

Customer Release Notes

A-Series A4

Firmware Version 6.81.08.0005 June 2016

INTRODUCTION:

This document provides specific information for version 6.81.08.0005 of firmware for A-Series A4 products:

A4H124-24FX	A4H254-8F8T	A4H124-24	A4H124-24P
A4H124-48	A4H124-48P		

Extreme Networks recommends that you thoroughly review this document prior to installing or upgrading this product.

For the latest firmware versions, visit the download site at: www.extremenetworks.com/support/contact

FIRMWARE SPECIFICATION:

Status	Version No.	Туре	Release Date
Current Version	6.81.08.0005	Maintenance Release	June 2016
Previous Version	6.81.07.0004	Maintenance Release	March 2016
Previous Version	6.81.06.0002	Maintenance Release	November 2015
Previous Version	6.81.05.0003	Maintenance Release	July 2015
Previous Version	6.81.04.0001	Maintenance Release	April 2015
Withdrawn	6.81.03.0007	Maintenance Release	March 2015
Previous Version	6.81.02.0007	Maintenance Release	Sept 2014
Previous Version	6.81.01.0027	Feature Release	April 2014
Previous Version	6.71.04.0004	Maintenance Release	January 2014
Previous Version	6.71.03.0025	Maintenance Release	October 2013
Previous Version	6.71.02.0008	Maintenance Release	July 2013
Previous Version	6.71.02.0007	Feature Release	June 2013
Previous Version	6.71.01.0067	Feature Release	May 2013
Previous Version	6.61.08.0013	Maintenance Release	March 2013
Previous Version	6.61.07.0010	Maintenance Release	October 2012
Previous Version	6.61.06.0009	Maintenance Release	August 2012
Previous Version	6.61.05.0009	Maintenance Release	July 2012
Previous Version	6.61.03.0004	Maintenance Release	April 2012
Previous Version	6.61.02.0007	Feature Release	March 2012

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Status	Version No.	Туре	Release Date
Previous Version	3.03.02.0002	Maintenance Release	September 2011
Previous Version	3.03.01.0011	Feature Release	June 2011
Previous Version	3.02.02.0002	Maintenance Release	February 2011

BOOTPROM COMPATIBILITY:

This version of firmware is compatible with all boot code versions.

NETWORK MANAGEMENT SOFTWARE SUPPORT:

Network Management Suite (NMS)	Version No.
NMS Automated Security Manager	6.2
NMS Console	6.2
NMS Inventory Manager	6.2
NMS Policy Manager	6.2
NMS NAC Manager	6.2

If you install this image, you may not have control of all the latest features of this product until the next version(s) of network management software. Please review the software release notes for your specific network management platform for details.

PLUGGABLE PORTS SUPPORTED:

MGBICs	Description
MGBIC-LC01	1000Base-SX, IEEE 802.3 MM, 850 nm Short Wave Length, 220/550M, LC SFP
MGBIC-LC03	1000Base-SX-LX/LH, MM, 1310 nm Long Wave Length, 2 KM, LC SFP
MGBIC-LC07	Extended 1000Base-LX, IEEE 802.3 SM, 1550 nm Long Wave Length, 110KM, LC SFP
MGBIC-LC09	1000Base-LX, IEEE 802.3 SM, 1310 nm Long Wave Length, 10 KM, LC SFP
MGBIC-MT01	1000Base-SX, IEEE 802.3 MM, 850 nm Short Wave Length, 220/550 M, MTRJ SFP
MGBIC-02	1000Base-T, IEEE 802.3 Cat5, Copper Twisted Pair, 100 M, RJ45 SFP
MGBIC-BX10-D	1000Base-BX10-D Single Fiber SM, Bidirectional, 1490nm Tx / 1310nm Rx, 10 km, Simplex LC SFP (must be paired with MGBIC-BX10-U)
MGBIC-BX10-U	1000Base-BX10-U, 1 Gb, Single Fiber SM, Bidirectional 1310nm Tx / 1490nm Rx, 10 km, Simplex LC SFP (must be paired with MGBIC-BX10-D)
MGBIC-BX40-U	1 Gb, 1000Base-BX40-U Single Fiber SM, Bidirectional, 1310nm Tx / 1490nm Rx, 40 Km, Simplex LC SFP (must be paired with MGBIC-BX40-D)
MGBIC-BX40-D	1 Gb, 1000Base-BX40-D Single Fiber SM, Bidirectional, 1490nm Tx / 1310nm Rx, 40 Km, Simplex LC SFP (must be paired with MGBIC-BX40-U)
MGBIC-BX120-D	1 Gb, 1000Base-BX120-D Single Fiber SM, Bidirectional, 1590nm Tx / 1490nm Rx, 120 Km, Simplex LC SFP (must be paired with MGBIC-BX120-U)
MGBIC-BX120-U 1 Gb, 1000Base-BX120-U Single Fiber SM, Bidirectional, 1490nm Tx / 120 Km, Simplex LC SFP (must be paired with MGBIC-BX120-D)	

PRODUCT FEATURES:

What's New in 6.81

RADIUS Accounting - Extended Accounting to include management-access users.

Diagnostic Message MIB - The Enterasys Diagnostic MIB allows network administrators to monitor the current.log file through snmp.

