

EtherWAN eVue Network Management Software User Guide

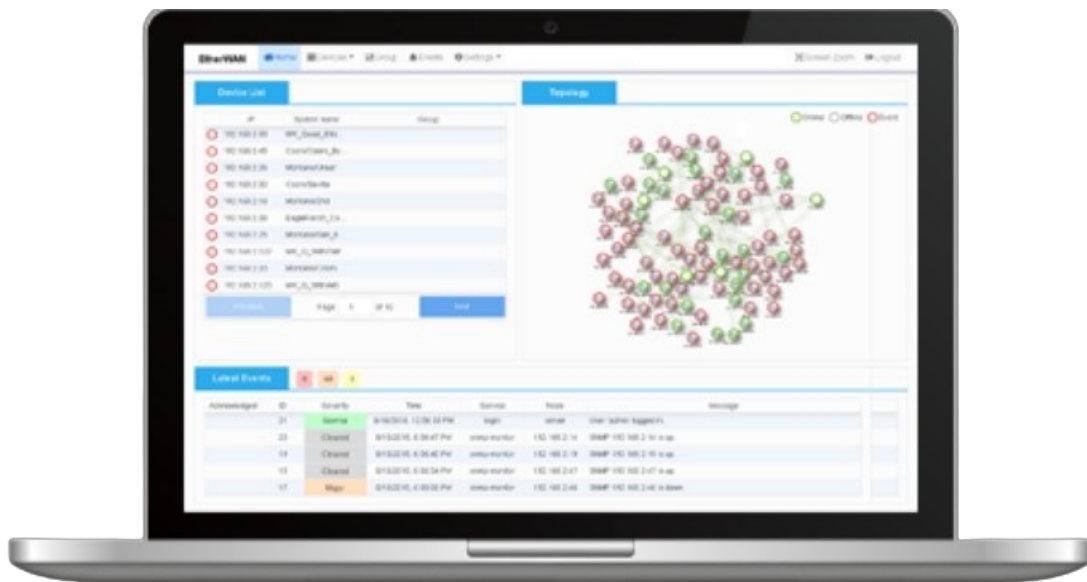
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EtherWAN eVue Network Management Software



Specifications

- Product Name: eVue Network Management Software
- Version: 5.01.18
- Designed for: Ethernet network installation, configuration, deployment, and maintenance
- Features: Device management, monitoring, maintenance, email notifications, network discovery

Product Usage Instructions

1. Installation

Follow these steps to install the eVue Network Management Software:

1. Download the software from the official website.
2. Run the installer and follow the on-screen instructions.
3. Complete the installation process.

Using eVue

Login

Access the software using your credentials to log in securely.

Configuration and Use

After logging in, follow these steps:

- Explore the start screen for an overview of the network status.
- Navigate through the software to access specific devices and settings.

Start Screen

The start screen provides a snapshot of the network status, highlighting any critical issues.

Navigation

Use the intuitive interface to navigate through different sections of the software for detailed information on devices and network topology.

FAQ

- **Q: What is eVue Network Management Software used for?**
 - A: eVue simplifies device management, allows monitoring of EtherWAN devices, and provides critical system information.
- **Q: How can I receive notifications from eVue?**
 - A: eVue can send email notifications based on selected levels of severity to keep you informed about the network status.

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Audience

This guide is designed for the person who installs, configures, deploys, and maintains the Ethernet network.

Document Revision Level

This section provides a history of the revision changes to this document

Revision	Document Version	Date	Description
A	Version 1	07/25/2019	
B	Version 2	04/21/2020	Added eVue Mobile App instructions
C	Version 3	04/23/2020	Added remote firmware update info
D	Version 1	09/14/2021	5.00.0x update
E	Version 2	09/27/2023	5.01.13 update
F	Version 1	06/27/2024	5.01.18 update

Changes in this Revision

Introduction

The Vue network management software simplifies device management, allowing system administrators to monitor and maintain multiple EtherWAN devices on a local or wide area network. With the ability to send notifications by email based on selected levels of severity, eVue provides up-to-the-minute information on critical systems. The software can discover EtherWAN switches and wireless devices on a network and subnets, and display an intuitive visual representation of the network topology.

Key Features

- GUI (web based graphical user interface)
- Automated network discovery and topology visualization
- Server-Client operation to ensure system scalability, reliability and real time status
- Event handling via polling and SNMP trap
- Notification sent-out via email and SNMP trap
- Device configurations via SNMPv1/v2/v3, Web, Telnet, and SSH

