add the following restriction:

A maximum of 8 ports can be monitored (both Rx and Tx).

# **Protocol Port**

Modify the field name from VLAN ID (1-4095) to VLAN ID and add to the description (Range: 1-4094).

# **Configuring GVRP**

Delete: To ensure the correct operation of the GVRP protocol, it is advised to set the maximum number of GVRP VLANs equal to a value which significantly exceeds the sum of:

- The number of all static VLANs both currently configured and expected to be configured.
- The number of all dynamic VLANs participating in GVRP, both currently configured (initial number of dynamic GVRP VLANs is 128) and expected to be configured.

# **RMON History Control**

After the field Max No. of Samples to Keep (1-65535) add the following note:

Note: A change to the number of sample is only effective after a reboot.

# Viewing Tables

Current	New
The Utilization Summary page contains statistics for interface utilization.	The Utilization Summary page contains statistics for <b>viewing</b> interface utilization.

### GVRP Statistics

Field	Current	New
Leave All	Device GVRP Leave all statistics.	Device GVRP Leave All statistics.

# QoS

### **QoS Overview**

Under the WRR description, change the following:

Current	New
The strict priority queue is emptied before	The strict priority (SP) has priority over WRR, and where the
the traffic in the remaining queues in	traffic is low, WRR shares the bandwidth with SP, occupying
forwarded.	the remaining bandwidth according to the calculated ratio.



### Interface CoS/QoS Settings

The following Screens has been updated under the QOS section

Dell OpenManage Switch	Administrator				Support	Help	About	Log Out
10.6.23.146	Interface Cos/Qos	Sattinas						
Home B System B Switch B Statistics/RMON B Quality of Service		ace Cos/Qos Settings				Print	Refresh Show Al	
OoS Global Paran     OoS Settings     Interface Setting     Oueue Setting	ings Interfa	ice		Port g1 V O LAG	1.9			
CoS to Queue DSCP to Queu	e	le "Trust" Mode on Interface efault CoS For Incoming Traffic To		0 🛩				
			6	Apply Changes				
6								

#### Remove the following field descriptions.

- **Queue** The queue number.
- **Queue Mode** Indicates whether the queue is Strict Priority or WRR. This is defined in the **Queue Settings** screen.
  - $\rightarrow$  SP can be configured on all queues 1 4. This is the default configuration.
  - $\rightarrow$  WRR can be configured on all queues 1 4.
  - → Two queues on WRR and two queues on SP. The options are as follows: SP mode can be configured on queues 1 2 and WRR on queues 3 4
  - $\rightarrow~$  WRR mode can be configured on queues 1 2 and SP on queues 3 4
  - $\rightarrow$  WRR mode can be configured on queues 1 3, with SP on queues 4
- Weight (0-255) Assigns WRR weights to queues. This field is enabled only for queues in WRR queue mode.
- % of WRR Bandwidth The percentage translation of the weight defined in the Weight (0-255) field.

After the instructions for Assigning QoS/CoS settings for an interface, add the following instructions:

#### Displaying QoS/CoS settings:

- 1. Open the Qos/Cos page.
- 2. Click Show All.

The Interface Table is displayed.

CaS to Queue	Disable "Tru:	st" Mode on Interface					
Date to adede	Set Default C	oS For Incoming Traffic To	0 🛩				
			Apply 1	Changes			25
Dell OpenManage Switch Admini	strator				Support Help	About Log C	)ut
And a second	1000				auppore merp	Nood Log C	rux -
DØLL							
10.6.23.146 Global G	lueue Settings						
Home  System  System  Switch  Guslity of Service	Global Queue	Settings			E	int Refresh	
QoS Global Parameters     QoS Settings     Interface Settings	Queue	Strict Priority	cheduling	WRR	Weight (6-255)	% of WRR Bandwidth	
CoS to Queue	1	•		0			
DSCP to Queue	2	•		0			
	4	ŏ		ŏ			
			Apply Chang	8			
< >							

Add the following field descriptions below the current descriptions:

- WRR Specifies if traffic scheduling is based on the Weighted Round Robin (WRR) weights to egress queues.
- WRR Weight Assigns WRR weights to queues. This field is enabled only for queues in WRR queue mode. Each queue has a weight range, queues 1-3 have the range 0-255, and queue 4 has the range 1-255.
- NOTE: If a queue is set to 0 weight, the queue is not operational and is effectively closed.
- % of WRR Bandwidth The percentage translation of the weight defined in the WRR Weight field.