RADIUS Accounting Client MIB - Enterasys RADIUS Accounting Client MIB allows network administrators to configure RADIUS accounting

MAC Authentication auth-mode - MAC authentication can be configured to use the RADIUS server configured username credential where the password is the same as the username.

MIB object chEnvAmbientStatus of the CTRON-ENVIRONMENT-MIB — Allow remote SNMP monitoring of thermal state of the master unit.

Enterasys Networks' Multiple Authentication MIB Notification Group – Added support for etsysMultiAuthSuccess, etsysMultiAuthFailed, etsysMultiAuthTerminated, etsysMultiAuthMaxNumUsersReached notifications.

Login Accounts – Increased the number of supported local login accounts from 16 to 32.

Existing Product Features:

1 Gbps Full Duplex Stacking (2 Gbps bi-directional) Stacking Interconnect	MGBIC support: MGBIC-LC01, MGBIC-LC03, MGBIC-LC07, MGBIC-LC09, MGBIC-02, MGBIC-08, MGBIC-MT01
8 Priority Queues Per port	MAC Address Table – 16K/A4
Weighted Round Robin Queuing	RFC 3580 VLAN authorization using MAC authentication
802.3x Flow Control	Jumbo Frame (up to 9K)
Per Port Broadcast Suppression	Auto-negotiation
Inbound Rate Limiting	Ability to configure mdi/mdix port settings via CLI
802.3ad – Dynamic and Static Link Aggregation	802.1p Mapping to 6 queues
802.1s – Multiple Spanning Tree Protocol (up to 4 instances)	Queuing Control Strict & WRR
802.1w - Rapid Spanning Tree	Ability to set port advertise ability via CLI
Spanning Tree Backup Root	Port Mirroring (up to 8 ports anywhere in the stack)
Legacy Path Cost	DHCP Server
Link Flap Detection	Layer 2 ACLs
Spanning Tree SpanGuard	802.1X Authentication
Spanning Tree Loop Protect	Non Strict 802.1X default RFC 3580 with Auth Failure
802.1p – Traffic Management	MSTP Multisource Detection
802.1Q – VLAN tagging and identification	Cabletron Discovery Protocol (CDP)
802.1D	RADIUS Client

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Packets can be dropped, shaped, marked (with an IP DSCP or IP precedence value), or sent unchanged to	Session-Timeout and Termination-Action RADIUS Attributes Support
the switching process.	To a (CDADILIO A di a disadia a (DADILIO Dasla)
CDP Support	Turn off RADIUS Authentication (RADIUS Realm)
CiscoDP with MIB Support	MAC Authentication / MAC Auth Masking
Cisco Phone Discovery	MAC Authentication retained after ageout
GVRP	RADIUS Accounting for MAC Authentication
IGMP v1/v2/v3 and IGMP Snooping (up to 256 multicast groups)	EAP Pass Thru
Syslog	Dynamic and Static MAC Locking
SSHv2 Support	CLI Management
Private (Protected) Port (Private VLAN)	Telnet Support
Dynamic VLAN Assignment (RFC 3580)	WebView
Dynamic Egress	SSL Interface to WebView
Discard VLAN Tagged Frames	RMON (4 groups)
Node/Alias Table	RMON View in the CLI
SNMPv1, SNMPv2c, SNMPv3	RMON Packet Capture/Filtering Sampling
Text-based Configuration Upload/Download	RMON View in CLI with Persistent Sets
Alias Port Naming	Simple Network Time Protocol
Configurable Login Banner	New MAC Trap
LLDP-MED Network-Policy TLV	Secure directory
Basic IPv4 Routing (static, RIP v1/v2)	Enterasys Policy Single user or User + IP Phone
Console Disconnect	Security Log
Service Access Control Lists (SACL)	Tx Queue Monitoring
TACACS+ management	Secure Copy / Secure FTP (SCP/SFTP)
Mixed Strict and WRR Port Transmit Queue settings	IPv4/IPv6 Dual Host Management Support (SNMP,Telnet,SFTP,SCP,SSH,RADIUS)
Enterasys Spanning Tree Diagnostic MIB	TDR-based cable status check detects cable breaks and disconnections
ARP Spoof Protection	IPsec for RADIUS transactions
Flexible Link Aggregation Groups	Web Authentication (PWA) / Web Redirect PWA+
SNTP Server-Client Authentication	Time Based Reset
CoS MIB based Flood Control (broadcast, multicast, and unknown unicast)	DHCP Spoof Protection
Automated Deployment	Convergence End Points (CEP) Phone Detection
Multicast Listener Discovery (MLD) Snooping	L2 Multicast Querier for IGMP and MLD

INSTALLATION AND CONFIGURATION NOTES:

Warning:

- Direct firmware upgrades to 6.61.05 from 3.02 (and previous) images may leave the switch in an unrecoverable state. It is required to upgrade to 3.03 prior to loading 6.61.05.
- 6.61.05.009 contains new boot PROM code that will be programmed into the PROM the first time the image is booted. This process should take less than 3 minutes and the switch will reboot itself once PROM programming is complete. Do not remove power during this process. If the process of programming is interrupted it may leave the switch in an unrecoverable state.

An SNMPv3 configuration file created in a release 03.03 will fail when loading into a switch running 6.61.
 Workaround: after a switch has been upgraded to 6.61, a previously created SNMPv3 configuration file MUST be re-generated (saved) using 6.61 code in order for SNMPv3 to function correctly.