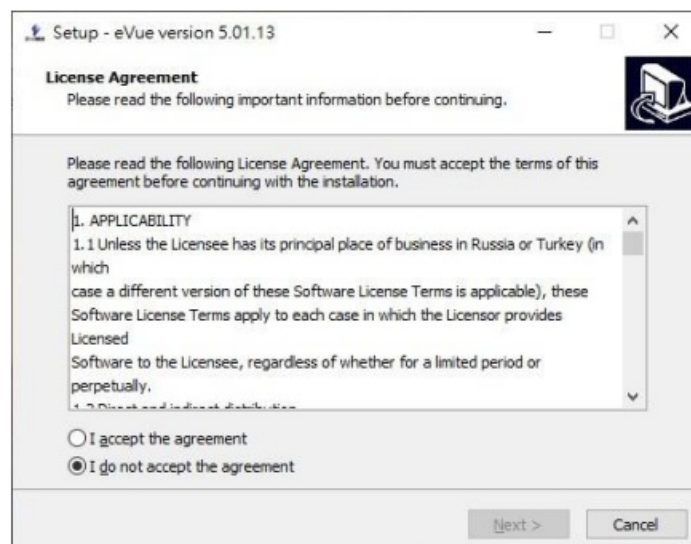
Installation

Recommended System Specifications

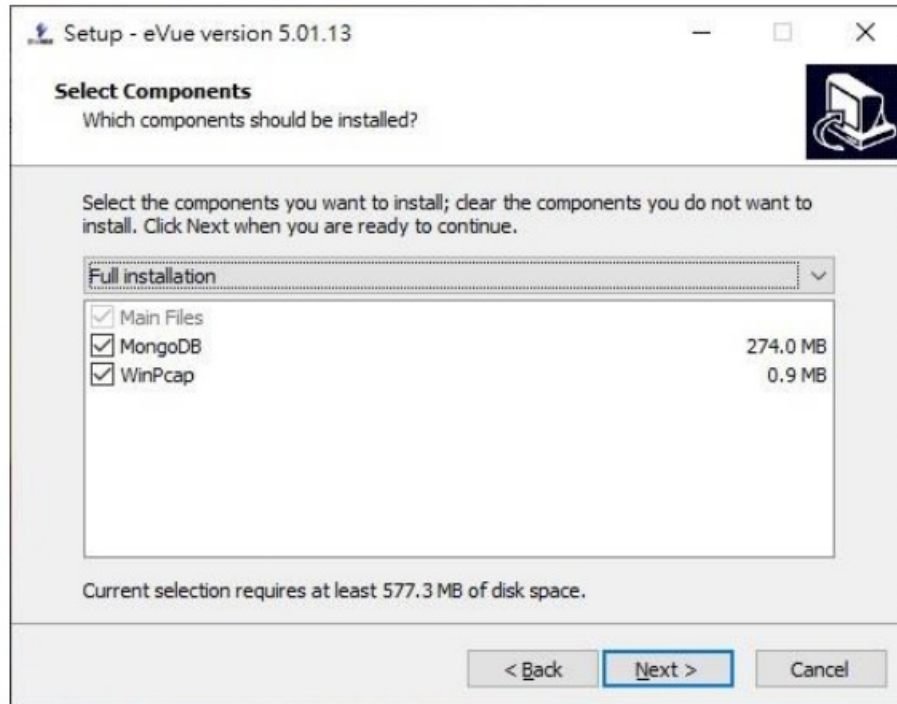
- CPU: Intel i5 2.5GHz above
- RAM: 4 GB or above
- Hard disk: 1 TB, 7200 RPM, SATA-3Gb/s or higher
- Operating System: Windows 10 (64-bit)
- Supported Browsers: Microsoft Edge, Chrome version 64 or later, Firefox version 58 or later.
- NOTE: eVue uses SNMP and LLDP to detect switches on the network. SNMP and LLDP must be enabled for all EtherWAN switches that will be used with eVue. Refer to the Appendix for information on enabling LLDP.

Install eVue

To install eVue, Double click and run the installer. Click the radio button to accept the License Agreement, and then click Next

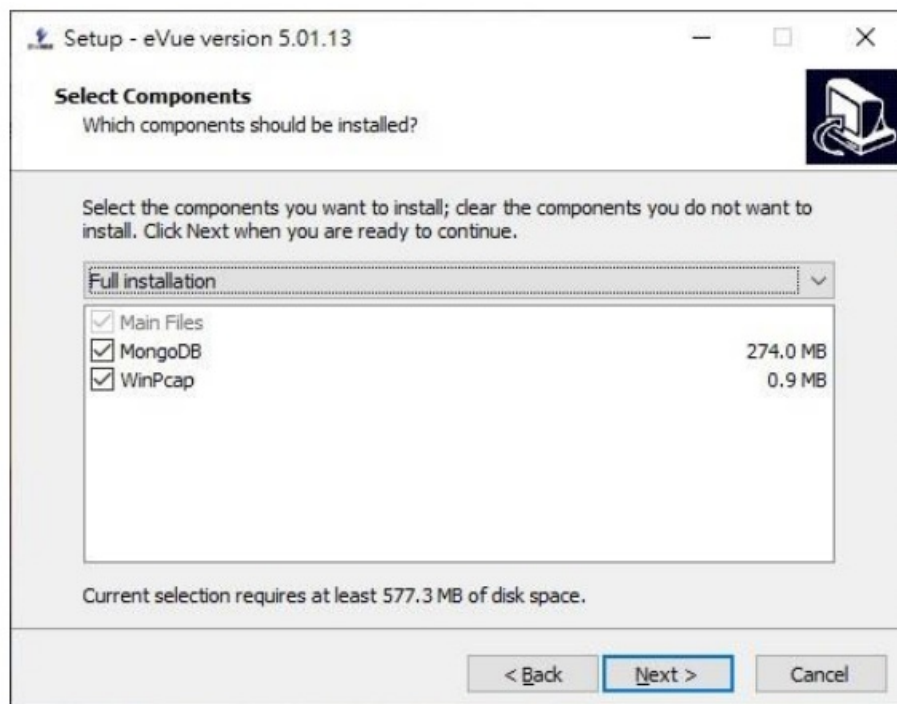


Click Next to install MongoDB and WinPcap:

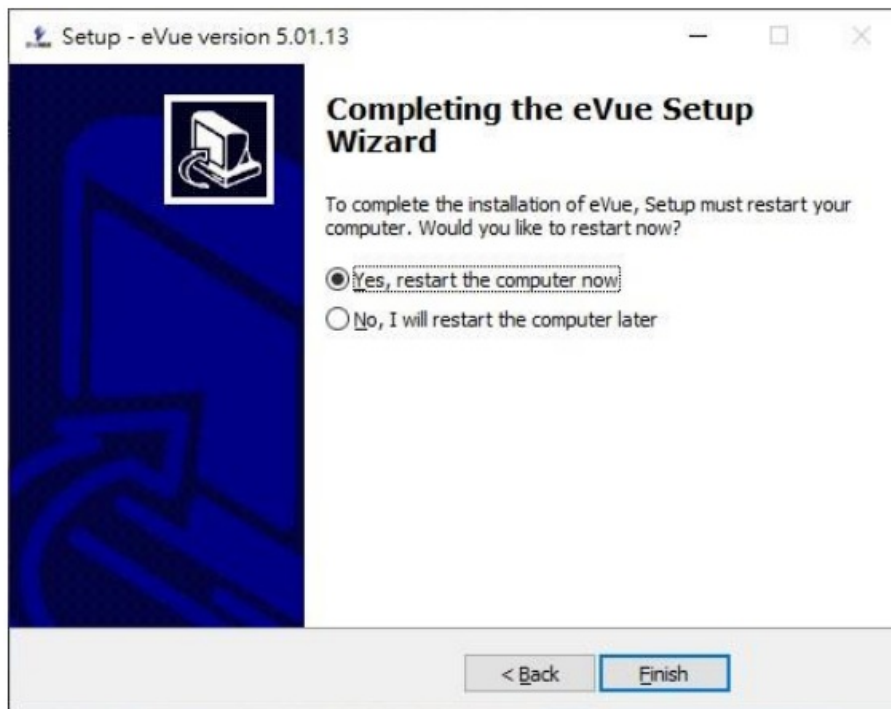


MongoDB is the database used by eVue and mainly stores devices and event information. WinPcap is the industry-standard tool for link-layer network access, which allows applications to capture and transmit network packets. Select the location for the program shortcuts, and click Next for the installations. MongoDB and WinPcap are installed sequentially.

Lastly, read and accept the information for eVue.



You will be prompted to restart the computer



Registration

The first time that you run eVue from <https://localhost:3001>, you will be required to register the software. Enter the license key provided and click to validate.

Active License Number

Please enter the license key

Active

NOTE: Ensure that these ports are open when using eVue,

- Port 22: SSH
- Port 69: TFTP
- Port 161: SNMP get/set
- Port 162: SNMP Trap
- Port 3000, 3001: HTTP/HTTPS

ARP (Address Resolution Protocol) is used for EtherWAN product initial discovery.

Using eVue

Login

The image shows a login interface for EtherWAN. At the top center is the EtherWAN logo, which consists of a stylized blue 'E' above the text 'EtherWAN' in a bold, black, sans-serif font. Below the logo are two input fields. The first field is a text box containing the word 'admin'. The second field is a password box containing five asterisks '*****' and a small eye icon on the right side to toggle visibility. Below these fields is a solid blue rectangular button with the word 'Login' in white text.

In addition to admin, there are two other default login options: technician and operator. Users logged in as operator have read rights only (cannot modify any fields).

The default login name is: admin (Login names are case sensitive)

The login password is: admin

To access the software from the local (server) PC:

1. Open a web browser
2. In the Internet address bar, enter “localhost:3001” and hit Enter

To access the software from a remote (client) PC:

1. Open a web browser
2. In the Internet address bar, enter “<Server_ipaddress>:3001” and hit enter.
(Example: 192.168.10.100:3001)

Configuration and Use



Start screen

When eVue is launched, the Topology screen will display. The Topology view will be empty the first time eVue is run. The Topology view displays all EtherWAN devices that eVue has detected on the network, and have been added using the IP Range Search function. In the Topology view, you can see each device’s IP address and device type (L2, LL3, L3, etc.). Dotted lines connecting devices represent blocked ports. Moving the mouse cursor over a specific link will display the real-time port utilization (Port utilization is 99.7% for the upper left link in the example above). At the upper right of the screen, the drop-down menu beside the “Logout” button allows user to switch the interface from English to Traditional Chinese, and vice versa. At the bottom of the screen, the Events section displays the most recent events by order of occurrence.