There are four optional Strict Priority (SP) to WRR configuration combinations:

- The default 4 SPs
- 4 WRRs
- 2 WRRs + 2 SPs (1WRR, 2 WRR, 3 SP, 4 SP or 3 WRR, 4 WRR, 1 SP, 2 SP)
- 3 WRRs (1, 2, 3) + 4 SP



# **Rapid Spanning Tree**

### Modify

Field	Current	New
Point-to-Point Admin Status	Enables or disables the device to establish a point-to-point link, or specifies for the device to automatically establish a point-to-point link. To establish communications over a point- to-point link, the originating PPP first sends Link Control Protocol (LCP) packets to configure and test the data link. After a link is established and optional facilities are negotiated as needed by the LCP, the originating PPP sends Network Control Protocols (NCP) packets to select and configure one or more network layer protocols. When each of the chosen network layer protocols has been configured, packets from each network layer protocol can be sent over the link. The link remains configured for communications until explicit LCP or NCP packets close the link, or until some external event occurs.	Enables or disables the device to establish a point-to-point link, or specifies for the device to automatically establish a point-to-point link. To establish communications over a point- to-point link, the originating PPP first sends Link Control Protocol (LCP) packets to configure and test the data link. After a link is established and optional facilities are negotiated as needed by the LCP, the originating PPP sends Network Control Protocols (NCP) packets to select and configure one or more network layer protocols. When each of the chosen network layer protocols has been configured, packets from each network layer protocol can be sent over the link. The link remains configured for communications until explicit LCP or NCP packets close the link, or until some external event occurs. This is the actual device port link type.
Point-to-Point Operational Status	The Point-to-Point operating state. This is the actual device port link type.	The Point-to-Point operating state. It may differ from the administrative state.

# **Network Security**

Under the heading Network Security" enter the following note:

If navigating between the Network Security pages, wait for the page to load completely before navigating to another page. If not, some instances display a password prompt, as the previous page has not completed dealing with the user information before being closed. The system views the new screen as a new user.

# **Multiple Hosts**

#### Modify

Field	Current	New
Action on Single Host Violation	<ul> <li>Defines the action to be applied to packets arriving in single-host mode, from a host whose MAC address is not the client (supplicant) MAC address. The Action on Single Host Violation field can be defined only if the Multiple Hosts field is defined as Disable. The possible field values are:         <ul> <li>Permit— Forwards the packets from an unknown source, however, the MAC address is not learned.</li> <li>Deny — Discards the packets from any</li> </ul> </li> </ul>	<ul> <li>Defines the action to be applied to packets arriving in single-host mode, from a host whose MAC address is not the client (supplicant) MAC address. The possible field values are:</li> <li>Forward — Forwards the packets from an unknown source, however, the MAC address is not learned.</li> <li>Discard — Discards the packets from any unlearned source. This is the default value.</li> </ul>



٠

unlearned source. This is the default value.

- Shutdown Discards the packet from any unlearned source and locks the port. Ports remain locked until they are activated, or the device is reset.
- **Discard Shutdown** Discards the packet from any unlearned source and locks the port. Ports remain locked until they are activated, or the device is reset.

# **Port Security**

In the introduction, under the "Unauthorized packets arriving to a locked port are either:

- Forwarded
- Discarded with no trap
- Discarded with a trap
- The ingress port is disabled"

Note: In order to enable port security, the Multiple Hosts feature must first be enabled on the required port(s).

# **Port Configuration**

Before the CLI example, enter the following Note:

Note: When device wakes up with autobaud enabled, press "Enter" twice to activate the autobaud.

# **Radius Settings**

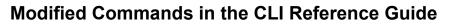
#### Modify

Field	Current	New
Syntax Parameters	Usage Type — Specifies the server usage type. Can be one of the following values: login, 802.1x or all. If unspecified, defaults to all	Usage Type — Specifies the server usage type. Can be one of the following values: login, dot.1x or all. If unspecified, defaults to all
Description	Remote Authorization Dial-In User Service (RADIUS) servers provide additional security for networks.	Remote Authorization Dial-In User Service (RADIUS) servers provide additional security for networks. Up to 4 RADIUS servers can be defined.

### 802.1x

Title	Description
Radius attributes relevant to 802.1x	The Radius attributes that are relevant to 802.1x functionality are: EAPMessage = 79, MessageAuthenticator = 80, State = 24, Class = 25.





### clock summer-time

D∕⊘LL™

#### Under User Guidelines add the following:

The following steps must be completed before setting the summer clock:

- 3. Summer time configuration, for example: console(config)# clock summer-time recurring usa
- 4. Define Timezone, for example : console(config)# clock timezone 2 zone RADL
- 5. Set clock, for example: console# clock set 10:00:00 apr 15 2004

#### sntp anycast client enable

Update the command as follows:

Field	Current Guide	Change to:
Description	The sntp anycast client enable Global	The sntp anycast client enable Global
	Configuration mode command enables	Configuration mode command enables anycast
	anycast client. To disable the polling for	client. To disable the SNTP anycast client, use
	SNTP broadcast client, use the no form of	the no form of this command.
	this command.	

