

# Customer Release Notes

## 800-Series

Firmware Version 1.03.05.0002

January 2019

### INTRODUCTION:

This document provides specific information for version 1.03.05.0002 of firmware for the 800-Series products:

08H20G4-24	08H20G4-24P	08H20G4-48	08H20G4-48P	08G20G2-08
08G20G2-08P	08G20G4-24	08G20G4-24P	08G20G4-48	08G20G4-48P

**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](http://www.extremenetworks.com/support)**

### FIRMWARE SPECIFICATION:

Status	Version No.	Type	Release Date
Current Version	1.03.05.0002	Maintenance Release	January 2019
Previous Version	1.03.05.0001	Maintenance Release	July 2016
Previous Version	1.03.04.0001	Maintenance Release	April 2016
Previous Version	1.03.03.0003	Maintenance Release	March 2015
Previous Version	1.03.01.0007	Feature Release	April 2014
Previous Version	1.02.02.0006	Maintenance Release	December 2013
Previous Version	1.02.02.0005	Maintenance Release	October 2013
Previous Version	1.02.01.0011	Feature Release	May 2013
Previous Version	1.01.03.0003	08H Boot Code Update	May 2013
Previous Version	1.01.02.0002	Maintenance Release	October 2012
Previous Version	1.01.01.0017	Initial Release	September 2012

### BOOTPROM COMPATIBILITY:

This version of firmware combines support for both Fast Ethernet (08H) and Gigabit (08G) platforms. The boot code is compatible with all versions found in Gigabit platforms (08G). Fast Ethernet (08H) platforms require boot code found in firmware image 01.01.03. Fast Ethernet platforms running earlier images must upgrade to 01.01.03 prior to loading 01.02.01 or higher.

**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 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-LC04	100BASE-FX, IEEE 802.3 MM, 1310 nm Long Wave Length, 2 km, LC SFP
MGBIC-LC05	100BASE-LX10, IEEE 802.3 SM, 1310 nm Long Wave Length, 10 km, LC SFP
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-08	1000BASE-LX/LH, IEEE 802.3 SM, 1550 nm Long Wave Length, 80 km, LC SFP
MGBIC-02	1000Base-T, IEEE 802.3 Cat5, Copper Twisted Pair, 100 M, RJ45 SFP

**PRODUCT FEATURES:****What's New in 1.3**

<b>Energy Efficient Ethernet (EEE) enable/disable command</b> - Added the ability to disable EEE. It may be beneficial to disable EEE in latency sensitive applications
<b>LLDP-MED enhancements</b> - Added support for network policy and location_id TLVs
<b>WDRR Scheduling</b> – Added WDRR to existing Strict and WRR port transmit scheduling options.
<b>IPv6 TFTP support</b> - Export and Restore of configs now possible over IPv6

Existing Features	
4094 VLAN IDs	Generic Attribute Registration Protocol (GARP)
Up to 4094 Static VLANs	Generic VLAN Registration Protocol (GVRP)
Up to 255 Dynamic VLANs	IEEE 802.1p – Traffic classification
IEEE 802.1AB – LLDP	IEEE 802.1q – VLAN Tagging/Trunking
ANSI/TIA-1057 – LLDP-MED	Port-based VLAN
IEEE 802.1D – MAC Bridges	MAC-based VLAN
IEEE 802.1s – Multiple Spanning Trees	Private VLAN
IEEE 802.1t – 802.1D Maintenance	VLAN Trunking
IEEE 802.1w – Rapid Spanning Tree	Tagged-based VLAN
IEEE 802.3 – Ethernet	8 Priority Queues per Port
IEEE 802.3ab – GE over Twisted Pair	802.3x Flow Control
IEEE 802.3ad – Link Aggregation	Class of Service (CoS)

