

# First TWSNMP FK

Most popular SNMP manager in Japan



## At the beginning

TWSNMP is an SNMP manager that supports the most popular SNMPv3 in Japan for over 20 years.

It is TWSNMP FK that has been reprinted with the latest machine technology in 2023.

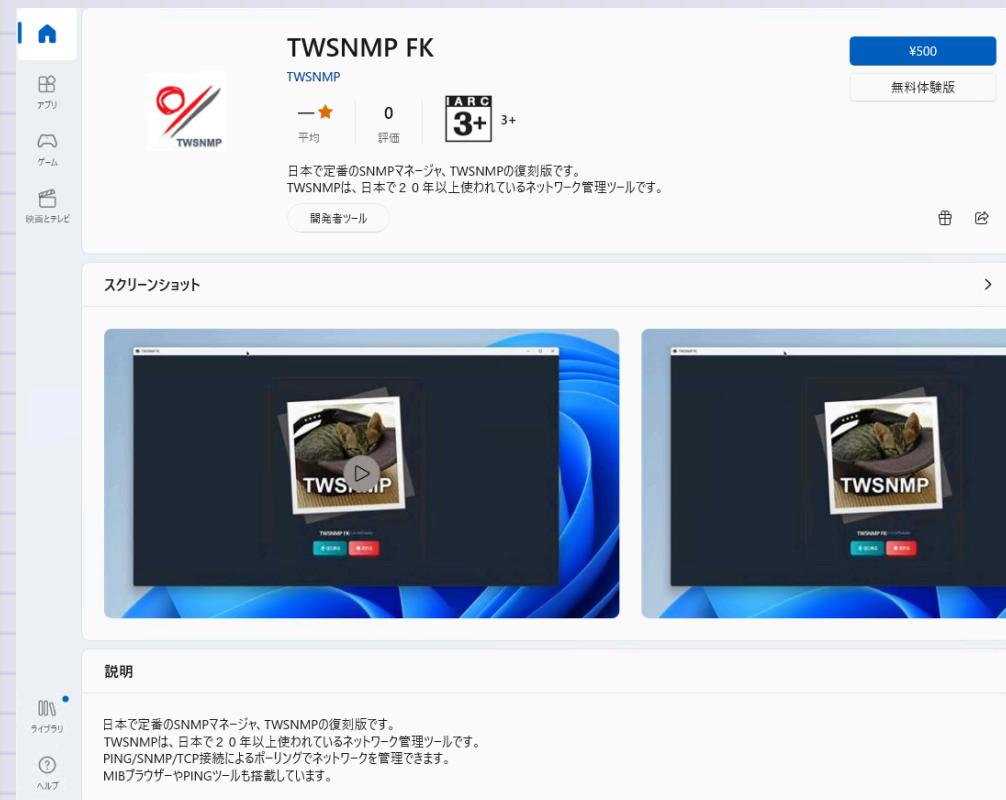
The TWSNMP FC that runs on the container is accessed from the web browser, but the FK is a desktop app and does not require a browser.

# Microsoft Store

Windows version

<https://www.microsoft.com/store/apps/9nsqn46p0mVL>

You can buy it.

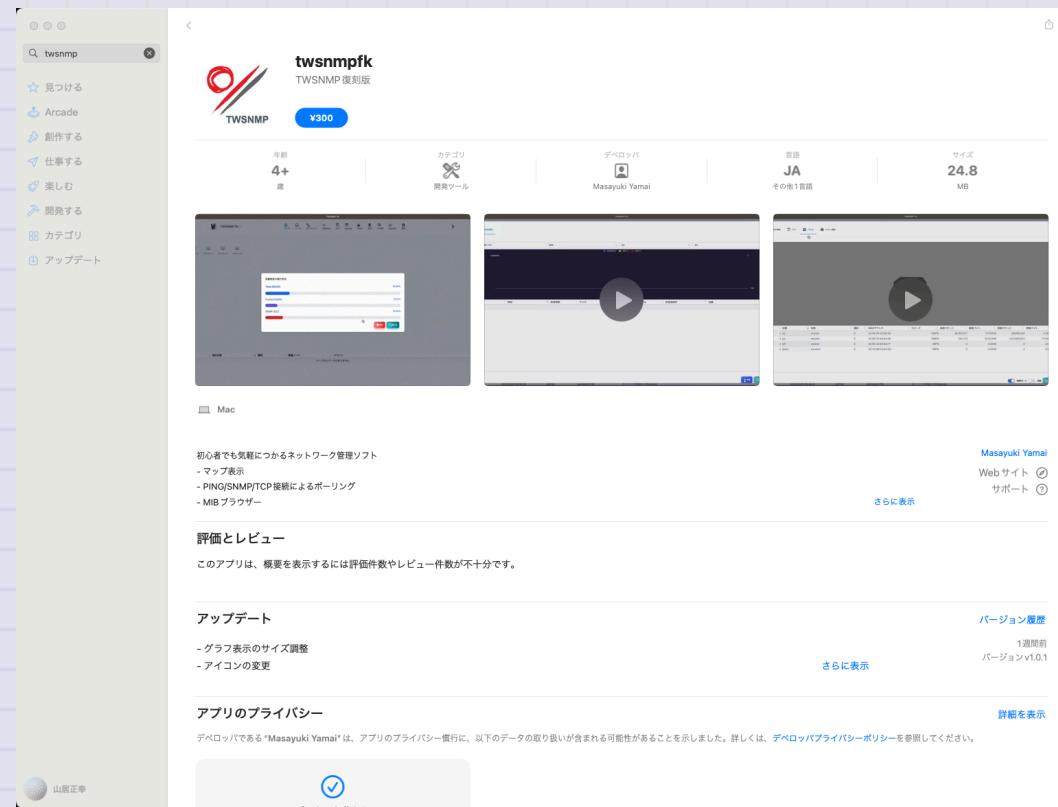


# App Store

The Mac version is

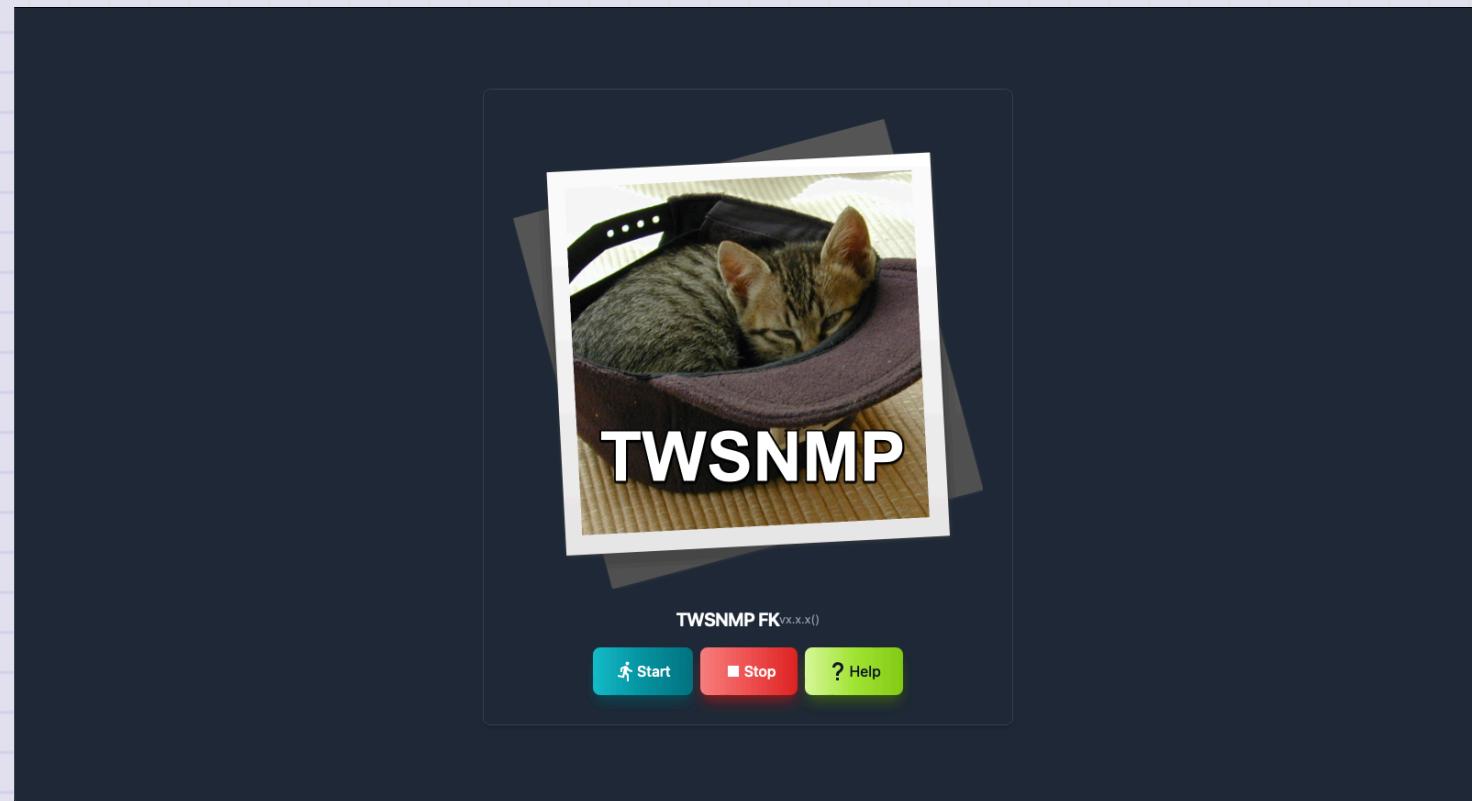
<https://apps.apple.com/jp/app/twsnmpfk/id6468539128>

You can buy it.



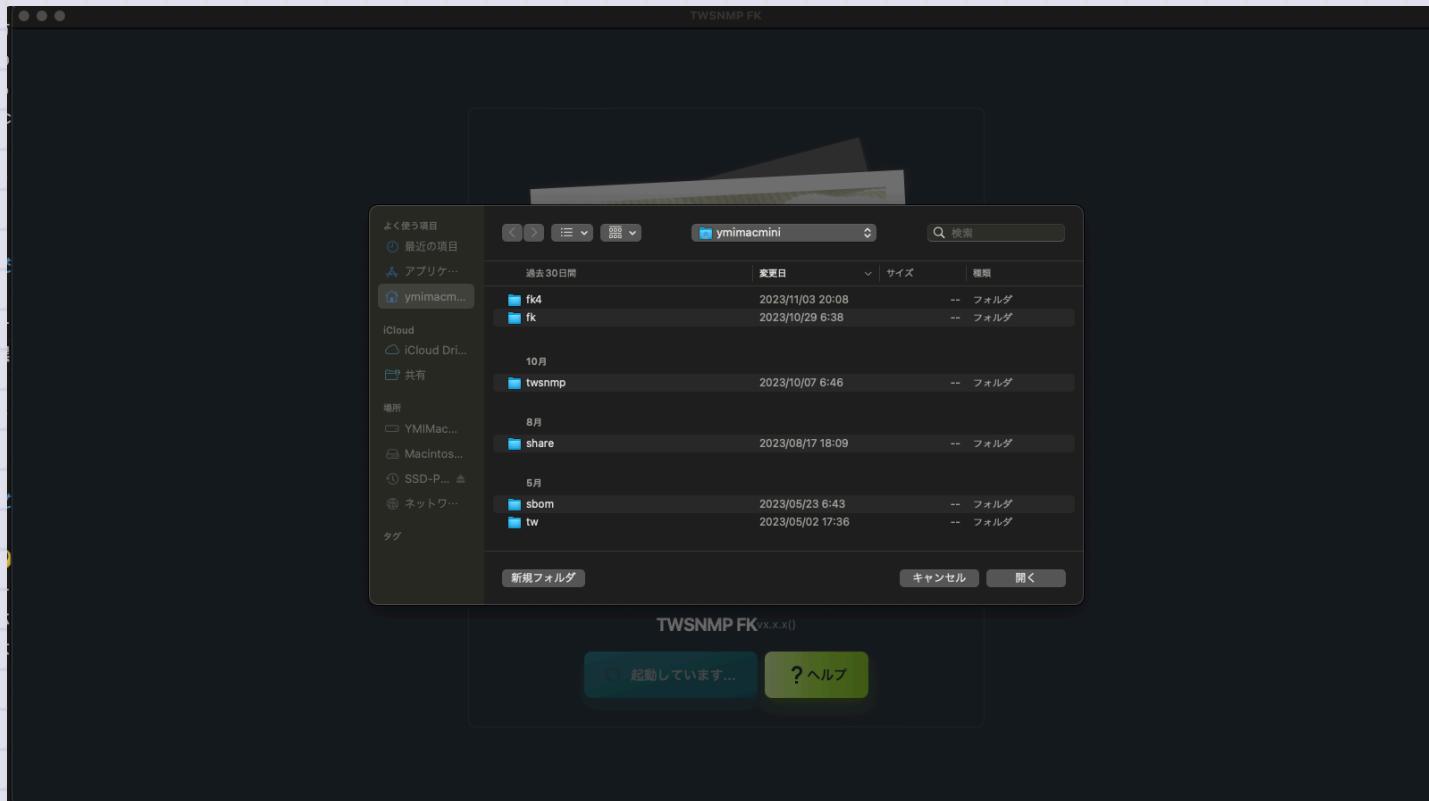
# Starting TWSNMP FK

In the case of Windows, start from the start menu to the Mac OS in your favorite method, such as from the launcher. Welcome to the screen. Start with the <Start> button. Stop the program with the <Stop> button. The explanation screen of how to use it is displayed with the <Help> button.



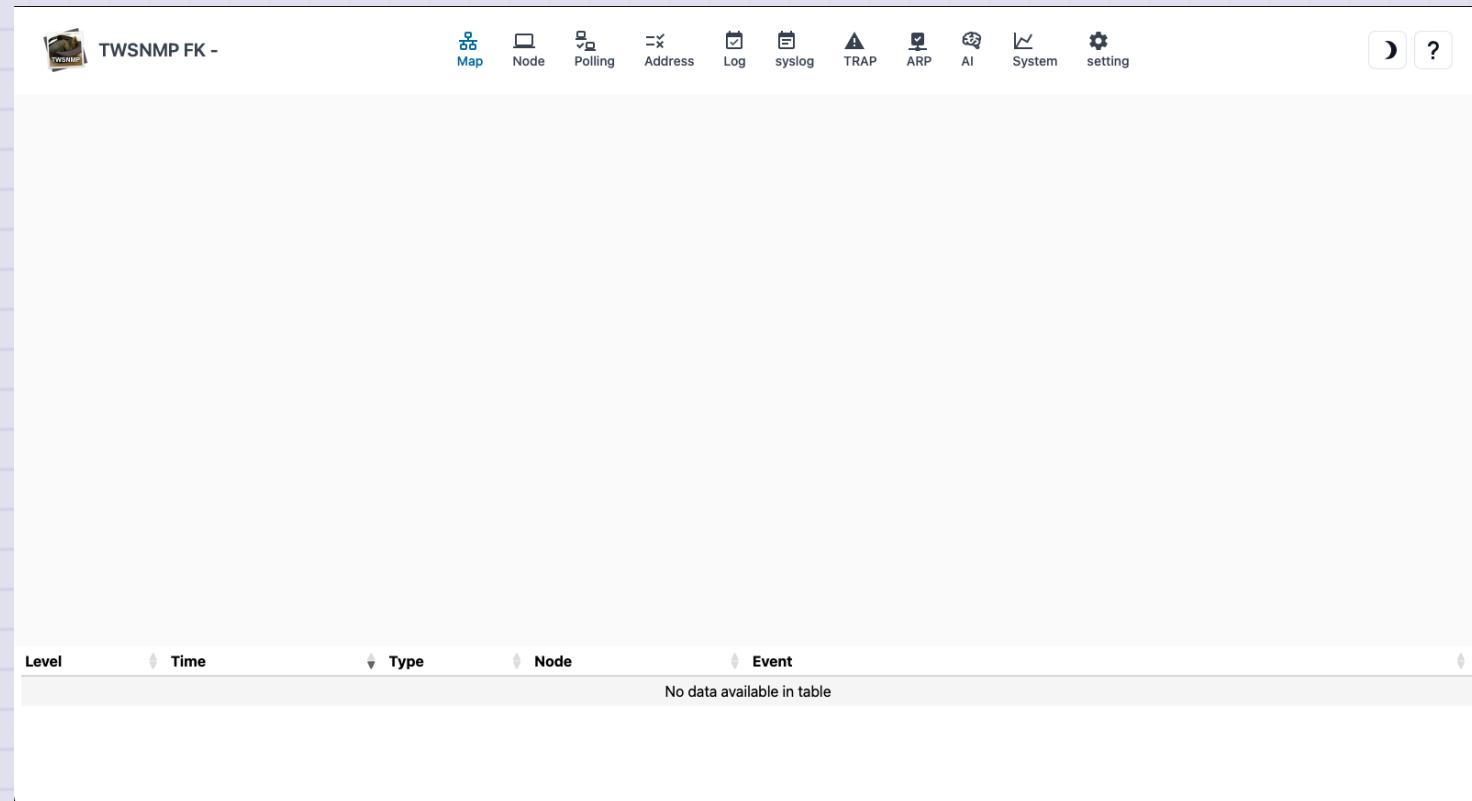
# Select a folder to save data

Click the <Start> button on the screen to display a dialog to select a folder to save the data. Please select a folder. You can also create a new one.



# First map

Select a new folder and start a map without node. After a while, the log will be displayed.



## Flow of the first map creation

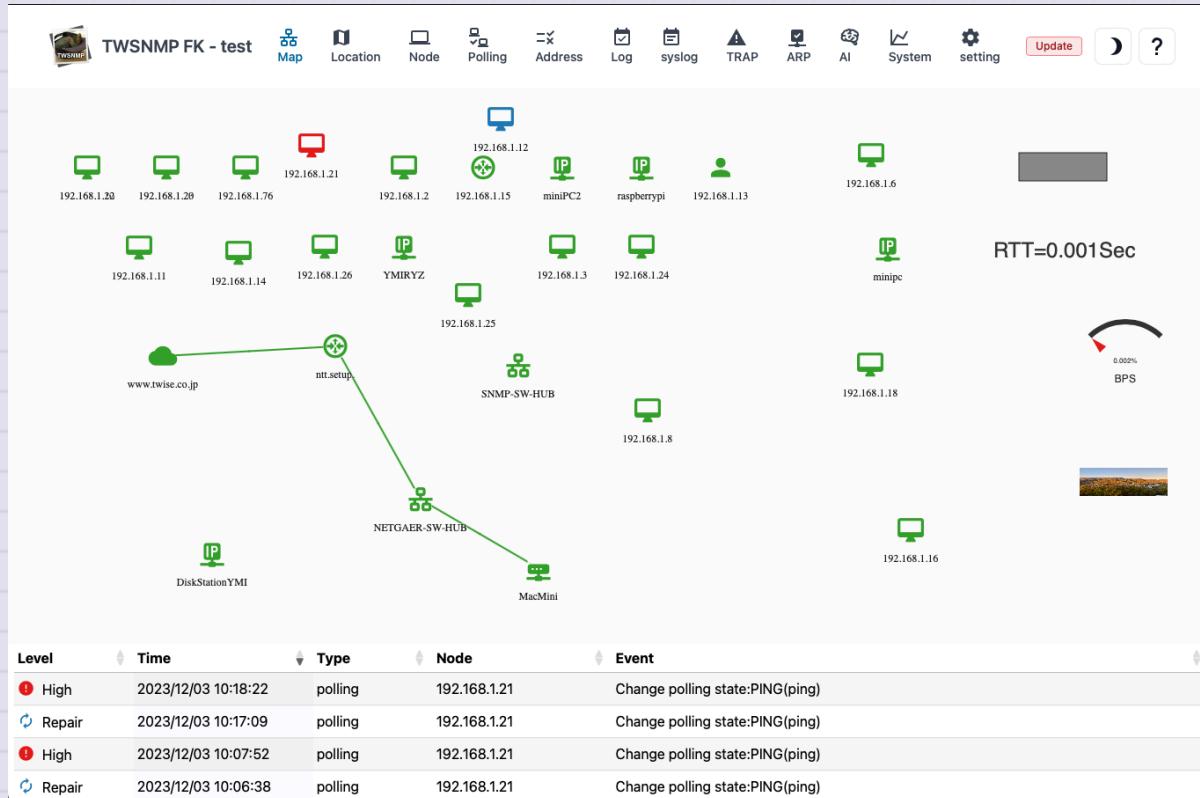
The flow of creating a map is

- Click the appropriate position on the map
- Start "Automatic discovery" from the menu
- The IP address range to be searched
- Precrose automatic discovery
- Move node on map
- Line connection

You can now search for PCs, routers, servers, etc. connected to the managed network and register on the map.

## Map

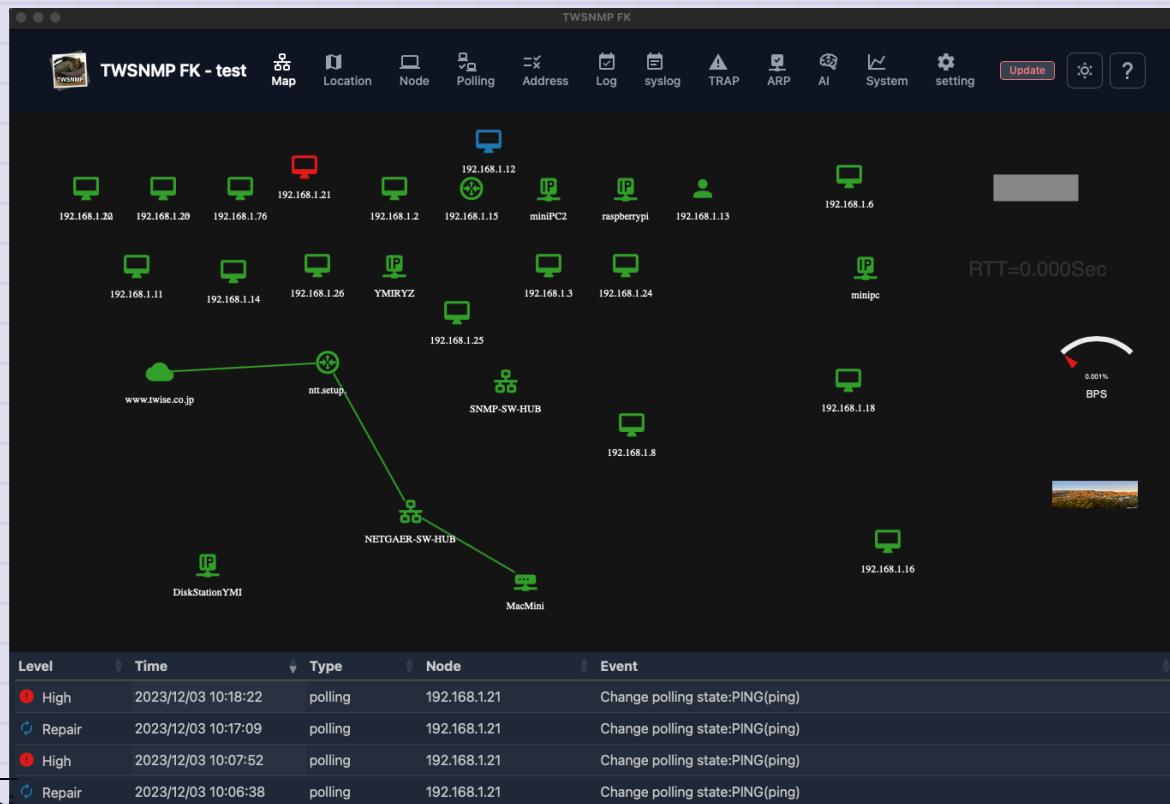
The map screen has three large parts.



| Screen    | Contents   |
|-----------|--|
| Toolbar   | Switch the screen.   |
| Map       | This is the part that displays the composition of the network. |
| Event Log | Displays the latest 100 event logs.                            |

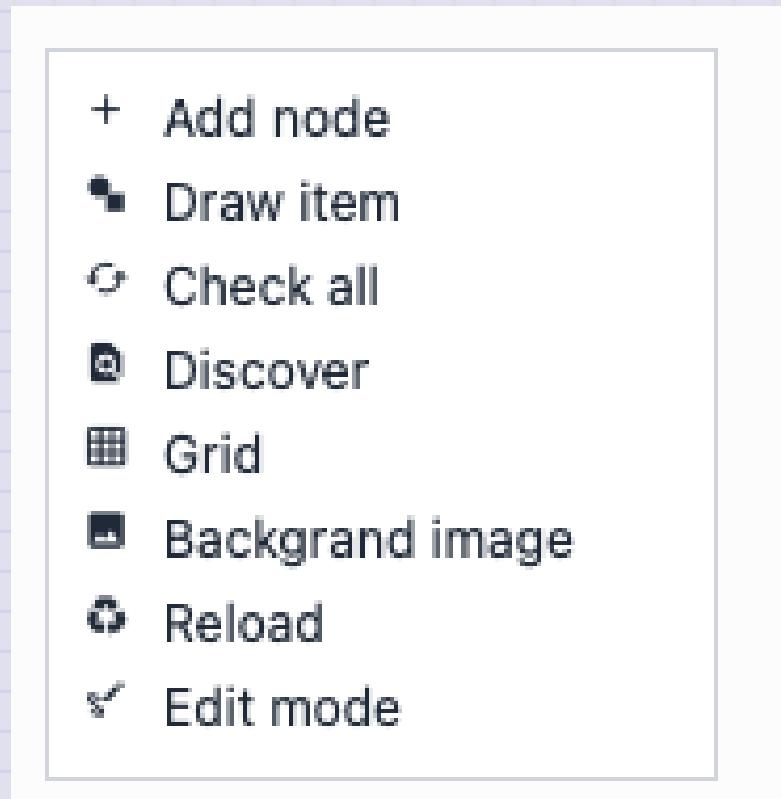
# Light/dark mode switching

Click the 🌙 mark on the upper right to dark mode.I like dark mode.Probably the person who aims for a white hacker likes dark mode.There are only white hackers in the cat world.By Cat of the predecessor assistant.The current assistant cat seems to like both because the pattern is black and white.