40

0





0

0

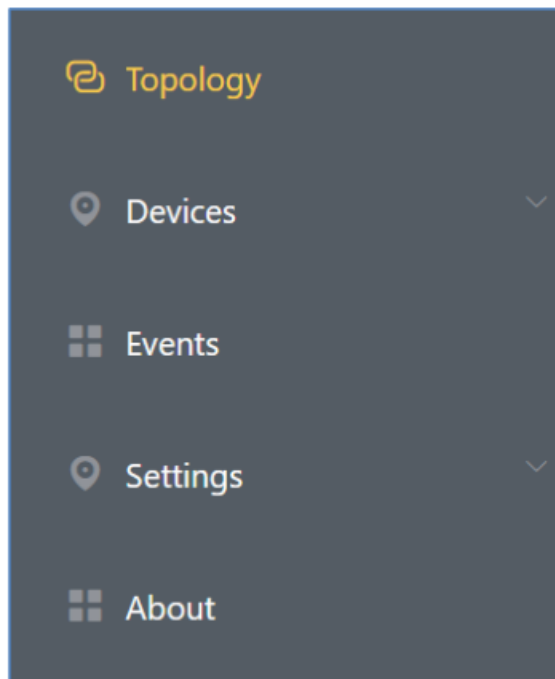
37

37

0

	ID	Severity	Time	Service	Node	Message
	114	Normal	2022/09/21 08:49:34	Login	server	User 'admin' logged in
	113	Normal	2022/09/21 08:42:37	Login	server	User 'admin' logged in
	112	Normal	2022/09/20 15:45:22	Login	server	User 'admin' logged in
	111	Normal	2022/09/20 15:33:56	Login	server	User 'admin' logged in

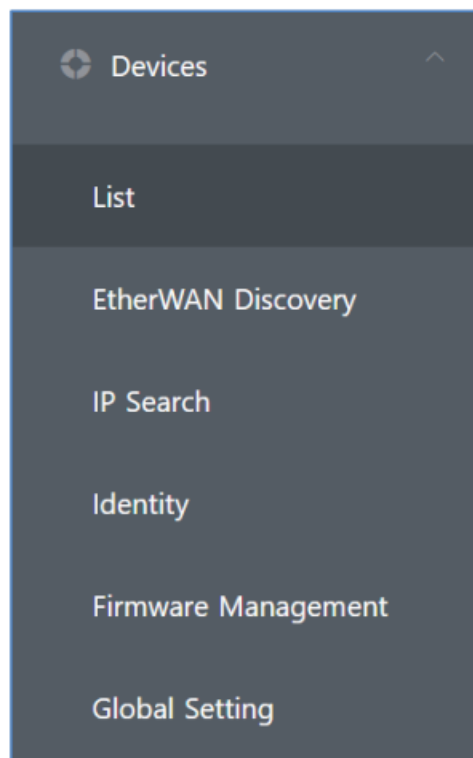
Navigation



Use the navigation labels at the left of the screen to access specific screens and associated functions.

Devices

Clicking the Devices label opens a drop-down menu for five functions: List, EtherWAN Discovery, IP Search, Identity, and Firmware Management



List

This screen shows all devices currently monitored by eVue. To remove a specific device from the system, select the device by clicking the checkbox on the left, and then click the Remove button. Using the Remove All button will remove all devices.

Refresh

Remove All

Select group ▾

||

Type search keyword.

Filter by group ▾

Filter

Clear

<input type="checkbox"/>	IP ▾	Name ▾	SNMP	Telnet	SSH	HTTP	HTTPS	Group ▾	⋮	
<input type="checkbox"/>	<div><div></div><div></div></div>	<div><div></div><div></div></div>	192.168.1.20	<u>switch_a</u>	✓	↗	↗	↗	✗	C

< 1 > Total 1

||

Type search keyword.

Filter by group ▾

Filter

Mac Address ▾	Series ▾	Firmware Version
00:e0:b3:23:38:0e	EX78900	2.02.1

Groups – Devices can be assigned to user-defined groups for easier viewing and management. To add a new group, click on Select group and then Add New Group. Assign the new group a name and color, then click Confirm. The new group will be displayed in the Topology view. To add a switch to a defined group, click on the switch name. A new window will open with a General Settings panel on the left. Select the group from the dropdown list in the Group field. The click the Update button. The List view can be filtered by group, using the Filter by group and Filter buttons at the top right

Add Group

Name

test



Color



Cancel

Confirm

Filter – To quickly locate a specific switch, enter an IP address or a host name in the Type search keyword field, and click Filter. All device that match the search criteria will display

- Telnet, SSH, HTTP, and HTTPS – You can directly connect to any switch on the list by clicking the  icon under the corresponding protocol. An icon  indicates that the protocol is not enabled on the device.
- Device Configuration – Clicking on the device name in the List view opens a configuration screen that allows for SSH enabling, User Account Management, Import/Export config and Firmware Upgrade Scheduling functions.

