

## Patch Release Note

# Patch SB244-03 For SwitchBlade 4000 Series Switches and AT-9800 Series Switches

## Introduction

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This patch release note lists the issues addressed and enhancements made in patch SB244-03 for Software Release 2.4.4 on existing models of SwitchBlade 4000 Series Switches and AT-9800 Series Switches. Patch file details are listed in Table 1.

**Table 1: Patch file details for Patch SB244-03.**

<b>Base Software Release File</b>	sb-244.rez
<b>Patch Release Date</b>	26-Nov-2002
<b>Compressed Patch File Name</b>	sb244-03.paz
<b>Compressed Patch File Size</b>	250571 bytes

This release note should be read in conjunction with the following documents:

- SwitchBlade Documentation Set for Software Release 2.4.3 (Document Number C613-03042-00 Rev E) and Release Note for Software Release 2.4.4 for SwitchBlade 4000 Switches and AT-9800 Series Switches (Document Number C613-10342-00 Rev A) available on the Documentation and Tools CD-ROM packaged with your switch, or from [www.alliedtelesyn.co.nz/documentation/documentation.html](http://www.alliedtelesyn.co.nz/documentation/documentation.html).
- AT9800 Series Switches Documentation Set for Software Release 2.4.3 (Document Number C613-03044-00 Rev B) and Release Note for Software Release 2.4.4 for SwitchBlade 4000 Switches and AT-9800 Series Switches (Document Number C613-10342-00 Rev A) available on the Documentation and Tools CD-ROM packaged with your switch, or from [www.alliedtelesyn.co.nz/documentation/documentation.html](http://www.alliedtelesyn.co.nz/documentation/documentation.html).



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**WARNING:** Using a patch for a different model or software release may cause unpredictable results, including disruption to the network. Information in this release note is subject to change without notice and does not represent a commitment on the part of Allied Telesyn International. While every effort has been made to ensure that the information contained within this document and the features and changes described are accurate, Allied Telesyn International can not accept any type of liability for errors in, or omissions arising from the use of this information.

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## Features in SB244-03

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Patch SB244-03 includes all issues resolved and enhancements released in previous patches for Software Release 2.4.4, and the following enhancements:

**PCR: 02414**      **Module: IPV6, SWI, IPG, VLAN**      **Network affecting: No**

MLD snooping is now supported on AT-9800 Series Switches and Rapier i Series Switches.

**PCR: 02451**      **Module: IPG, PIM, VLAN, SWI**      **Network affecting: No**

The following issues have been resolved:

- PIM was disabled when the RESET IP command was executed.
- PIM reverse path check was not working correctly.
- PIM\_DM assert was not working correctly.
- DVMRP messages were not being flooded correctly.
- Executing the SHOW PPP command sometimes caused a fatal error.
- IP forwarding was not working correctly on SwitchBlade 4000 Series Switches.
- Changes have been made for supporting non-contiguous IP subnetworks.

**PCR: 02471**      **Module: IPG**      **Network affecting: No**

The counter for transmitted ARP packets was incorrect. This issue has been resolved.

**PCR: 02480**      **Module: SWI**      **Network affecting: No**

On SwitchBlade 4000 Series Switches, the MIB browser could not see the slave controller card. This issue has been resolved.

**PCR: 02483**      **Module: SWI, TM**      **Network affecting: No**

When SwitchBlade 4000 Series Switches were operating with a full set of line cards, and the test module was enabled for all interfaces, an excessive amount of traffic was generated. This issue has been resolved.

**PCR: 02486**      **Module: SWI**      **Network affecting: No**

VLAN number 4077 could not be created. This issue has been resolved.

**PCR: 02487**      **Module: SWI**      **Network affecting: No**

When there were 4000 VLANs, executing the DESTROY VLAN=ALL command caused a fatal error. This issue has been resolved.