Note:

- Stacks running images prior to 6.61.02 may be upgraded to 6.61 (or later); however a stack running 6.61 (or later) will not detect a switch added to the stack if it is running any code prior to 6.61.02. Any switch added to a 6.61 (or later) stack must be individually upgraded to 6.61.02 (at a minimum), prior to attempting to add the switch to the stack.
- As a best practice, Extreme Networks recommends that prior to upgrading or downgrading the firmware on your switch, you save the existing working configuration of the system by using the show config outfile configs/<filename> command. Please note that you will need a copy of your previous configuration if you need to back-rev from 6.61.02 to a previous firmware version.
- Significant differences in feature set exist between 6.61 and previous images. This includes the replacement of the Diffserv application with Policy. As a result some configuration may be lost on upgrade to 6.61.02 (or later), from previous images.

The A-Series switch most likely will not be shipped to you pre-configured with the latest version of software. It is strongly recommended that you upgrade to the latest firmware version BEFORE deploying any new switches. Please refer to the product pages at www.extremenetworks.com/support/ for the latest firmware updates to the A-Series A4 and follow the TFTP download instructions that are included in your Configuration Guide or CLI Reference.

Soft copies of the A4 Configuration Guide and the A4 CLI Reference are available at no cost to the user on the Extreme Networks Extranet site, www.extremenetworks.com/support/.

Please refer to the "Firmware" tab on the A2 and A4 product pages on the Extranet downloads site to view information on changes previous to the release information listed in this document.

Policy Capacities

Maximum Policy roles (profiles) per system	15
Maximum number of users per port	2 (PC + Phone)
Maximum number of unique rules per system	100
Maximum number of unique masks per system	9
Maximum number of unique masks per profile	9

^{*} The EtherType to VLAN mapping rule is supported only when 'numusers' (number of users allowed to authenticate on a port) is set to 1.

Router Capacities

^{**} The VLAN to policy mapping rule is supported only when 'numusers' (number of users allowed to authenticate on a port) is set to 2 (PC + Phone).

^{***} When in multi-user mode ("PC + Phone"), the combined user and phone profiles may not exceed 9 unique masks.

^{****} An IRL is considered a unique rule and uses a unique mask.

Feature	Capacity	
ARP Dynamic	2024	
ARP Static	512	
Route Table	64	
Static Routes	64	
RIP Routes	2500	
IP Interfaces	24	
Secondary IP addresses per Interface	31	
IP Helper Address	6 Per Interface	
Access Rules (inbound only)	100	
Access Rules – Per ACL	20 per ACL, 20 per interface	
IGMP Groups	256	

FIRMWARE CHANGES AND ENHANCEMENTS:

Changes and Enhancements in 6.81.08.0005

19702 Corrected an issue in CEP LLDP-MED detection where Class Type 1 devices were incorrectly assigned to a policy.

19694 Removed a check (first introduced in 6.81.02) that terminated telnet/ssh sessions if the window size was small.

19511 Corrected an issue where polling of the etsysResourceUtilizationMIB could cause a loss of management and/or a reset.

19671 Corrected a potential user VLAN assignment error when an authenticated VLAN assignment is removed.

19633 Corrected an issue with multicast forwarding to stack members on a change of stacking port link state.

19685 Corrected an issue in Cisco Discover Protocol support where VMware ESXi devices are not shown as neighbors.

19689 Corrected a reset issue in the tEmWeb Task that resulted in the message "tEmWeb(0xa1da038) Fault(0x00000300) SRR0(0x013C0354) SRR1(0x0000B032)".

Changes and Enhancements in 6.81.07.0004

19650 Corrected a reset issue that can occur when an IP helper address is configured for the same subnet as the interface it is added to.

19644 Corrected an issue in Port mac locking that could result in a ""nim_events.c(213)" reset event.

19320 Corrected an issue where the SNTP server table is restored in reverse order from entry configuration.

19614 Added support for UDP port 7777 to "ip forward-protocol".

Note: Other ports not specified the configuration guide are still not supported by this functionality.

19652 Corrected an issue with processing LLDP packets that could result in a reset with the message "Last switch reset was caused by buff.c(546):"

19649 Corrected an issue in the display of radius server configuration that could erroneously be detected as a configuration change.

Changes and Enhancements in 6.81.06.0002

19608 Corrected a potential reset condition when attempting to save a prompt ("set prompt"), of 50 or more characters.

19511 Corrected a potential loss of management and eventual reset condition seen when monitoring the etsysResourceUtilizationMIB.

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Changes and Enhancements in 6.81.06.0002

19586 Corrected an issue where the snmpEngineTime (1.3.6.1.6.3.10.2.1.3) MIB value rolled over after 497 days of system uptime instead of the maximum allowed 24855 days.

19579 Corrected an issue where the "set length" command was not persistent.

19528 Corrected an issue in the TFTP application that may have resulted in corrupted file transfers.

19450 Corrected an issue in the output of the "show vlan portinfo vlan" command, where some egress ports may not be displayed.

19581 Addressed an issue in host packet processing that could result in a reset with the error message, "edb_bxs.c(1314) 286 %% Last switch reset caused by Fault(0x00000E00) SRR0(0x01554000)".