#### sntp client enable

Update the command as follows:

Field	Current Guide	Change to:
User Guidelines	<ul> <li>Use the sntp client enable Global Configuration mode command to enable broadcast clients globally.</li> </ul>	<ul> <li>Use the sntp broadcast client enable Global Configuration mode command to enable broadcast clients globally.</li> </ul>

### bridge address

Update the command as follows:

Field	Current Guide	Change to:
Syntax	bridge address mac-address {ethernet interface   port-channel port-channel- number} [permanent   delete-on-reset   delete-on-timeout   secure]	bridge address mac-address [permanent   delete-on-reset   delete-on-timeout   secure] {ethernet interface   port-channel port-channel- number}

#### bridge aging time

Field	Current Guide	Change to:
Syntax	seconds — Time is number of seconds.	seconds — Time is number of seconds. (Range:
parameter	(Range: 10 - <b>630</b> seconds)	10 - <b>360</b> seconds)



#### port security

Update the command as follows:

Field	Current Guide	Change to:
User Guidelines	There are no user guidelines for this command.	Multiple hosts must be enabled.

### show bridge address-table count

Update the command as follows:

Field	Current Guide	Change to:
In Example	Console# show bridge address-table count	Console# show bridge address-table count
		Capacity: 8192
	Capacity: 8192	Free: 8084
	Free: 8084	Used: 108
	Used: 108	
		Static addresses: 2
	Static addresses: 2	Dynamic addresses: 97
	Dynamic addresses: 97	Internal addresses: 9
	Internal addresses: 9	Secure addresses: 10

### show bridge multicast address-table

Update the command as follows:

Field	Current Guide	Change to:
User Guidelines	There are no user guidelines for this command.	A MAC address can be displayed in IP format only if it is in the range of 0100.5e00.0000- 0100.5e7f.ffff.

### show ports security

Update the command as follows:

Field	Current Guide	Change to:
User	There are no user guidelines for this	If no parameters are entered, all entries are
Guidelines	command.	displayed.

### clock summer-time

Field	Current Guide	Change to:
Syntax	week— Week of the month. (Range: 1 - 4,	week— Week of the month. (Range: 1 - 5, first,
Parameter	first, last)	last)



### sntp broadcast client enable

Update the command as follows:

Field	Current Guide	Change to:
Dedscription	To disable the SNTP anycast client, use	To disable the anycast client, use the <b>no</b> form of
	the <b>no</b> form of this command.	this command.

#### Mdix

Update the command as follows:

Field	Current Guide	Change to:
Syntax Parameter	on—Manual mdix	on—Enable mdi/mdix

### port storm-control broadcast enable

Update the command as follows:

Field	Current Guide	Change to:
Syntax Parameter	port storm-control broadcast enable no port storm-control broadcast enable	port storm-control broadcast enable[ethernet interface]
		no port storm-control broadcast enable
		<ul> <li>interface—A valid Ethernet port.</li> </ul>

### port storm-control broadcast rate

Field	Current Guide	Change to:
Syntax Parameter	rate—Maximum kilobytes per second of broadcast and multicast traffic on a port. (Rate: 0 - 1488095)	<ul> <li>rate—Maximum kilobytes per second of broadcast and multicast traffic on a port. (Rate: 0 – 65535)</li> </ul>
User Guidelines	The granularity is 1 - 64K packets. Note that if the rate is 0, broadcast packets are not forwarded.	Delete this guideline.
Example	console(config-if)# port storm-control broadcast rate 10	console(config)# port storm-control broadcast rate 10



Update the command as follows:

Field	Current Guide	Change to:	
Example	Broadcast Storm control [kbytes/sec]	Broadcast Storm control [packets/sec]	

#### clear host

Update the command as follows:

Field	Current Guide	Change to:
Example	The following example deletes entries	The following example deletes all entries from
	from the host name-to-address cache.	the host name-to-address cache.

### permit (management)

Update the command as follows:

Field	Current Guide Change to:	
User	The system supports up to 256	The system supports up to 128 management
Guidelines	management access rules.	access rules.

### show copper-ports tdr

Update the command as follows:

Field	Current Guide	Change to:
Example	The following example displays the last TDR (Time Domain Reflectometry) tests on all ports.	The following example displays the last TDR (Time Domain Reflectometry) tests on all copper ports.
	g5 Fiber	Delete.

#### **Port monitor**

Field	Current Guide	Change to:	
User Guidelines		<ul> <li>Add this extra bullet:</li> <li>Maximum number of supported source ports is 8 (Rx and Tx).</li> </ul>	



Update the command as follows:

Field	Current Guide	Change to:
User Guidelines	There are no user guidelines for this command.	For redundancy reasons, the LACP port channel can accept up to 16 ports but only 8 will be active at the same time.