Configuration

Host IP

Test: 192.168.1.147

Refresh

Enable SSH

☐

User Account Management

Add/Edit User Account

Import/Export Config

Import Config

Export Config

Firmware Upgrade

Current Version: 2.02.9.8

Select date and time

Schedule

Device information for all known devices is displayed at the bottom of the configuration screen.

Device Information			
Panel	VLAN	PoE	
Port	Link	Remote Device IP	Remote Device Port
ge1	✓	-	-
ge2	✗	-	-
ge3	✓	192.168.1.10	fe5

EtherWAN Discovery

EtherWAN Discovery can discover all the devices in the same LAN that are not already listed by eVue. To start EtherWAN Discovery, click the Refresh button to show all the current network adaptors for the host machine. If you are running eVue on localhost:3001, then the adaptors on your PC will be displayed

EtherWAN Discovery

Refresh

☒ 乙太網路(192.168.1.100)

☐ VMware Network Adapter VMnet1(192.168.114.1)

☐ VMware Network Adapter VMnet8(192.168.145.1)

☐ Wi-Fi(10.210.24.17)

discovery

IP	MAC	Subnet	Default Gateway	VID1	VID2	NIC
No Data						

Select the desired network interface by clicking the corresponding check box, and then click the Discovery button. A list of found devices will display, showing the IP address, MAC address, subnet, default gateway, and corresponding NIC. IP Search The IP search function can find desired devices from different network segments. To start a search, enter the desired IP range, SNMP identity, and click the Search button. The allowable IP range search is 512 nodes.

IP Search

Add

IP Range

192.168.1.1

~

192.168.1.200

199/200

SNMP

EEE

Search

<input type="checkbox"/>	IP	Name	Mac Address	Brand	Series	Model	Firmware Version	Console Identity
<input type="checkbox"/>	192.168.1.10	switch_a	00:e0:b3:98:01:aa	EtherWAN	EX77000	77000	4.02.0.12	Default
<input type="checkbox"/>	<div>+</div> 192.168.1.20	switch_a	00:e0:b3:23:38:0e	EtherWAN	EX78900	78921SC	2.02.1	Has been set

All found devices with SNMP enabled will be displayed. Click the “+” icon next to a device to set a console identity for that device. After an identity has been set, the device will show in both the Topology and List views.

Identity

Console identity: Create console identities in order to use remote configuration and firmware upgrade functions. Click the Add button, then enter a name for the device identity, and the username and password required to access the device

Identities

Console

SNMP

Default

EtherWAN

Add

Remove

<input type="checkbox"/>	Name	User	Password	
<input type="checkbox"/>	EtherWAN	root	*****	<div><div></div><div></div></div>

SNMP identity: When eVue used for the first time, it is necessary to establish SNMP identities. SNMP version can be v2 or v3 (Community get: public). After SNMP identity is set up, the IP Search function will be available. Click the Add button, then fill in the Community (Get) and Community (Set) fields.

Web Console

SNMP

Default

Select

V2

Add

Remove

<input type="checkbox"/>	Name	Community(Get)	Community(Set)	
<input type="checkbox"/>	EEE	public		<div><div></div><div></div></div>

V3

Add

Remove

<input type="checkbox"/>	Name	User	Security Level	Auth Protocol	Privacy Protocol
No Data					

Firmware Management

On the Firmware Management screen, devices are grouped by model number. Click on the corresponding icon to see information about that device model.

Firmware Management

Firmware Infomation

Upload Firmware

Filter by series.

File <div></div>	Series	Version
No Data		

Click the Upload Firmware button to upload new firmware to a device. Select the desired firmware file, and fill out the Version and Series fields. Then click Upload.

Upload New Firmware

File

Select File

Version

Series

Cancel

Upload

Global Setting

On this screen, multiple switches can be configured to enable or disable SSH, HTTP, and HTTPS at once. Select the switches to be configured by clicking the check box to the right of the switch name. Then click the Switch button

Global Setting

Switch All





Type search keyword.

Filter by group

0/0

Filter

Clear

		IP	Name	Group	Mac Address	Series	Message
<input checked="" type="checkbox"/>		192.168.1.1			fa:16:6f:9c:07:08		
<input checked="" type="checkbox"/>		192.168.1.10	switch a		00:e0:b3:77:77:77	UNKNOWN	
<input checked="" type="checkbox"/>		192.168.1.20	switch a	Test Group	00:e0:b3:23:38:0e	EX78900	

<

1

>

Total 3

Select the service, then select enable or disable. Click Confirm to apply this configuration to all selected devices

Switch Status

Service

☐ SSH
☐ HTTP
☒ HTTPS

Status

☐ Enable
☒ Disable

Cancel

Confirm

Events

The Events screen displays the most recent events. All events can be acknowledged or removed by clicking the Ack All button in the upper left corner of the screen. Events can be filtered by severity, service (Ping-monitor, SNMP Monitor, or Login), or text in the Event message. The Clear All button allows for the clearing of either all events or events from a week ago.

