



3Com® Switch 4800G Series, Version 5.20-2101 Release Notes

This document contains information about the 3Com Switch 4800G series, software version 5.20, Release 2101. This information is not available in the release documentation.

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These release notes use the following acronyms:

Abbreviation	Full Spelling
AAA	Authentication, Authorization and Accounting
ARP	Address Resolution Protocol
CMW	Comware
DHCP	Dynamic Host Configuration Protocol
GVRP	GARP VLAN Registration Protocol
IGMP	Internet Group Management Protocol
LACP	Link Aggregation Control Protocol
MIB	Management Information Base
MSTP	Multiple Spanning Tree Protocol
RIP	Routing Information Protocol
SNMP	Simple Network Management Protocol
TCP	Transmission Control Protocol
VLAN	Virtual Local Area Network

Version Information

HARDWARE

The Switch 4800G series consists of the following models:

- **Equipment Models:**
 - Switch 4800G 24-Port
 - Switch 4800G 48-Port
 - Switch 4800G 24-Port PWR
 - Switch 4800G 48-Port PWR
 - Switch 4800G 24-Port SFP
- **Memory** — 256 MB
- **Flash Memory**— 32 MB
- **Boot ROM Version** — Version 306 or later
- **Host Software** — S4800G-CMW520-R2101

SOFTWARE

The Switch 4800G series software consists of the following:

Version Number	Release Date	Note
S4800G-CMW520-R2101	April 29, 2008	First release

Note: The download file S4800G-CMW520-R2101.bin is 56-bit encryption for SSH. The download file S4800G-CMW520-R2101-S168.bin is 168-bit encryption for SSH.

The software version number and boot ROM version number of the Switch 4800G can be displayed under any view using the command **display version**:

```
[4800G]display version
3Com Corporation
Switch 4800G 24-Port SFP Software Version 5.20 Release 2101
Copyright (c) 2004-2008 3Com Corp. and its licensors. All rights reserved.
Switch 4800G 24-Port SFP uptime is 0 week, 0 day, 9 hours, 49 minutes

Switch 4800G 24-Port SFP with 1 Processor
256M bytes SDRAM
32768K bytes Flash Memory

Hardware Version is REV.C
CPLD Version is 002
Bootrom Version is 306
[SubSlot 0] 24SFP+8GE Hardware Version is REV.C
```

New Features for Switch 4800G, Version 5.20, Release 2101

HARDWARE FEATURES

The following table lists the hardware specifications of the Switch 4800G series:

Specification	Switch 4800G 24-Port	Switch 4800G 48-Port	Switch 4800G 24-Port PWR	Switch 4800G 48-Port PWR	Switch 4800G 24-Port SFP
Dimensions (height x width x depth)	440 x 300 x 43.6 mm (17.3 x 11.8 x 1.7 in.)		440 x 420 x 43.6 mm (17.3 x 16.5 x 1.7 in.)		440 x 360 x 43.6 mm (17.3 x 14.1 x 1.7 in.)
Weight	<5 kg		<7.5 kg		<6 kg
Console ports	1				
GE ports on front panel	24 10/100/1000 M electrical ports 4 100/1000M SFP Combo	48 10/100/1000 M electrical ports 4 100/1000M SFP Combo	24 10/100/1000 M electrical ports 4 100/1000M SFP Combo	48 10/100/1000 M electrical ports 4 100/1000M SFP Combo	24 100/1000M SFP ports 8 10/100/1000M Combo electrical
Optional modules	1-port 10GE XFP module 2-port 10GE XFP module 2-port 10GE CX4 module for short haul				
Voltage	AC	Rated voltage: 100 VAC to 240 VAC, 50 Hz or 60 Hz Input voltage: 90 VAC to 264 VAC, 47 Hz or 63 Hz			
	DC	Rated voltage range: 10.8 VDC to 13.2 VDC	Rated voltage range: -52 VDC to 55 VDC		
Power consumption (full load)	110 W	155 W	AC power supply: 575W, including system consumption of 205W and PoE consumption of 370W DC power supply: 485W, including system consumption of 115W and PoE consumption of 370WAC power supply (DC not available in all regions)	AC power supply: 640W, including system consumption of 270W and PoE consumption of 270W DC power supply: 910W, including system consumption of 170W and PoE power consumption of 740WAC power supply (DC not available in all regions)	115 W
Operating temperature	0°C to 45°C (32 °F to 113 °F)				