Existing Features	
8 ports per group	Rate Limiting/Bandwidth Control
8-port models: 5 groups	Layer 2/3 Classification
24-port models: 14 groups	Multi-layer Packet Processing with ACLs
48-port models: 26 groups	Mixed Queuing Control – Strict and
IEEE 802.3af – PoE	Weighted Round Robin
IEEE 802.3at – High Power PoE (up to 30W per port)	Source/Destination MAC Address with ACLs
IEEE 802.3i – 10Base-T	Source/Destination IP address with ACLs
IEEE 802.3u – 100Base-T, 100Base-FX	TCP/UDP port number with ACLs
IEEE 802.3z – GE over Fiber	Full/half duplex auto-sense support on all ports (Auto-MDIX)
ERPS—Ethernet Ring Protection Switching	ARP Spoof Protection
L2 Multicast Control	DHCP Spoof Protection
IGMP Snooping v1/v2/v3	EAP Pass Thru
MLD Snooping	IP Source Guard
Jumbo Frame support (12,288 bytes)	IEEE 802.1X Port Authentication
Loop Protection	MAC-based Port Authentication
One-to-One and Many-to-One Port Mirroring	Optional Local Database for Authentication
Port Description	RADIUS Accounting for network access
STP Pass-Thru	RFC 3580 – IEEE 802.1X RADIUS Usage Guide-lines
Secured Shell (SSHv2)	IPv4 Static Routes
Secured Socket Layer (SSL)	IPv6 Default Routing
Trusted Host	System Power & Port Status LEDs
Denial of Service (DoS) Attack Prevention	NMS Console
BPDU Attack Protection	NMS Inventory Manager
Multi-user Authentication Per Port	Cable Diagnostics
Web-based Port Authentication	Traceroute
Command Line Interface (CLI) with four access levels	Operation, Administration & Maintenance -(OAM) support
Configuration Upload/Download	Network Load Balancing
Firmware Download	RMON (Stats, History, Alarms, Events)
Authentication, Authorization and Accounting (AAA) management	Simple Network Management Protocol
Dual IPv4/IPv6 Management Support	(SNMP) v1/v2c/v3
Editable Text-based Configuration File	SSHv2
TFTP Client	TACACS+ authentication
Command Logging	Web-based Management
Multi-configuration File Support	SYSLOG—up to 4 servers supported
Remote Switched Port Analyzer (RSPAN)	IPV6 Managment (TELNET, Web, SSL, SNMP, SSH)

**INSTALLATION AND CONFIGURATION NOTES:****Note:**

Prior to firmware release 1.02.01 two versions of 800 Series firmware existed – one for the Fast Ethernet (08H) switches and one for the Gigabit Ethernet switches (08G). Fast Ethernet switches running images prior to 01.01.03 may not be directly upgraded to 1.02.01 (01.01.03 must be installed first).

**Note:**

Code version 01.01.03 is not intended to be used as an operational image. This release upgrades the bootprom of earlier images and should be used only once, as an interim step in upgrading Fast Ethernet (08H) platforms from image 1.01.02 (and earlier) to combined image (Fast Ethernet and Gigabit) 1.02.01 (or later).

**Note:**

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 CLI command of `save {[config <pathname 64> | log | all]}` or the **Save Configuration** screen in the **Tools Menu** of the Web User Interface. You will need a copy of your previous configuration if you need to revert to a previous firmware version.

The 800-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 <http://www.extremenetworks.com/support/> for the latest firmware updates to the 88-Series and follow the TFTP download instructions that are included in your Configuration Guide or CLI Reference.

Soft copies of the *800-Series CLI Reference* and *800-Series Web UI Reference* are available at no cost on the Extreme Networks documentation site, [www.extremenetworks.com/documentation/](http://www.extremenetworks.com/documentation/).

Please refer to the **Firmware** tab on the 800-Series product pages on the Extranet downloads site to view information on changes to the release information listed in this document.

The 800-Series family of standalone switches can be managed by a single IP address for up to 32 switches. To download the new firmware to a cluster of 800-Series switches, simply follow the CLI or web instructions to download the new firmware from a server and then the Commander Switch (CS) can download the new firmware to all the Member Switches (MS) in the cluster.

**ROUTER CAPACITIES:**

	No IPv6 static/default route entry is created	IPv6 static/default route function is used
IPv6 IP interface max number	1	8
Static ARP max number	128	32
Dynamic ARP max number	336	208
Static ND max number	128	16
Dynamic ND max number	384	103

**CUSTOMER RELEASE NOTES:****Changes and Enhancements in 1.03.05.0002**

115 Corrected potential reset condition when polling system address with snmpbulkwalk. Fixed Incorrect handling when trying to snmpwalk node "ipAddressIfIndex.ipv6"

**Changes and Enhancements in 1.03.05.0001**

112 Upgraded Web SSL Engine to support TLS V1.2

113 Corrected a rare issue where ports do NOT pass traffic under certain conditions

**Changes and Enhancements in 1.03.04.0001**

109 Corrected an issue where changes to speed/duplex settings were not saved after a reboot.

**Changes and Enhancements in 1.03.03.0003**

Modified the ERPS WTR timer to support a configurable range from 1 to 720 seconds. Previous supported values were 5 to 12 minutes.