19583 Corrected a memory loss issue in SNMP trap processing that could result in a reset.

19588 Corrected a reset issue in the LLDP application, which produced the log entry, "reset caused by buff.c(546)"

19599 Corrected a condition that prevented switching user's VLAN from RFC3580 assigned to Policy assigned.

Changes and Enhancements in 6.81.05.0003

19553 Corrected a potential reset condition when processing jumbo 802.1x and 802.1s control frames.

19267 Corrected an issue that could prevent SFPs from linking on bootup if auto-negotiation is disabled.

19534 Corrected an SNMP issue with in the ctChasPowerTable where power supply redundancy may be incorrectly returned.

19484 Corrected a logic error with handling of an apostrophe as the second character of a system login. This error previously resulted in the incorrect storage of the password.

Changes and Enhancements in 6.81.04.0001

19532 Corrected an issue where configuration changes are not saved on member units. This may result in loss of configuration on change of master unit.

Changes and Enhancements in 6.81.03.0007

Added Support for the Extreme Stacking MIB.

Note: Not all objects translate to A4-Series functionality (see know issues).

19319 The TLS_FALLBACK_SCS mechanism was added to SSL. When run with a supporting browser, it will prevent a third party from exploiting the SSL protocol fallback mechanism (CVE-2014-3566). Note: SSL is supported only for the purpose of web based management and is disabled by default.

19383 Corrected a potential method of corrupting the startup configuration file. This may previously have resulted in the continuous rebooting of the system on power up.

19276 Corrected an issue where ports could erroneously be removed from link aggregations. This could result in users MAC addresses being learned on incorrect ports.

19437 Corrected a reset issue with support of the LLDP POE tx-tlv which resulted in the message "NIM A4 reset 0x0000BADD caused by nim_t :Task ID:0x0a6dcd20".

19434 Corrected a reset issue which resulted in the message "Nim_T reset due to TASK 0x0a758ec0"

19287 Corrected a reset issue associated with accessing the ctChasFanModuleState MIB object.

19288 Corrected an issue that prevented do1x authentication of Cisco Voice Gateways.

19377 Corrected an issue that prevented the disabling of an admin login account from being persistent.

Changes and Enhancements in 6.81.03.0007

19311 Corrected an issue that could prevent host transmission of a gratuitous ARP on master unit failover.

18907 Corrected an issue with support of the NetSight Inventory Manager "Configuration Template".

19305 Addressed a delay in transmitting LLDP Network Policy on ports that are authenticating. It had been observed that Polycom IP phones using LLDP may timeout on booting.

19330 Corrected reset issue that resulted in the message "broad_cpu_intf.(2992): Error code 0x00000FFF"

19332 Corrected a reset issue in the SNMP Task that resulted in the message "edb_bxs.c(1314) 73 %% Last switch reset caused by Fault(0x00000300) SRR0(0x01104270) ESR(0x00800000) MSR(0x00000200) DEAR(0x0000000C) IMISS(0x01104270)".

19366 Corrected an issue where the output of "show lldp port remote-info" was missing remote-info POE Device-Type information.

19241 Corrected an issue where erroneous POE traps "etsysPseChassisPowerNonRedundant" and "etsysPseChassisPowerRedundant" were transmitted.

19318 Corrected an issue where the "set length" command was not persistent.

Changes and Enhancements in 6.81.02.0007

Modified Spanning Tree loop protect behavior to disable a protected port when in a state where multiple BPDU sources have been detected.

18787 Corrected a potential reset condition in the "dot1s_timer_task" task, which produced the log entry, "Last switch reset was caused by sal.c(1184): Error code 0x00000000".

19196 Addressed an issue which allowed corrupted DHCP packets, to be looped back on dhcpsnooping trusted ports.

19163 Corrected a potential reset condition in the "ipMapForwardingTask" task, which produced the log entry, "sal.c(1184): Error code 0x00000000".

Prevent logging the informational message "License file not present" when no license file is found on boot.

16086 Attempt to recover from a L2 table DMA error that previously resulted in a reset with a log entry of: "soc_l2x_thread DMA failed too many times". On an L2 Table DMA failure we will now walk the table to find the corrupted entry and remove it. The expected warning message is: "warning soc_l2x_thread: Bad L2 table entry found. Recovering".

19249 Modified the logging behavior of SNTP to prevent excessive changed system time messages, "sntp_client.c(2109) 62 %% SNTP has changed system time".

18919 Corrected a potential exception condition with the resulting log message "Last switch reset caused by Fault(0x00000300)".

18870 Corrected a potential reset condition in the "snoopTask" task, which produced the log entry, "sal.c(1197): Error code 0x00000000".

18880 Corrected an issue where Initiating a Secure Copy (SCP) file transfer could result in loss of management.

18907 Corrected an issue that prevented clearing the SNMP community name public using NetSight.

19033 Corrected an issue in TACACS+ command accounting, where the receipt of an unknown TACAC reply packet caused the CLI to become unresponsive.

18931 Syslog messages will now be generated on SNMP user authentication failure.

Changes and Enhancements in 6.81.02.0007

18864 Corrected an issue with timed resets, where the current configuration would be saved automatically even if the SNMP Persistmode was set to manual.

18861 Added support for the ctAliasEntryClearAll object of the Ctron Alias MIB.

Note: This change now requires Netsight Management Software 5.1/6.1 or higher to read the Alias table.