Specification	Switch 4800G 24-Port	Switch 4800G 48-Port	Switch 4800G 24-Port PWR	Switch 4800G 48-Port PWR	Switch 4800G 24-Port SFP
Relative humidity (noncondensing)	10% to 90%				

SOFTWARE FEATURES

The following table lists the software features of the Switch 4800G series:

Feature		Switch 4800G 24-Port/ Switch 4800G 24-Port SFP	Switch 4800G 48-Port	Switch 4800G 24-Port PWR	Switch 4800G 48-Port PWR
Wire-speed L2 switching	Switching capacity (Full duplex)	128 Gbps	176 Gbps	128 Gbps	176 Gbps
	Packet forwarding rate	95.2 Mpps	130.9 Mpps	95.2 Mpps	130.9 Mpps
Power over Ethernet		Not supported		Supported	
Link aggregation		Aggregation of GE port Aggregation of 10GE ports Manual link aggregation Static link aggregation Supports up to 14/26 aggregation groups, each supporting up to eight GE ports or four 10GE ports			
Flow control		IEEE 802.3x flow control and back pressure			
Jumbo Frame		Supports maximum frame size of 9 KB			
MAC address table		32K MAC addresses 1K static MAC addresses Blackhole MAC addresses MAC address learning limit on a port			
VLAN		Port-based VLAN (4,094 VLANs) QinQ and Selective QinQ Voice VLAN Subnet-based VLAN Protocol-based VLAN MAC-based VLAN GVRP			

Feature	Switch 4800G 24-Port/ Switch 4800G 24-Port SFP	Switch 4800G 48-Port	Switch 4800G 24-Port PWR	Switch 4800G 48-Port PWR
ARP	8K entries 1K static entries Gratuitous ARP ARP Proxy			
ND	4K entries 1K static entries			
VLAN virtual interface	128			
DHCP	DHCP Client DHCP Snooping DHCP Relay DHCP Server			
UDP Helper	UDP Helper			
DNS	Dynamic domain name resolution Dynamic domain name resolution client IPv4/IPv6 addresses			
IPv4 routing	256 static routes RIP (Routing Information Protocol) v1/v2; up to 2K IPv4 routes OSPF (Open Shortest Path First) v1/v2; up to 12K IPv4 routes BGP (Border Gateway Protocol); up to 12K IPv4 routes ISIS (Intermediate System to Intermediate system); up to 12K IPv4 routes Four equal-cost routes Routing policy VRRP Policy routing			
IPv6 routing	256 static routes RIPng; up to 2K IPv6 routes OSPF v3; up to 6K IPv6 routes BGP4+ for IPV6; up to 6K IPv6 routes ISIS for IPV6; up to 6K IPv6 routes Four equal-cost routes Routing policy VRRP Policy routing			

Feature	Switch 4800G 24-Port/ Switch 4800G 24-Port SFP	Switch 4800G 48-Port	Switch 4800G 24-Port PWR	Switch 4800G 48-Port PWR
IPv6 over IPv4 Tunneling	Manual tunnel configuration 6 to4 tunneling ISATAP (Intra-Site Automatic Tunnel Addressing Protocol) tunneling			
IPv4 multicast	IGMP (Internet Group Management Protocol) Snooping v1/v2/v3 Multicast VLAN IGMP v1/v2/v3 PIM-DM (Protocol Independent Multicast-dense mode) PIM-SM (Protocol Independent Multicast-sparse mode) PIM-SSM (PIM Source Specific Multicast) MSDP (Multicast Source Discovery Protocol)			
IPv6 multicast	MLD Snooping v1/v2			
Broadcast/multicast/unicast storm control	Storm control based on port rate percentage PPS-based storm control			
MSTP	MSTP protocol 16 instances STP Root Guard BPDU Guard			

