**EtherWAN Managed Switch**
Firmware Release Notes
Copyright 2024 (c) EtherWAN Systems, Inc.


**RELEASE SUMMARY**
Version: 4.02.6.3
Release Date: Jan. 11th, 2024

**SUPPORTED PRODUCTS (Rev. A)**

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


## ENHANCEMENTS

1. [System] Modify the ARL (Address Resolution Logic) table polling interval to reduce CPU loading.
2. Change the default setting to disable TLSv1.0, v1.1, and SSL v3, and use the cipher key size greater than 128 bits for better security protection.


## BUG FIXES

1. [System] The drop event counter from the port status of the SNMP MIB was incorrect.
2. [System] There was a chance that CPU was busy in processing the received traffic and not able to send out internal messages or outgoing packets in time.  It may cause the device to reboot or freeze.

**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

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**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.

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**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.

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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.

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**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.

**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: 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


**<u>Changed</u>**

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

**<u>BUG FIXES</u>**

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

**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

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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.