Events							
<div> <div>Ack all</div> <div>Clear events</div> </div>		<div> <div>Severity.</div> <div>▼</div> </div>		<div> <div>Service.</div> <div>▼</div> </div>		<div> <div>Type to filter by message.</div> <div>Filter</div> </div>	
<input type="checkbox"/>	ID	Severity	Time	Service	Node	Message	
<input type="checkbox"/>	<input checked="" type="checkbox"/> 28	Normal	2021/09/26 14:32:30	Login	server	User 'admin' logged in	
<input type="checkbox"/>	<input checked="" type="checkbox"/> 27	Normal	2021/09/26 08:40:39	Login	server	User 'admin' logged in	
<input type="checkbox"/>	<input checked="" type="checkbox"/> 26	Normal	2021/09/26 08:17:19	Login	server	User 'admin' logged in	
<input type="checkbox"/>	<input checked="" type="checkbox"/> 25	Normal	2021/09/26 07:33:05	Login	server	User 'admin' logged in	
<input type="checkbox"/>	<input checked="" type="checkbox"/> 24	Critical	2021/09/23 15:21:38	ping-monitor	192.168.1.20	Ping 192.168.1.20 is down.	
<input type="checkbox"/>	<input checked="" type="checkbox"/> 23	Critical	2021/09/23 15:21:38	ping-monitor	192.168.1.10	Ping 192.168.1.10 is down.	

Events can be sorted by:

1. ID number
2. Severity (All, Unknown, Cleared, Normal, Warning, Major, Critical)
3. Time
4. Service
5. Node
6. Message

Definitions for event severity levels:

Critical (7)

This state indicates that numerous devices on the network are affected by the event. Resolving this problem should be a priority for all personnel.

Major (6)

A device is completely down or in danger of going down. Attention should be paid to this problem immediately.

Warning (4)

An event has occurred that may require action. This severity can also be used to indicate a condition that should be noted (logged) but does not require direct action. An example would be a login failure, or when a link goes up unexpectedly.

Normal (3)

Informational message only. No action is required.

Cleared (2)

This severity is reserved for use in alarms to indicate that an alarm describes a self-clearing error condition that has been corrected, and service restored.

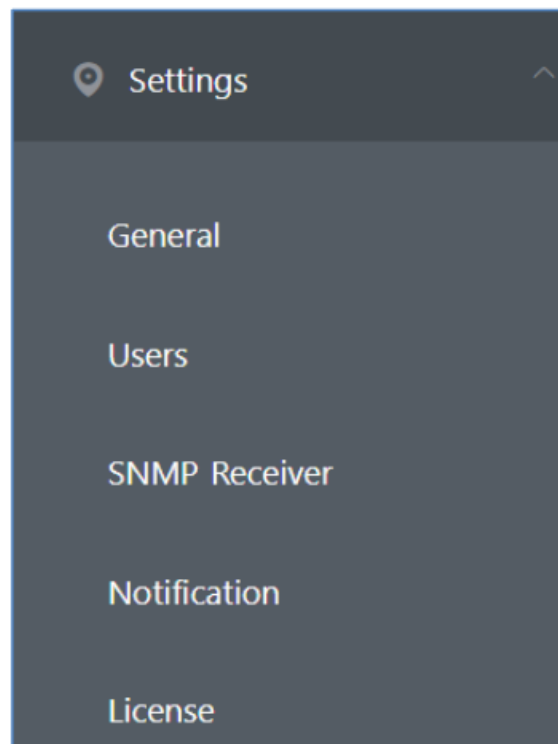
Indeterminate (1)

Severity for this event could not be determined. The table below shows some example events and their corresponding severity level.

Traps from Device	Critical	Major	Warning	Normal	Cleared
Loopback detect		✓			
MAC Notification			✓		
Alpha-ring topology change		✓			
Digital input (DI 01) is triggered		✓			
Digital input (DI 02) is triggered		✓			
Power up				✓	
Power down	✓				

Traps from Device	Critical	Major	Warning	Normal	Cleared
PoE up				✓	
PoE down		✓			
PoE overload	✓				
PoE system error	✓				
Alpha-ring coupling topology change		✓			
Storm detect		✓			
Loopback detect recovery					✓
Dying gasp	✓				
User login			✓		
User logout			✓		
User login failure		✓			
Temperature over specified range	✓				
Temperature under specified range				✓	
Humidity over specified range	✓				
Humidity under specified range				✓	
Digital input is triggered		✓			
Temperature within specified range					✓
Humidity within specified range					✓
Digital input within specified range					✓
Storm detect		✓			
Storm detect recovery					✓
eVue Login				✓	
eVue Login fail			✓		
eVue monitoring: Ping up					✓
eVue monitoring: Ping down	✓				

Clicking the Settings label opens a drop-down menu for five functions: General, Users, SNMP Receiver, Notification, and License



General

Auto logout is a functionality implemented to log out the user automatically when there is no activity from the user's for a specified period.