**PCR: 02490**      **Module: IPv6**      **Network affecting: No**

The ADD IPV6 ND command was not displayed by the SHOW CONFIGURATION DYNAMIC command. This issue has been resolved.

**PCR: 02491**      **Module: IPG**      **Network affecting: No**

The ARP cache is now updated when a gratuitous ARP request or reply packet is received.

**PCR: 02492**      **Module: SWI**      **Network affecting: No**

288MB RDRAM was initialised incorrectly, resulting in unpredictable behaviour. This issue has been resolved.

**PCR: 02493**      **Module: DHCP**      **Network affecting: No**

*Inuse* DHCP entries (that are displayed in the SHOW DHCP CLIENT command) will now expire and be reclaimed.

**PCR: 02494**      **Module: IPv6**      **Network affecting: No**

It was possible to add the same IPv6 prefix to different IPv6 interfaces. This issue has been resolved.

**PCR: 02497**      **Module: PPP**      **Network affecting: No**

The wrong error message was displayed if PPP compression over L2TP was attempted. The correct message is now generated, stating that the CREATE PPP command is invalid.

**PCR: 02499**      **Module: IPG**      **Network affecting: No**

Some parameters in the SET IP IGMP command had incorrect ranges. This issue has been resolved. The correct ranges are:

```
SET IP IGMP [LMQI=1..255] [LMQC=1..5]
             [QUERYINTERVAL=1..65535] [QUERYRESPONSEINTERVAL=1..255]
             [ROBUSTNESS=1..5] [TIMEOUT=1..65535]
```

**PCR: 02502**      **Module: Ping, IPv6**      **Network affecting: No**

If multiple IPv6 interfaces shared the same link-local address, pings to the link-local address sometimes failed. This issue has been resolved.

**PCR: 02503**      **Module: NVS**      **Network affecting: No**

Loading files to NVS caused a fatal error. This issue has been resolved.

**PCR: 02504**      **Module: SWI**      **Network affecting: No**

A warning was not given if the egress limit for a port was not set to a multiple of 64. This issue has been resolved.

**PCR: 02507**      **Module: SWI**      **Network affecting: No**

ARP entries on the SwitchBlade 4000 Series Switch controller card are now updated correctly if a device changes to a different line card.

**PCR: 02509**      **Module: DVMRP**      **Network affecting: No**

The source net mask has been removed from DVMRP *prune*, *graft* and *graft-ack* messages.

**PCR: 02511**      **Module: Ping**      **Network affecting: No**

Executing the PING command sometimes caused a memory leak. This issue has been resolved.

**PCR: 02516**      **Module: IPG**      **Network affecting: No**

Untagged IGMP packets were erroneously sent out of tagged ports. This issue has been resolved.

## Features in SB244-02

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Patch file details are listed in Table 2:

**Table 2: Patch file details for Patch SB244-02.**

<b>Base Software Release File</b>	sb-244.rez
<b>Patch Release Date</b>	1-Nov-2002
<b>Compressed Patch File Name</b>	sb244-02.paz
<b>Compressed Patch File Size</b>	57728 bytes

Patch SB244-02 includes all issues resolved and enhancements released in previous patches for Software Release 2.4.4, and the following enhancements:

**PCR: 02406      Module: IPV6                      Network affecting: No**

Some parameters in MLD specific query messages were not working correctly. This issue has been resolved.

**PCR: 02426      Module: IPV6                      Network affecting: No**

The ENABLE IPV6 MTUDISCOVERY and SET IPV6 MTU INTERFACE commands were not displayed in the SHOW CONFIGURATION DYNAMIC command. This issue has been resolved.

**PCR: 02427      Module: DHCP                              Network affecting: No**

DHCP entry reclaim checks are now delayed by 10 seconds if the entry is unroutable because the interface is not up.

**PCR: 02428      Module: IPV6                      Network affecting: No**

Link-local address behaviour was incorrect. Also, the PUBLISH parameter was not updated by the SET IPV6 INTERFACE command, or displayed in the SHOW IPV6 INTERFACE command. These issues have been resolved.