## Map menu

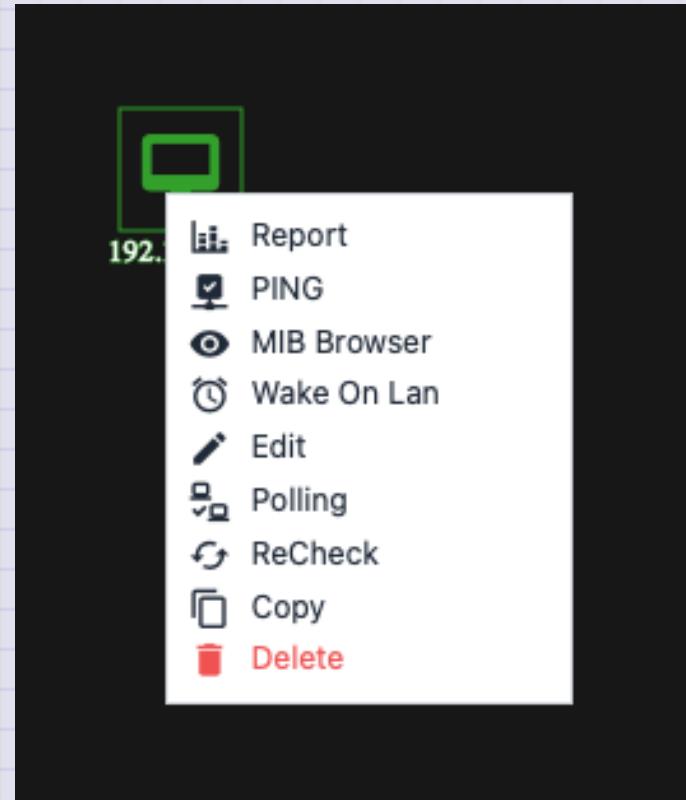
Right -click the location other than the node and drawing items on the map to display.



| Menu               | Operation   |
|--------------------|---|
| Add node           | Add the node to the map manually.                                   |
| Draw item          | Add drawing items to the map.                                       |
| Check all          | Reconfirm the node that has occurred.                               |
| Discover           | Displays the automatic discovery screen.                            |
| Grid               | Align the position of the node at the specified interval.           |
| Backgrand<br>image | set backgrand image to map  |
| Reload             | Update the map to the latest state.                                 |
| Edit mode          | All drawing items are displayed regardless of the state of the map. |

## Node menu

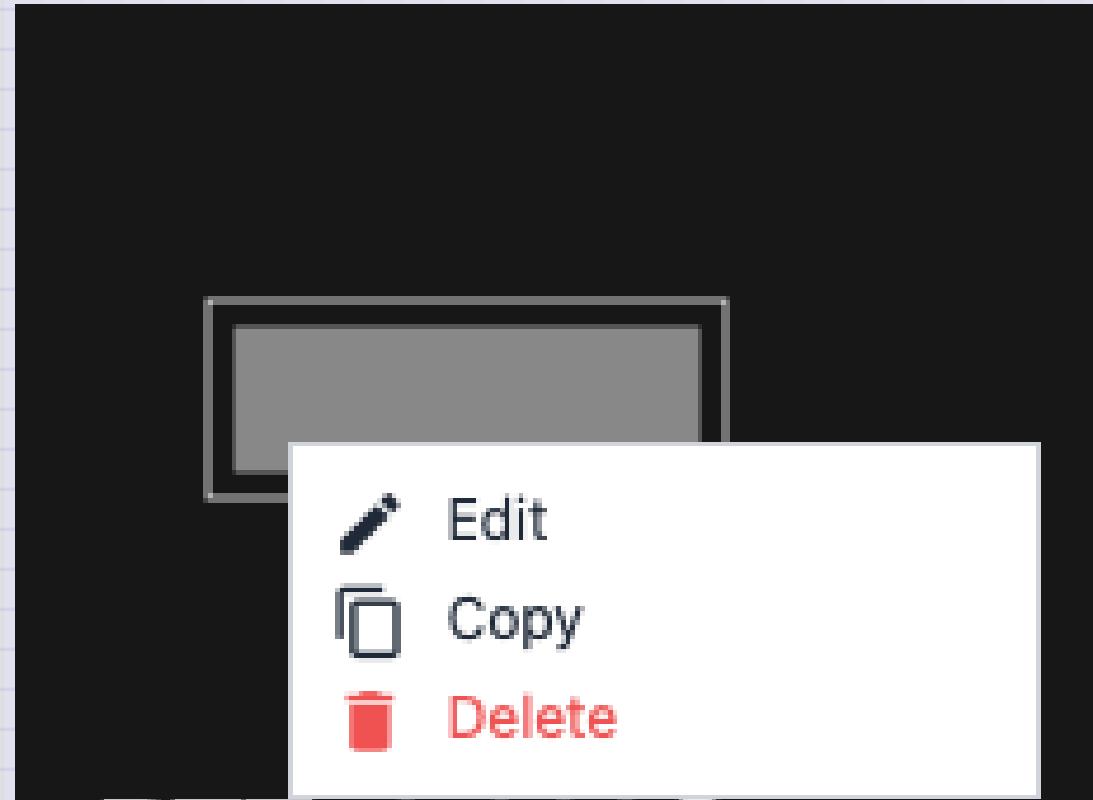
Right -click the node on the map to display it.



| Menu        | Operation   |
|-------------|---|
| Report      | Displays the report screen related to the node.             |
| Ping        | Displays the ping screen.                                   |
| MIB browser | Displays MIB browser.                                       |
| Wake on LAN | Wake on LAN packet.   |
| Edit        | Displays the screen to edit the node settings.              |
| Polling     | Displays a polling list related to nodes.                   |
| ReCheck     | Relieve the condition of the node by executing the polling. |
| Copy        | Create a node duplication.                                  |
| Delete      | Delete node.  |

## Draw item menu

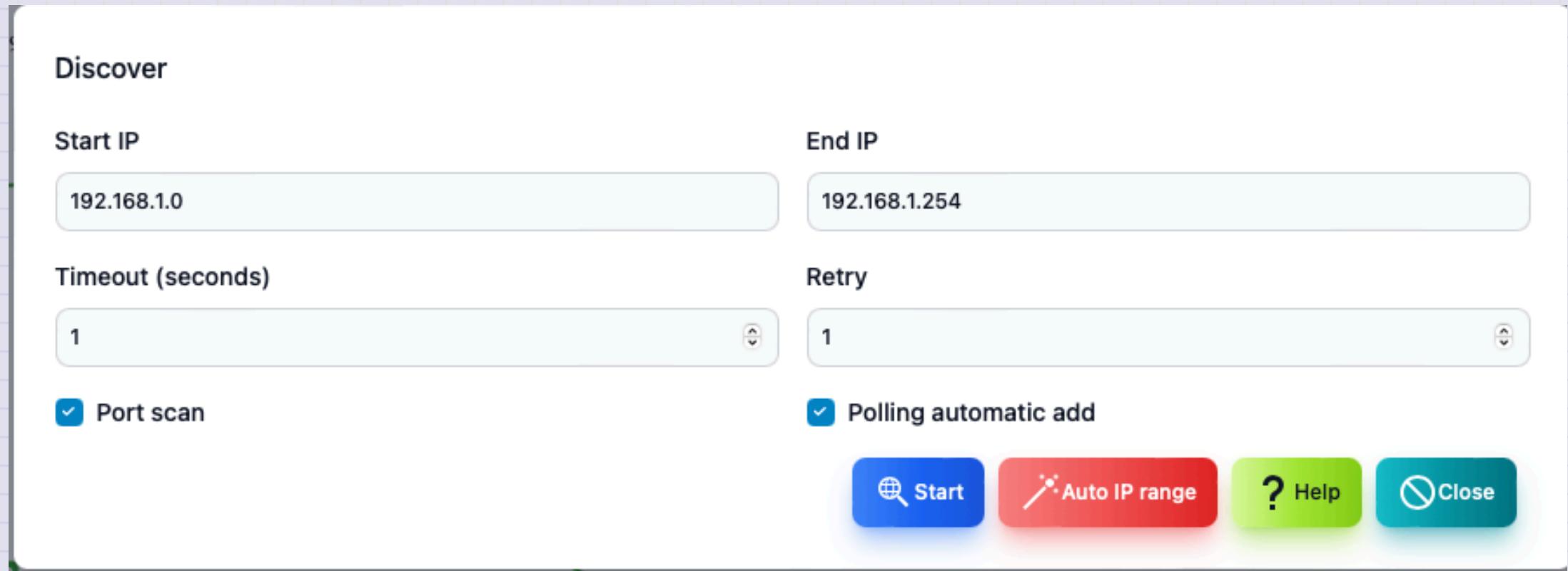
Right -click the drawing item on the map to display it.



| Menu   | Operation  |
|--------|--|
| Edit   | Displays the screen to edit the drawing item settings. |
| Copy   | Create drawing items.                                  |
| Delete | Delete drawing items.                                  |

## Discover

Automatic discovery screen.



| Items           | Contents   |
|-----------------|--|
| Start IP        | The first IP address range to search.                      |
| End IP          | The end of the IP address range to search.                 |
| Timeout         | This is the timeout of ping when searching.                |
| Retry           | This is the number of retries of ping when searching.      |
| Port scan       | Perform a port scan on the found node.                     |
| add polling     | Polling is automatically set on the found node.            |
| <Start>         | Start automatic discovery.                                 |
| <Auto IP range> | Automatically set the search range from the PC IP address. |

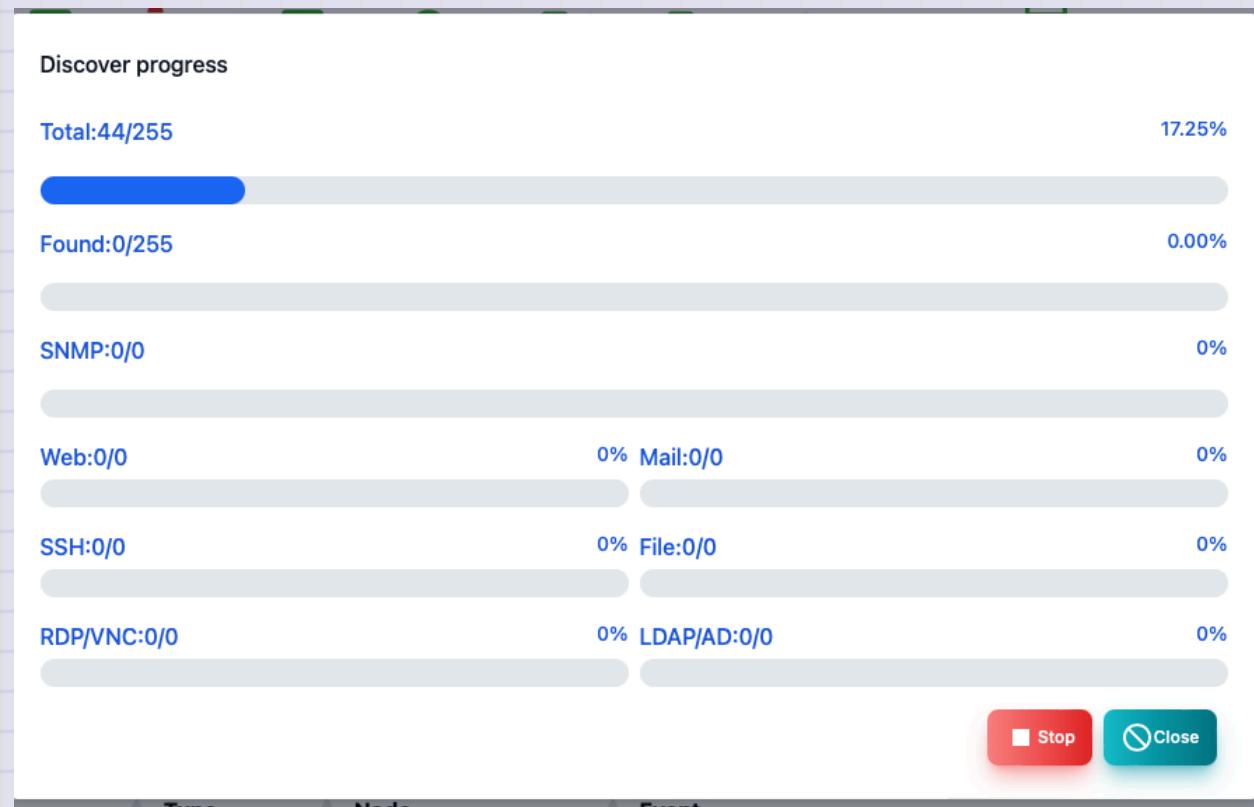
## Automatic discovery is being performed

The number of nodes you have executed or discovered is displayed.



## Automatic discovery is being executed (with port scanning)

The number of nodes you have executed or discovered is displayed. When performing a port scan, the discovered server function is also displayed.



## Node editing

You can edit the node from the menu or button by selecting a node on the map screen or node list.

Edit node

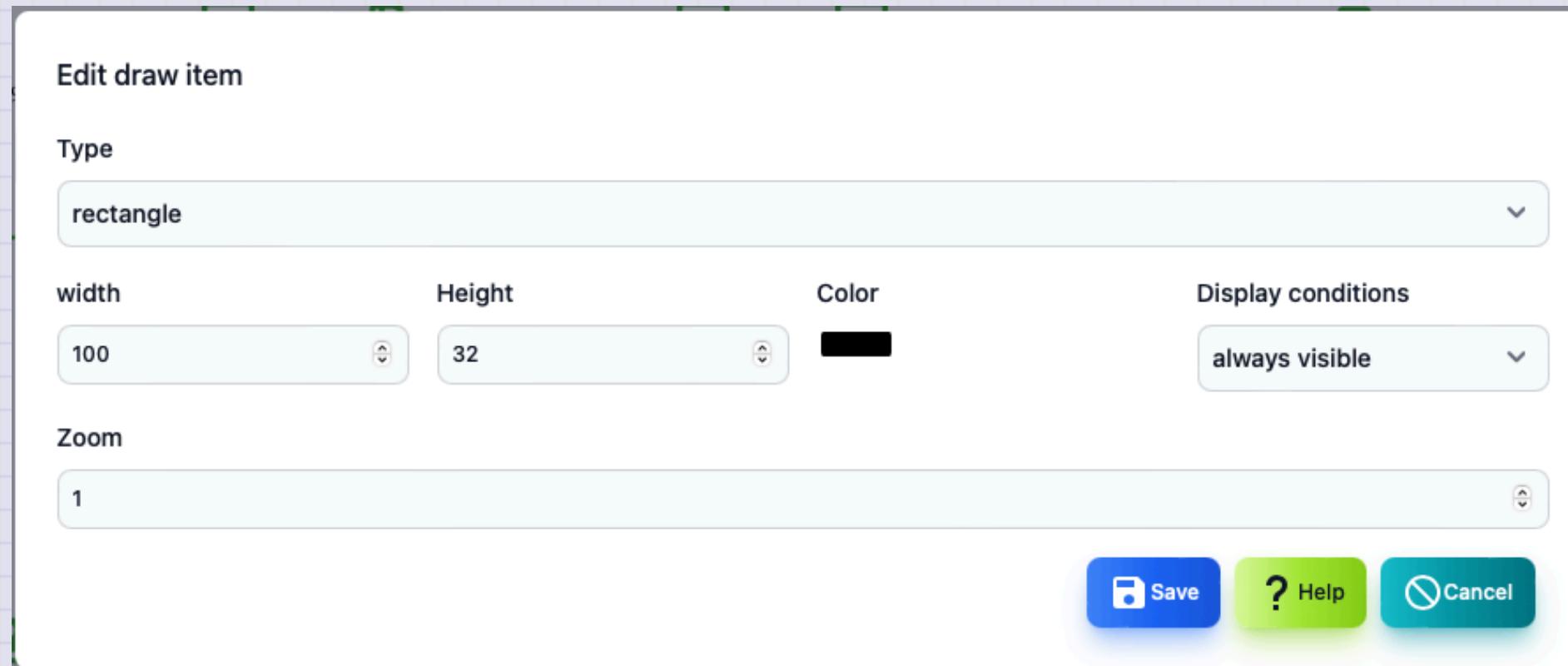
|   |   |                                     |
|---|---|-------------------------------------|
| Name<br>192.168.1.21                                    | IP Address<br>192.168.1.21  | Address mode<br>Fixed IP            |
| Icon<br>Ddesktop  |  | <input type="checkbox"/> Auto check |
| SNMP mode<br>SNMPv2c                                    | SNMP Community<br>public  |                                     |
| Public key  |   |                                     |
| URL   |   |                                     |
| Description<br>2023/10/18に発見                            |   |                                     |
| <span>Save</span> <span>Help</span> <span>Cancel</span> |   |                                     |

| Items        | Contents  |
|--------------|---|
| Name         | Node name.  |
| IP address   | Node IP address.  |
| Address mode | IP address fixation (default), MAC address fixing, host name fixed.   |
| Icon         | It is an icon to be displayed.  |
| Auto recheck | When it is returned, it will be automatically normal.                 |
| SNMP mode    | SNMP mode. There are SNMPv1, V2C, V3 (authentication and encryption). |

| Items          | Contents   |
|----------------|--|
| SNMP Community | Community name for SNMPV1, V2C.  |
| User           | User ID when accessing with SNMPv3.  |
| Password       | Password when accessing with SNMPv3.   |
| Public key     | This is the public key of the node when polling with SSH.<br>In the case of blank, automatically set at the first connection.              |
| URL            | URL when accessing with browser etc.<br>It will be displayed on the right -click menu.<br>You can specify multiple by separation of comma. |
| Description    | Supplementary information is described.  |

## Drawing item (rectangle, elliptical)

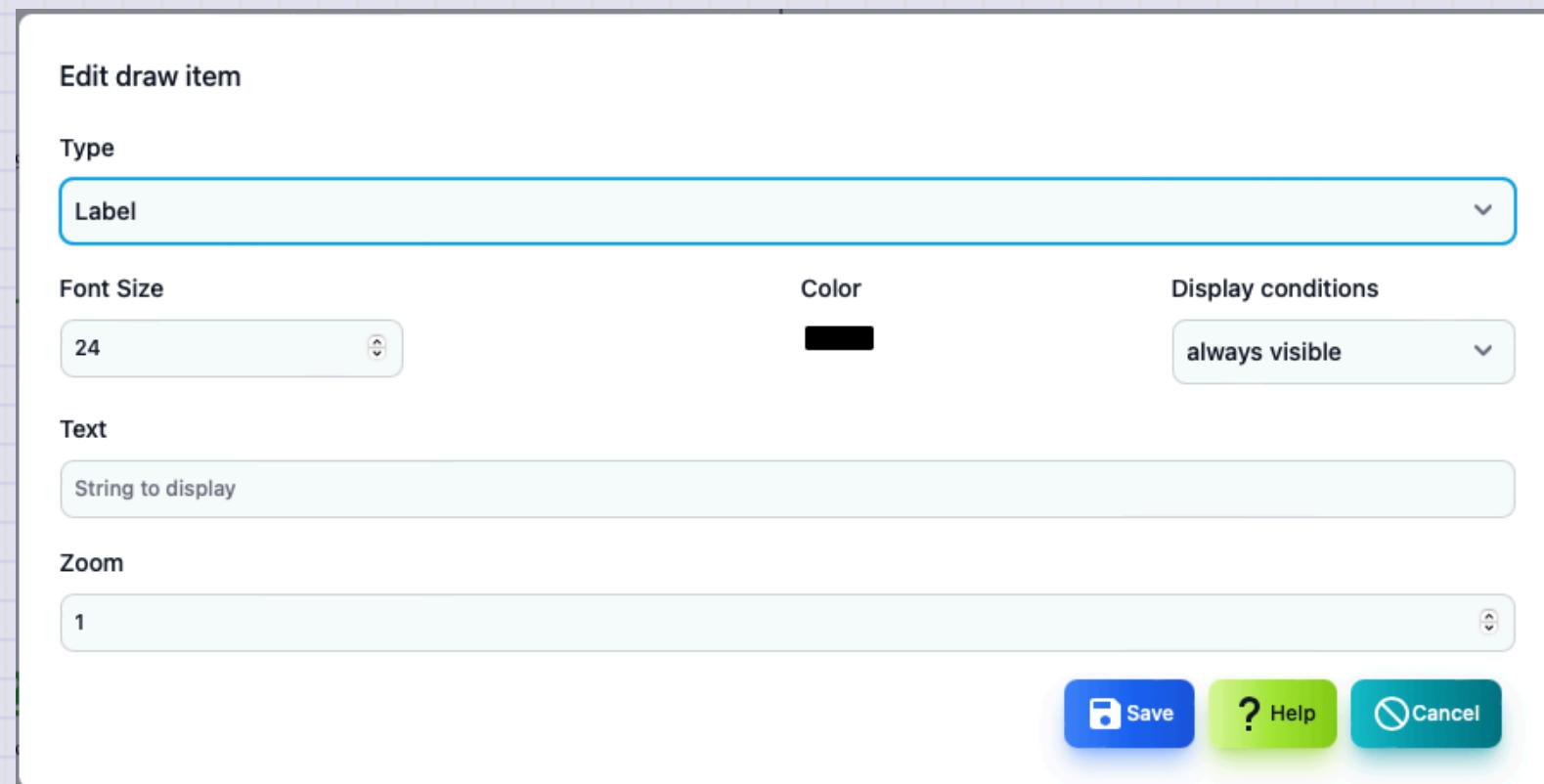
It is an edit screen of drawing item (rectangle, elliptical).



| Items             | Contents  |
|-------------------|---|
| Type              | It is a type of drawing item. You can only change it when you add it. |
| Width             | The width of the drawing item.  |
| Height            | It is the height of the drawing item.                                 |
| Color             | It is the color of the drawing item.                                  |
| Display condition | It is a state of the map that displays drawing items.                 |
| Magnification     | The display rate of drawing items.                                    |

## Drawing item (label)

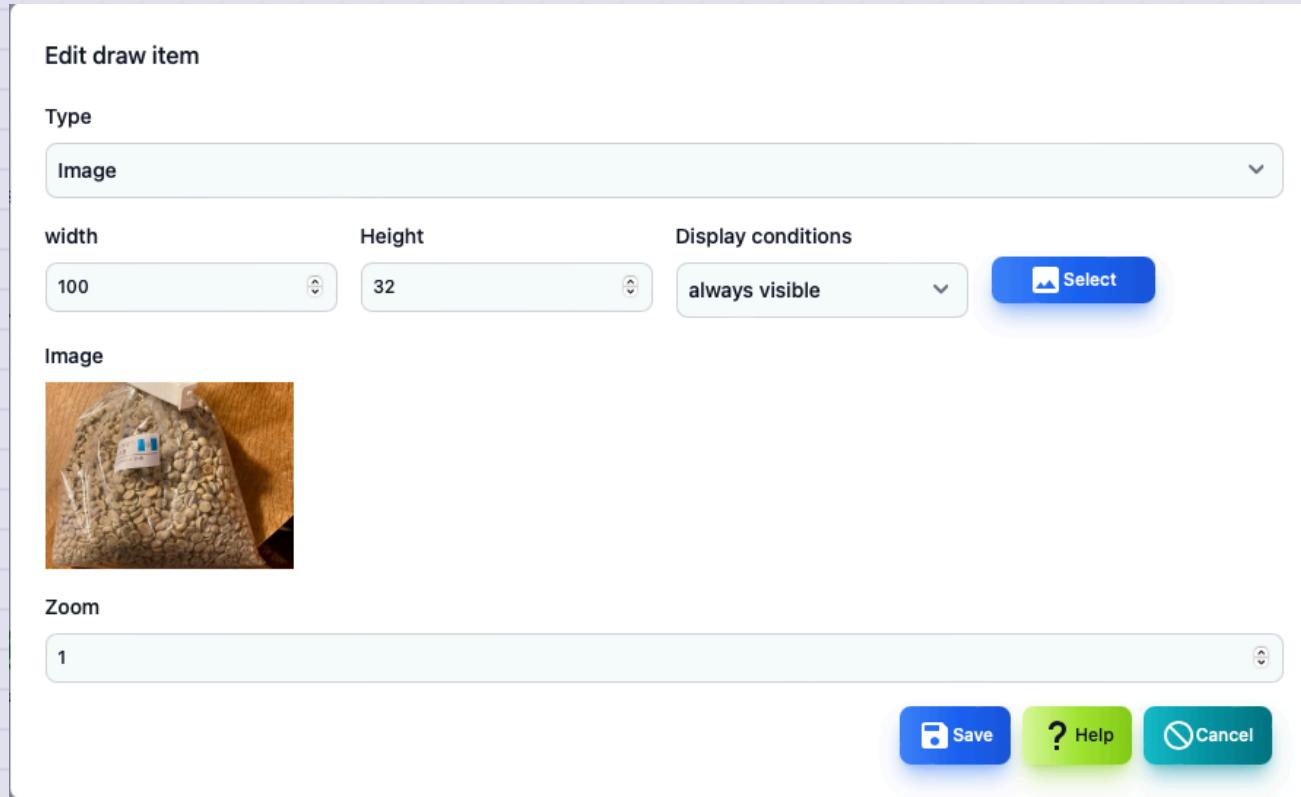
It is the editing screen of the drawing item (label).



| Items             | Contents  |
|-------------------|---|
| Type              | It is a type of drawing item. You can only change it when you add it. |
| Character size    | Label character size.   |
| Color             | It is the color of the drawing item.                                  |
| Display condition | It is a state of the map that displays drawing items.                 |
| Character string  | It is a string to be displayed.                                       |
| Magnification     | The display rate of drawing items.                                    |

## Drawing item (image)

It is the editing screen of drawing item (image).



| Items             | Contents   |
|-------------------|--|
| Type              | It is a type of drawing item. You can only change it when you add it.          |
| Width             | It is the width of the image.  |
| Height            | It is the height of the image.   |
| Display condition | It is a state of the map that displays drawing items.                          |
| Image             | It is an image to be displayed. Select an image file with the <Select> button. |
| Magnification     | The display rate of drawing items.   |

## Drawing item (polling result)

It is the editing screen of drawing item (polling result: text).