A configuration form titled "Auto Logout Timeout". It has a label "Timeout" followed by a dropdown menu currently showing "Never". In the bottom right corner, there is a blue button labeled "Update".

Network utilization is the ratio of current network traffic to the maximum traffic that the port can handle. It indicates the bandwidth use in the network. User can choose intercal value and customize the color to show on the topology view.

A configuration form titled "Utilization". It has a sub-section titled "General". Inside "General", there is an "Interval" dropdown menu set to "10sec". Below that, there is a section labeled "Color & Percentage" with four rows. Each row has a percentage input field and a corresponding color swatch: 25% (green), 50% (yellow), 75% (purple), and 100% (red).

When the Log setting is enabled, the traffic utilization of each port will be saved in the local disk drive (recommended that the remaing enough space), and users can track and view past traffic utilization as needed

Log Settings

Save Log

☒

Log Save Days

High Warning

TX

RX

Configure e-mail notifications on this screen. Fields are Host, Port, Secure, Require TLS (used to convey a request to ignore recipient-side policy mechanisms), User, Auth Name, and Auth Password.

General Settings

Email

Host

Port

Secure

☐

Require TLS

☐

User

Auth Name

Auth Password

New Auth Password

Test

Update

Users

Three types of user can be set up: Admin, Technician, and Operator. Admins have full read and configuration rights, Technicians only have rights to upgrade firmware, manage configuration files, and acknowledge events. Operators have read rights only.

User Configuration

Add

Name	Password	Role	
admin	*****	admin	
api	*****	admin	

In the User section, the password, contact email, and interface language can be set for the current user type. You must be logged in as that user type to make changes (Example: User logged in as admin can only modify fields related to admin user account.) The email account entered here is only used in case of a lost password. You can also set the Auto-logout Timeout.

Password complexity requirements are:

1. Password length is minimum 12 characters and maximum 35 characters, without spaces.
2. The password must contain characters from the following categories:
 - Uppercase English letters, (A to Z)
 - Lowercase English letters, (a to z)
 - Numbers, (0 to 9)
 - Non-alphanumeric characters

SNMP Receiver

Configure the capture, display, and logging of SNMP traps on this screen.

SNMP Receiver

General

Receiver Server Enable ☒ Port Community

Update

Trap Mapping

Add

Remove

||

Filter

Clear

<input type="checkbox"/>	OID ↕	Description ↕	Severity ↕	Message	
<input type="checkbox"/>	1.0.8802.1.1.2.0.0.1	IldpRemTablesChange	Major	IldpRemTablesChange	
<input type="checkbox"/>	1.3.6.1.2.1.17.0.2	topologyChange	Major	topologyChange	
<input type="checkbox"/>	1.3.6.1.4.1.2736.1.1.1.15.1	ewnLoopbackDetected	Major	Loopback detect	

Notification

Notification Condition Click +Add button to create a new notification condition. Enter a name in the Condition Name field, and click Update. In this section, remote SNMP servers can be added and removed. Click Add button to create a new remote SNMP server. Enter the IP address and the SNMP community.