18490 Corrected an issue where Loop Protect could erroneously lock a link aggregation.

19257 Corrected an issue with Policy CoS rate limiter implementation that could cause loss of Spanning Tree BPDUs.

19158 Corrected an issue that resulted in erroneous LLDP traps.

IldpStatsRemTablesInserts + Wrong Type (should be gauge 32 or Unassigned32) xxx IldpStatsRemTablesDelets + Wrong Type (should be gauge 32 or Unassigned32)xxx IldpStatsRemTablesDrops + Wrong Type (should be gauge 32 or Unassigned32)xxx IldpStatsRemTableAgeOuts + Wrong Type (should be gauge 32 or Unassigned32)xxx

Changes and Enhancements in 6.81.01.0027

19793 Ported Common Vulnerabilities and Exposures (CVE) patches to SSH to address: CVE-2006-4925, CVE-2008-1657, and CVE-2012-0814. Note: Vulnerability scan tool that report vulnerabilities based on SSH version may still report these as issues.

Changes and Enhancements in 6.71.04.0004

18891 The output of the CLI command "show spantree stats active", will now display the role of lag member physical ports as "disabled". Previously their role was displayed as "designated".

18691 Corrected an issue in the implementation of the Enterasys Resource Utilization MIB, where setting etsysResource1minThreshold to zero, did not prevent etsysResourceLoad1minThresholdExceeded notifications.

18761 Corrected an issue where etsysMACLockingMACViolation traps could erroneously be generated

Changes and Enhancements in 6.71.03.0025

18771 Corrected an issue where an 802.1x supplicant client's packet are leaked to the network during the authentication process.

17978 Allow local login authentication, when TACACS+ management authentication is configured and the TACACS+ server is offline.

18421 Corrected an issue where 802.1x supplicant EAP packets where flooded to other ports.

16911 Corrected an issue where the "show logging default" command, displays the incorrect severity values.

18584 Addressed an issue in MAC Locking application that could result in a reset with the error message, "nim_events.c(213): Error code 0x0000BADD"

18554 Corrected a port VLAN mapping error on platforms having more than 24 ports. This issue prevented routing on the upper 24 ports.

18569 Corrected an issue with the interaction of MAC Locking and 802.1x, which could prevent client network access.

18383 Addressed a reset memory corruption issue that could result in a system reset.

18468 Modified the IP helper application to allow forwarding of packets with a TTL=1. This previously prevented one IP Phone vendor's bootp requests from being forwarded.

Changes and Enhancements in 6.71.03.0025

18483 Corrected an issue with the "show reset" command which prevented the display of scheduled resets.

18494 Corrected an issue with the MIB object etsysConfigMgmtChangeDelayTime that prevented the use of scheduled resets

18550 Added password support for the "! " character. Previously its use would result in an additional space being added to the end of the password string on reset.

18596 The "clear snmp community <name>" command will now remove the community name when using the encrypted community name. The command will not work without specifying one or the other.

Changes and Enhancements in 6.71.02.0008

18589 Corrected an issue where a switch exposed to VRRP traffic, may respond to an ARP request for its own host IP address, with the MAC address of the VRRP Virtual IP address. This issue was first introduced in release 6.71.01.0067 and may result in network connectivity problems.

Changes and Enhancements in 6.71.02.0007

Support Automated Deployment – This feature allows a newly installed device with no configuration (default configuration), to obtain the latest firmware revision and/or configuration automatically from the network.

Changes and Enhancements in 6.71.01.0067

17239 Corrected issue where the etsysMultiAuthSessionAuthAttemptTime MIB object was not updated each time a session attempted re-authentication.

17419 Corrected an issue where changing a port mirror destination port, to a port on a different unit, could cause the mirror to fail.

Changes and Enhancements in 6.61.08.0013

16442 Corrected an issue with DHCP relay agent that could prevent completion of the DHCP process.

16911 Corrected incorrect values displayed in the output of the "show logging default" command.

17038 Corrected an issue with failing to timeout TACACS+ transactions. Loss of contact with the TACACS server could have resulted in loss of switch management.

17046 Addressed potential loss of configuration when upgrading image from 6.3

17081 Adapted disputed BPDU algorithm to support Cisco 2950 MSTP/RSTP behavior, which previously prevented spanning tree convergence.

17497 The timing of a reset configured by the "reset at" command now takes into account the offset configured through the "set summertime enable" command.

18021 Corrected an issue with enabling VLAN authenticated, Wake-On-LAN devices.

17949 Corrected a display issue with the "show mac port" command being case sensitive.

17884 The output of the "show port status" command displayed the an MGBIC-08 as 1000-lx. It is now displayed as 1000-lx/lh.

17137 The output of the "show port status" command displayed an MGBIC-LC03 as 1000-sx. It is now displayed as 1000-lx/lhmm.

Changes and Enhancements in 6.61.08.0013

17875 Addressed a VLAN egress issue where a port's statically applied egress could be cleared by removal of policy applied egress.

17797 Addressed a display issue with output of "show spantree nonforwardingreason" so it accurately reports the non-forwarding reason.

17717 Corrected an issue where "show config outfile" would display corrupted file names, when TACACS was used to authenticate the command.

17673 Corrected issue with calculating profile use counts. Previous the output of "show policy profile all", could incorrectly display an applied profile as not as being in use.

