EtherWAN Managed Switch

Firmware Release Notes

Copyright 2023 (c) EtherWAN Systems, Inc.

RELEASE SUMMARY

Version: 4.02.6.1

Release Date: Sept. 22th, 2023

SUPPORTED PRODUCTS (Rev. A)

EX87000 Series	EX77000 Series	EX27000 Series
EX71000 Series	EX61000A Series	EX78000 Series
EX73000 Series	EX63000 Series	ED3575 Series

BUG FIXES

1. [System] Incorrect SFP information on the Web UI for SFP variants of EX61622A series

EtherWAN Managed Switch

Firmware Release Notes

Copyright 2022 (c) EtherWAN Systems, Inc.

RELEASE SUMMARY

Version: 4.02.6.0

Release Date: Oct. 28th, 2022

SUPPORTED PRODUCTS (Rev. A)

EX87000 Series	EX77000 Series	EX27000 Series
EX71000 Series	EX61000A Series	EX78000 Series
EX73000 Series	EX63000 Series	ED3575 Series

ENHANCEMENTS

1. Firmware supports different PoE chipsets in the hardware design. (EX78000 series only, for more information, see ECN Number: PM20221012)

BUG FIXES

1. [Security] If the username contains nine special characters—"\", the system will reset to the default value.

EtherWAN Managed Switch
Firmware Release Notes
Copyright 2022 (c) EtherWAN Systems, Inc.

RELEASE SUMMARY
Version: 4.02.5.0
Release Date: July. 8th, 2022

SUPPORTED PRODUCTS (Rev. A)

EX87000 Series	EX77000 Series	EX27000 Series

<u>BUG FIXES</u>

1. [Combo Port] The combo port fiber link would fail if the combo port copper link was connected first and then removed.

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RELEASE SUMMARY
Version: 4.02.4.3
Release Date: Dec. 30th, 2021

SUPPORTED PRODUCTS (Rev. A)

EX87000 Series	EX77000 Series	EX27000 Series
EX71000 Series	EX61000A Series	EX78000 Series
EX73000 Series	EX63000 Series	ED3575 Series

NEW FEATURES and ENHANCEMENTS

1. [Security] Added VLAN Support for Port Security feature.
2. [Security] Added TLS 1.2 support for HTTPS.
3. [Security] Added SFTP support.
4. [Redundancy] Improved Ring performance
5. [ACL] ACL now works with port-based VLANs.

BUG FIXES

1. [Syslog] The current system log configuration file (syslog.conf) doesn't work properly; it mixed up the user facility with auth facility and made the wrong log severity.
2. [Port Security] An additional Dynamic MAC address will be added in CLI commands after the switch is rebooted.
3. [RSTP] Two root bridges might show up in the RSTP topology during a topology change.
4. [RSTP] After cold start, there was a chance that one of RSTP paths might experience link fails and result in some switch being disconnected.
5. [MSTP] When MSTP is enabled, it may happen that the device becomes inaccessible intermittently while root bridge election and/or topology change occur unexpectedly.
6. [Combo Port/SNMP] [ED3575v2] When both GE combo ports linked up, disabling and enabling ge1 via SNMP would bring down both links.
7. [Power Cycle] After cold start, there was a small chance that switch would not respond to ICMP request and would not receive packets.

EtherWAN Managed Switch
Firmware Release Notes
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RELEASE SUMMARY
Version: 4.02.3.2
Release Date: Aug. 09, 2021

SUPPORTED PRODUCTS (Rev. A)

EX87000 Series	EX77000 Series	EX27000 Series
EX71000 Series	EX61000A Series	EX78000 Series
EX73000 Series	EX63000 Series	ED3575 Series

NEW FEATURES and ENHANCEMENTS

1. [Security] Added Port Security feature - to restrict unauthorized MAC address.
2. [System Message] Remove repeated unnecessary "could not getpeername" log message.

BUG FIXES

1. [EX77000] [System] When a large amount of data is accessed at the physical coding layer of the switch, it may cause switch ports to stop forwarding traffic or the switch link being disconnected.

2. [Reboot] When two or more switches are connected to eVue, some may unexpectedly reboot due to packets being handled by CPU incorrectly.

3. [DHCPv6] Saved IPv6 address settings may be lost on reboot.

4. [MAC Table] The layer 2 MAC polling intervals from the system was incorrectly set resulting in the MAC table not being updated correctly.

EtherWAN Managed Switch

Firmware Release Notes

Copyright 2021 EtherWAN Systems, Inc.

RELEASE SUMMARY

Version: 4.02.2.0

Release Date: Mar. 11, 2021

SUPPORTED PRODUCTS (Rev. A)

EX87000 Series	EX77000 Series	EX27000 Series
EX71000 Series	EX61000A Series	EX78000 Series
EX73000 Series	EX63000 Series	ED3575 Series

BUG FIXES

1. [RSTP/MSTP] The BPDU (Bridge Protocol Data Units) packets may be dropped when there is broadcast/unicast traffic congestion.

2. [MSTP] The convergence time of MSTP is too long with CISCO switches.

Note: all supported products above in this version will also include all new features, enhancements and bug fixes in version: 4.02.1.9

EtherWAN Managed Switch

Firmware Release Notes

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RELEASE SUMMARY

Version: 4.02.1.9

Release Date: Oct. 16, 2020

SUPPORTED PRODUCTS (Rev. A)

EX87000 Series	EX77000 Series	EX27000 Series

NEW FEATURES and ENHANCEMENTS

1. [Security] Enhanced TACACS+ authorization feature.

Enhanced CLI commands and fine-tuned Web Interface for TACACS+ authorization.

BUG FIXES

1. [System] There was a chance that the device may continue sending out Topology Change packets abnormally after enabling RSTP.

2. [System] The device would continue sending out Topology Change packets when LACP ports were in use.

3. [MSTP] When MSTP was enabled in the topology, there are chances that users may not be able to access the devices via Telnet.

4. [VLAN] When there were more than 20 VLANs on the device, the system CPU usage could reach 100%.

5. [RMON] Packets transmitted and received statistics were incorrect.

6. [SNMP] The MIB Browser like utility may not able to connect to the device any more while traversing the public MIB continuously.

7. [Ring] When the alpha ring was enabled on fiber ports, there is a chance that the remote switch may not send out FEF (Far End Fault) pattern as expected, causing the abnormal behavior of the LED of the fiber ports on the local switch.

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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: msmtp auth host WORD

 msmtp auth passwd WORD

 msmtp auth port <1-65535>

 msmtp auth ssl

 msmtp 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

EtherWAN Managed Switch
Firmware Release Notes
Copyright 2019 EtherWAN Systems, Inc.

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**

EtherWAN Managed Switch
Firmware Release Notes
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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

EtherWAN Managed Switch

Firmware Release Notes

Copyright 2018 EtherWAN Systems, Inc.

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.