EtherWAN Managed Switch
Firmware Release Notes
Copyright 2023 (c) EtherWAN Systems, Inc.

RELEASE SUMMARY
Version: 2.02.9.7
Release Date: Jan. 16th, 2023

SUPPORTED PRODUCTS

EX78900 Series	EX73900 Series	EX77900 Series
EX83000 Series		

ENHANCEMENTS

1. Removed unnecessary MSTP Hello Timer timeout messages and IPv6 messages of Linux ntpd service from the device log.

BUG FIXES

1. [System][MSTP] When there were more than one MSTP region in the network and the topology changes occurred, MAC flapping might occur.

2. [QoS] [Web/CLI] QoS Policy Strict + WRR did not function properly.

3. [VRRP] Abnormal high CPU usage might occur in some scenarios if ARP or VRRP protocol was interfered with by unknown L3 unicast packets.

4. [System] After the firmware upgrade, there were chances that the setting of the default gateway on the switch might fail, causing the loss of connection to the device.

EtherWAN Managed Switch
Firmware Release Notes
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RELEASE SUMMARY
Version: 2.02.9.4
Release Date: April. 21st, 2022

SUPPORTED PRODUCTS

EX78900 Series	EX73900 Series	EX77900 Series
EX83000 Series		

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

1. [QoS] The VLAN priority of the traffic that is forwarded by the switch will be modified when the switch sets the queue of the VLAN priority in CoS.

RELEASE SUMMARY

Version: 2.02.9.3

Release Date: Jan. 28th, 2022

SUPPORTED PRODUCTS

EX78900 Series	EX73900 Series	EX77900 Series
EX83000 Series		

NEW FEATURES

       1. [Security] Add Secure FTP (SFTP) for firmware update and configuration file upload/download.

BUG FIXES

1. [STP] While running MSTP, a new root event might occur due to some missing STP BPDU.

2. [OSPF] After configuring interface VLAN, VRRP, and OSPF, an OSPF interface configuration error might occur on the web GUI.

3. [Static MAC Entry] Cannot set MAC addresses under Static MAC Entry Discard successfully; the associated VLAN will be changed to VLAN 1 incorrectly after reboot.

4. [SNMP] SNMP server's Login Trap and Logout Trap did not work properly.

5. [SNMP] After setting one ring-coupling port, users cannot get the correct port status via SNMP.

6. [LLDP] LLDP Ports Settings and LLDP Statistics were incorrect via CLI.

7. [IGMP Snooping] When IGMP Snooping was disabled, there was a chance that multicast stream was forwarded to the router port incorrectly.

8. [STP] Remove new root trap and modify the system event.

9. [SNMP] When MAC notification traps are triggered, the memory allocation is incorrect.

RELEASE SUMMARY
Version: 2.02.8.2
Release Date: March. 25th, 2021

SUPPORTED PRODUCTS

EX78900 Series	EX73900 Series	EX77900 Series
EX83000 Series		

NEW FEATURES

1. Added SNMP group feature for SNMPv3.

2. Allowing special characters (i.e. "!" and "#") to be used in authentication and privacy password.

3. Support for AES-128/192/256 encryption in SNMPv3.

4. Support for SNMPv3 Traps.

BUG FIXES

1. [IP] Fixed issue where ports with VLAN mapping links going down caused the default gateway information to be neglected from the running-config file.

2. [MSTP][CLI] Corrected an MSTP digest calculation error that would cause some unwanted MSTP regions to be incompatible with other switches.

EtherWAN Managed Switch

Firmware Release Notes

Copyright 2020 (c) EtherWAN Systems, Inc.

RELEASE SUMMARY

Version: 2.02.7.6

Release Date: Nov. 27th, 2020

SUPPORTED PRODUCTS

EX78900 Series	EX73900 Series	EX77900 Series
EX83000 Series		

NEW FEATURES

   1. Added OSPF distribute-list feature - allows filtering routes from the routing table.

BUG FIXES

1. [System] Previously was unable to save configuration information into EB-232 dongle.

2. [Telnet] After several attempts at Telnet connection, some switches could not be accessed through either Telnet or SSH.

EtherWAN Managed Switch

Firmware Release Notes

Copyright 2020 (c) EtherWAN Systems, Inc.

RELEASE SUMMARY

Version: 2.02.7.3

Release Date: Oct. 21th, 2020

SUPPORTED PRODUCTS

EX78900 Series	EX73900 Series	EX77900 Series
EX83000 Series		

<u>**NEW FEATURES**</u>

> **1. Add Storm Detect Trap only feature.**

> **2. Add force change password when the default password is not set.**

<u>**ENHANCEMENTS**</u>

1. The convergence time of MSTP with 3rd party switch takes too long to be completed once the disconnected link is restored.