### wrr-queue bandwidth

Update the command as follows:

Field	Current Guide	Change to:
User Guidelines	<ul> <li>All 4 queues are participating excluding the queues that are assigned as expedite queues. The weights of these queues are ignored in the ratio calculation.</li> <li>All 4 queues participate in the WRR exclude the expedite queues, in which case the corresponded weight is ignored (not used in the ratio calculation). The expedite queue is a priority queue, and it is serviced until empty before the other queues are serviced.</li> </ul>	<ul> <li>All 4 queues are participating excluding the queues that are assigned as Strict Priority (SP) queues. The weights of these queues are ignored in the ratio calculation.</li> <li>All 4 queues participate in the WRR exclude the Strict Priority (SP) queues, in which case the corresponded weight is ignored (not used in the ratio calculation). The expedite queue is a priority queue, and it is serviced until empty before the other queues are serviced.</li> </ul>

### rmon collection history

Update the command as follows:

Field	Current Guide	Change to:
Syntax Parameter	<b>owner</b> ownername—Records the RMON statistics group owner name. If unspecified, the name is an empty string.	<b>owner</b> ownername—Records the RMON statistics group owner name. If unspecified, the name is an empty string (Range: 0-20 characters).

### switchport trunk allowed vlan

Field	Current Guide	Change to:		
Syntax Parameter	<pre>switchport trunk allowed vlan {add vlan-list   remove vlan-list }</pre>	switchport trunk allowed vlan {add vlan-list/all   remove vlan-list/all }		
	<ul> <li>add vlan-list—List of VLAN IDs to add. Separate non consecutive VLAN IDs with a comma and no spaces. A hyphen designates a range of IDs.</li> </ul>	<ul> <li>add vlan-list—List of VLAN IDs to add. Separate non consecutive VLAN IDs with a comma and no spaces. A hyphen designates a range of IDs. The option all</li> </ul>		



# PowerConnect 5324 Release Notes

•	remove vlan-list—List of VLAN IDs to		ad
	remove. Separate non consecutive	٠	rer
	VLAN IDs with a comma and no		rer
	spaces. A hyphen designate a range		IDs
	of IDs.		de
			rer

adds all configured VLAN IDs.

 remove vlan-list—List of VLAN IDs to remove. Separate non consecutive VLAN IDs with a comma and no spaces. A hyphen designate a range of IDs. The option all removes all configured VLAN IDs.

### crypto certificate generate

Update the command as follows:

Field	Current Guide	Change to:
Syntax Parameter	crypto certificate [number] generate [key- generate [length]] [passphrase string] [cn common- name] [ou organization-unit] [o organization] [l location] [st state] [c country] [duration days]	crypto certificate [number] generate [key- generate [length]] [cn common- name] [ou organization-unit] [o organization] [l location] [st state] [c country] [duration days]
Syntax Parameter	<b>passphrase</b> string—Passphrase that is used for exporting the certificate in PKCS12 file format. If unspecified the certificate is not exportable. (Range: 8 - 96)	Delete the parameter

### sntp broadcast client enable

Change a parameter description:

	Current Guide	Change to:
User Guideline	Use the sntp client enable Interface Configuration mode command to enable the SNTP client on a specific interface.	Use the sntp broadcast client enable Interface Configuration mode command to enable the SNTP client on a specific interface.

### permit (management)

Change a parameter description:

	Current Guide	Change to:
User	The system supports up to 256 management	The system supports up to 128
Guideline	access rules.	management access rules.



Change a parameter description:

	Current Guide	Change to:
Syntax Parameter	<ul> <li>type—Specifies the usage type of the server. Can be one of the following values: login, 802.1x or all. If unspecified, defaults to all.</li> </ul>	<ul> <li>type—Specifies the usage type of the server. Can be one of the following values: login, dot.1x or all. If unspecified, defaults to all.</li> </ul>
User Guidelines		Add: • Up to 4 servers can be defined.

The following commands are documented but not supported in this release.

- default vlan-disable
- show vlan internal usage
- ip internal-usage-vlan

#### **Modified Text**

Under the heading Editing Features and sub-heading Terminal Command Buffer.

Current Guide	Change to:
The standard number of 10 commands	The standard number of 10 commands can be
can be increased to 256.	increased to 216.

#### Examples:

# TAC\_PLUS configuration

Note for \$enab15\$ user setup. The following user is needed if a user is allowed to go from level 1 to a level 15.

Example.

logs into as user lever then goes to a exec user from console.

console>enable enter password if console password id enable.

```
console#
user = $enab15$ {
default service = permit
login = cleartext "15"
service = exec {
priv-lvl = 15
}
}
```

#### **End of Release Notes**