100 Corrected an issue where LLDP traps used the wrong the variable types.

101 Modified IGMP so that valid multicast streams will not be dropped if a report contains a reserved IPv4 Multicast address (224.0.0.0/24).

102 Corrected an issue where enabling SSL resulted in poor web management performance.

**Changes and Enhancements in 1.03.01.0007**

66 Corrected interoperability issue with NetSight VLAN Editor tool.

**Changes and Enhancements in 1.02.02.0006**

This release resolves non-customer related issues in the manufacture test process.

**Changes and Enhancements in 1.02.02.0005**

92 Fanless operation is now supported on all hardware revisions of the 08G20G2-08P. Previously this was only supported on model rev 5C (or above).

93 Corrected an issue that prevented the ability to disable a port through the Web interface if the port was configured for 802.1x host-based authentication.

94 Corrected a POE issue where a switch would fail to provide power while showing power consumption of 372W.

Corrected an issue where a power cycle could cause fans to stay on at temperature ranges that should allow fanless operation.

**Changes and Enhancements in 1.02.01.0011**

66 Corrected issue with MIB object dot1qVlanStaticRowStatus, which prevented use of Netsight Primary vlan model vlan Editor

58 Corrected a POE controller issue that prevented powering AVAYE T3 IPphones

**Changes and Enhancements in 1.01.02.0002**

35 Corrected values returned by Entity MIB objects entPhysicalSoftwareRev, entPhysicalFirmwareRev, and entPhysicalHardwareRev.

37 Corrected Spanning Tree stability issue associated with MSTI IDs greater than 255.

38 Corrected issue in “show config modified” that failed to display port VLAN information.

43 Removed invalid “Safeguard Engine” option from the Web-GUI.

47 Addressed an issue which caused the fans to run continuously on the 08H20G4-48, 08G20G2-08 and 08G20G4-24 platforms.

**KNOWN RESTRICTIONS AND LIMITATIONS:**

**Warning: The 800 series has a unique CLI. The 800 series switches use the `reset` command to clear all configuration settings. Other Extreme products use the `reset` command to perform a warm reboot which maintains the configuration settings. To perform a warm reboot that keeps the current configuration settings on the 800-Series, use the `reboot` command.**

**Warning: If password recovery mode is disabled (`disable password_recovery`), there is no method to restore the default password, if the current administrative password is lost. Losing the password is NOT covered by the warranty and the switch would need to be returned to Extreme Networks at the end user’s expense.**

**Known Issues in 1.03.05.0002**

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

**Known Issues From Previous Releases**

36 Spanning Tree MST region names do not support embedded spaces (example “my region 1” is invalid).

**STANDARD MIB SUPPORT:**

RFC No.	Title
RFC 793	TCP MIB
RFC 791	IP MIB
RFC 1213	MIBII
RFC 1493	Bridge MIB
RFC 4188	Bridge MIB
RFC 2819	RMON MIB
RFC 2571-2576	SNMP Framework MIB

RFC No.	Title
RFC 1643	Ethernet-Like MIB
RFC 2863	ifMIB
RFC 2620	RADIUS Accounting MIB
RFC 2618	RADIUS Authentication MIB
IEEE 802.1AB	LLDP MIB
IEEE 802.1X MIB	802.1-PAE-MIB
IEEE 802.3ad MIB	IEEE 8023-LAG-MIB
RFC 2674	802.1p/Q BridgeMIB
RFC 4363	802.1p MIB
RFC 2737	Entity MIB (physical branch only)
RFC 2933	IGMP MIB
RFC 2925	Ping & Traceroute MIB
RFC 3413	SNMP Applications MIB
RFC 3414	SNMP USM MIB
RFC 3415	SNMP VACM MIB
RFC 3584	SNMP Community MIB
RFC 3636	MAU MIB
RFC 2465	IPv6 MIB
RFC 4022	TCP MIB
RFC 4113	UDP MIB

### 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: **+1 800-998-2408** (toll-free in U.S. and Canada)

For the toll-free support number in your country:

[www.extremenetworks.com/support](http://www.extremenetworks.com/support)

By Email: [support@extremenetworks.com](mailto:support@extremenetworks.com)

By Web: [www.extremenetworks.com/support/](http://www.extremenetworks.com/support/)

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