



SUPERSTACK® 3 SWITCH 4900 SERIES SOFTWARE VERSION 2.5 RELEASE NOTES

Please use these notes in conjunction with the following documents:

- *"SuperStack 3 Switch 4900 Getting Started Guide"*
Part number: DUA1770-0AAA03
(supplied with your SuperStack 3 Switch)
- *"SuperStack 3 Switch Implementation Guide"*
Part number: DUA1770-0BAA04
(supplied in PDF format on the 3Com Web site)
- *"SuperStack 3 Switch 4900 Series Management Quick Reference Guide"*
Part number: DQA1770-0AAA04
(supplied in PDF format on the 3Com Web site)
- *"SuperStack 3 Switch Management Interface Reference Guide"*
Part number: DHA1770-0AAA04
(supplied in HTML format on the 3Com Web site)

Software License Agreements

Before you use the software on the SuperStack 3 Switch 4900 Series, please ensure that you read the license agreement text (`license.txt`).

Points to Note when using the Switch 4900 Series Software

Switch 4900 version 2.5 software agent operates on the Switch 4900, 4924, 4950 and 4900SX.

Supported Expansion Modules

- 3C17710 – 4 port 1000Base-SX module
- 3C17711 – 4 port 1000Base-T module
- 3C17712 – 4 port 1000Base-LX module
- 3C17714 – 4 port GBIC module

Replacing Expansion Modules

When an expansion module is replaced by another module of a different type, the configuration will not be completely reset to factory defaults. Specifically, the following module parameters will not be reset:

- Static addresses
- Resilient links
- IGMP router ports
- RMON alarm variables
- Spanning Tree port data

It is recommended that all module configuration should be reviewed after the expansion module has been replaced.

Auto-MDIX

Auto-MDIX is not available if auto-negotiation is disabled on a port. That port will only operate in MDIX mode.

Serial Cable

When using a serial cable you must ensure that it is wired correctly as described in Appendix B of the Getting Started Guide.

TFTP Upgrades

Note that when initiating a TFTP upgrade using the web interface or CLI, if an incorrect TFTP server IP address is entered you will not be able to correct the IP address until the TFTP upgrade operation has timed out. The default time out period is 20 minutes.

Serial Update Utility

The Serial Update Utility operates on a PC running the DOS operating system or in a DOS box running under Windows 95/98. The utility may not operate correctly in a DOS box running under Windows 2000 or in other operating systems environments.

The Serial Update Utility has been superseded by the Software Update Utility (v 3.01) which can be found on the 3Com web site. This version runs on Windows and supports the following Windows applications 95, 98, 2000, Me, NT, XP.

Known Problems with the Management Software

- With IGMP snooping enabled, for VLANs other than the default VLAN, IP multicasts will only be forwarded within a VLAN if a multicast router acting as a source for IGMP queries is present in that VLAN.
- Do not disable IGMP snooping on the unit when there are hosts in the segments subscribing to multicast IP groups. Hosts may be unable to re-subscribe to the same multicast IP group, for more than 5 minutes, or until the unit is re-booted.
- Pause packets are counted incorrectly. Received pause packets are included in the transmit packet counters. Transmitted pause packets are included in the receive packet and octet counters.
- If a port is being blocked by Spanning Tree Protocol (STP), and STP is disabled, then the port remains blocked until the Switch is reset.
- If you use Netscape to manage your Switch you may experience problems when trying to change the user password. 3Com recommends that if you use Netscape and you need to change the password you do so via the CLI command. To do this from the web interface Device View, use the *System > Telnet > Connect* operation to start a Telnet connection and then use the **security device user modify** CLI command.
- Internet Explorer 5 - If 'Ignore font styles specified on Web Pages' or 'Ignore font sizes specified on Web Pages' are selected, then the appearance of the web interface will be unpredictable. 3Com rec-

ommends that neither of these tools are selected (options are found under Internet Explorer 5 menu *Tools > Internet Options > Accessibility > Formatting*).

- BOOTP address does not renew after 1 hour. The IP address is dropped and replaced with 0.0.0.0. The IP address is lost for only a few minutes every hour but is re-established.
- If you allocate a new IP address to the default VLAN on a hub that is currently running, you should remove the IP interfaces and/or disable RIP until the DHCP/BOOTP/AutoIP process completes
- In the v2.5 release, Spanning Tree is enabled by default. If Spanning Tree is currently disabled on your Switch 4900 Series product, and you are running an image prior to v2.02, upgrading to the v2.5 software may change the Spanning Tree state to the enabled state unexpectedly. This will only occur if you have never modified the Spanning Tree state on your unit or if you have re initialized your unit.

If your unit is running software prior to v2.02 and you wish your Spanning Tree state to remain disabled, there are two ways to prevent the state from being automatically enabled. Either modify the Spanning Tree state on your unit (disabled to enabled back to disabled) before upgrading to v2.5 software, or upgrade to v2.04 software and then upgrade to v2.5 software.

Please note that if you reinstalled your unit running v2.5 software using the `system control initialize` command that Spanning Tree will be enabled when the unit boots up.