**PCR: 02450      Module: IPV6                      Network affecting: No**

Large local packets were not being fragmented. Also, the More Fragment flag in the IPv6 fragment header was not being set correctly. These issues have been resolved.

**PCR: 02452      Module: IPV6                      Network affecting: No**

Received Router Advertisements (RAs) were discarded when the interface was enabled to send RAs. This issue has been resolved.

**PCR: 02458      Module: SWI, GUI                      Network affecting: No**

The status page in the GUI was not displaying correctly. This issue has been resolved.

**PCR: 02459      Module: CORE                              Network affecting: No**

The SLVPASSWORD string in the ENABLE SYSTEM SYSR SLVFEATURE and ENABLE SYSTEM SYSR SLVRELEASE commands was not copying correctly. This issue has been resolved.

- PCR: 02460**      **Module: SWI**      **Network affecting: No**  
Sometimes a port reported an interface as being down, but the port counters kept incrementing. This issue has been resolved.
- PCR: 02461**      **Module: SWI**      **Network affecting: No**  
The CREATE TRIGGER MODULE=SWITCH command now recognises ports in *x.y* notation when specifying the PORT parameter.
- PCR: 02462**      **Module: SWI**      **Network affecting: No**  
A fatal error occurred on SwitchBlade 4000 Series Switches when booting from a script that added ports to a trunk group that was hot swapped out. This issue has been resolved.
- PCR: 02463**      **Module: DVMRP, IPG**      **Network affecting: No**  
Support for multi-homed interfaces has been added.
- PCR: 02467**      **Module: CORE**      **Network affecting: No**  
The board descriptions have changed for some instances of AT-9800 Series Switches.
- PCR: 02468**      **Module: SWI**      **Network affecting: No**  
When a Telnet session was closed, SWITCH debug was not disabled if it had been enabled for the Telnet session. This issue has been resolved.
- PCR: 02469**      **Module: TM**      **Network affecting: No**  
After an ASYN port test, the port is now reset to its pre-test state if the test was started by a user connected to the same ASYN port.
- PCR: 02470**      **Module: SWI**      **Network affecting: No**  
The Built-in Self Test failed on SwitchBlade chassis. This issue has been resolved.
- PCR: 02476**      **Module: VRRP, CORE**      **Network affecting: No**  
The configuration was not restored correctly after a line card was hot swapped out. This issue has been resolved.
- PCR: 02478**      **Module: SCRIPT**      **Network affecting: No**  
A string compare error was occurring in the conditional statement of the script. This issue has been resolved.

## Features in SB244-01

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Patch file details are listed in Table 3:

**Table 3: Patch file details for Patch SB244-01.**

<b>Base Software Release File</b>	sb-244.rez
<b>Patch Release Date</b>	23-Oct-2002
<b>Compressed Patch File Name</b>	sb244-01.paz
<b>Compressed Patch File Size</b>	84666 bytes

Patch SB244-01 includes the following enhancements:

**PCR: 01285      Module: OSPF      Network affecting: No**

When an interface went down (or was disabled) on an AS border router, the external routes were not removed from the routing domain. Such routes are now removed by premature aging.

**PCR: 02353      Module: SWI      Network affecting: No**

The learning unit was locking under heavy load. This could result in pings to a network device failing, and over an hour all dynamic MAC addresses could be lost. Sometimes a large number of pause frames were generated by the system. This issue has been resolved.

**PCR: 02359      Module: IPG      Network affecting: No**

When an IP Multihomed interface was used as an OSPF interface, neighbour relationships were only established if the IP interface for OSPF was added first in the configuration. Now, OSPF establishes neighbour relationships regardless of the IP Multihomed interface configuration order.

**PCR: 02361      Module: SWI      Network affecting: No**

The SwitchBlade mirror port field on the second instance of a switch chip was displaying as though it was the first instance. This issue has been resolved.