Feature	Switch 4800G 24-Port/ Switch 4800G 24-Port SFP	Switch 4800G 48-Port	Switch 4800G 24-Port PWR	Switch 4800G 48-Port PWR
QoS/ACL	Ingress/Egress ACL, VLAN ACL, IPV4/IPV6 ACL Restriction of the rates at which a port sends and receives packets, with a granularity of 64 kbps Packet redirection Ingress/Egress CAR (Committed access rate), Two Rate Three Color, with a granularity of traffic limit 64 Kbps Eight output queues for each port Flexible queue scheduling algorithms based on port and queue, including strict priority (SP), weighted round robin (WRR), and SP + WRR Remarking of 802.1p and DSCP priorities Packet filtering at L2 (Layer 2) through L4 (Layer 4); flow classification based on source MAC address, destination MAC address, source IP (IPv4/IPv6) address, destination IP (IPv4/IPv6) address, port, protocol, and VLAN Time range			
Mirroring	Traffic mirroring Port mirroring			
Remote mirroring	Remote port mirroring (RSPAN)			
Security	Hierarchical management and password protection of users AAA authentication RADIUS authentication HWTACACS+ SSH 2.0 Port isolation Port security Centralized MAC address authentication IP-MAC-port binding IP Source Guard HTTPS EAD			
802.1X	Up to 1,024 users Port-based and MAC address-based authentication Guest VLAN Trunk port authentication			
Loading and upgrading	Loading and upgrading through XModem protocol Loading and upgrading through FTP Loading and upgrading through the trivial file transfer protocol (TFTP)			

Feature	Switch 4800G 24-Port/ Switch 4800G 24-Port SFP	Switch 4800G 48-Port	Switch 4800G 24-Port PWR	Switch 4800G 48-Port PWR
Management	Configuration through CLI Remote configuration through Telnet Configuration through Console port Simple network management protocol (SNMP) Remote monitoring (RMON) alarm, event and history recording Web-based network management System log Hierarchical alarms Huawei group management protocol (HGMP) V2 Network Time Protocol (NTP) Power supply alarm function Fan and temperature alarms			
Maintenance	Debugging information output Ping and Traceroute NQA Remote maintenance through Telnet Virtual cable test RRPP LLDP DLDP			

Usage Notes for Switch 4800G, Version 5.20, Release 2101

- Due to implementation limitations, VLAN ACL does not take effect on ports enabled with QinQ.
- The priority of a port isolation group is higher than that of the redirect behavior. For example, assume that ports g1/0/1 and g1/0/2 belong to a port isolation group. If a flow rule is configured on g1/0/1 to redirect the flow to g1/0/2, the flow inbound on g1/0/1 matching the rule for redirection to g1/0/2 will not be redirected to g1/0/2 because the port isolation group is configured.
- In the port mode, the suppression of broadcasts, multicasts, and unknown unicasts in the percentage mode is correct only for 64-byte packets. This is because the chip only supports broadcast suppression by PPS, and the system converts the percentage into PPS per 64 bytes in the percentage mode. 3Com recommends using PPS mode.
- VCT fails if the connected peer port works in the forced mode and has a rate of 100 Mbps.

Known Issues for Switch 4800G, Version 5.20, Release 2101

- All models of the switch com include a metal Power Cord Strain Relief Clip, in the accessory bag, designed to help hold the power cord in place. The clip that ships with the Switch 4800G 24-Port SFP model does not work with power cords used outside of China and can be discarded.
- If the 4800G receives an IPv6 packet with a length exceeding 1480 bytes and the next hop of the packet is a tunnel interface, 20 bytes is added to the packet and thus forwarded with a length over 1500 bytes. Some PCs or network nodes may not be able to transmit the packet properly.

Workaround: 3Com recommends that the length of the IPv6 packets with the next hop being a tunnel interface be smaller than 1480 bytes.

- When the 4800G serves as the SFlow agent, it displays the physical interface information on the sFlow collector as 9XXXXXX, instead of g1/0/X.
- The command **port enable link-delay** leads to the port not receiving packets with little probability after repeating using the command of **shutdown undo shutdown** on the remote end port.

Workaround: Use the command **shutdown undo shutdown** on the port.

- The switch cannot set a trap destination using SNMP V3.

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Part Number: 10016618 Rev AA
May 29, 2008