17498 Corrected an issue with the processing of large LLDP PDUs that previously resulted in a system reset.

17485 Corrected an issue in TACACS+ authentication that could hang SSH and Telnet sessions.

17482 Added SNMP support for ifdescr (1.3.6.1.2.1.2.2.1.2) for SFP ports. Previously Netsight shows installed MGBIC-BX## as not installed.

17479 Resolved an issue with link up/down messages not displaying on the local console.

17478 Corrected an issue with memory utilization associated with saving configuration files. This issue could result in memory exhaustion resulting in a reset.

17286 Corrected an issue with VLAN Authorization (RFC 3580), where RADIUS VLANID tunnel attributes greater than 999 were not accepted.

18129 Corrected an issue with archiving configurations using NetSight Inventory Manager

Changes and Enhancements in 6.61.07.0010

15668/16748/17266 Addressed an issue with IGMP snooping which resulted in loss of management with error "MRT: assertion (0) failed at line 1893 file ../../../src/application/ip_mcast/vendor/igmp2/prefix.c error at an aprox rate of 10 entries/s" or "edb_bxs.c(1226) 110 %% Last switch reset caused by prefix.c(1941): Error code 0x00000000, after xx second".

16602 Addressed a RADIUS authentication issue which could cause a reset with error "edb_bxs.c(1226) 204 %% Last switch reset caused by Fault(0x00000e00) SRR0(0x00e9d490) ESR(0x00000000) MSR(0x00001200) DEAR(0x31303203) IMISS(0x00e9d490)" while processing a RADIUS response packet.

16864 Resolved an issue associated with SNMP configuration with error at boot up "The following commands in "startup-config.cfg" failed:".

17017/17027 Resolved a code exception in SNMP task with reset "BOOT[141143864]: edb_bxs.c(1226) 108 %% Last switch reset caused by Fault(0x00001100) SRR0(0x01162ae8) SRR1(0x4000b030) MSR(0x00001030) DMISS(0xc914d6d0) IMISS(0x00000000)".

17035 Addressed an issue with Service ACLs which could cause the switch to block SNTP packets. This fix will allow users to configure the SNTP service type and define PERMIT/DENY rules for SNTP traffic.

17124 Addressed an issue whereby setting a lengthy login banner when TACACS+ was enabled caused an exception and reset "Fault(0x00000300) SRR0(0x00e6e83c) SRR1(0x2000b032) MSR(0x00001030) DMISS(0x2000b032) IMISS(0x00000000)".

17256 Addressed a reset associated with issuing the "clear snmp community" command when the switch security mode was set to c2.

17362 & 17619 Addressed an issue which prevented DHCP to function properly on trusted ports when DHCP snooping was enabled.

Changes and Enhancements in 6.61.07.0010

17530 & 17773 Addressed an issue in LLDP with reset and error similar to "Last switch reset caused by Fault(0x00001100) SRR0(0x0126BB0C) SRR1(0x4002B030) DMISS(0x19DFE888) IMISS(0x00000000) DAR(0x00000000) DSISR(0x00000000)".

Changes and Enhancements in 6.61.06.0009

To increase the ability to detect memory corruption, protected code space has been created. Any attempt to overwrite operation code space results in an exception that logs the location of the offending operation and resets the switch.

A hardware based watchdog timer has been enabled to increase error recoverability. If the switch enters a hung state where it no longer services the timer, the watchdog will reset the switch without manual interaction.

4616 With this release we have added support for the Interface Name and System Description optional data tuples to CDP.

9783 Added the "all <port#>" option to the "clear maclock" command to clear static maclock entries on a single or range of ports.

13396 Addressed an issue which could cause the VLAN egress configuration settings to be ignored during port bring-up following a stack reset.

14359 Corrected an issue whereby the "show rmon stats" command output displayed incorrect value for oversized packet counters.

14938 Corrected an issue whereby under certain circumstances the SNTP client could stop processing requests.

15192 Resolved an issue whereby the ifTableLastChange MIB object (1.3.6.1.4.1.9.9.27) returned incorrect data.

15283 Addressed an issue whereby the entPhysicalIsFRU MIB object (1.3.6.1.2.1.47.1.1.1.16) returned incorrect data when object class was of type "module".

15428 The SNMPv3 User Credentials are now persistent across stack resets.

15685 Resolved an issue which could cause user configured VLAN egress to be removed from saved config on member units.

16330 Resolved a CLI issue which caused mdi and mdix strings to be interchanged in "show port mdix all" and "show config port" output. This resulted in the wrong cable type connection to be displayed.

16354 When authenticating a user on an auth-opt port and using RFC3580 dynamic VLAN assignment, the port may get into a state where users are no longer able to authenticate on the port. This has been resolved.

16376 DHCP discovery packets are now serviced at a higher priority COS queue. Previously DHCP requests were dropped when L2 multicast traffic was switched at high rate to the host.

16411 Corrected the OID value for chHotTemp object (. 1.3.6.1.4.1.52.11004) in the xtraps MIB group. This issue only affected SNMPv2 and v3.

16488 Addressed an issue with configuring Ether type policy rules via Netsight Policy Manager. Out of range values were accepted and the resulting classification rules could not be removed via the CLI.

16521 Addressed an issue with Syslog message format by removing extra spaces between timestamp and host's IP address.

16591 Addressed a policy issue whereby deny actions were assigned higher precedence over permit rules. This caused a deny-all policy at the role level to disregard subsequent permit rules and drop all inbound traffic to the port.