Edit draw item

Type

Polling result (text)

Size

24

Node

Select node

Polling

Select polling

Variable name

Variable name (blank fields are automatically set)

Format

Display format (blank fields are automatically set)

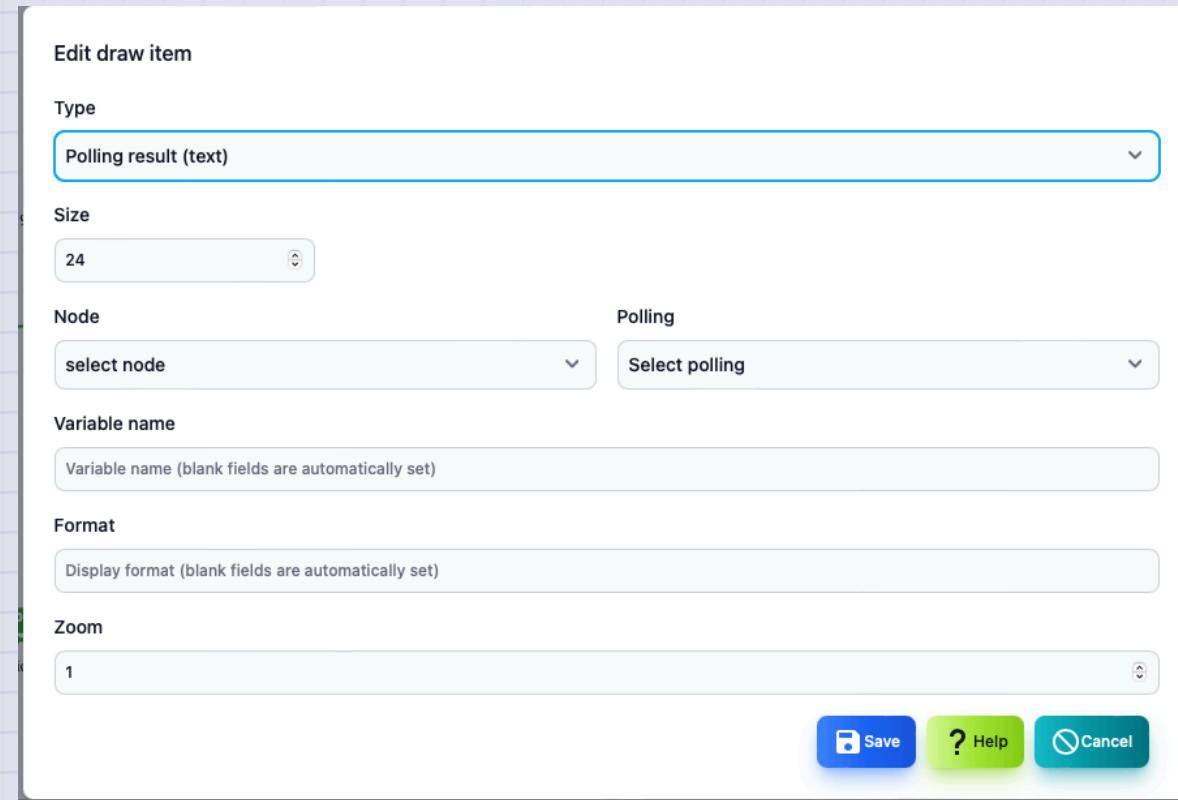
Zoom

1

Save

Help

Cancel



| Items          | Contents  |
|----------------|---|
| Type           | It is a type of drawing item. You can only change it when you add it. |
| Size           | Character size.   |
| Node           | This is a node list for selecting polling.                            |
| Polling        | Polling that displays results.  |
| Variable name  | The name of the variable displayed from the polling results.          |
| Display format | Format when displaying.   |
| Magnification  | The display rate of drawing items.                                    |

## Drawing item (polling result: gauge)

It is the editing screen of drawing item (polling result: gauge). It can be used to display % data.

Edit draw item

Type  
Polling result (gauge)

Size  
24

Node  
select node

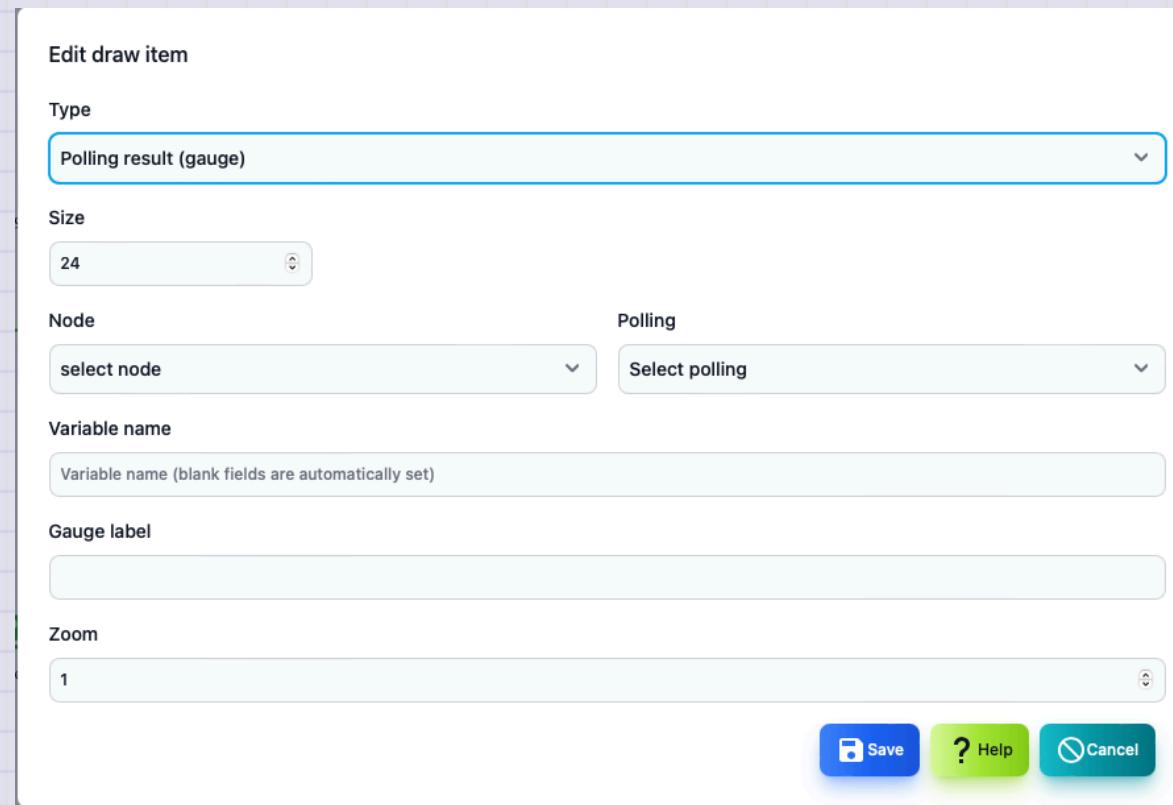
Polling  
Select polling

Variable name  
Variable name (blank fields are automatically set)

Gauge label

Zoom  
1

Save Help Cancel

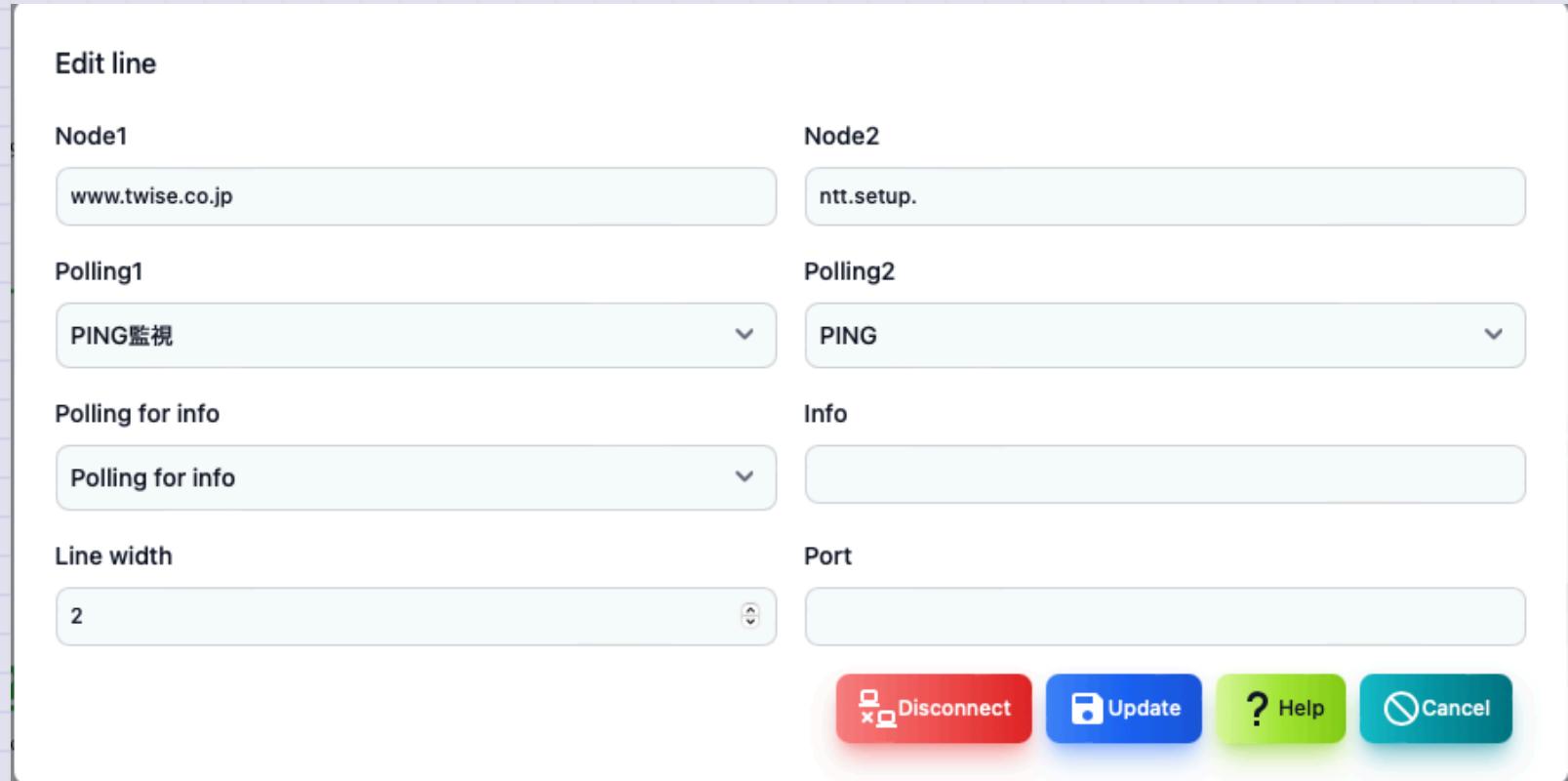


| Items         | Contents  |
|---------------|---|
| Type          | It is a type of drawing item. You can only change it when you add it. |
| Size          | Gauge size.   |
| Node          | This is a node list for selecting polling.                            |
| Polling       | Polling that displays results.  |
| Variable name | The name of the variable displayed from the polling results.          |
| Gauge label   | This is a character string displayed under the gauge.                 |
| Magnification | The display rate of drawing items.                                    |



## Line editing

To edit the line, press the two nodes while pressing the shift key on the map screen.



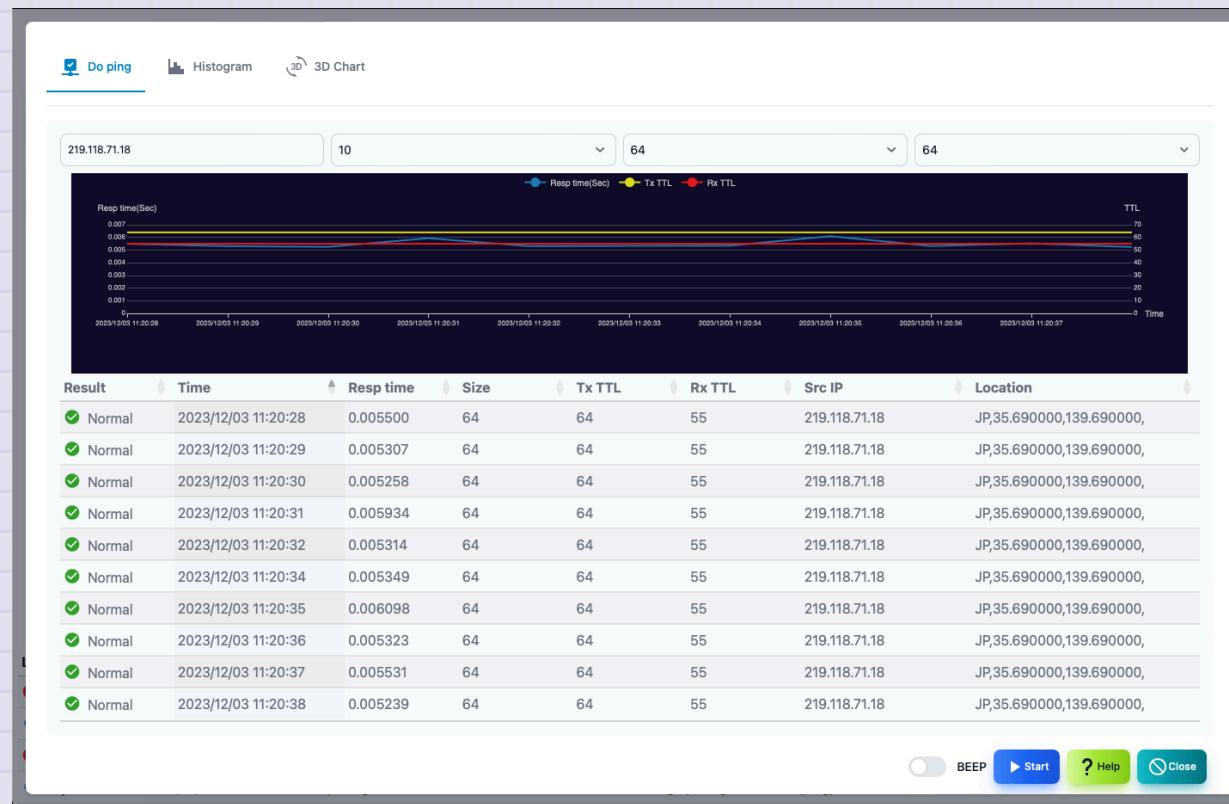
| Items    | Contents   |
|----------|--|
| Node1    | This is the first node to connect the line.  |
| Polling1 | This is the first node polling that determines the color on one side of the line.  |
| Node2    | This is the second node to connect the line.                                       |
| Polling2 | This is the second node polling that determines the color on one side of the line. |

| Items                   | Contents   |
|-------------------------|--|
| Polling for information | Polling for information displayed next to the line.<br>Specify the traffic monitor polling.                                |
| Information             | Set the character string to be displayed next to the line.<br>It will be overwritten by setting a polling for information. |
| Thickness of the line   | It is the thickness of the line.   |
| Port                    | Specify the port number used when displaying the panel.  |

# PING

This is the screen to execute ping.

To get a location information, you need a Geoip database file.

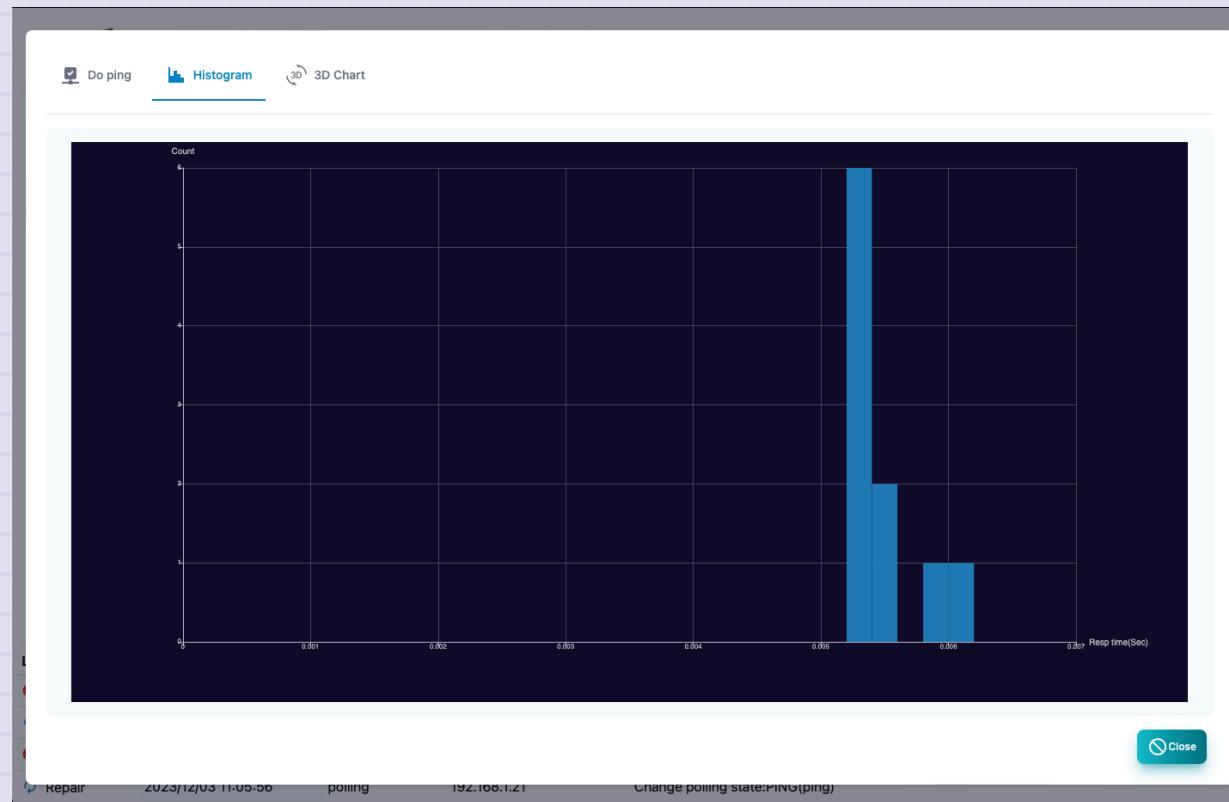


| Items           | Contents  |
|-----------------|---|
| IP address      | This is the IP address to run ping.   |
| Number of times | Ping is the number of execution times.  |
| Size            | <p>Ping packet size.<br/>The change mode is executed while increasing the size.</p>       |
| TTL             | <p>TTL value of ping packet.<br/>The trace route runs while increasing the TTL value.</p> |
| Result Graph    | Ping's execution result is a graph of the response time, TTL value.                       |

| Items   | Contents   |
|---------|--|
|         | Ping execution results.  |
| Results | As a result, the date and time of implementation, the response time, the size, the transmission reception TTL, the source IP, the location |
| Beep    | Ping will be informed by sound.  |
| Start   | Start ping.  |
| Stop    | Ping stops.  |
| Close   | Ends ping.   |

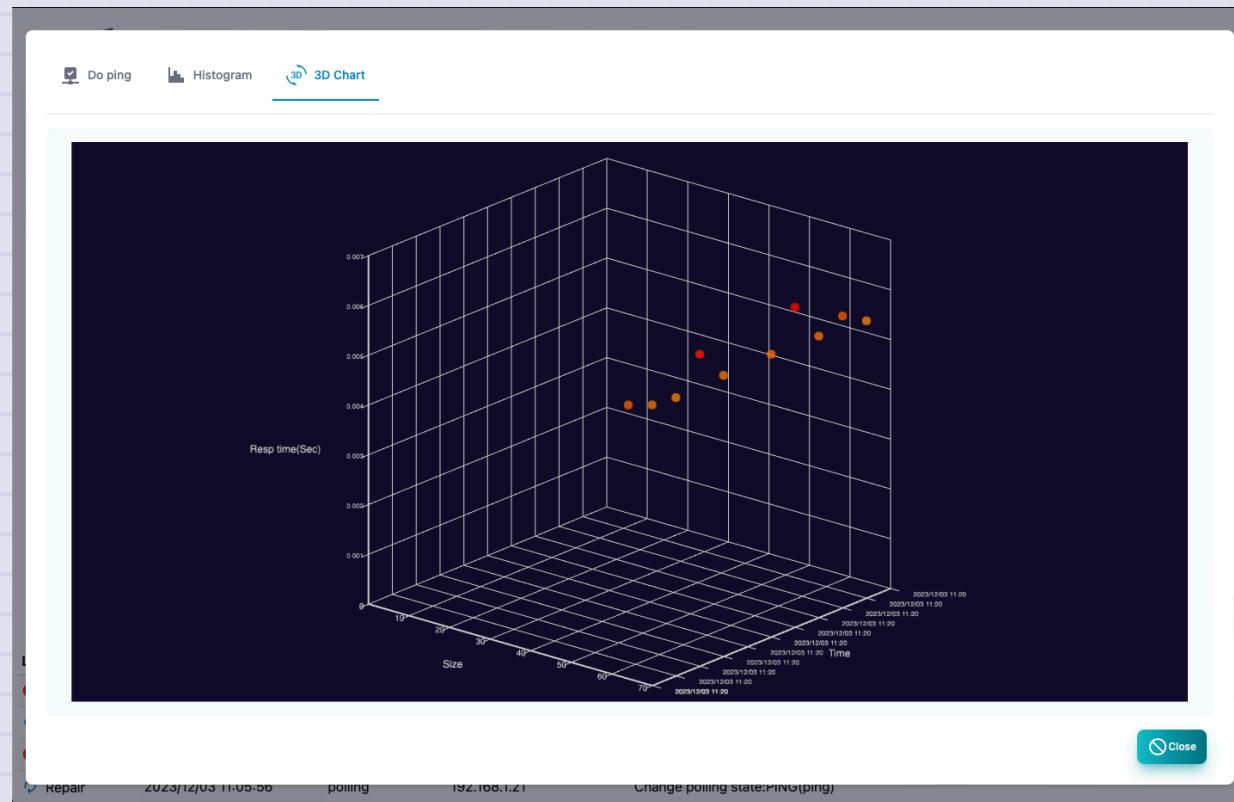
## PING Histogram

It is a histogram of response time.



# PING 3D analysis

The response time, size, and implementation date and time are displayed in 3D graphs.



## PING Line speed prediction

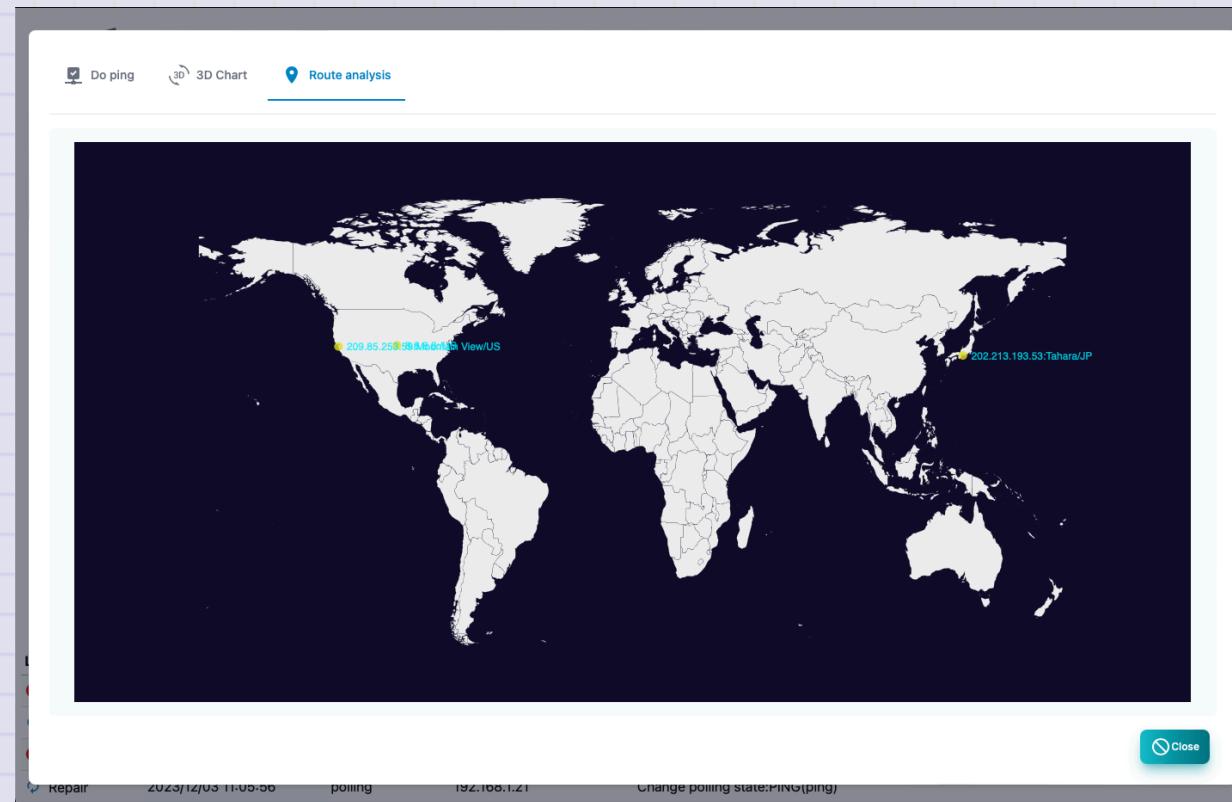
From the change in response time if the size is changed

This is a report that predicts the line speed.



## PING Route analysis

Display location information. It cannot be displayed without a GEOIP database.



## MIB browser

This is a screen to get MIB information of SNMP from the node.

It is necessary to set SNMP access information in the node setting.

If you want to use MIB other than built -in, save the MIB file to the extmibs of the data folder.

The screenshot shows a MIB browser interface with the search term "system" entered. The table displays 10 entries out of 35, showing system configuration details:

| Index | Object name       | Value  |
|-------|-------------------|--|
| 1     | sysDescr.0        | S350 Series 8-Port Gigabit Ethernet Smart Managed Pro Switch, Software Version 1.0.2.2, Boot Version 1.0.0.1 |
| 2     | sysObjectID.0     | enterprises.4526.100.4.52  |
| 3     | sysUpTimeInstance | 1323804(247 days, 3h40m38.04s)   |
| 4     | sysContact.0      | twsnmp@gamil.com   |
| 5     | sysName.0         | SNMPSW   |
| 6     | sysLocation.0     | 2F   |
| 7     | sysServices.0     | 79   |
| 8     | sysORLastChange.0 | 173900(28m59s)   |
| 9     | sysORID.1         | snmpFrameworkMIBCompliance   |
| 10    | sysORID.2         | snmpMPDCCompliance   |

Buttons at the bottom include Raw data, Get, CSV, Excel, Help, and Close.

| Items                | Contents  |
|----------------------|---|
| Object name          | Specify the object name of the MIB you want to get.<br>You can choose from the MIB tree.Example: System         |
| <MIB Tree><br>Button | Display MIB tree.   |
| History              | It is the history of the object name obtained so far.You can select and get it again.                           |
| Results              | Acquired MIB information.In the case of MIB in a table format, it is automatically displayed in a table format. |

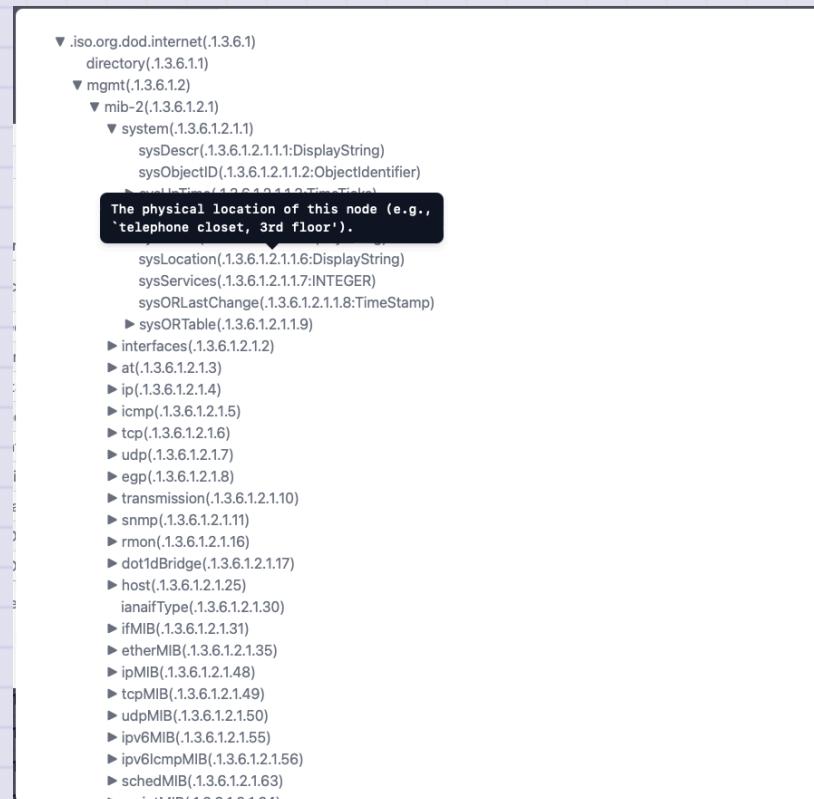
| Items       | Contents   |
|-------------|--|
| Raw data    | <p>Displays the acquired MIB information without converting it.</p> <p>In the case of off, convert the time data to an easy -to -understand display.</p> |
| Acquisition | Get MIB information.   |
| CSV         | Export the obtained MIB information of the CSV file.   |
| Excel       | Export the acquired MIB information of the Excel file.   |

## MIB tree

This is a screen for selecting the obtained MIB object name.