Notification Configuration

Condition

Add

Remove

☐

Name

Severity

Configuration

Email

No Data

Remote SNMP Server

Add

Remove

☐

Host

Identity

No Data

License

This is a read-only screen that displays current licensing information

License

License Number: 1797efe0-c4e7-7209-d2e4-fa38e230aaa7

End Date: 2023-8-1

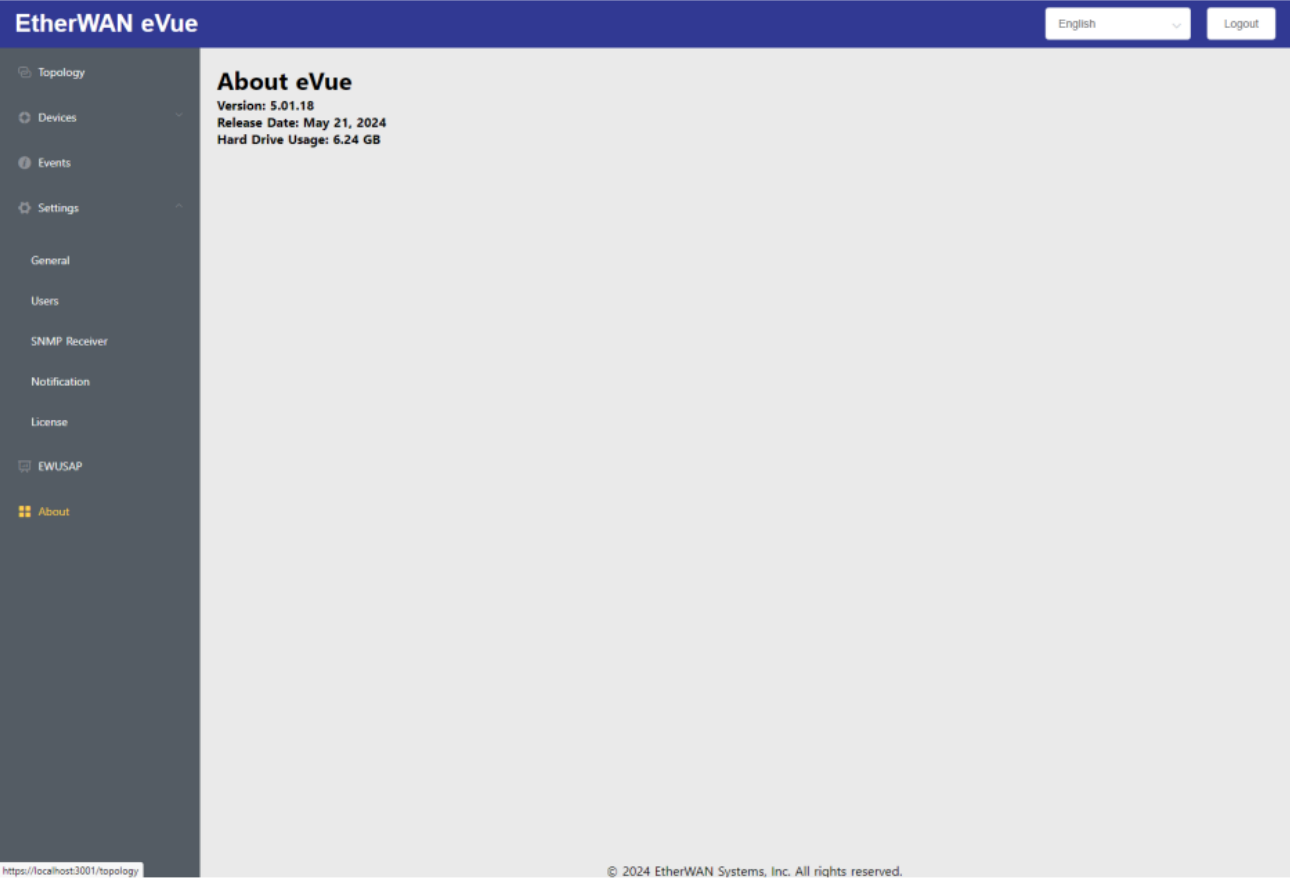
Node: 100

Result: Success

Reactive

About

Show the version of eVue and storage usage



Appendix I

Command reference for enabling LLDP on EtherWAN switches. (NOTE: Some legacy EtherWAN switches, such as the EX96000 and Espresso series, do not support LLDP, and are incompatible with eVue.

EG99000 CLI:

Command Mode	Global Configuration
Syntax	lldp enable
Parameters	None
Example usage	switch_a(config)# lldp enable

EG99000 GUI:

LLDP General Settings

LLDP General Settings

LLDP Status

Disabled

Holdtime Mutiplier (2-10)

4

Enabled

Tx Interval (5-32768 sec)

30

Global TLV

☐ All

☐ Port Description

☐ System Name

☐ System Description

☐ System Capabilities

☐ Management Address

☐ Port VLAN ID

☐ MAC/PHY Configuration/Status

☐ Port And Protocol VLAN ID

☐ VLAN Name

☐ Protocol Identity

☐ Link Aggregation

☐ Maximum Frame Size

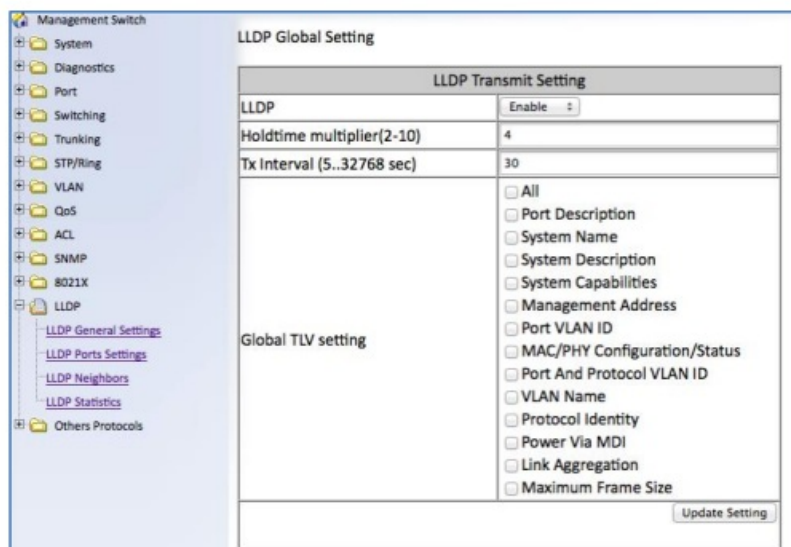
Apply

Cancel

All EX Series Managed Switches CLI

Command Mode	Global Configuration
Syntax	lldp enable
Parameters	None
Example usage	switch_a(config)# lldp enable

All EX Series Managed Switches GUI



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Documents / Resources

	EtherWAN eVue Network Management Software [pdf] User Guide eVue Network Management Software, eVue, Network Management Software, Management Software, Software
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References

- [🔧 EtherWAN PoE Solution and Industrial Ethernet Switches | EtherWAN](#)
- [User Manual](#)

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