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

> 1. [MSTP & VRRP] The ping command may be lost or unable to reach to the switch under certain MSTP and VRRP configuration environments.

> 2. [MSTP & VRRP] The switch is unable to deliver VRRP advertisement packets due to MSTP paths of instance being sent incorrectly under certain MSTP and VRRP configuration environments.

> 3. [MSTP] When MSTP topology change occurs and a long convergence time results in a high latency response under certain MSTP environments.

> 4. [Flow Control] When Flow Control is set to off (1G Fiber Port), the action of flow control is actually opened.

EtherWAN Managed Switch

Firmware Release Notes

Copyright 2020 (c) EtherWAN Systems, Inc.

RELEASE SUMMARY

Version: 2.02.6.4

Release Date: March 27, 2020

SUPPORTED PRODUCTS

EX78900 Series	EX73900 Series	EX77900 Series

NEW FEATURES

    1. Add the "Radius User Login" feature.

    2. Add the "Save log to flash" feature.

BUG FIXES

1. If the configuration of the ring-coupling has been changed, the ring-coupling port might have an incorrect port state in the bcm-shell after the topology change.

2. In MAC-Auth, all interfaces can't be authenticated after unpluged/pluged.

3. "Ingress" and "Egress" of port is back to default setting after DUT rebooting.

4. Cold Start: One of the Switch will auto reboot after the error message is displayed.

5. Lease time of DHCP Server is incorrect

EtherWAN Managed Switch

Firmware Release Notes

Copyright 2019 (c) EtherWAN Systems, Inc.

RELEASE SUMMARY

Version: 2.02.3

Release Date: August 12, 2019

SUPPORTED PRODUCTS

EX78900 Series	EX73900 Series	EX77900 Series

BUG FIXES

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

EtherWAN Managed Switch

Firmware Release Notes

Copyright 2019 (c) EtherWAN Systems, Inc.

RELEASE SUMMARY

Version: 2.02.1

Release Date: 2019, Jan 7

SUPPORTED PRODUCTS

EX78900 Series	EX73900 Series	EX77900 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: poe watchdog

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.EX78900 only: PoE can be extended to 250m with 10Mbps transfer speed

When the extend mode is enabled, single POE port supports 250m transmission distances and 10Mbps speed

New CLI Commands: poe extend-mode enable

3.Added MAC-Based Authorization

New CLI commands: auth-mac system-auth-control

auth-mac username-format UPPERCASE

4.Added LLDP for Media Endpoint Device

New CLI commands:lldp med-tlv-select location

location civic-address

location coordinate

location ecs-elin

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

7.Added Display the Device Serial Number

New CLI command: show serial number

8.Added EEE (Energy-Efficient Ethernet) setting is configurable (Enable / Disable)

New CLI commands: eee enable

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**

BUG FIXES

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

EtherWAN Managed Switch

Firmware Release Notes

Copyright 2017 (c) EtherWAN Systems, Inc.

RELEASE SUMMARY

Version: 2.01.2

Release Date: 2017/Nov/1

SUPPORTED PRODUCTS

EX78900 Series	EX73900 Series	EX77900 Series
EX78921B Series	EX78921R Series	

BUG FIXES

Fixed: EX77900: Web Display of port numbers (xe1 thru xe4) are incorrectly shifted at Per Port VLAN Activities.

Fixed: EX77900: Set combo ports (Ge17-Ge24) 1Giga port to 100M/FD. Saving configuration and rebooting will cause SFP ports become disconnected.

Fixed: EX78900/EX73900: Set 1G copper Giga port(Ge1~Ge12) to 100M/FD, after saving configuration and rebooting bandwidth is incorrectly changed back to 1G.

RELEASE SUMMARY
Version: 2.01.1
Release Date: 2017/Sep/12

SUPPORTED PRODUCTS

EX78900 Series	EX73900 Series	EX77900 Series
EX78921B Series	EX78921R Series	

NEW FEATURES

1. **Added Routing protocols**
   Static routing
   RIP V1/V2
2. **Added Routing redundancy protocol**
   VRRP
3. **Added PoE force mode on EX78900 series**

   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

BUG FIXES

Fixed: Fixed the GVRP Applicant to run in Active mode on a port, the GVRP protocol will not send out any PDUs from a port if the port is being blocked by STP

Fixed: After joining a multicast group, the multicast stream was not being forwarded to receivers after 30 seconds even the receivers tried re-joining the same multicast group afterwards

Fixed: The pre-assigned Class of Service (CoS) priority value was altered in tagged frames

Fixed: Rebooted a switch would cause it to reboot if Multiple Spanning Tree Protocol (MSTP) and Port Aggregation had been configured.