Open the tree and click the object name to see the explanation.

Double click to select.

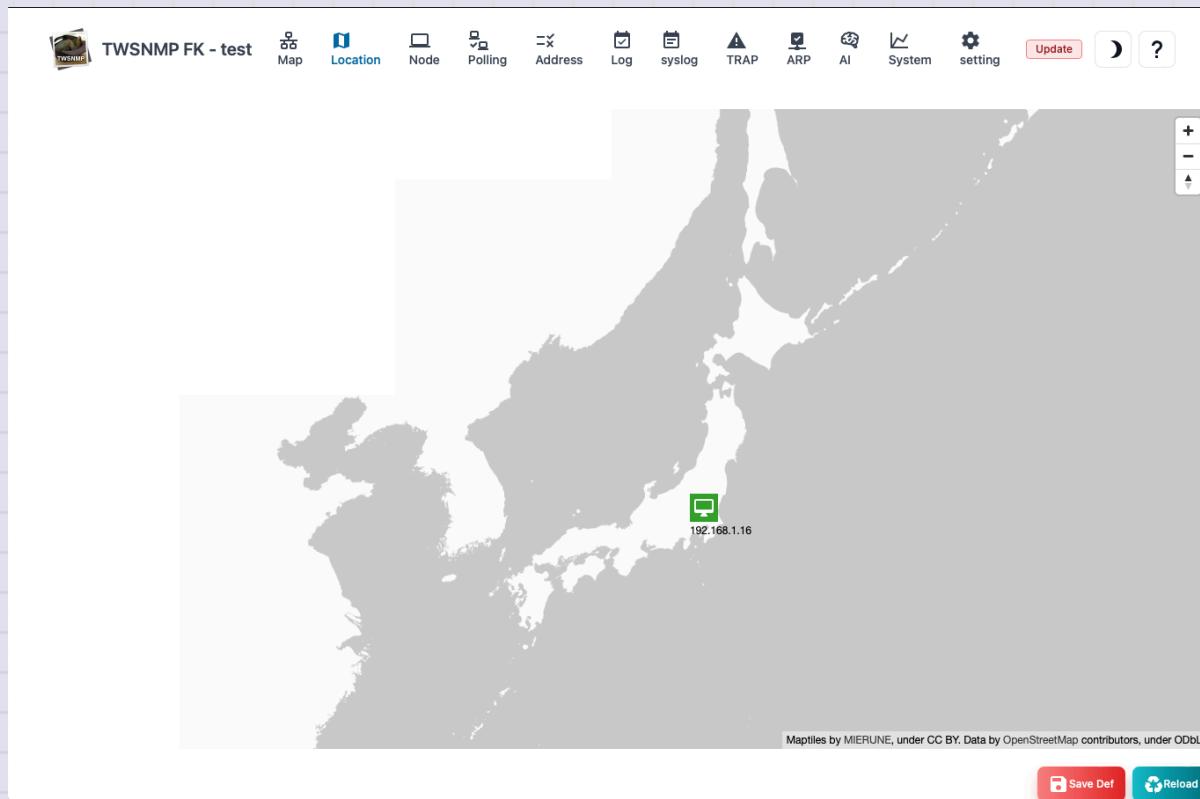


# Location Map screen

This is a screen that displays the node on the map.

Map data can be used in OpenStreetMap, which is used in location information services.

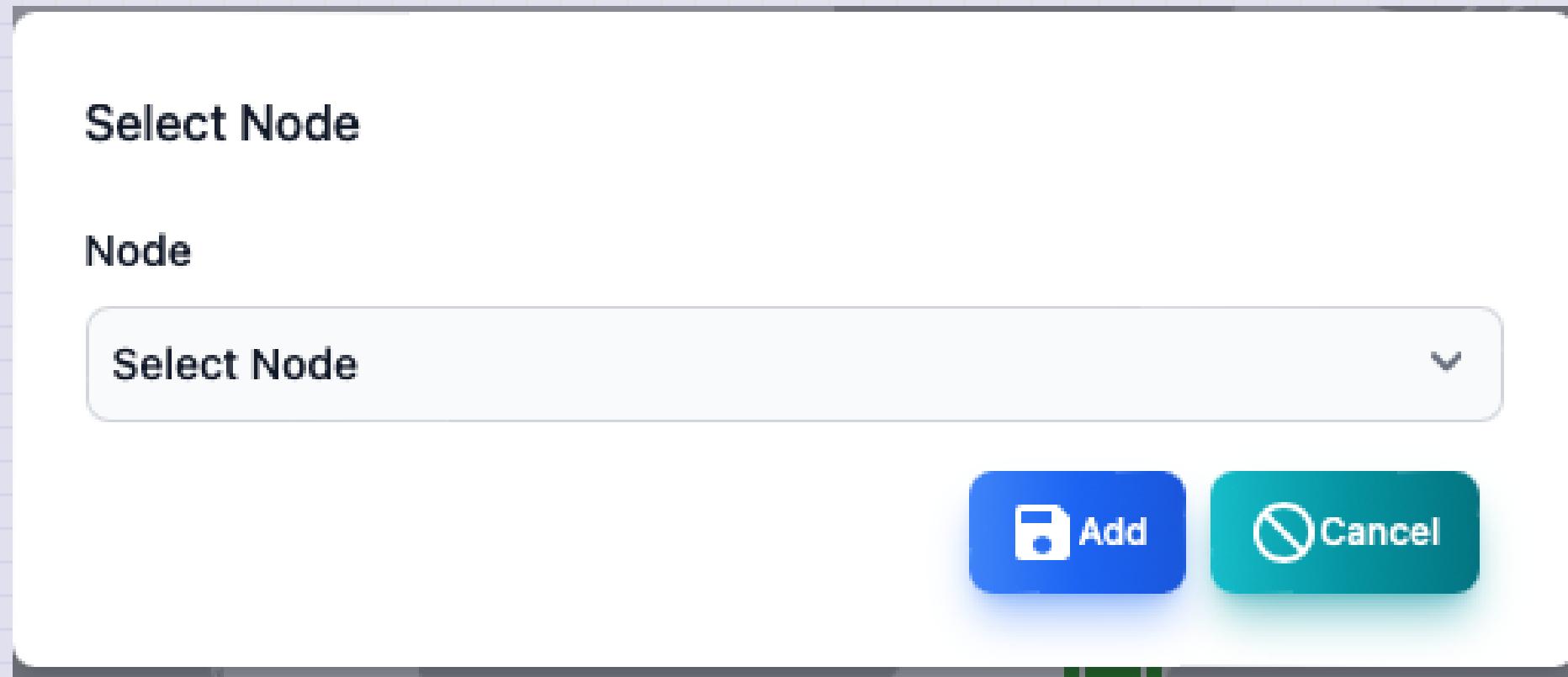
You can select by clicking the node. You can move by dragging. Multiple choices cannot be selected.



| Items              | Contents  |
|--------------------|---|
| Edit               | Displays the screen of the selected node.   |
| Polling            | Displays the selected node polling.   |
| Delete             | Delete the selected node from the map screen.   |
| Report             | Displays the selected node report screen.   |
| Initial<br>display | Save the center and zoom level of the map. The next time you open the map screen, it will be in the same state. |
| Reload             | Update the list of event logs to the latest state.  |

## Add node to location map

Right -click where you want to place the node on the map and the dialog to add is displayed. You can add it by selecting a node.



# Node list

A list of nodes to be managed.

The screenshot shows a web-based management interface for network nodes. At the top, there's a navigation bar with icons for Map, Location, Node (which is selected), Polling, Address, Log, syslog, TRAP, ARP, AI, System, and setting. There are also buttons for Update, Moon (dark mode), and a question mark icon. Below the navigation is a search bar labeled "Search:" and a dropdown menu showing "Show 10 entries". The main area is a table with the following columns: Satte, Name, IP address, MAC address, Vendor, and Description. The table lists 10 nodes from a total of 30 entries. The nodes are categorized by status: High (red), Low (orange), Warn (yellow), Repair (blue), and Normal (green). The table includes details like IP addresses (e.g., 192.168.1.21 to 1.6), MAC addresses (e.g., 4E:EB:F7:4B:79:5E to A0:B7:65:FE:93:40), vendors (e.g., Local, Apple, Inc., Amazon Technologies Inc., Oki Electric Industry Co., Ltd., CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD., TP-LINK TECHNOLOGIES CO.,LTD., REALTEK SEMICONDUCTOR CORP., Hefei Bitland Information Technology Co.Ltd, Espressif Inc.), and descriptions (e.g., 2023/10/18に発見, Found at 2023/09/29/Protocol:http). At the bottom of the table, it says "Showing 1 to 10 of 30 entries" and has navigation buttons for Previous (1, 2, 3, Next). Below the table are buttons for "Check all" (with a checkmark icon), CSV, Excel, and Reload.

| Satte  | Name         | IP address   | MAC address       | Vendor                                       | Description                                    |
|--------|--------------|--------------|-------------------|--|--|
| High   | 192.168.1.21 | 192.168.1.21 | 4E:EB:F7:4B:79:5E | Local  | 2023/10/18に発見                                  |
| Low    | 192.168.1.10 | 192.168.1.10 | A8:66:7F:33:C9:C8 | Apple, Inc.                                  | 2023/10/18に発見                                  |
| Warn   | 192.168.1.23 | 192.168.1.23 | 78:A0:3F:C6:A0:42 | Amazon Technologies Inc.                     | 2023/10/18に発見                                  |
| Repair | 192.168.1.12 | 192.168.1.12 | 82:5C:E3:E7:D0:C9 | Local  | 2023/10/18に発見                                  |
| Normal | ntt.setup.   | 192.168.1.1  | 00:25:36:AB:77:53 | Oki Electric Industry Co., Ltd.              | Found at 2023/09/29/Protocol:http              |
| Normal | 192.168.1.2  | 192.168.1.2  | 5C:61:99:7E:29:9B | CLOUD NETWORK TECHNOLOGY SINGAPORE PTE. LTD. | Found at 2023/09/29/Protocol:http              |
| Normal | 192.168.1.3  | 192.168.1.3  | 28:EE:52:56:59:65 | TP-LINK TECHNOLOGIES CO.,LTD.                | Found at 2023/09/29/Protocol:http              |
| Normal | miniPC2      | 192.168.1.4  | 00:E0:4C:EC:3B:94 | REALTEK SEMICONDUCTOR CORP.                  | Found at 2023/09/29/Protocol:snmp,http,ssh     |
| Normal | YMIRYZ       | 192.168.1.5  | 1C:83:41:29:B3:01 | Hefei Bitland Information Technology Co.Ltd  | Found at 2023/09/29/Protocol:snmp,ssh,cifs,rdp |
| Normal | 192.168.1.6  | 192.168.1.6  | A0:B7:65:FE:93:40 | Espressif Inc.                               | Found at 2023/09/29                            |

| Items       | Contents  |
|-------------|---|
| State       | <p>Node condition.</p> <p>Severe, mild, precautions, return, normal, unknown.</p> |
| Name        | Node name.  |
| IP address  | Node IP address.  |
| MAC address | Node MAC address.   |
| Vendor      | The name of the vendor corresponding to the MAC address.                          |
| Description | Supplementary information about nodes.  |

| Items               | Contents   |
|---------------------|--|
| Edit                | Edit node settings.                                      |
| Polling             | Displays a list of polling related to the selected node. |
| Report              | Displays the selected node analysis report.              |
| Delete              | Delete the selected node.                                |
| Reconfirm           | Reconfirm the polling of the selected node.              |
| Remost confirmation | Reconfirm all nodes polling.                             |
| CSV                 | Export the node list to the CSV file.                    |
| Excel               | Export the node list to the Excel file.                  |
| Reload              | Update the node list to the latest state.                |

## Node polling list

A list of polling related to nodes.

| Node polling list           |        |      |                    |                       |                      |
|-----------------------------|--------|------|--------------------|-----------------------|----------------------|
| State                       |        | Name | Level              | Type                  | Last time            |
| <span>✓</span>              | Normal | PING | <span>!</span> Low | ping                  | off                  |
| Showing 1 to 1 of 1 entries |        |      |                    |                       |                      |
| Previous                    |        | 1    | Next               |                       |                      |
|                             |        |      | <span>+</span> Add | <span>↻</span> Reload | <span>ⓧ</span> Close |

| Items     | Contents  |
|-----------|---|
| State     | Polling state.<br>Severe, mild, precautions, return, normal, unknown. |
| Name      | Polling name.   |
| Level     | Pauling level.  |
| Type      | Polling type.<br>Ping, SNMP, TCP, etc.                                |
| Log       | Log mode.   |
| Last time | This is the last date and time when polling was implemented.          |

| Items  | Contents                                       |
|--------|--|
| Add    | Add polling to nodes.                          |
| Edit   | Edit the selected polling.                     |
| Copy   | Create a selected polling copy.                |
| Report | Displays the selected polling analysis report. |
| Delete | Delete the selected polling.                   |
| Reload | Update the polling list to the latest state.   |
| Close  | Close the list of polling.                     |

## Basic information report

Basic information about nodes.

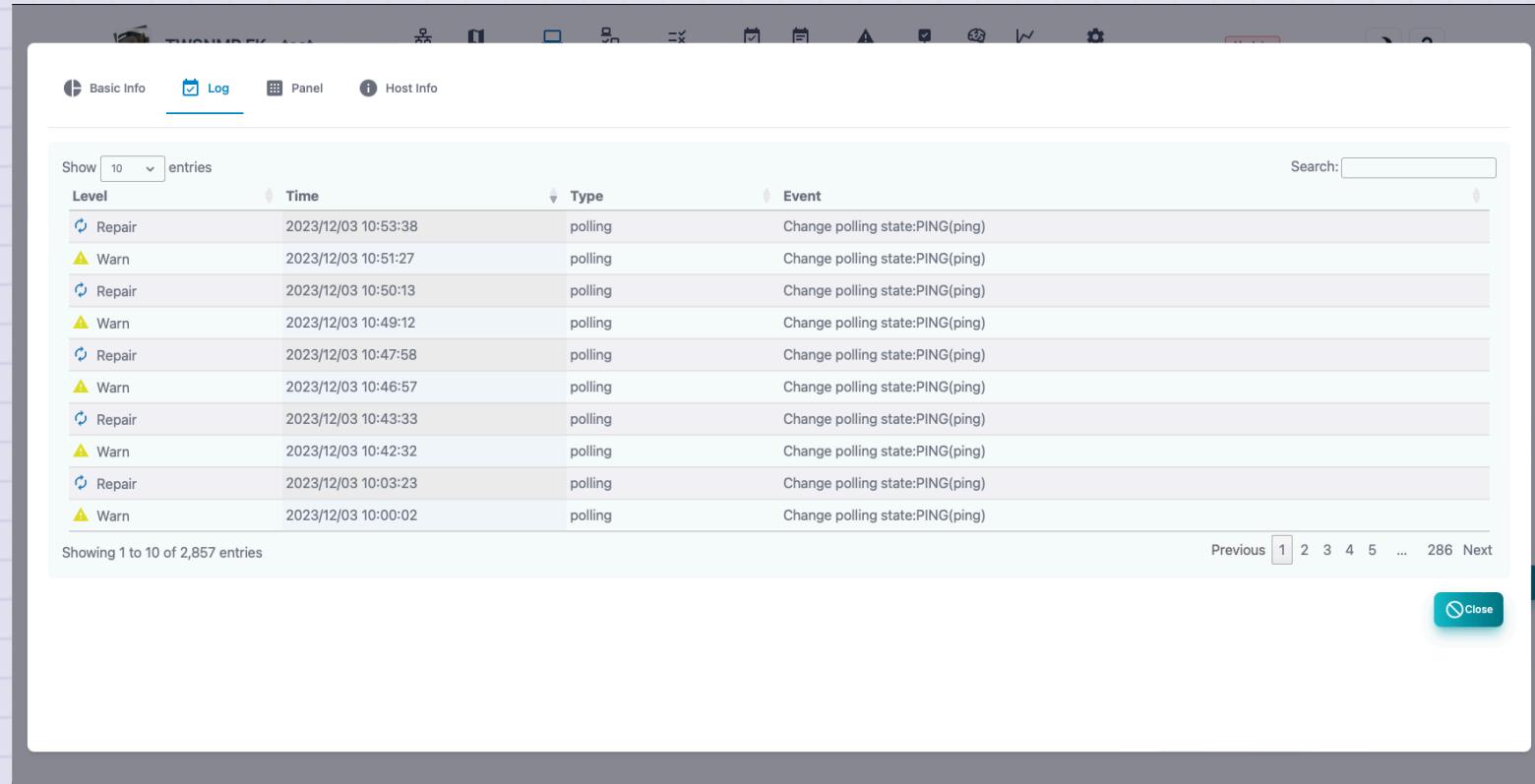
The screenshot shows a modal dialog box titled "Basic Info". The dialog contains a table with the following data:

| ITEM        | CONTENT                                    |
|-------------|--|
| Name        | miniPC2                                    |
| Status      | Normal                                     |
| IP Address  | 192.168.1.4                                |
| MAC Address | 00:E0:4C:EC:3B:94                          |
| Description | Found at 2023/09/29/Protocol:snmp,http,ssh |

At the bottom right of the dialog is a "Close" button.

## node event log

This is an event log related to the node.



| Level  | Time                | Type    | Event                           |
|--------|---------------------|---------|---------------------------------|
| Repair | 2023/12/03 10:53:38 | polling | Change polling state:PING(ping) |
| Warn   | 2023/12/03 10:51:27 | polling | Change polling state:PING(ping) |
| Repair | 2023/12/03 10:50:13 | polling | Change polling state:PING(ping) |
| Warn   | 2023/12/03 10:49:12 | polling | Change polling state:PING(ping) |
| Repair | 2023/12/03 10:47:58 | polling | Change polling state:PING(ping) |
| Warn   | 2023/12/03 10:46:57 | polling | Change polling state:PING(ping) |
| Repair | 2023/12/03 10:43:33 | polling | Change polling state:PING(ping) |
| Warn   | 2023/12/03 10:42:32 | polling | Change polling state:PING(ping) |
| Repair | 2023/12/03 10:03:23 | polling | Change polling state:PING(ping) |
| Warn   | 2023/12/03 10:00:02 | polling | Change polling state:PING(ping) |

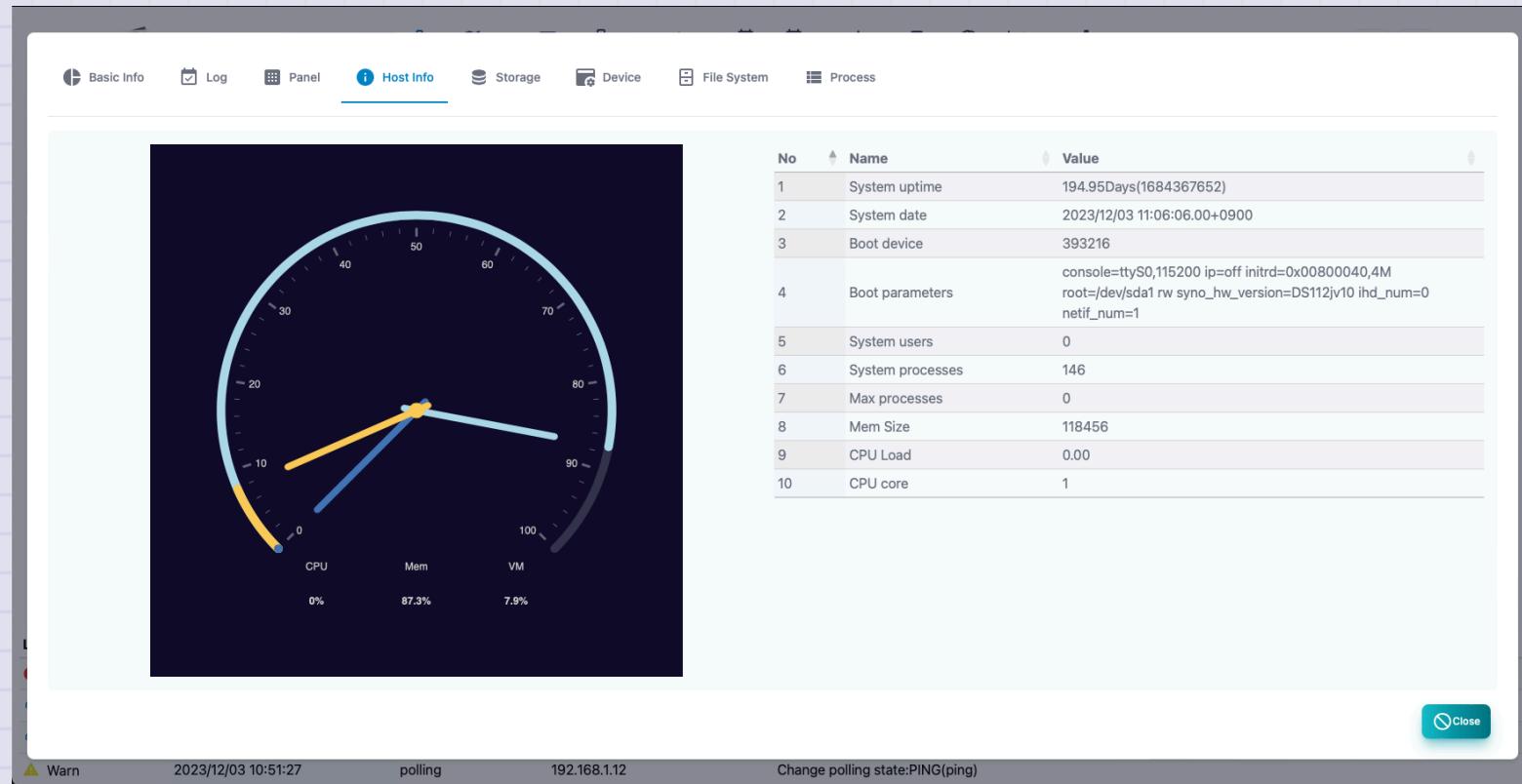
# Panel

Displays the appearance of the node. Displays the port from the acquisition of the interface mib by SNMP or the line connection information. The <physical port> switch can only be displayed on the physical port. Rotate the panel display with the <rotation> switch.

| No. | State | Name             | Type | MAC Address       | Speed | Out packets | Out bytes | In packets  | In bytes  |
|-----|-------|------------------|------|-------------------|-------|-------------|-----------|-------------|-----------|
| 1   | up    | GigabitEthernet1 | 6    | 6C:CD:D6:C3:24:61 | 1GBPS | 417,218,218 | 184.254GB | 498,759,908 | 140.815GB |
| 6   | up    | GigabitEthernet6 | 6    | 6C:CD:D6:C3:24:61 | 1GBPS | 287,979,354 | 33.434GB  | 79,890,831  | 17.055GB  |
| 7   | up    | GigabitEthernet7 | 6    | 6C:CD:D6:C3:24:61 | 1GBPS | 178,598,052 | 28.898GB  | 52,283,337  | 7.649GB   |
| 8   | off   | GigabitEthernet8 | 6    | 6C:CD:D6:C3:24:61 | 1GBPS | 24,219,540  | 10.531GB  | 7,598,075   | 1.473GB   |
| 2   | down  | GigabitEthernet2 | 6    | 6C:CD:D6:C3:24:61 | 1GBPS | 0           | 0.000B    | 0           | 0.000B    |
| 7   | down  | GigabitEthernet7 | 6    | 6C:CD:D6:C3:24:61 | 1GBPS | 0           | 0.000B    | 0           | 0.000B    |
| 7   | down  | GigabitEthernet7 | 6    | 6C:CD:D6:C3:24:61 | 1GBPS | 0           | 0.000B    | 0           | 0.000B    |

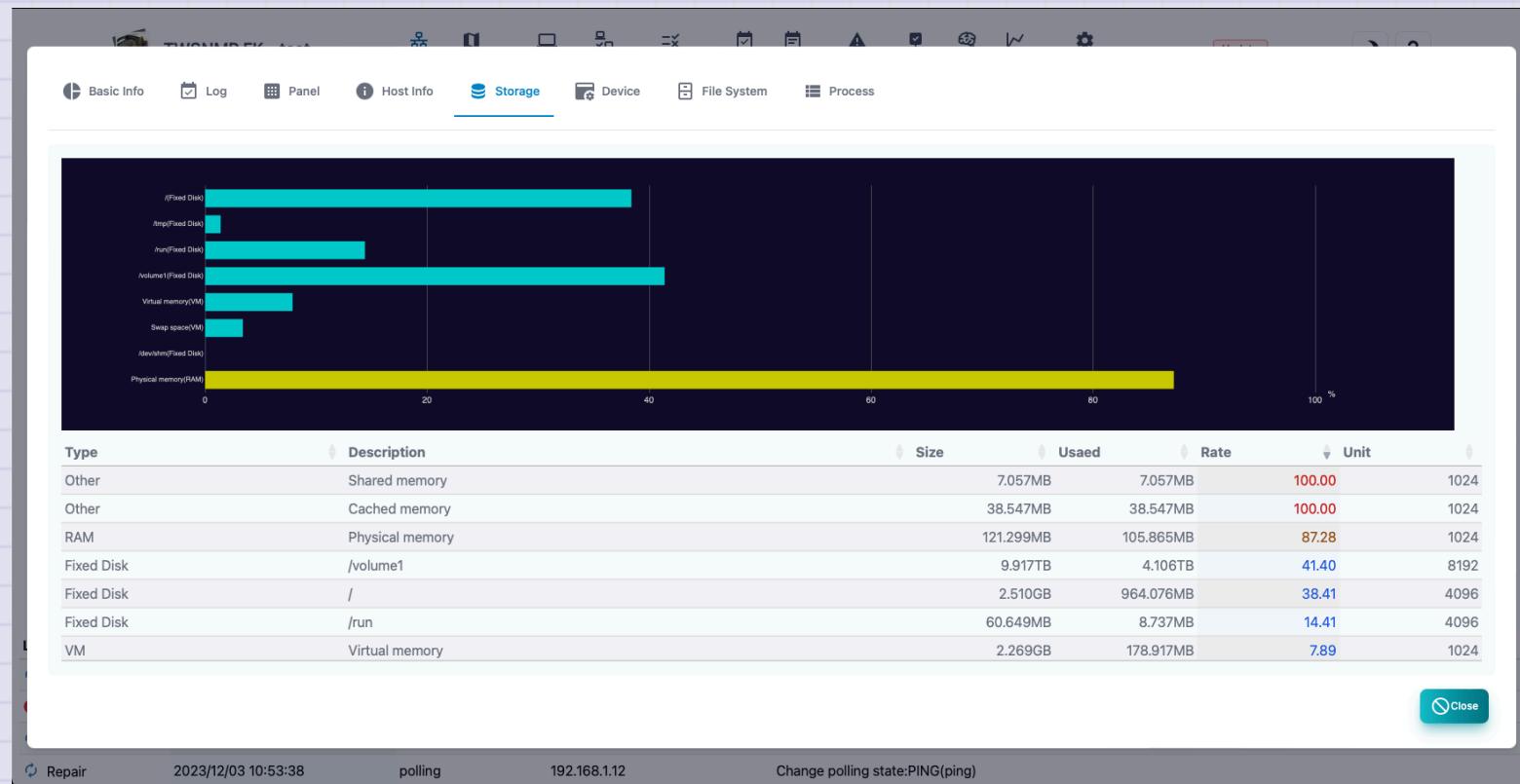
## Host information

Displays the information of the host resource mib of SNMP. If it is not compatible with the host resource MIB, it cannot be displayed.