Changes and Enhancements in 6.61.06.0009

16630 Resolved an issue whereby continuous SSH sessions to the switch caused the session to hang. Telnet, console and SNMP management were unaffected.

16639 Addressed an issue which could remove static DHCP binding for a client's MAC address when the client renewed its DHCP lease.

16647 Corrected an issue with IGMP snooping which caused multicast traffic to flood out ports once the IGMP group membership interval time expired.

16750 Resolved an issue with the "set policy rule < profile-index > ipdestsocket "command whereby policy was applied to traffic which did not match the specified destination IP address. This resulted in packet loss due to erroneous traffic classification.

16778 Addressd an issue where user defined passwords with embedded spaces revert to default settings upon reboot.. As best practice, password strings containing spaces should be enclosed in quotes.

16997 Addressed an issue which prevented users to define password strings starting with "!".

17009 Addressed an issue associated with the command line parsing buffer which prevented service-ACLs to be displayed in certain show command outputs. This issue was seen when screen length was set to a non-zero value.

17048 Resolved a code exception in SNMP with reset "BOOT[141143864]: edb_bxs.c(1226) 108 %% Last switch reset caused by Fault(0x00001100) SRR0(0x01162ae8) SRR1(0x4000b030) MSR(0x00001030) DMISS(0xc914d6d0) IMISS(0x000000000)".

17083 Addressed an issue whereby logging to the switch via webview could cause a reset with a message similar to "edb_bxs_api.c(786) 202 %% Last switch reset caused by Fault(0x00000300) SRR0(0x01113A40) SRR1(0x0000B030) DMISS(0x13350104) IMISS(0x000000000) DAR(0x00000000) DSISR(0x0A000000)".

17120 Removed informational debug messages similar to "SIM[88867688]: broad_hpc_drv.c(2686) 19017 % bcm_port_update: u=0 p=20 link=1 rv=-15" from the CLI output.

17130 The MGBIC-BX120 SFP transceiver modules are now supported in CLI display output.

17149 If a login banner is configured on the switch and a console cable is attached, no response is sent to the screen when the <enter> key is hit. This has been addressed.

Changes and Enhancements in 6.61.05.0009

17069 Resolved an issue which could prevent PoE delivery to some ports following an upgrade to firmware 6.61.02 or 6.61.03.

17073 The bootrom is now upgraded ONLY on a system reboot following a firmware upgrade. This addressed an issue which could prevent units from booting up after upgrade to firmware 6.61.02 or 6.61.03.

Changes and Enhancements in 6.61.03.0004

16951 Addressed an issue with hybrid policy authentication in which the authenticated user's MAC address was not learned.

16956 Removed a spurious error message generated on deleting a loopback interface.

"DAPI: Command DAPI_CMD_INTF_AUTONEG_LOCAL_ADVERTIS not supported for usp"

16958 Addressed an issue with the TCP MIB in which a continuous GetNext on the tcpListenerProcess OID would loop.

16966 Addressed an issue with rule ordering in Multi-User Authentication (User + IP phone) that resulted in a policy error, "Policy: Hardware error setting profile 7 on Port 1"

Changes and Enhancements in 6.61.03.0004

16982 Addressed an issue with high CPU utilization when setting an SNTP interface to an interface that is not up.

16993 Addressed a reset condition when large numbers of VLAN egress rules are pushed from policy manager.

17008 Addressed potential CLI hang condition when entering rules via CLI.

Changes and Enhancements in 6.61.02.0007

Added the capability to detect unidirectional stacking communication failures. This mode of failure may have resulted in units being in a permanently detached state. On detection, the failing unit will automatically reset and rejoin the stack.

13946 Addressed an issue which prevented GVRP from automatically propagating VLANs assigned to ports via vlan authentication.

15007 Corrected a port MAC layer communication issue that resulted in the logging of a "bcm_port_update failed: Operation failed" message.

15974 Resolved a buffer allocation issue which could cause the switch to stop generating console and syslog messages.

16041 Addressed an issue associated with transmit queue monitoring whereby an oversubscribed front-panel port could potentially cause spanning tree topology change and reconvergence when flow control was enabled.

16294 Addressed an issue which prevented forbidden precedence in policy to override 802.1Q VLAN egress on a port when default role and dot1q applied to the same VLAN. Additionally, the precedence order was corrected to "Forbidden", "Untagged" and "Tagged".

16486 Addressed a CLI display issue with Transmit Queue Monitoring which could cause oversubscribed ports to appear stalled when flow control was engaged.

16624 Addressed a persistency issue associated with the "set length" command following a switch movemanagement.

16826 Corrected an issue which prevented Service ACLs to work over routed interfaces.

16862 Addressed a stack management issue which could prevent newly added switches with a "code version mismatch" from rebooting with the "reset <Unit ID>" command.

KNOWN RESTRICTIONS AND LIMITATIONS:

Known Issues in 6.81.08.0005

There are no new known restrictions or limitations associated with this release.

Known Issues From Previous Releases

Extreme Summit and BlackDiamond platforms may use a single source MAC address for protocol and host generated packets. If redundant connections are made to these devices without the use of a link aggregation, loss of connectivity to their host IP address may result. True for all releases.