- When or if you should decide to downgrade to an older version of the agent software, you may notice inaccurate information displayed within the web browser interface. This is typically seen as inactive hotspots in the interface. If this should occur, we recommend that you exit the browser, clear the browser cache, and begin another session.
- If you have a QoS profile applied to a port with a service level that remarks the DSCP field, then all the incoming traffic will be remarked. Traffic which is identified by the service level profile will be marked accordingly. Traffic that does not match the service level profile will be remarked with a DSCP value of 0 (best effort). The effect of this is that traffic which identified as "no mark" will be remarked. To avoid this, we recommend that you do not mix "DSCP marking" and "DSCP No-change" service levels.
- 4924/4950 products only: 802.1p (packet prioritization) overwriting. If the ingress port is untagged and the egress port is tagged, the packet's 802.1p priority will be marked appropriately. However, if the ingress port is tagged and the egress port is tagged, the packet's 802.1p priority will not be remarked.
- 4924/4950 products only: DSCP value of 0 cannot be used as a QoS classifier.
- 4924/4950 products only: Ethertype IP (0x800) and ARP (0x806) cannot be used as QoS classifiers.
- If you upgrade from Software version 2.02/2.04 to version 2.5, you must reassign the desired QoS profile to all ports.

- The OK button in the Sys/Cache Config Summary of the web browser interface does not function properly if you have Windows 95 loaded and are using Internet Explorer version 5.5. The status may change while the summary screen is open and therefore reflect an inaccurate reading.
- When upgrading to version 2.5 software, the default setting for Spanning Tree will be Rapid Spanning Tree ON. When this happens the priority settings for Spanning Tree will be rounded down. Example:

```
Select menu option: br span stpp
Select stp priority
(0,4096,8192,12288,16384,20480,24576
,28672,32768,36864,40960,45056,49152
,53248,57344,61440)[32768]:
```
- When issuing a PING command in the version 2.5 software, the PING TimeTo Live (TTL) value is reported incorrectly as the first byte of the IP address.
- In some instances with RIP disabled on a Switch, the protocol continues to learn about its RIP neighbors.
- There is a defect which affects design implementation of the SuperStack 3 4900 in a layer 3 IP routing environment when Layer 2 redundancy and Spanning Tree are used. The 4900 will advertise RIP routes over a SpanningTree Blocked port but will not forward packets thru that blocked port. This causes networks to become unreachable. Please refer to 3Com's Knowledge Database, 3KB doc number 2.0.86624686.3428104 for some design guidelines. Access 3KB with the following URL:

<http://knowledgebase.3com.com/>

Select *Switches* and enter the 3KB doc number above in the *Open Solution by ID* field.(2724)

- If the last active port on a VLAN becomes inactive, the IP interface associated with the VLAN is not marked as inactive. As a result, the VLAN IP interface will appear as enabled in the Command Line Interface (CLI) even though it has been physically disabled. The effect of this is that the Switch will continue to advertise routes learned on the VLAN. This could cause networks to be unreachable.
- If Spanning Tree is disabled on your Switch, you must have each port assigned to an untagged VLAN. Ports can also be assigned to multiple tagged VLANs.

Refer to the 3Com website for periodic updates to the software.

Known Incompatibility Issues

- An incompatibility exists in the default settings for Link Aggregation between the Switch and the following 3Com products:
 - Switch 4007
 - Switch 3900
 - Switch 9300
 - CoreBuilder 9000 family
 - CoreBuilder 9400
 - CoreBuilder 3500
 - The products listed above disable auto-negotiation when a port is added to an aggregated link (trunk).
 - In order for link aggregation (trunking) to work, ports at either end of an aggregated link (trunk) must be identically configured. To resolve the incompatibility, you must complete the following steps:
 - 1 On any of the Switches listed, you must disable TCMP on a trunk (aggregated link) that connects to a Switch, as TCMP is not supported on the Switch.
 - 2 You must disable auto-negotiation on all ports on the Switch that you want to place in an aggregated link *before* you place them in the aggregated link.
 - Refer to the *Management Interface Reference Guide* on the 3Com Web site for more information about configuring aggregated links.
- An incompatibility exists when changing link speed from 10 Mbps Half Duplex to 100 Mbps half duplex. If auto-negotiation on the Switch is disabled and the link speed on the Switch is changed from 10 Mbps half duplex to 100 Mbps half duplex, there is a possibility that the link partner will not detect the change. The link will have to be broken and reconnected before the link partner will detect the speed and change link speed to 100 Mbps half duplex.

3Com Network Supervisor

3Com Network Supervisor Version 3.5.

To get the latest device support, use the Live Update function provided with Network Supervisor to get information about and install any new service pack or upgrade quickly and simply.

You can also download the latest service pack or upgrade from the 3Com web site at
<http://www.3com.com/3ns/>.

3Com Network Supervisor Advanced Package Version 1.0

Use the Bulk Agent Upgrade feature found in the Advanced Package to easily upgrade all your 3Com switches in your network.

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