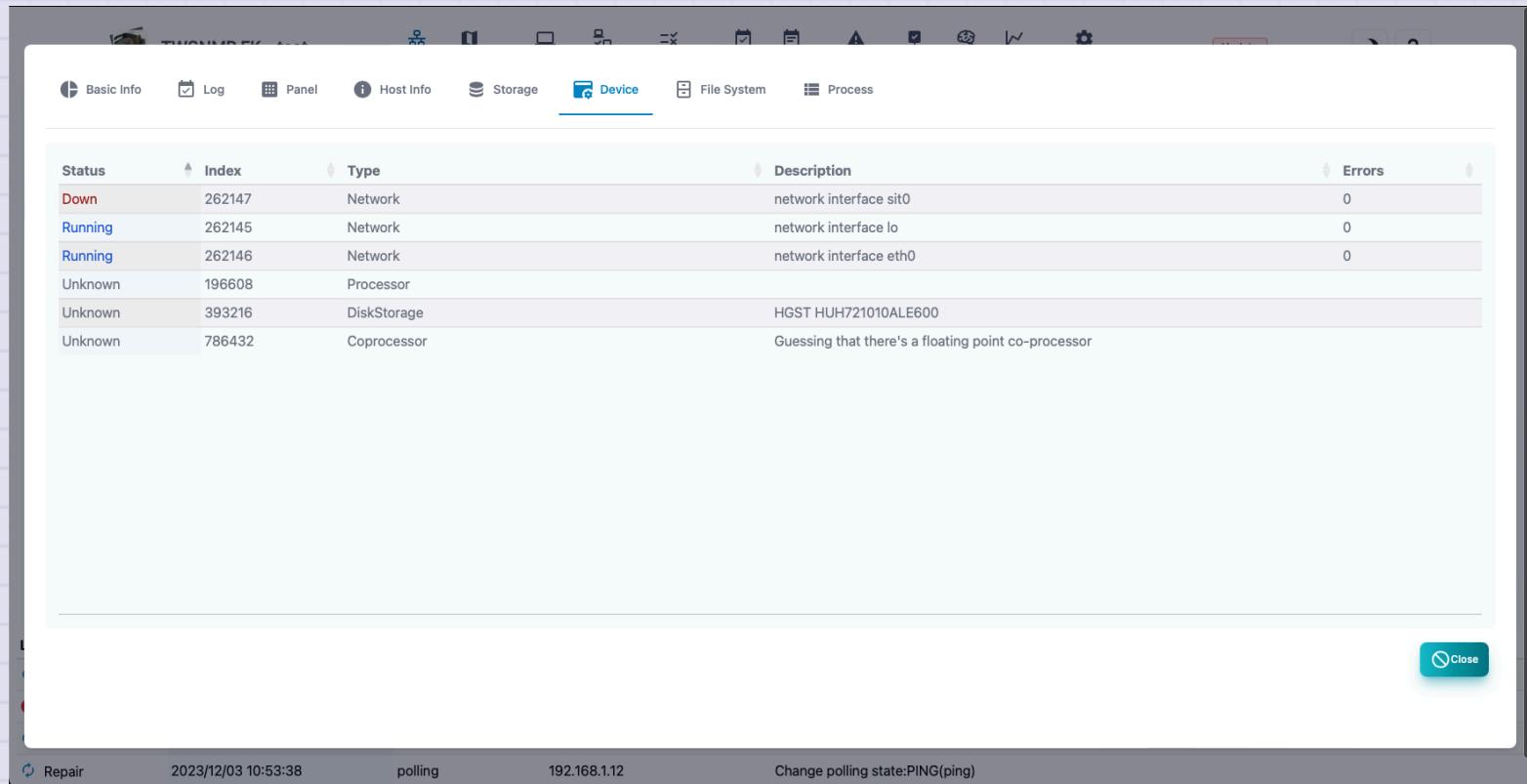
## Storage

Displays the storage information of SNMP host resource mib. When you select, the addition button of the polling will be displayed. If it is not compatible with the host resource MIB, it cannot be displayed.



## Device

Displays the device information of the SNMP host resource MIB. If it is not compatible with the host resource MIB, it cannot be displayed.



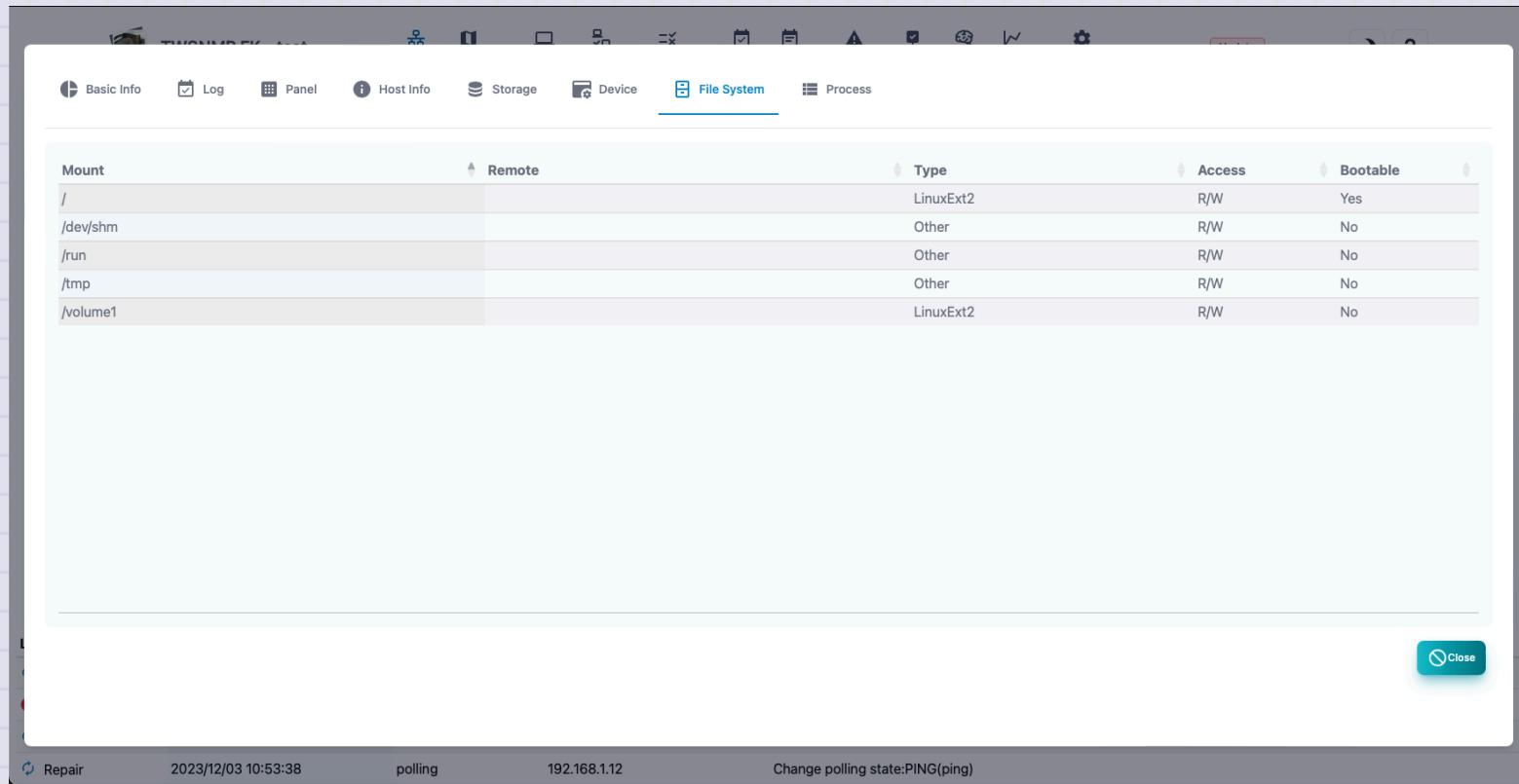
The screenshot shows a software interface titled "TWSNMP FK". The top navigation bar includes tabs for Basic Info, Log, Panel, Host Info, Storage, Device (which is underlined, indicating it is the active tab), File System, and Process. Below the tabs is a table displaying device information. The columns are labeled Status, Index, Type, Description, and Errors. The data rows are as follows:

| Status  | Index  | Type        | Description   | Errors |
|---------|--------|-------------|---|--------|
| Down    | 262147 | Network     | network interface sit0                              | 0      |
| Running | 262145 | Network     | network interface lo                                | 0      |
| Running | 262146 | Network     | network interface eth0                              | 0      |
| Unknown | 196608 | Processor   |   |        |
| Unknown | 393216 | DiskStorage | HGST HUH721010ALE600                                |        |
| Unknown | 786432 | Coprocessor | Guessing that there's a floating point co-processor |        |

At the bottom of the window, there are buttons for Repair, a timestamp (2023/12/03 10:53:38), a status indicator (polling), an IP address (192.168.1.12), and a link to change the polling state (Change polling state:PING(ping)). A "Close" button is located in the bottom right corner.

## File System

Displays File System, information on SNMP host sources MIB.If it is not compatible with the host resource MIB, it cannot be displayed.



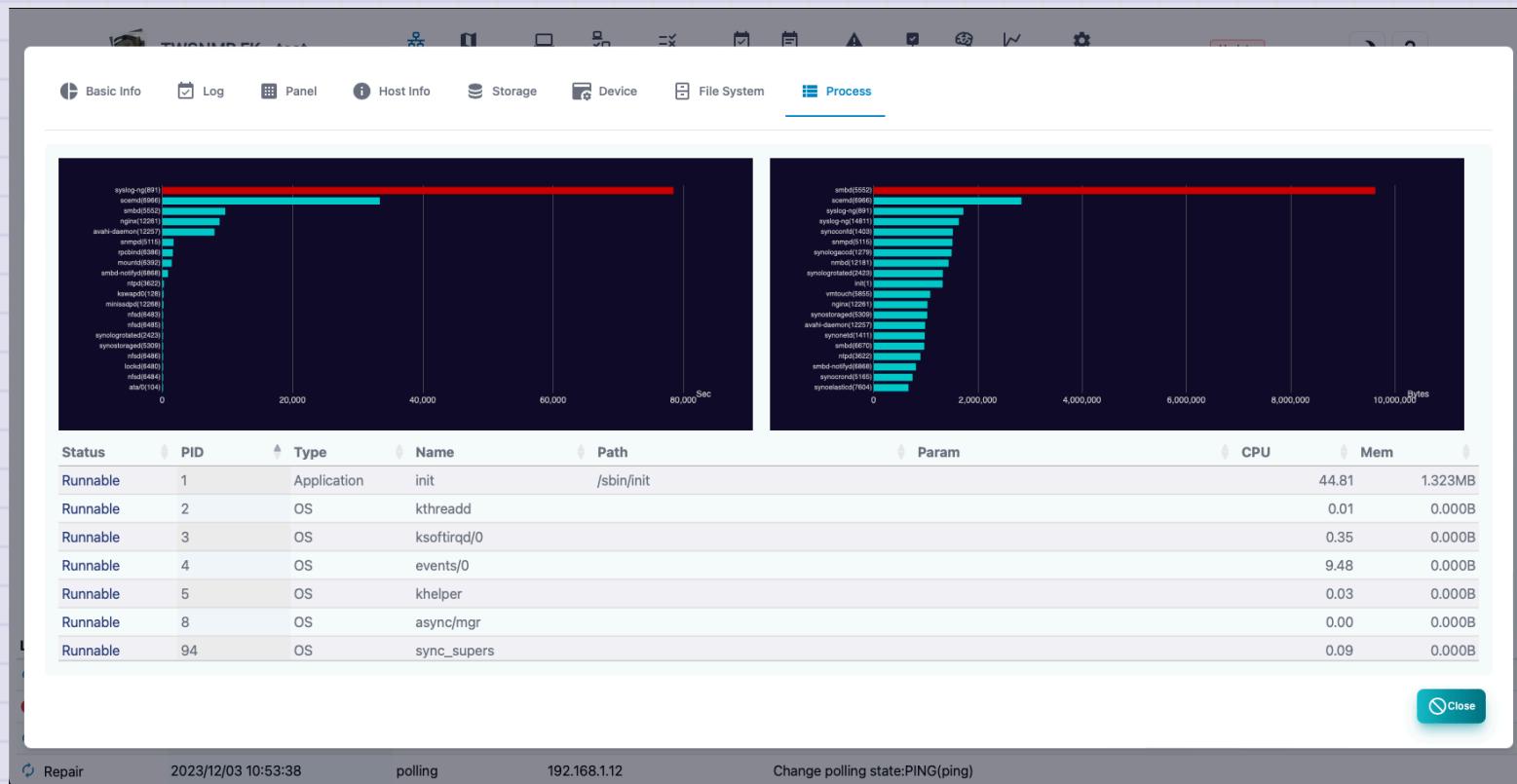
The screenshot shows a software interface titled "TWSNMP FK". The main menu bar includes "File", "Edit", "View", "Insert", "Delete", "Search", "Help", and "About". Below the menu is a toolbar with icons for Basic Info, Log, Panel, Host Info, Storage, Device, File System (which is selected and highlighted in blue), and Process. The central area is a table titled "File System" with the following data:

| Mount    | Remote | Type      | Access | Bootable |
|----------|--------|-----------|--------|----------|
| /        |        | LinuxExt2 | R/W    | Yes      |
| /dev/shm |        | Other     | R/W    | No       |
| /run     |        | Other     | R/W    | No       |
| /tmp     |        | Other     | R/W    | No       |
| /volume1 |        | LinuxExt2 | R/W    | No       |

At the bottom of the window, there are buttons for "Repair", "Close", and "Change polling state:PING(ping)". The status bar at the bottom shows the date and time as "2023/12/03 10:53:38", the IP address as "192.168.1.12", and the polling status as "polling".

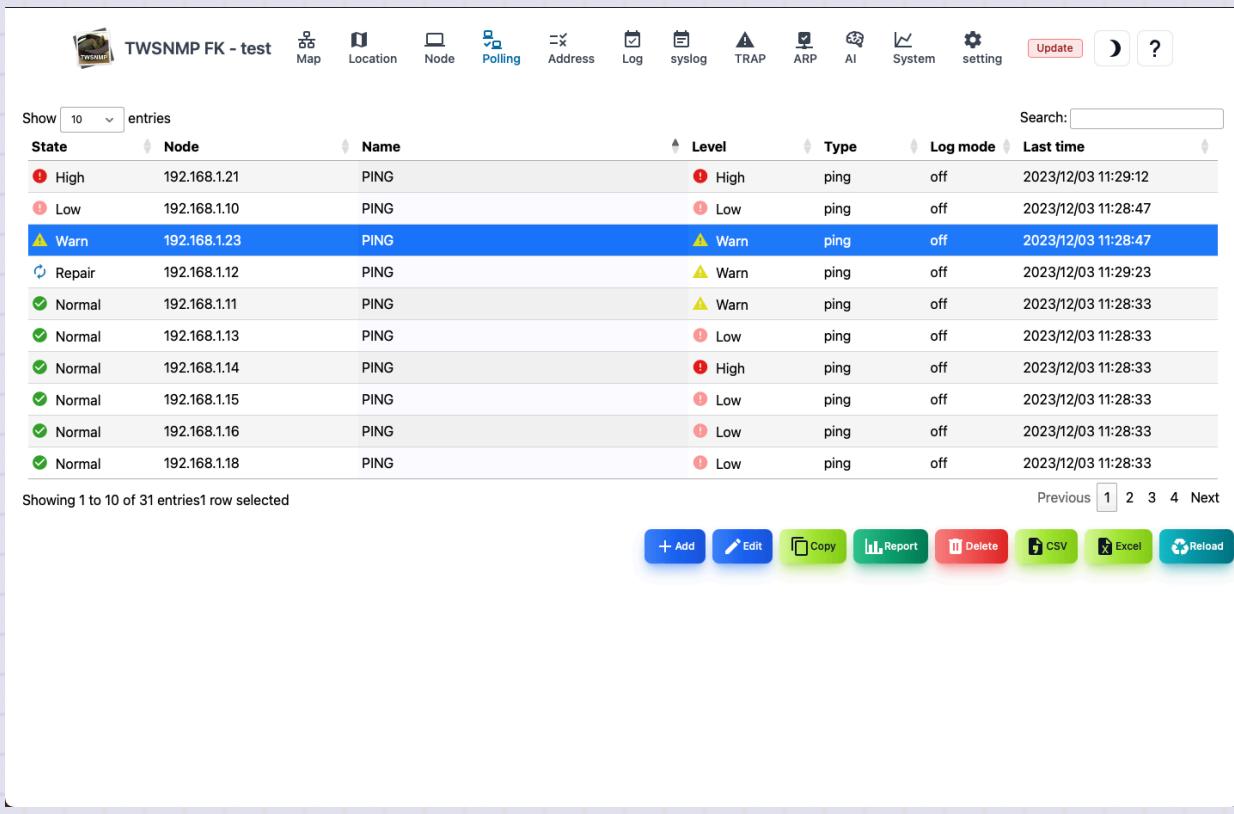
# Process

Displays the process information of SNMP host resource mib. When you select, the addition button of the polling will be displayed. If it is not compatible with the host resource MIB, it cannot be displayed.



# Polling list

A list of polling to be managed.



The screenshot shows a web-based management interface for network monitoring. The title bar reads "TWSNMP FK - test". The top navigation bar includes links for Map, Location, Node, Polling (which is currently selected), Address, Log, syslog, TRAP, ARP, AI, System, setting, Update, and Help. A search bar is also present. The main content area displays a table of 31 polling entries. The columns are: State, Node, Name, Level, Type, Log mode, and Last time. The table includes icons for status (e.g., red exclamation for High, yellow triangle for Warn, green checkmark for Normal), node IP address, poll type (PING), severity level (High, Low, Warn), log mode (off), and timestamp. The entry for node 192.168.1.23 is highlighted with a blue background, indicating it is selected. At the bottom of the table, there are navigation links for "Showing 1 to 10 of 31 entries" and "1 row selected", along with page numbers 1 through 4. Below the table is a row of action buttons: + Add, Edit, Copy, Report, Delete, CSV, Excel, and Reload.

| State    | Node         | Name | Level  | Type | Log mode | Last time           |
|----------|--------------|------|--------|------|----------|---------------------|
| ● High   | 192.168.1.21 | PING | ● High | ping | off      | 2023/12/03 11:29:12 |
| ● Low    | 192.168.1.10 | PING | ● Low  | ping | off      | 2023/12/03 11:28:47 |
| ▲ Warn   | 192.168.1.23 | PING | ▲ Warn | ping | off      | 2023/12/03 11:28:47 |
| ○ Repair | 192.168.1.12 | PING | ▲ Warn | ping | off      | 2023/12/03 11:29:23 |
| ✓ Normal | 192.168.1.11 | PING | ▲ Warn | ping | off      | 2023/12/03 11:28:33 |
| ✓ Normal | 192.168.1.13 | PING | ● Low  | ping | off      | 2023/12/03 11:28:33 |
| ✓ Normal | 192.168.1.14 | PING | ● High | ping | off      | 2023/12/03 11:28:33 |
| ✓ Normal | 192.168.1.15 | PING | ● Low  | ping | off      | 2023/12/03 11:28:33 |
| ✓ Normal | 192.168.1.16 | PING | ● Low  | ping | off      | 2023/12/03 11:28:33 |
| ✓ Normal | 192.168.1.18 | PING | ● Low  | ping | off      | 2023/12/03 11:28:33 |

| Items              | Contents  |
|--------------------|---|
| State              | Polling state.<br>Severe, mild, precautions, return, normal, unknown. |
| Node name          | Node related to polling.  |
| Name               | Polling name.   |
| Level              | Pauling disability level.   |
| Type               | Polling type.   |
| Log                | Polling log mode.   |
| Final confirmation | Polling final confirmation date and time.                             |

| Items  | Contents                                       |
|--------|--|
| Add    | Add polling.                                   |
| Edit   | Edit the selected polling.                     |
| Copy   | Copy the selected polling.                     |
| Report | Displays the selected polling analysis report. |
| Delete | Delete the selected polling.                   |
| CSV    | Export the polling list to the CSV file.       |
| Excel  | Export the polling list to the Excel file.     |
| Reload | Update the polling list to the latest state.   |

## Polling template selection

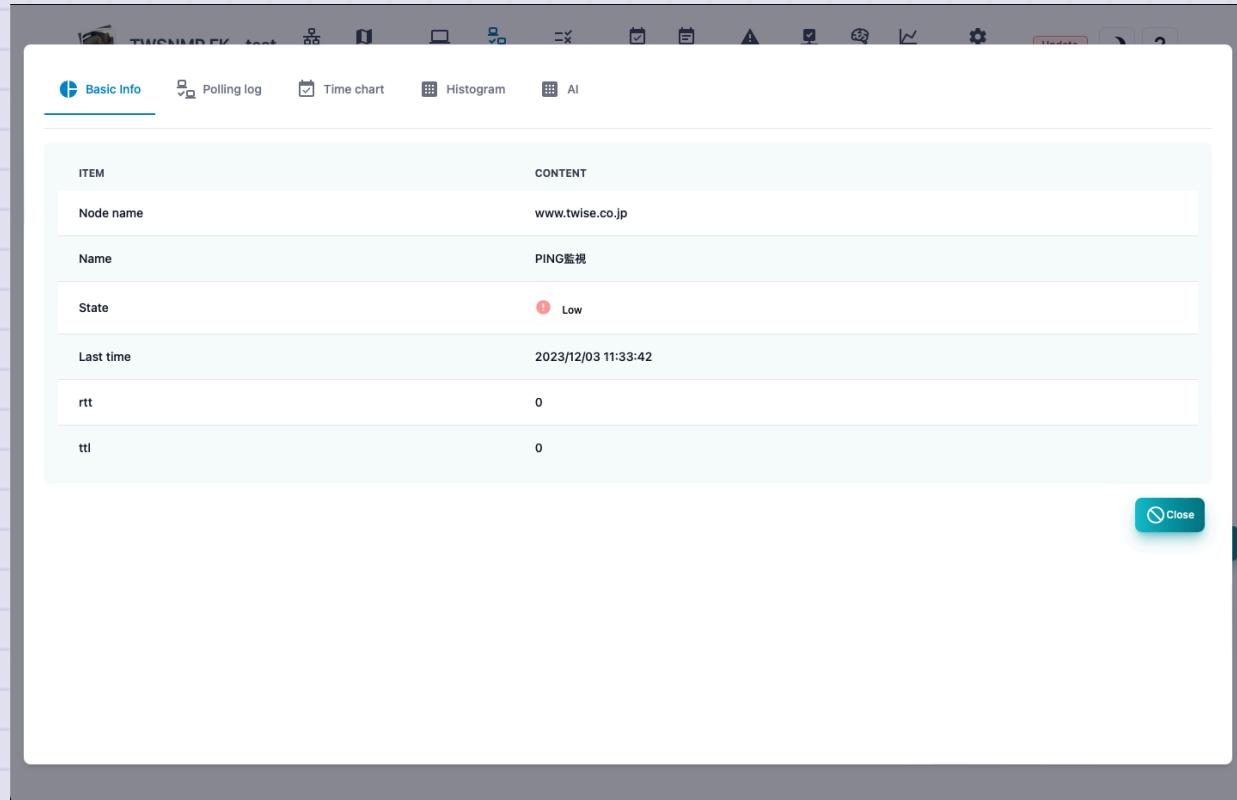
This is the selection screen of the template displayed when adding polling.

| Show 10 entries                              |               |      |              |                          | Search:  |
|--|---------------|------|--------------|--------------------------|--|
| ID   | Name          | Type | Mode         | Description              |  |
| 1  | PING          | ping |              | PING                     |  |
| 2  | LAN port      | snmp | ifOperStatus | polling i/f state        |  |
| 3  | SNMP restart  | snmp | sysUpTime    | Detect reboot            |  |
| 4  | SNMP traffic  | snmp | traffic      | polling i/f traffic      |  |
| 5  | CPU usage     | snmp | stats        | CPU usgae                |  |
| 6  | Storage usage | snmp | get          | storage usage            |  |
| 7  | TCP port      | tcp  |              | TCP port                 |  |
| 8  | HTTP          | http |              | HTTP                     |  |
| 9  | HTTPS         | http | https        | HTTPS                    |  |
| 10   | TLS cert      | tls  | expire       | check server cert expire |  |
| Showing 1 to 10 of 25 entries 1 row selected |               |      |              |                          | Previous <span>1</span> <span>2</span> <span>3</span> Next |
|  |               |      |              |                          | <span>+ Add</span> <span>Cancel</span>                     |

| Items       | Contents                               |
|-------------|--|
| ID          | Template number.                       |
| Name        | Polling name.                          |
| Type        | Polling type.<br>Ping, SNMP, TCP, etc. |
| Mode        | Polling mode.                          |
| Description | Polling explanation.                   |
| Add         | Select polling.                        |
| Cancel      | Polling Closes.                        |

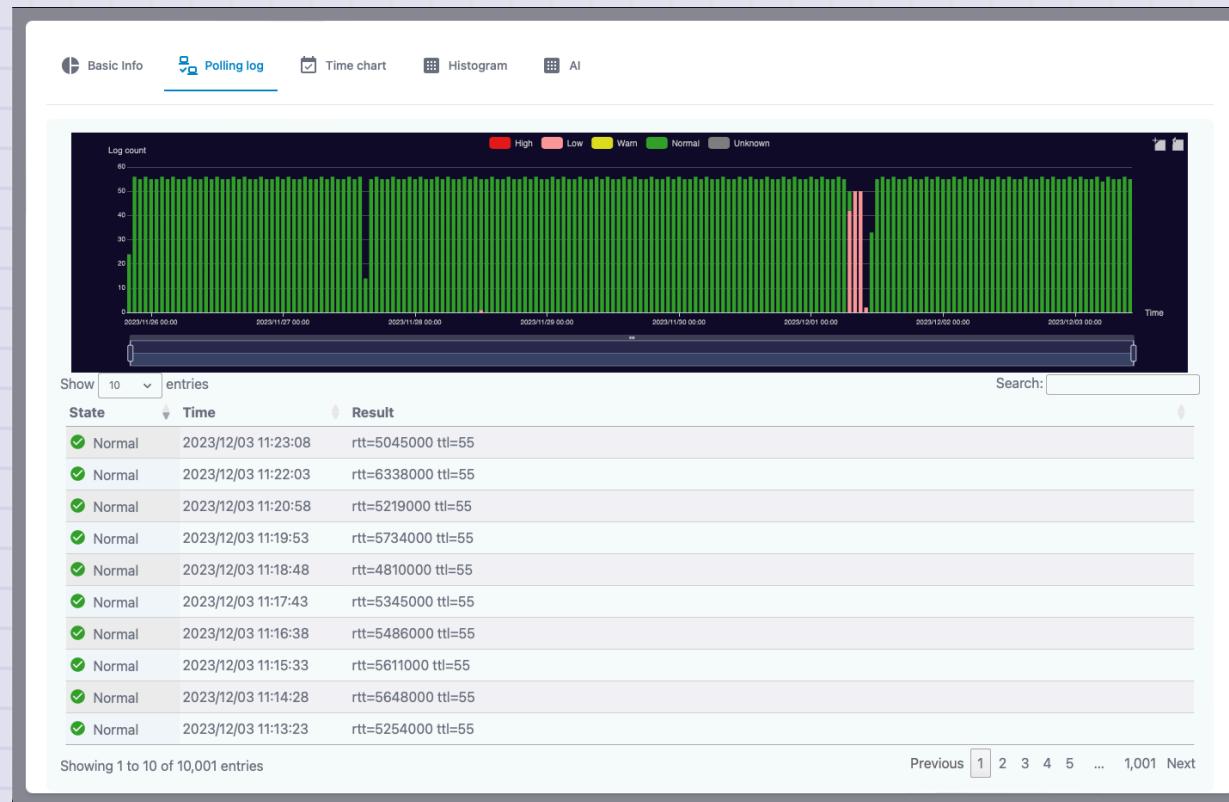
# Basic information

Basic information about polling.