Extreme Stacking MIB:

- 1) extremeStackMemberStackPriority as defined by the MIB has a valid range 1-15. The A4 will default to 16.
- 2) extremeStackMemberCurConfig is not supported.
- 3) extremeStackingPortIfIndex ranges from 1-16. Odd numbered indexes are stack UP ports and even number indexes are stack DOWN ports. Each stack unit has two indexes which are assigned sequentially based on unit number (i.e. extremeStackingPortIfIndex 1 = unit 1 UP, 2 = unit 1 DOWN, 3 = unit 2 UP, 4 = unit 2 DOWN ...).
- 4) extremeStackingPortRemoteMac is not supported

An SNMPv3 configuration file created in a release 03.03 will fail when loading into a switch running 6.61.

Workaround: after a switch has been upgraded to 6.61, a previously created SNMPv3 configuration file MUST be re-generated (saved) using 6.61 code in order for SNMPv3 to function correctly.

WARNING: Configuration files containing a login banner may suspend operation of images prior to 6.61. This state can only be corrected by clearing the configuration through the boot PROM. Use extreme caution when using a configuration file. Login banners will automatically be removed from the configuration when back revving to pre-6.61 images.

16569 If VLAN 4094 is provisioned in firmware 6.61, it must be removed prior to backreving firmware as VLAN 4094 is not supported in prior releases.

Convergence End Points (CEP) Phone Detection is limited to single user authentication. It is not compatible with "User plus Phone".

STANDARD MIB SUPPORT:

RFC No.	Title
RFC 793	TCP MIB
RFC 791	IP MIB
RFC 1213	MIBII
RFC 1493	Bridge MIB
RFC-1724	RIP version 2 MIB
RFC 2819	RMON MIB
RFC 2271	SNMP Framework MIB
RFC 2668	Ethernet-Like MIB
RFC 2233	ifMIB
RFC 2863	ifMIB
RFC 2620	RADIUS Accounting MIB
RFC 2618	RADIUS Authentication MIB
RFC 3621	Power Ethernet MIB
IEEE 802.1X MIB	802.1-PAE-MIB
IEEE 802.3ad MIB	IEEE 8023-LAG-MIB
RFC 2674	802.1p/Q BridgeMIB
RFC 2737	Entity MIB (physical branch only)
RFC 5519	MGMD-STD-MIB
RFC 3289	DiffServ MIB

RFC No.	Title
RFC 3413	SNMP Applications MIB
RFC 3414	SNMP USM MIB
RFC 3415	SNMP VACM MIB
RFC 3584	SNMP Community MIB
RFC 4022	TCP MIB
RFC 4113	UDP MIB
RFC 2460	IPv6 Protocol Specification
RFC 2461	Neighbor Discovery
RFC 2462	Stateless Autoconfiguration
RFC 2463	ICMPv6
RFC 4291	IP Version 6 Addressing Architecture
RFC 3587	IPv6 Global Unicast Address Format
RFC 4007	IPv6 Scoped Address Architecture

EXTREME NETWORKS PRIVATE ENTERPRISE MIB SUPPORT:

Title
ctbroadcast MIB
ctRatePolicing MIB
ctQBridgeMIBExt MIB
ctCDP MIB
ctAliasMib
ctTxQArb MIB
ctDownLoad MIB
etsysRADIUSAuthClientMIB
etsysRADIUSAuthClientEncryptMIB
etsysSyslogClientMIB
etsysConfigurationManagementMIB
etsysMACLockingMIB
etsysSnmpPersistenceMIB
etsysMstpMIB
etsysMACAuthenticationMIB
etsysletfBridgeMibExtMIB
etsysSntpClientMIB
Etsysleee8023LagMibExtMIB
etsysVlanAuthorizationMIB
etsysMultiAuthMIB
etsysSpanningTreeDiagnosticMIB
extremeStackable

Extreme Networks Private Enterprise MIBs are available in ASN.1 format from the Extreme Networks web site at: www.extremenetworks.com/support/policies/mibs/. Indexed MIB documentation is also available.

SNMP TRAP SUPPORT:

RFC No.	Title
RFC 1213	ColdStart Link Up Link Down Authentication Failure
RFC 1493	New Root Topology Change
RFC 1757	RisingAlarm FallingAlarm

RADIUS Authentication and Authorization Attributes

Attribute	RFC Source
Calling-Station-Id	RFC 2865, RFC 3580
Class	RFC 2865
EAP-Message	RFC 3579
Filter-ID	RFC 2865, RFC 3580
Framed-MTU	RFC 2865, RFC 3580
Message-Authenticator	RFC 3579
NAS-Identifier	RFC 2865, RFC 3580
NAS-IP-Address	RFC 2865, RFC 3580
NAS-Port	RFC 2865, RFC 3580
NAS-Port-Id	RFC 2865, RFC 3580
NAS-Port-Type	RFC 2865, RFC 3580
Session-Timeout	RFC 2865
State	RFC 2865
Termination-Action	RFC 2865, RFC 3580
Tunnel Attributes	RFC 2867, RFC 2868, RFC 3580
User-Name	RFC 2865, RFC 3580

RADIUS Accounting Attributes

Attribute	RFC Source
Acct-Session-Id	RFC 2866
Acct-Terminate-Cause	RFC 2866

GLOBAL SUPPORT:

By Phone: 603-952-5000

1-800-872-8440 (toll-free in U.S. and Canada)

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For information regarding the latest software available, recent release note revisions, or if you require additional assistance, please visit the Extreme Networks Support web site.