**PCR: 02394      Module: IPG, SWI, DVMRP      Network affecting: No**

The following issues have been resolved:

- IP route updating was not working correctly
- IGMP snooping behaviour was incorrect
- The SHOW DVMRP FORWARDING command displayed incorrect port numbers.

**PCR: 02396      Module: DHCP      Network affecting: No**

DHCP RENEW request messages are now unicast (as defined in the RFC), not broadcast.

**PCR: 02397      Module: DVMRP      Network affecting: No**

After a prune lifetime had expired, the interface was not joined back to the DVMRP multicast delivery tree. This issue has been resolved.

**PCR: 02398      Module: IPV6      Network affecting: No**

The following issues have been resolved:

- It was possible to assign the same network on different IPV6 interfaces
- The loopback address was being added to other interfaces
- The tunnel configuration was not showing correctly in IPV6 configuration commands
- RIPv6 now sets the metric of routes for interfaces that are DOWN to 16, and immediately sends responses when the link status of VLAN interfaces changes.

**PCR: 02401      Module: IPV6      Network affecting: No**

Neighbour discovery and PIM6 caused a fatal error when IPv6 was not enabled, or when the IPv6 feature license was not present. This issue has been resolved.

**PCR: 02406      Module: IPV6      Network affecting: No**

A Router-Alert option has been added. Also, the SHOW IPV6 MLD INTERFACE command now works correctly.

**PCR: 02407      Module: IPG      Network affecting: No**

ICMP was sending too many messages back as responses to fragmented packets. This issue has been resolved.

**PCR: 02409      Module: IPG      Network affecting: No**

A warning now appears when the DELETE IP INTERFACE command is executed before the DELETE DVMRP INTERFACE command.

**PCR: 02410      Module: VRRP      Network affecting: No**

VRRP pre-empt mode was not working with advertisement updates of 1 second or more because this did not allow for interface start time on startup. Now a check is made to verify that interfaces are UP before timers are started.

**PCR: 02413      Module: IPG, IPX2      Network affecting: No**

Static IP ARP entries could not be added to hardware at boot time. Also, an IPX circuit could not be deleted from hardware. These issues have been resolved.

**PCR: 02416      Module: DVMRP, IPG      Network affecting: No**

Multicasting forwarding was not working correctly. This issue has been resolved.

**PCR: 02417      Module: VLAN, IPG      Network affecting: No**

The IGMP port list was not updating correctly when a port went down. This issue has been resolved.

**PCR: 02418      Module: IPV6      Network affecting: No**

ICMPv6 was returning an error for non-zero fragment offsets. This issue has been resolved.

**PCR: 02415      Module: IPG                      Network affecting: No**

Packets with a RIP source address and next hop address that are not on the same subnet as the interface will now be processed. If the received next hop is not on the same subnet, it is treated as 0.0.0.0.

**PCR: 02420      Module: SWI                      Network affecting: No**

On GBICs, the link was forced up when the transmit fibre was removed. Once up, the link could not be taken down again by removing the transmit fibre. This issue has been resolved.

**PCR: 02423      Module: SWI                      Network affecting: No**

IGMP messages sometimes caused a fatal error. This issue has been resolved.

**PCR: 02425      Module: IPG                      Network affecting: No**

Multicast downstream groups are now added and deleted correctly.

## Errata

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AT-9800 Series Switches do not have Ethernet interfaces (for example, eth0). Previously released documentation incorrectly states that these interface types are valid. AT-9800 switch ports are Ethernet ports, and these are referenced in commands with the PORT parameter.

IPSec and ISAKMP are not available on the 2.4.4 release for SwitchBlade 4000 Series Switches and AT-9800 Series Switches.

## Availability

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Patches can be downloaded from the Software Updates area of the Allied Telesyn web site at [www.alliedtelesyn.co.nz/support/updates/patches.html](http://www.alliedtelesyn.co.nz/support/updates/patches.html). A licence or password is not required to use a patch.



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