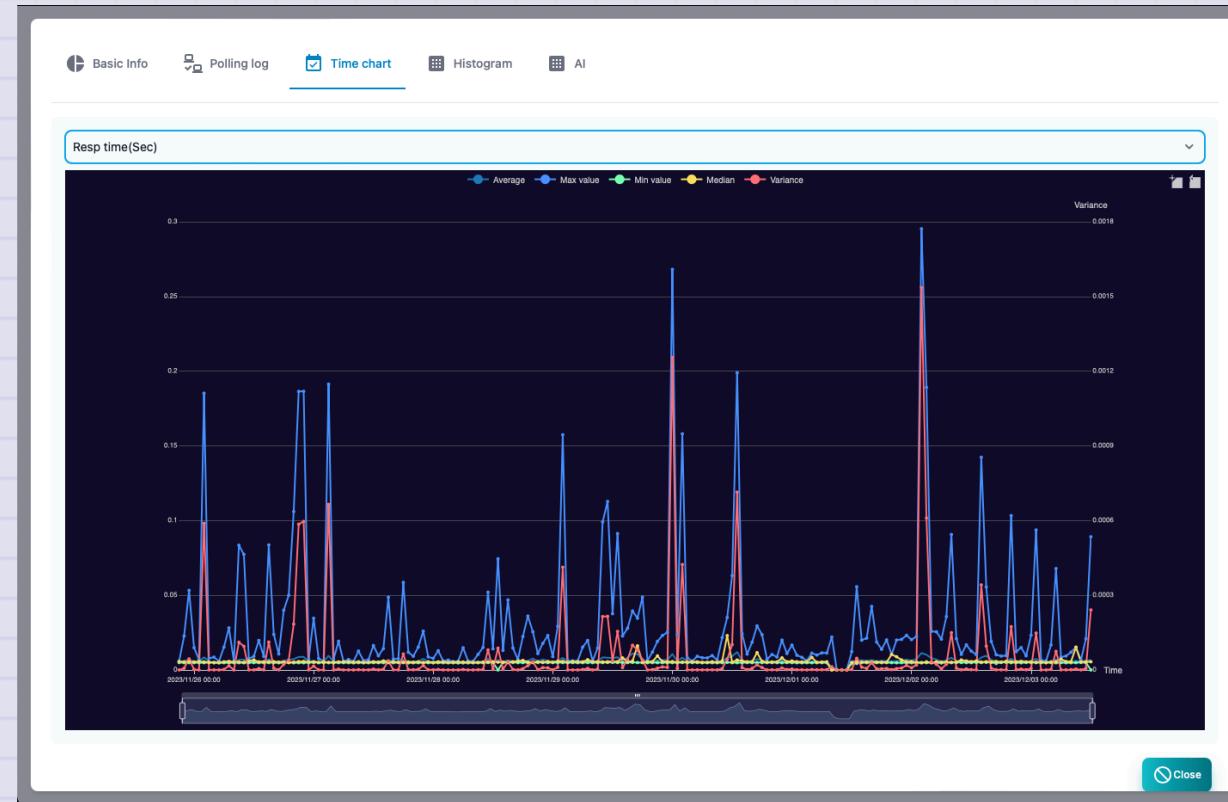
## Polling log

This is a log of the polling result. It is displayed only when the log mode is not output.



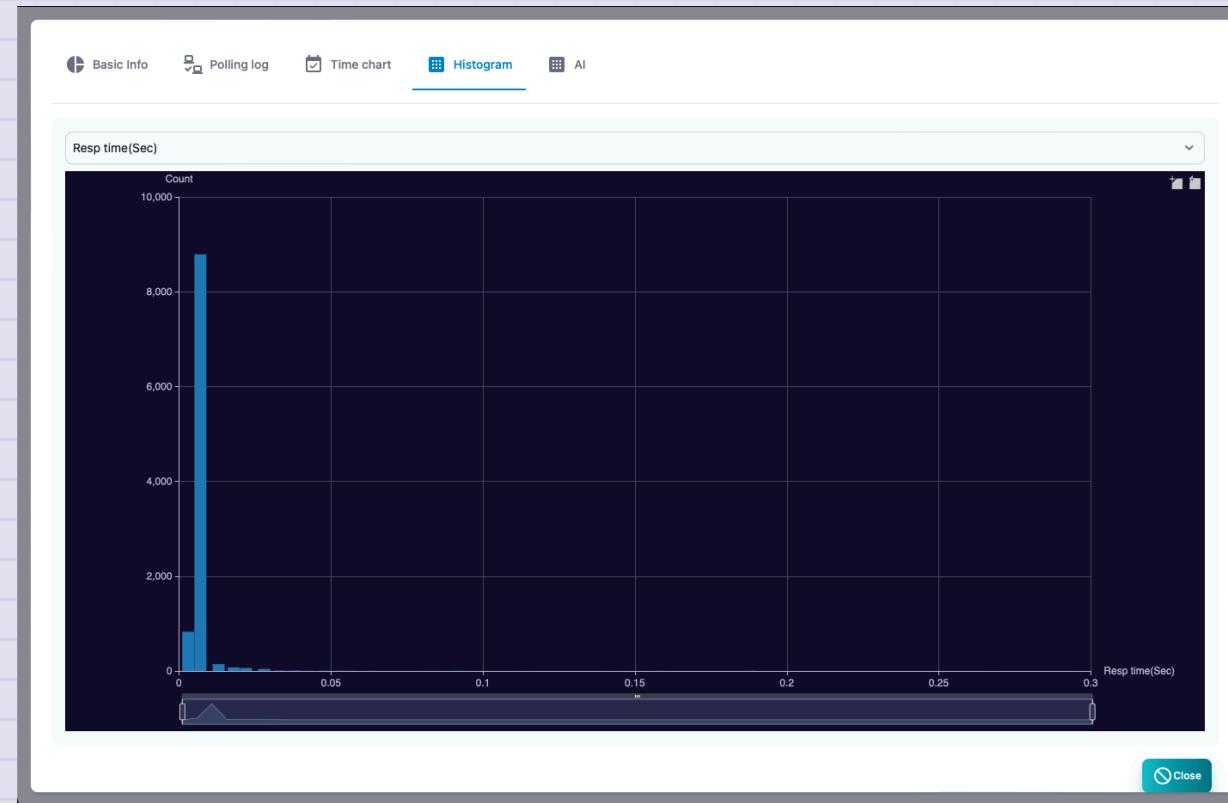
## Time chart

In the log of the polling result, the numerical data is displayed in a chronological graph. The displayed items can be selected at the top of the graph. It is displayed only when the log mode is not output.



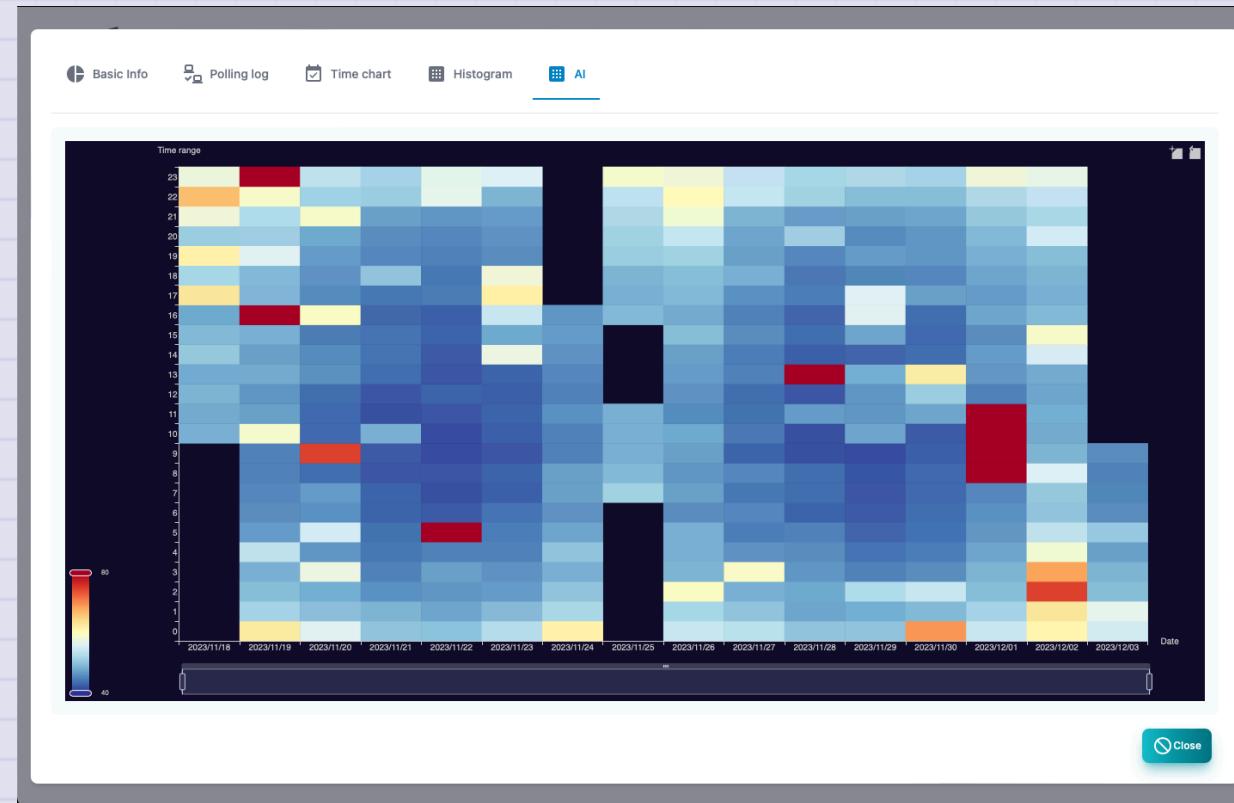
## Histogram

The numerical data in the log of the polling result is displayed on the histogram. The displayed items can be selected at the top of the graph. It is displayed only when the log mode is not output.



## AI analysis

This is the result of AI analysis of numerical data in the log of the polling results. It is displayed only when the log mode is set to AI analysis and sufficient data is obtained.



## Polling editing

Polling edit can be displayed from the button by selecting a polling list on the polling list.

Edit polling

Name  
PING

| Level | Type | Mode | Log mode |
|-------|------|------|----------|
| High  | PING |      | None     |

Params  
Params

Filter  
Filter

Grok pattern

Script

Interval(Sec)  
61

Timeout(sec)  
2

Retry  
2

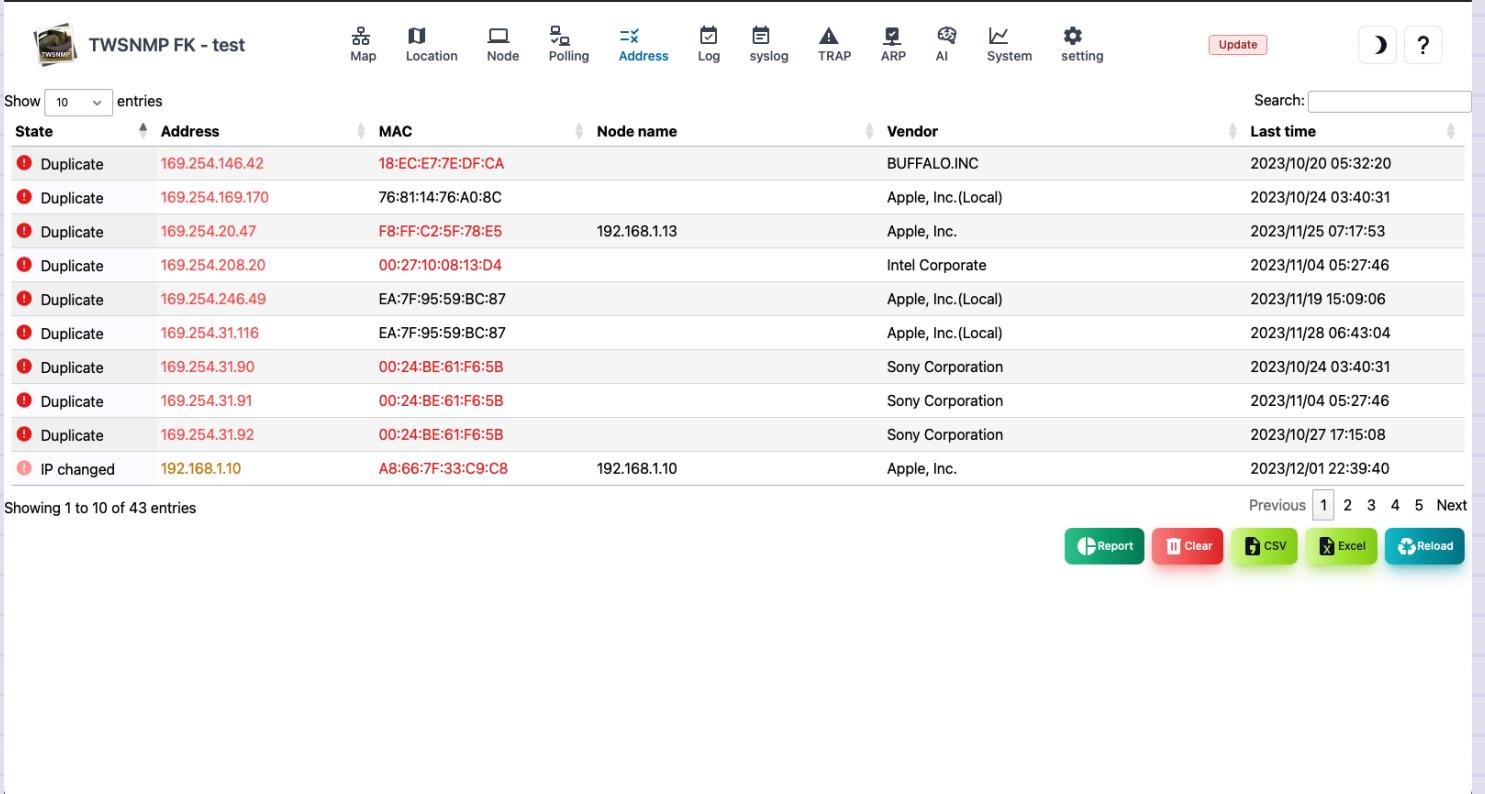
Save Help Cancel

| Items    | Contents                                       |
|----------|--|
| Name     | Polling name.                                  |
| Level    | Pauling disability level.                      |
| Type     | Polling type.<br>Ping, SNMP, TCP, etc.         |
| Mode     | Operation mode depends on the type of polling. |
| Log mode | How to save the polling result log.            |

| Items            | Contents   |
|------------------|--|
| Parameter        | Polling type and mode -dependent parameters.   |
| Filter           | Polling type and filter condition that depends on mode.  |
| Extract pattern  | This is a GROK pattern that depends on the type of polling and the mode. Use when extracting data from logs. |
| Script           | Java Script that determines disability and calculates variables.   |
| Polling interval | Polling interval.  |
| Timeout          | Timeout at the time of polling.  |
| Retry            | This is the number of retry times when polling.  |

# Address list

This is a list of IP address found by TWSNMP. Only the IP address in the same segment found in the ARP watch function is displayed. You can detect duplicate and the change in the address.



The screenshot shows a web-based monitoring interface for TWSNMP. At the top, there is a navigation bar with links for Map, Location, Node, Polling, Address (which is the active tab), Log, syslog, TRAP, ARP, AI, System, setting, Update, and a help icon. Below the navigation bar is a search bar labeled "Search:" with a placeholder for entering text. The main content area is a table titled "TWSNMP FK - test" showing a list of network addresses. The table has columns for State, Address, MAC, Node name, Vendor, and Last time. The "Address" column uses color-coded icons to indicate the state of each entry: red for "Duplicate" and orange for "IP changed". The "Vendor" column lists the manufacturer for each device. The "Last time" column shows the timestamp of the last update for each entry. At the bottom of the table, it says "Showing 1 to 10 of 43 entries". Below the table are several buttons: Report (green), Clear (red), CSV (green), Excel (green), and Reload (blue). There are also navigation buttons for Previous (with page numbers 1-5) and Next.

| State      | Address         | MAC               | Node name    | Vendor             | Last time           |
|------------|-----------------|-------------------|--------------|--------------------|---------------------|
| Duplicate  | 169.254.146.42  | 18:EC:E7:7E:DF:CA |              | BUFFALO. INC       | 2023/10/20 05:32:20 |
| Duplicate  | 169.254.169.170 | 76:81:14:76:A0:8C |              | Apple, Inc.(Local) | 2023/10/24 03:40:31 |
| Duplicate  | 169.254.20.47   | F8:FF:C2:5F:78:E5 | 192.168.1.13 | Apple, Inc.        | 2023/11/25 07:17:53 |
| Duplicate  | 169.254.208.20  | 00:27:10:08:13:D4 |              | Intel Corporate    | 2023/11/04 05:27:46 |
| Duplicate  | 169.254.246.49  | EA:7F:95:59:BC:87 |              | Apple, Inc.(Local) | 2023/11/19 15:09:06 |
| Duplicate  | 169.254.31.116  | EA:7F:95:59:BC:87 |              | Apple, Inc.(Local) | 2023/11/28 06:43:04 |
| Duplicate  | 169.254.31.90   | 00:24:BE:61:F6:5B |              | Sony Corporation   | 2023/10/24 03:40:31 |
| Duplicate  | 169.254.31.91   | 00:24:BE:61:F6:5B |              | Sony Corporation   | 2023/11/04 05:27:46 |
| Duplicate  | 169.254.31.92   | 00:24:BE:61:F6:5B |              | Sony Corporation   | 2023/10/27 17:15:08 |
| IP changed | 192.168.1.10    | A8:66:7F:33:C9:C8 | 192.168.1.10 | Apple, Inc.        | 2023/12/01 22:39:40 |

| Items        | Contents   |
|--------------|--|
| State        | It is the state of the address.(Normal, duplicate, IP change, Mac change.) |
| Address      | IP address.  |
| MAC address  | MAC address.   |
| Node name    | The name of the node registered on the map as a management target.         |
| Vendor       | The name of the vendor corresponding to the MAC address.                   |
| Final change | This is the last change date and time.                                     |

| Items    | Contents  |
|----------|---|
| Add node | Add the selected IP address to the map. It is displayed only when it is not registered. |
| Delete   | Delete the selected IP address.   |
| Report   | Display the address list report.  |
| clear    | Clear all address lists.  |
| CSV      | Export the address list to the CSV file.  |
| Excel    | Export the address list to the Excel file.  |
| Reload   | Update the address list to the latest state.  |

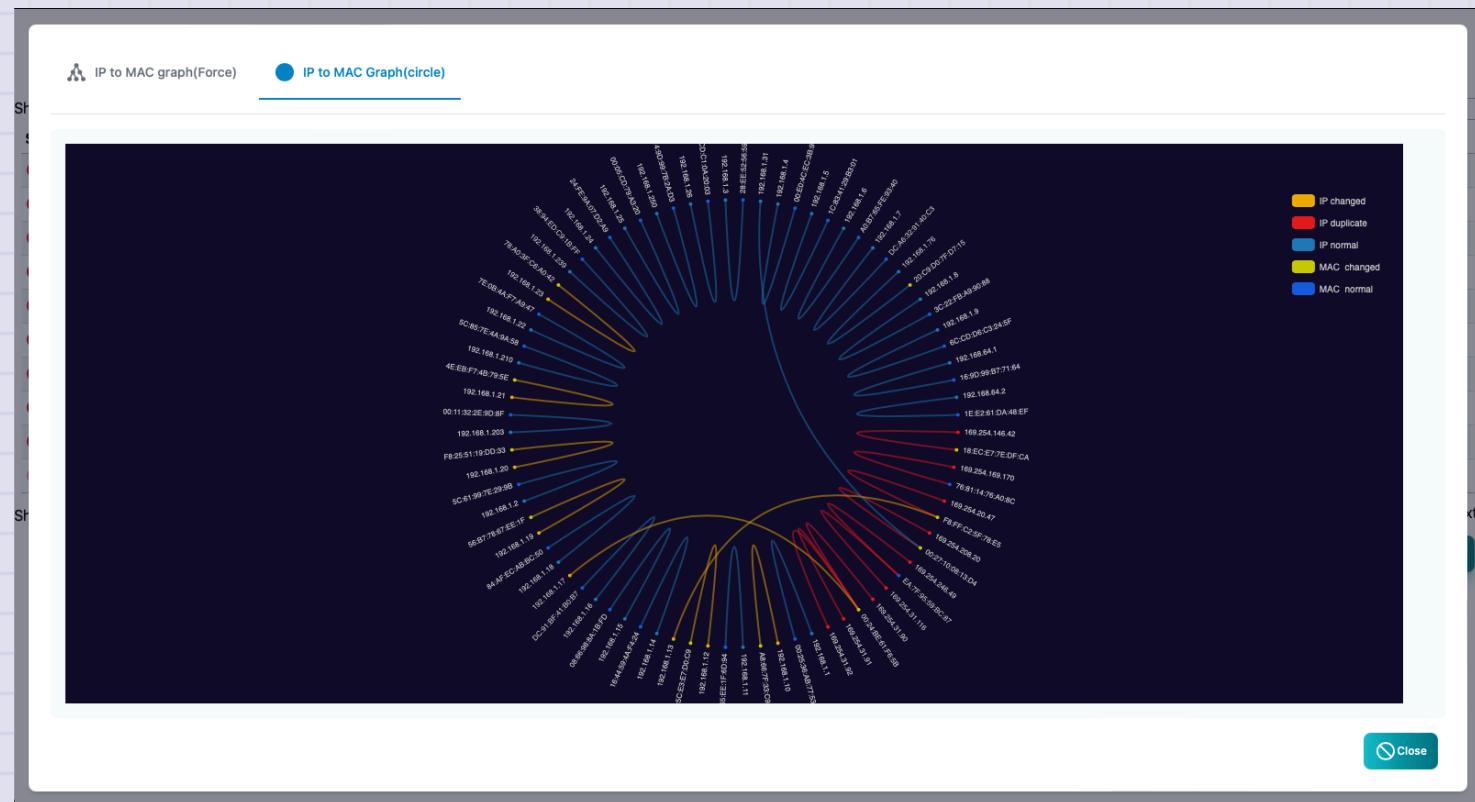
# Relationship between IP and MAC address (force model)

This is a report that shows the relationship between IP address and MAC address with an force model. The normal address is one -on - one for the IP address and the MAC address. You can detect MAC addresses using the same IP address on multiple Macs or having multiple IP addresses.



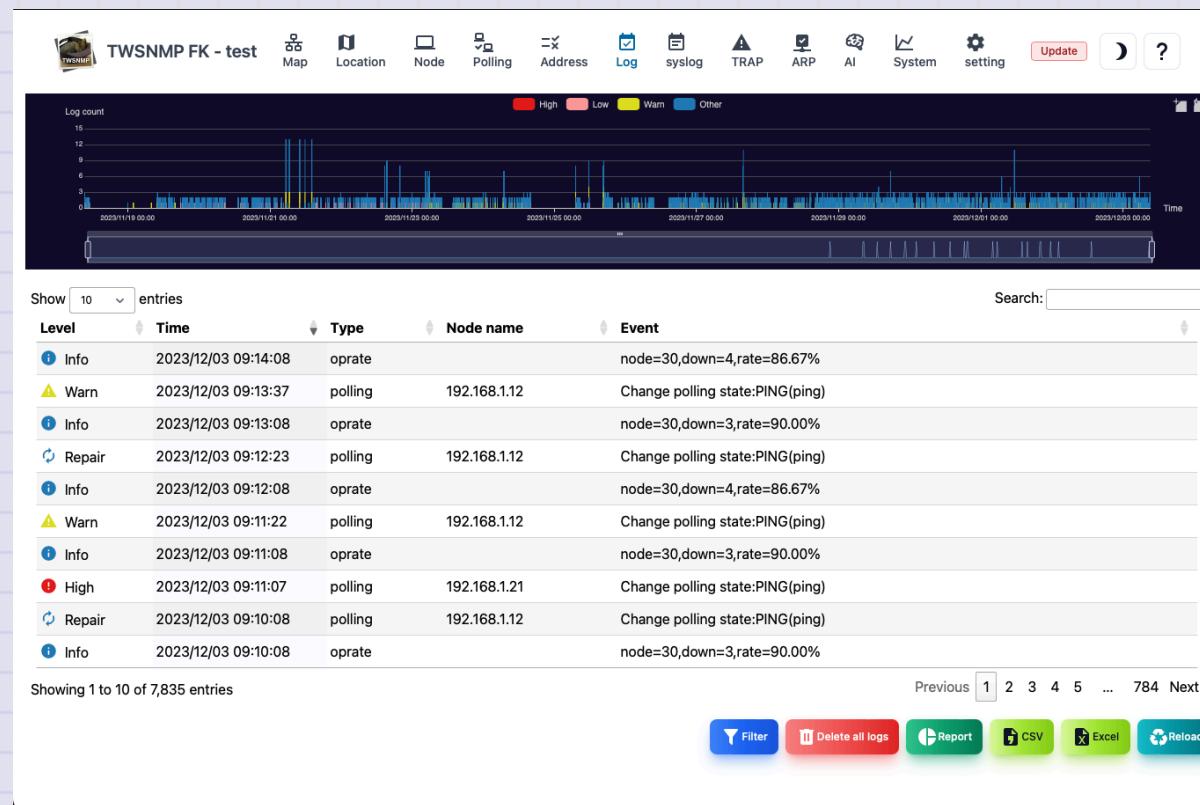
# Relationship between IP and MAC address (circular model)

This is a report that shows the relationship between IP address and MAC address with a circular model. The normal address is one -on-one for the IP address and the MAC address. You can detect MAC addresses with the same IP address on multiple Macs or have multiple IP addresses.



