



EtherWAN Managed Switch  
Firmware Release Notes  
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#### RELEASE SUMMARY

Version: 4.02.0

Release Date: August 12, 2019

#### SUPPORTED PRODUCTS

EX71000 Series	EX61000A Series	EX78000 Series
EX73000 Series	EX63000 Series	

#### NEW FEATURES

##### 1. AES encryption standard support for SNMPv3

Including support for AES-128, AES-192, and AES-256

##### 2. Support for increased password complexity and set maximum number of failed login attempts

Minimum of 8 and maximum of 35 character password length, without leading or trailing spaces.

##### 3. Log can be saved to flash

In addition to saving the system logging messages in the memory (RAM) of the switch, messages can be also saved into the switch's non-volatile memory (flash)

##### 4. Email alarm notifications

Allows switch to send email alerts to up to three recipients when an environmental alarm is triggered, configurable from GUI and CLI.

New CLI Commands: `msntp auth host WORD`

`msntp auth passwd WORD`

`msntp auth port <1-65535>`

`msntp auth ssl`

`msntp auth username WORD`

##### 5. LinkDown Disable



As a security feature, a port can be configured to automatically shut down when it becomes disconnected. When this feature takes effect, the port must be re-enabled manually.

New CLI Command: [no] linkdown-disable

6. Control Access to show running-config

New CLI Command: multiuser-access show-running-config tech (hide | show) oper (hide | show)

7. Up to two NTP servers can be configured

Expanded CLI Command: ntp server server1.ntp.org 192.168.12.20

8. Show system uptime in CLI

New CLI Command: show system-uptime

9. EX78000 only: PoE can be extended to 250m (820ft) with 10Mbps transfer speed

When the extend mode is enabled, single POE port supports up to 250m (820ft) of transmission and 10Mbps speed

New CLI Commands: poe extend-mode enable

### Changed

loopback detect MAC address changed from 01-80-C2-00-00-05 to 01-80-C2-00-03-00.

### BUG FIXES

Fixed: Port state inconsistency issue when running RSTP/MSTP protocols

Fixed: When user upgraded to new firmware, the IP default-gateway was removed in running-config

Fixed: QoS's user Priority did not work properly



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## RELEASE SUMMARY

Version: 4.01.0  
Release Date: 2019, Jan 7

## SUPPORTED PRODUCTS

EX71000 Series	EX61000A Series	EX78000 Series
EX73000 Series	EX63000 Series	

## NEW FEATURES

### 1. Added PoE watchdog

PoE Watchdog is a management feature to help system administrators monitor and manage critical PoE powered devices. PD Watchdog is only supported on PoE enabled ports. Once enabled, the system will continuously ping a user specified IP address across the port. If the system does not receive a reply within a specified interval, it can automatically power down or power cycle the powered device.

New CLI Commands:

Enable	PoE watchdog enable
failure-action	Action to take if check fails
	- No action
	- Power cycle (reboot PD)
	- Power off
max-failure-count	PoE Device check failure count
ping-interval	Ping interval
startup-delay	PoE Device startup delay check time
target-address	Failure check IP

### 2. Added PoE force mode

New CLI Commands:

To display the device's model number:

CLI Command Mode: **Privileged Exec Mode**

Enable poe force mode globally

To enable poe force mode, use the following CLI command:

CLI Command Mode: Global config

CLI Command Syntax: [no] poe force-power enable  
Enable poe force mode on a port  
To enable poe force mode, use the following CLI command:  
CLI Command Mode: Interface config  
CLI Command Syntax: poe force-power on  
no poe force-power

### 3.Added LLDP for Media Endpoint Device

New CLI commands:lldp med-tlv-select location  
location civic-address  
location coordinate  
location ecs-elin

### 4.Added MAC-based Authorization

New CLI commands: auth-mac system-auth-control  
auth-mac username-format UPPERCASE

### 5.Added IPv6 Addressing, Route and DHCPv6 Server

New CLI Commands: ipv6 address  
get ipv6 dhcpv6 enable  
dhcpv6-server enable  
dhcpv6-server range  
dhcpv6-server lease-time  
ipv6 forwarding  
ipv6 mroute  
ipv6 neighbor  
ipv6 route

### 6.Added Display the Device Serial Number

New CLI command: show serial number

## MISCELLANEOUS CHANGES

1. Flow control is now turned off as default
2. STP auto-edge is now disabled as default
3. LLDP is now enabled by default
4. Supports 256Vlan
5. Can be Manually selected 100 or 1000M speed on SFP ports

## BUG FIXES

1. Fix for a Radius interop issue with Cisco ISE, increasing the radius state from 48 to 256 characters



2. Alpha chain convergence time is more than 800ms



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#### RELEASE SUMMARY

Version: 4.00.3

Release Date: 2018/Sep/25

#### SUPPORTED PRODUCTS

EX73000/EX63000

#### BUG FIXES

Fixed: SFP Giga port incorrectly links up at 100M. (Random Issue, Probability: 3/10)

Fixed: Cannot ping the switch with a ring topology running RSTP



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#### RELEASE SUMMARY

Version: 4.00.1

Release Date: 2018/Aug/29

#### SUPPORTED PRODUCTS

EX71000/EX61000A/EX78000

#### BUG FIXES

Fixed: Cannot boot up, issue occurs randomly

Fixed: Missing Alpha-Chain protocol.