# Event Log

This is the event log screen. At the top, there is a graph showing the number of logs in chronological order.

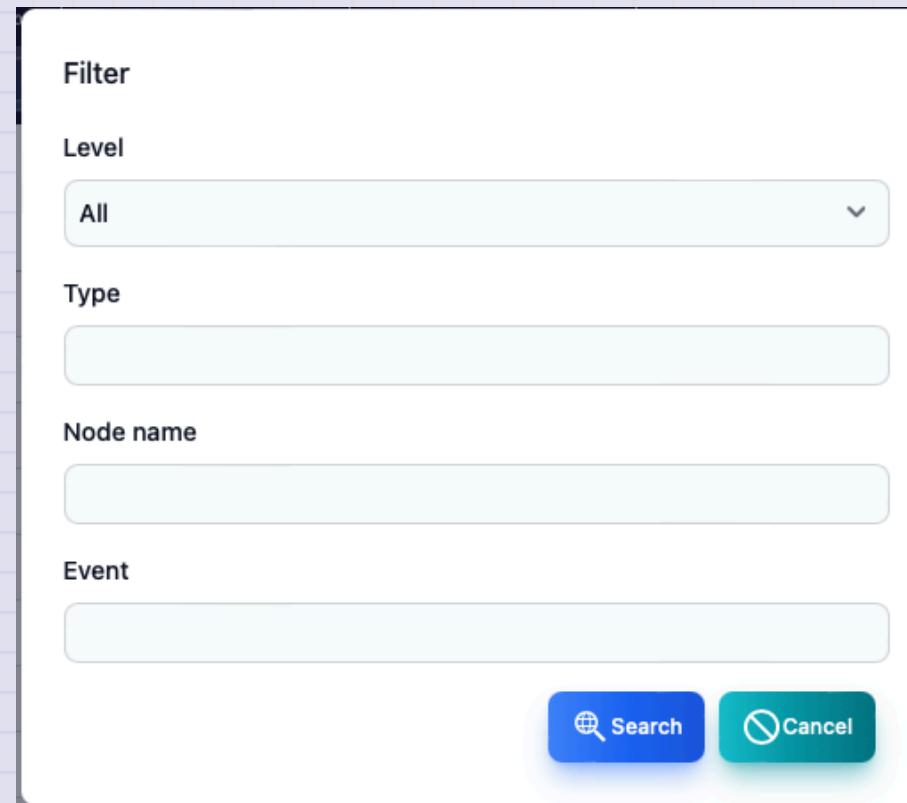


| Items         | Contents  |
|---------------|---|
| Level         | Log level. There is severe, mild, attention, return, and information.           |
| Date and time | The date and time of the log is recorded.                                       |
| Type          | Log type. Polling, System, Oprate, User, ArpWatch,                              |
| Related node  | Name of node related to logs.<br>The blank means that there is no related node. |
| Event         | This is an event that occurred.   |

| Items           | Contents   |
|-----------------|--|
| Filter          | Specify the search conditions and display the log. |
| Delete all logs | Delete all event logs.                             |
| Report          | Displays the event log analysis report.            |
| CSV             | Export the event log to the CSV file.              |
| Excel           | Export the event log to the Excel file.            |
| Reload          | Update the list of event logs to the latest state. |

## Event log filter

This is a dialog that specifies the search conditions for the event log.



| Items        | Contents  |
|--------------|---|
| Level        | Log level. All, there are more attention, more than severe, mild. |
| Type         | Log type. Polling, System, Oprate, User, ArpWatch,                |
| Related node | Search by node name related to the log.                           |
| Event        | Search by the string of the event that occurred.                  |

The string can be searched by regular expression.

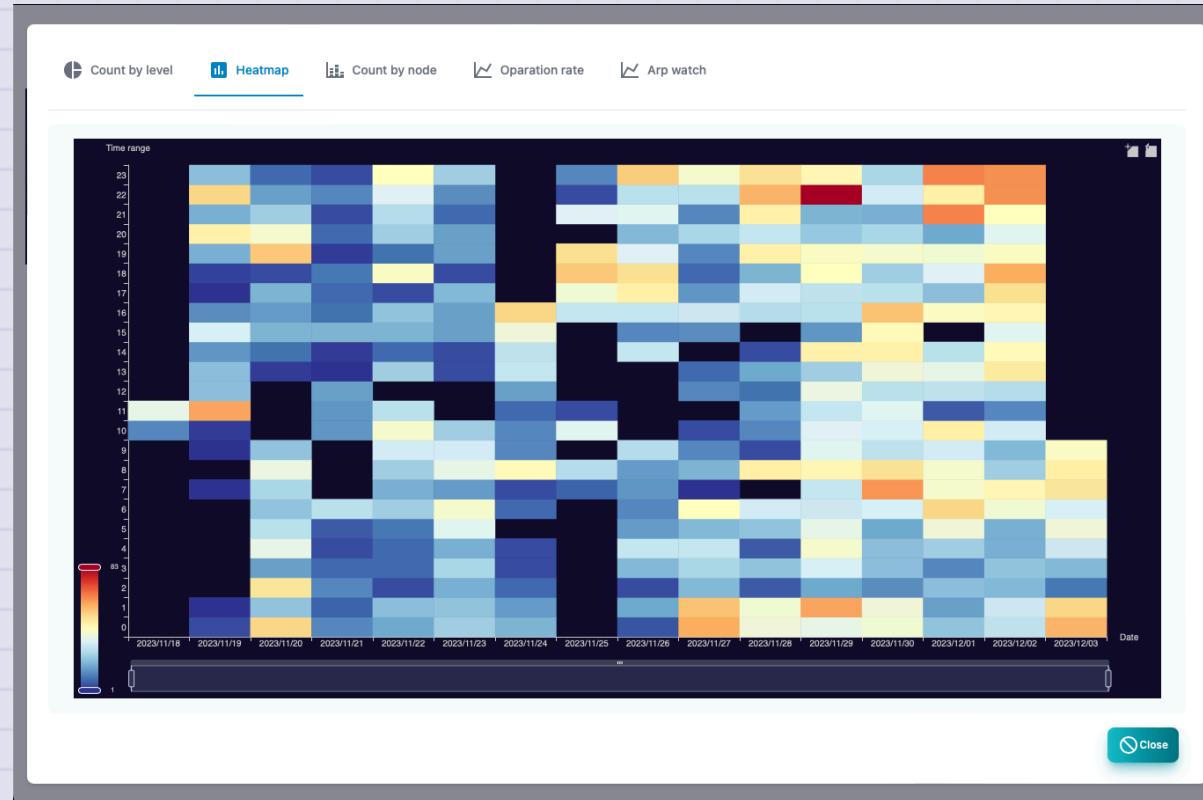
## Event log count by state

This is a report of the number of event logs by state (level).



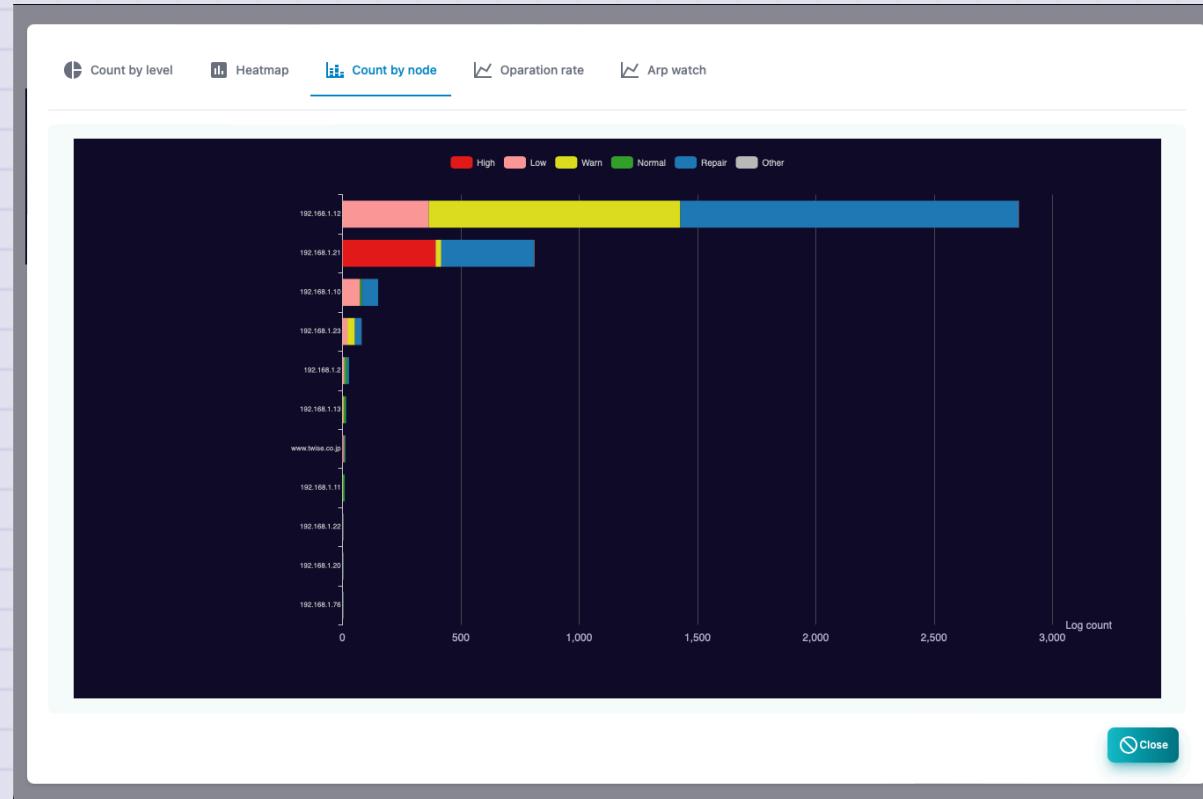
## Event log Heatmap

This is a report of the number of cases of each event log on the heat map.



## Event log count by node

This is a report of the number of event logs by node.



## Operating rate

This is a report that uses a chronological graph of the value of the operating rate (OPRATE) in the event log.



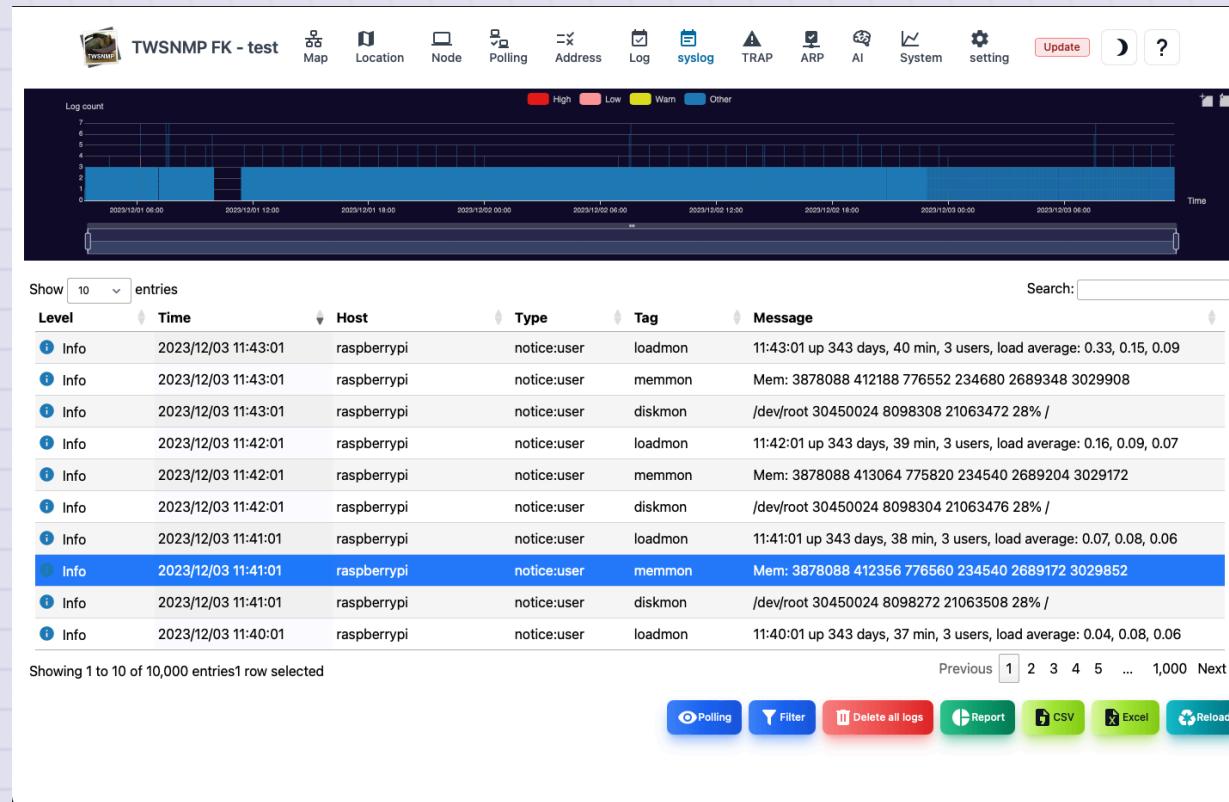
## ARP watch

This is a report of the value of the address usage rate (ARPWATCH) in the event log as a chronological graph.



# Syslog

Syslog screen. At the top, there is a graph showing the number of logs in chronological order.

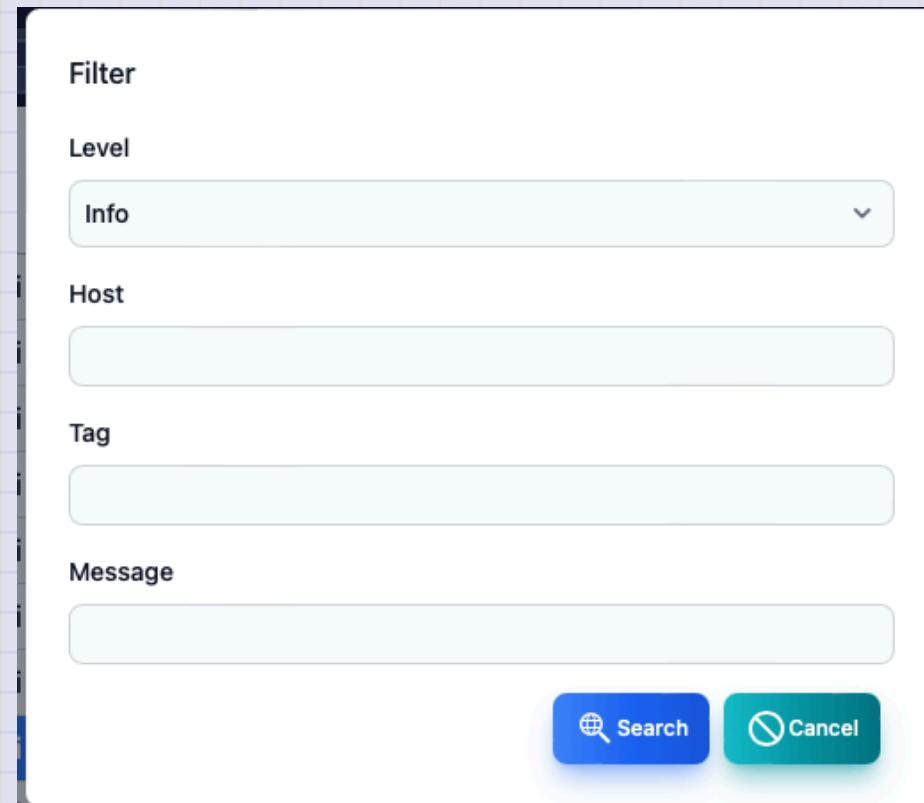


| Items         | Contents   |
|---------------|--|
| Level         | Syslog level. There is severe, High, Low, Warn, and information. |
| Date and time | It is the date and time when I received syslog.                  |
| Host          | SYSLOG source host.  |
| Type          | Syslog Facility and priority string.                             |
| Tags          | Syslog tag. Process and process ID.                              |
| Message       | Syslog message.  |

| Items           | Contents  |
|-----------------|---|
| Polling         | Register the polling from the selected syslog.    |
| Filter          | Specify the search conditions and display syslog. |
| Delete all logs | Delete all syslogs.                               |
| Report          | Displays Syslog analysis reports.                 |
| Export CSV      | syslog to CSV file.                               |
| Excel           | EXCEL file is exported to syslog.                 |
| Reload          | Update the list of syslog to the latest state.    |

## Syslog Filter

This is a dialog that specifies the search conditions for syslog.

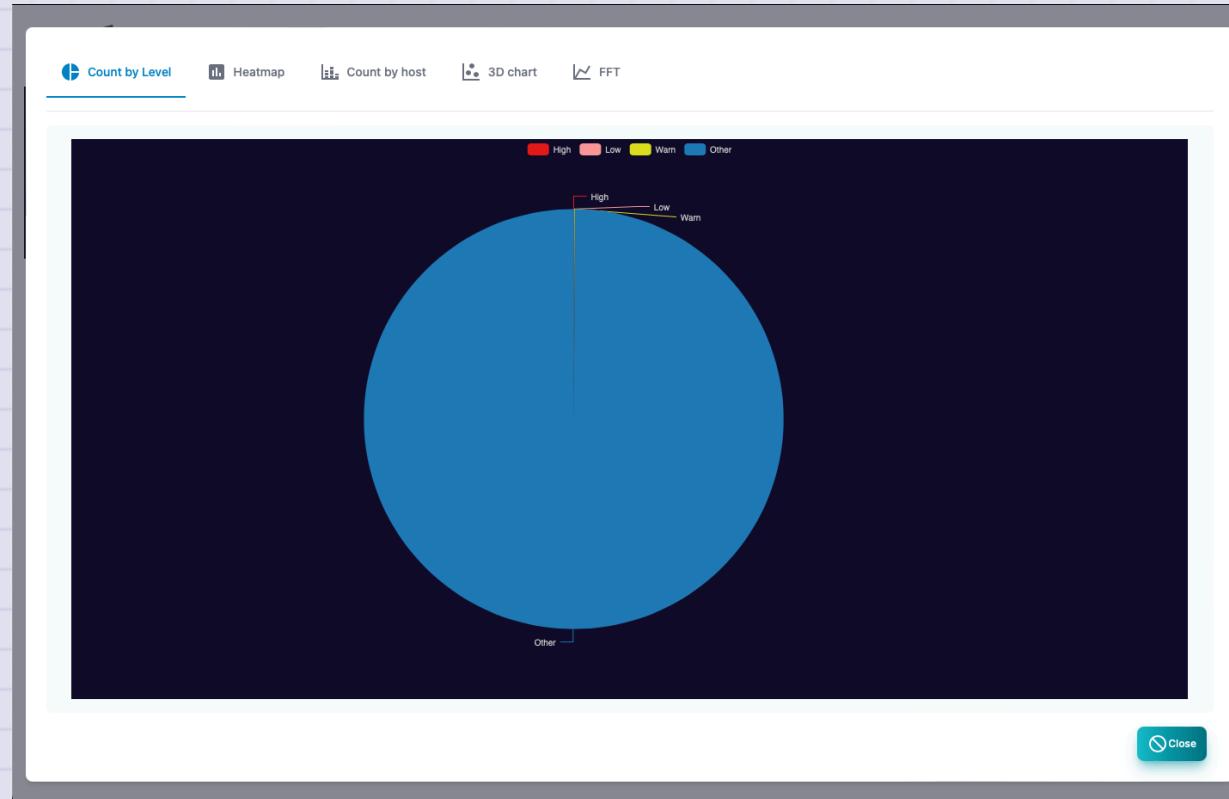


| Items   | Contents   |
|---------|--|
| Level   | Syslog level.<br>All, more than information, more than caution, mild or higher, more severe. |
| Host    | It is the source host.   |
| Tags    | The value of the syslog tag.   |
| Message | Syslog message.  |

\*Host,Tag,Message can be searched in regular expressions.

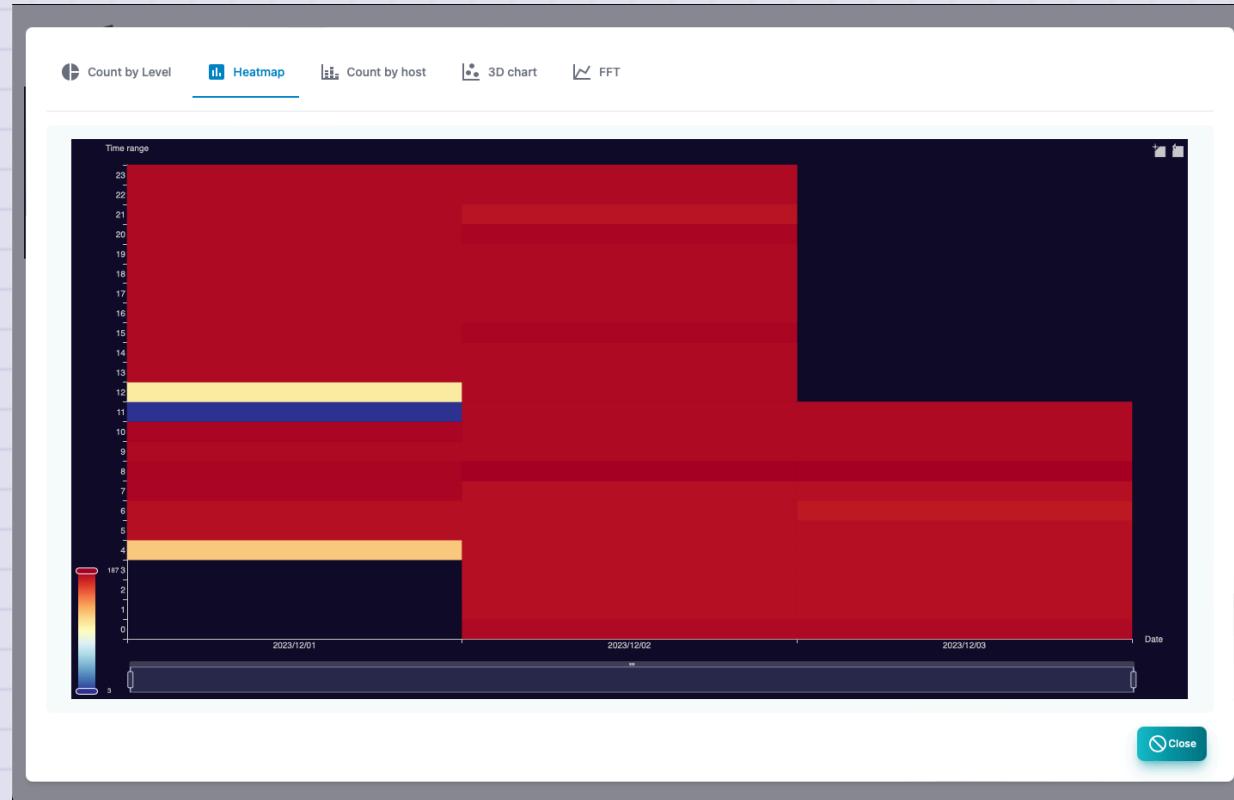
## Syslog count by state

This is a report of the number of syslogs by state.



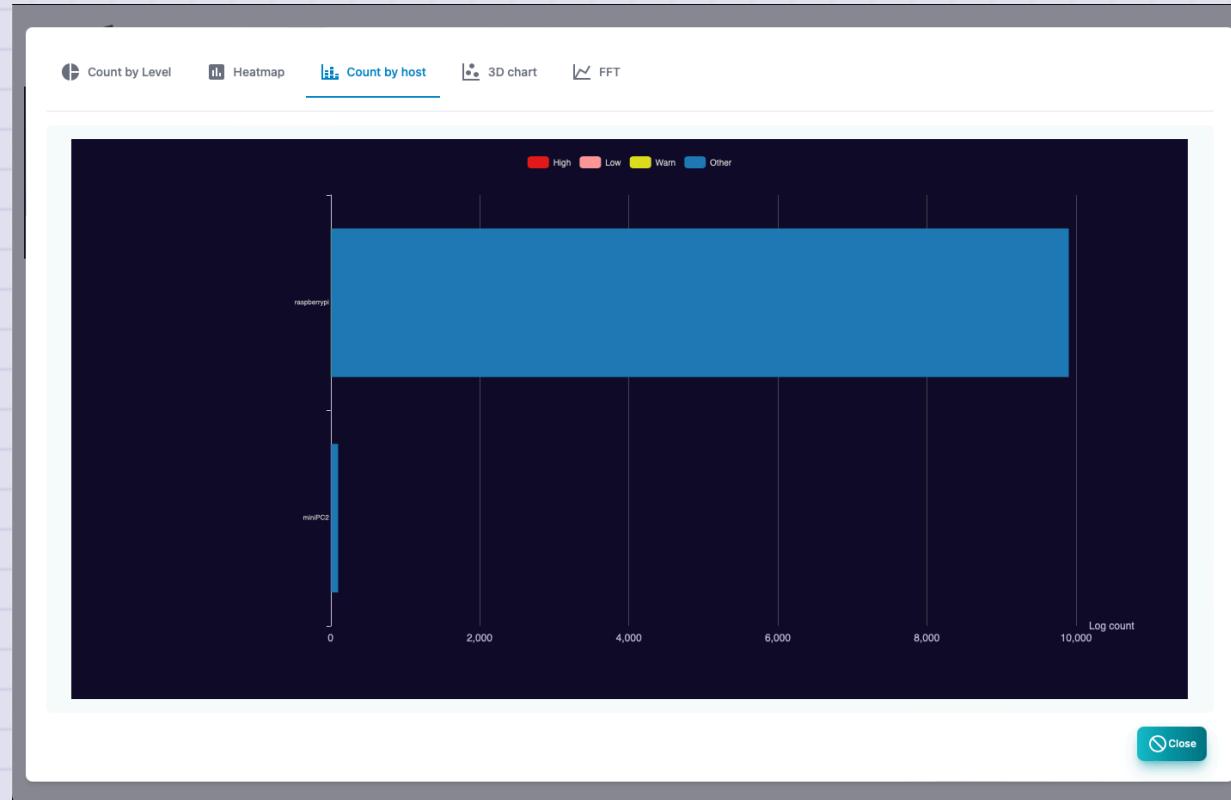
## Syslog Heatmap

This is a report of the number of cases of syslog on the heat map.



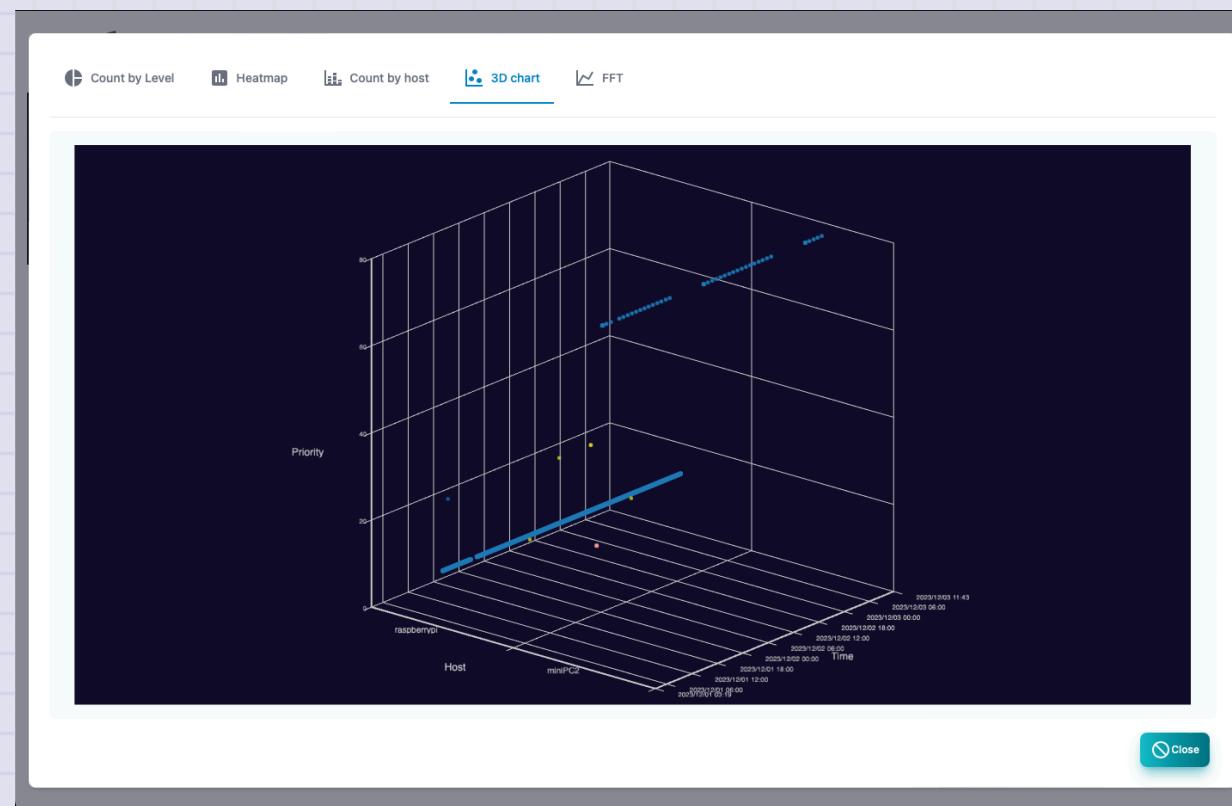
## Syslog count by host

This is a report of the number of syslogs by the source host.



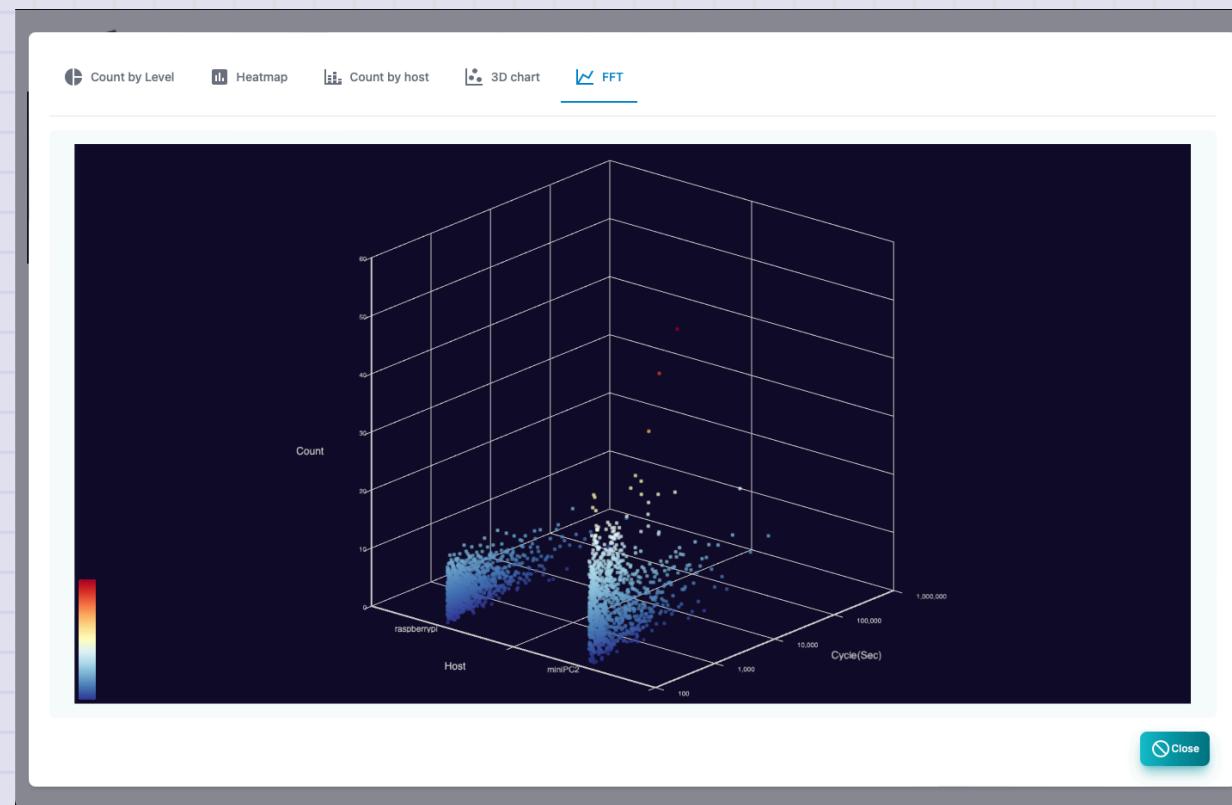
## Syslog count by host (3D)

This is a report displayed in three -dimensional graphs of Syslog, source host, priority, and time.



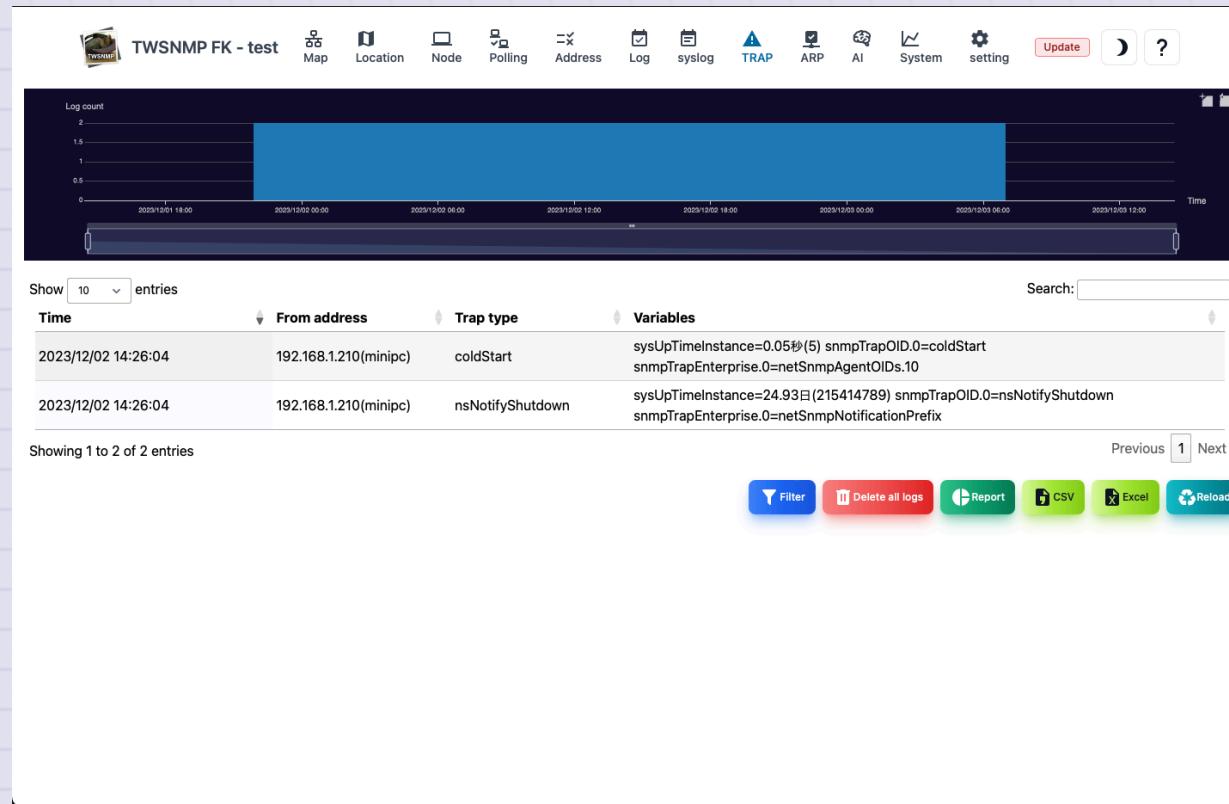
## Syslog FFT

This is a report that analyzes Syslog for each host and analyzes the number of receiving cases.



# SNMP TRAP

SNMP Trap log screen. At the top, there is a graph showing the number of logs in chronological order.

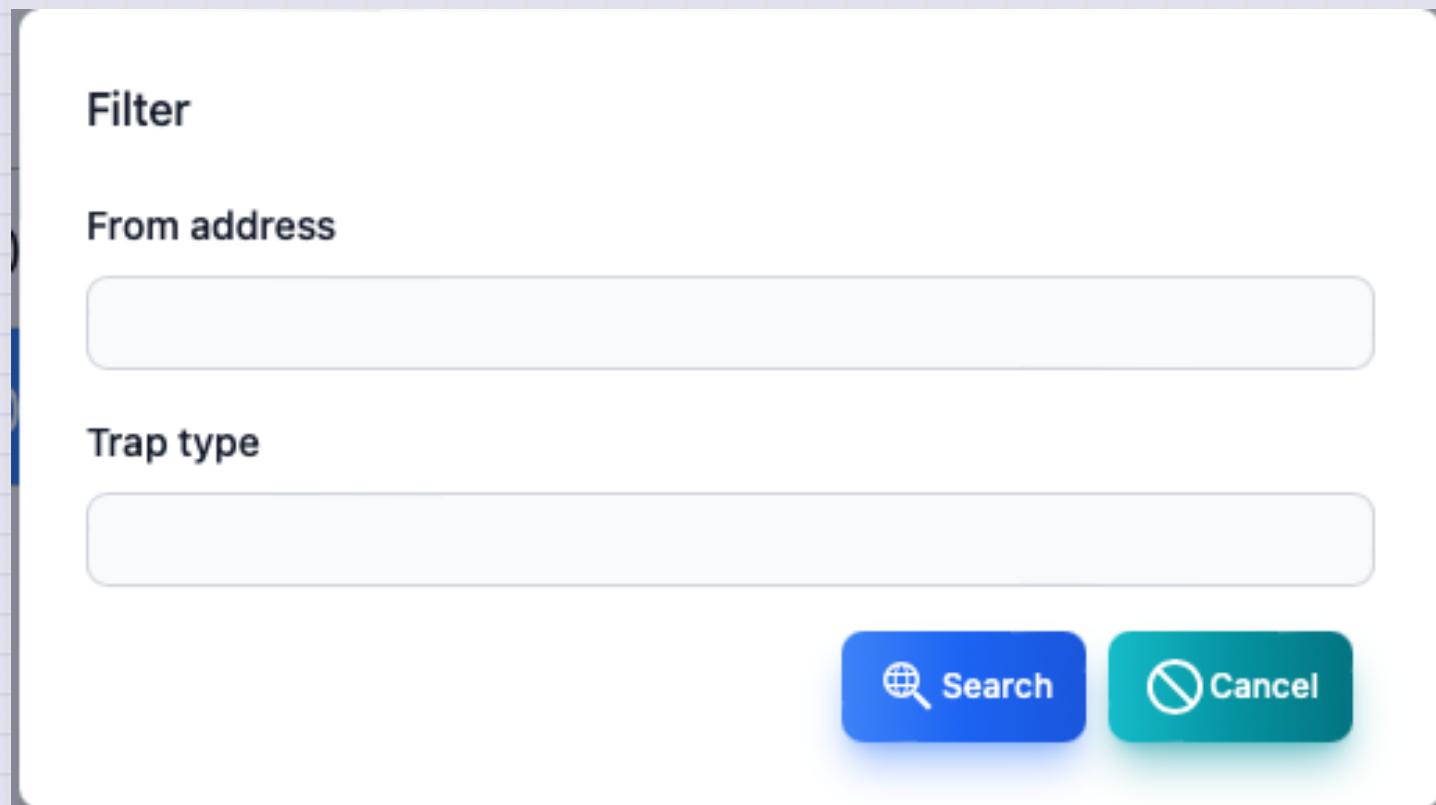


| Items          | Contents  |
|----------------|---|
| Date and time  | This is the date and time of receiving SNMP Trap. |
| Sending source | SNMP Trap's source host.                          |
| Type           | SNMP Trap type.                                   |
| Variables      | Variables attached to SNMP Trap.                  |

| Items           | Contents   |
|-----------------|--|
| Polling         | Register the polling from the selected SNMP Trap.    |
| Filter          | Specify the search conditions and display SNMP Trap. |
| Delete all logs | Delete all syslogs.                                  |
| Report          | Displays the analysis report of SNMP Trap.           |
| CSV             | Sport the SNMP Trap to the CSV file.                 |
| Excel           | Export SNMP Trap to Excel file.                      |
| Reload          | Update the SNMP Trap list to the latest state.       |

## SNMP TRAP Filter

This is a dialog that specifies the search conditions for SNMP Trap.

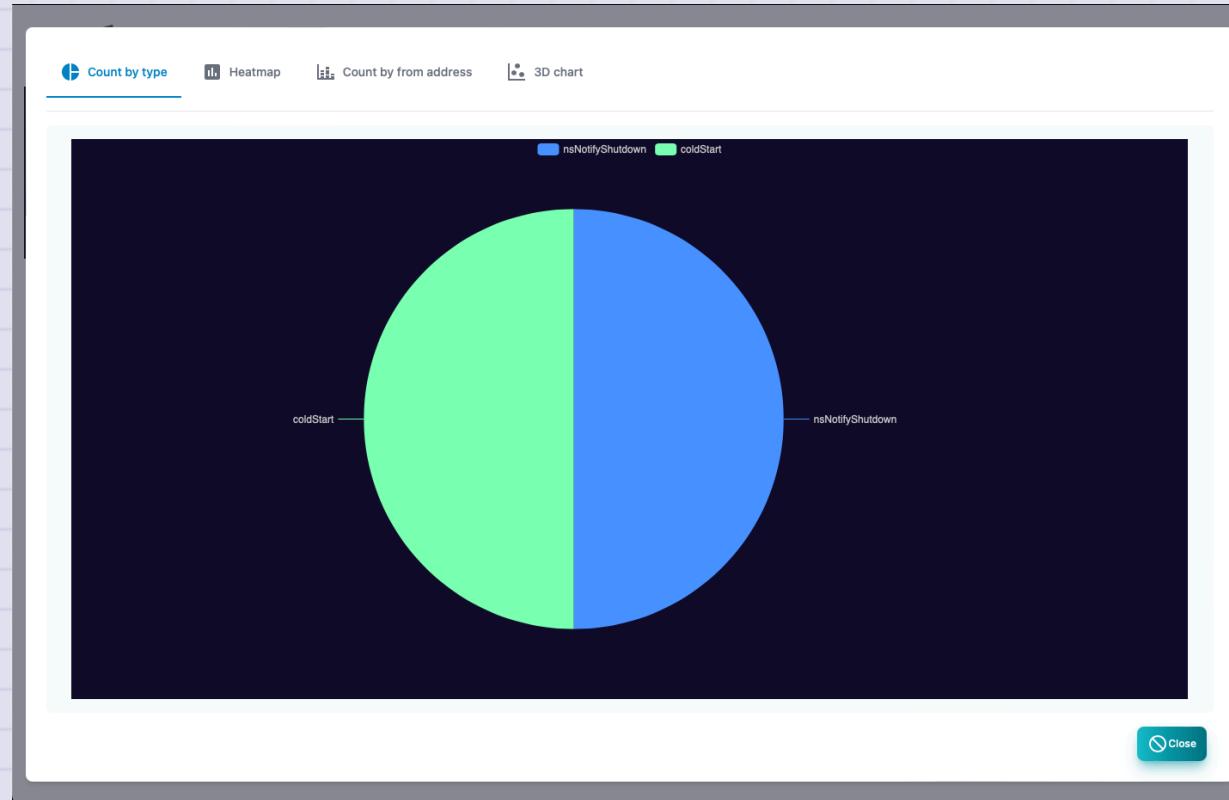


| Items          | Contents               |
|----------------|------------------------|
| Sending source | It is the source host. |
| Type           | SNMP Trap type.        |

\*Character strings can be searched in regular expressions.

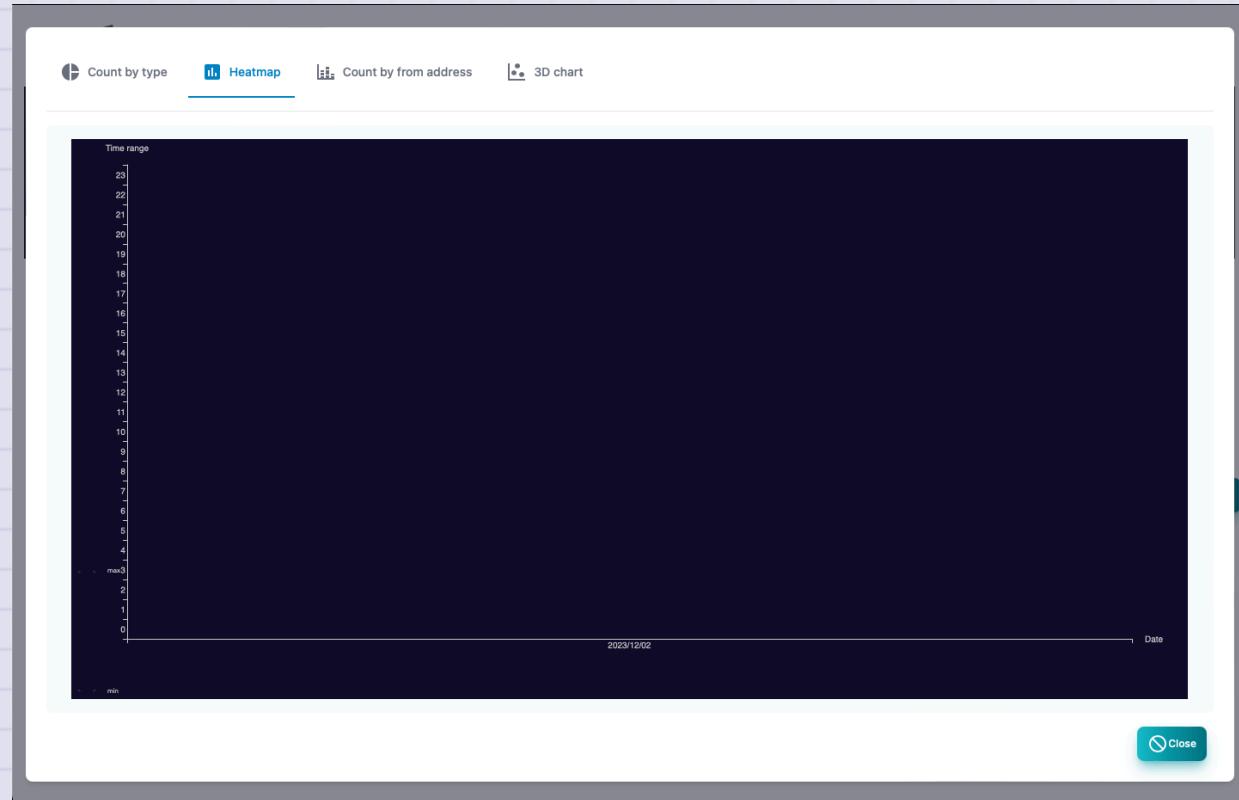
## SNMP TRAP count by TRAP type

This is a report of the number of SNMP traps by type.



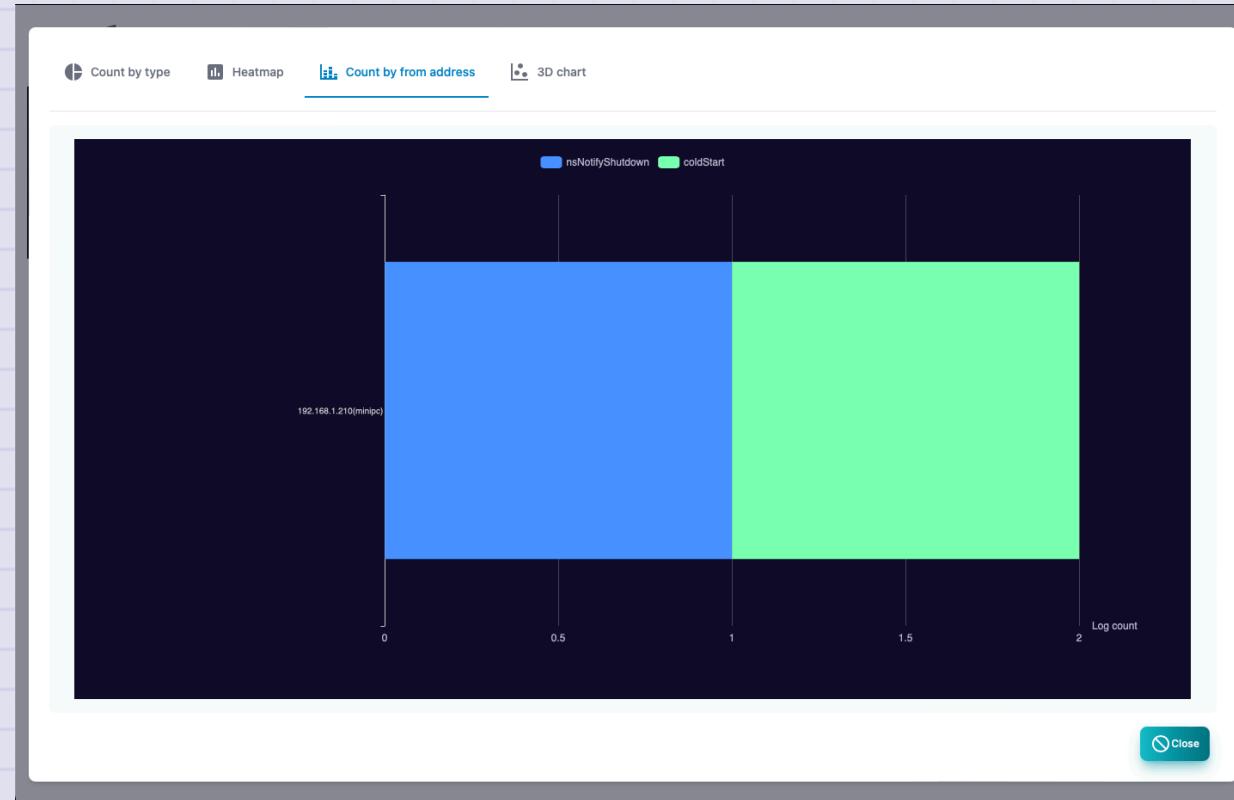
## SNMP TRAP Heatmap

This is a report of the number of cases of SNMP TRAP on the heat map.



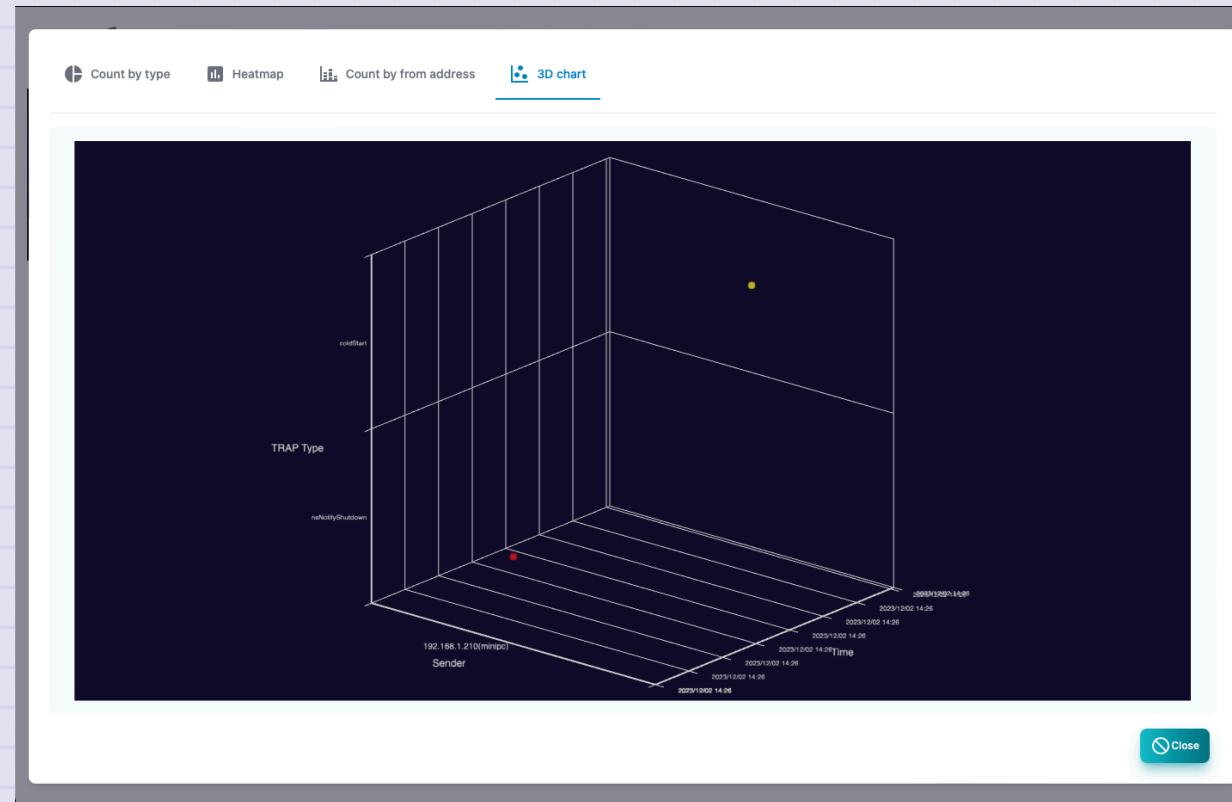
## SNMP TRAP count by host

This is a report of the number of SNMP Trap receiving cases by source host.



## SNMP TRAP send source and type (3D)

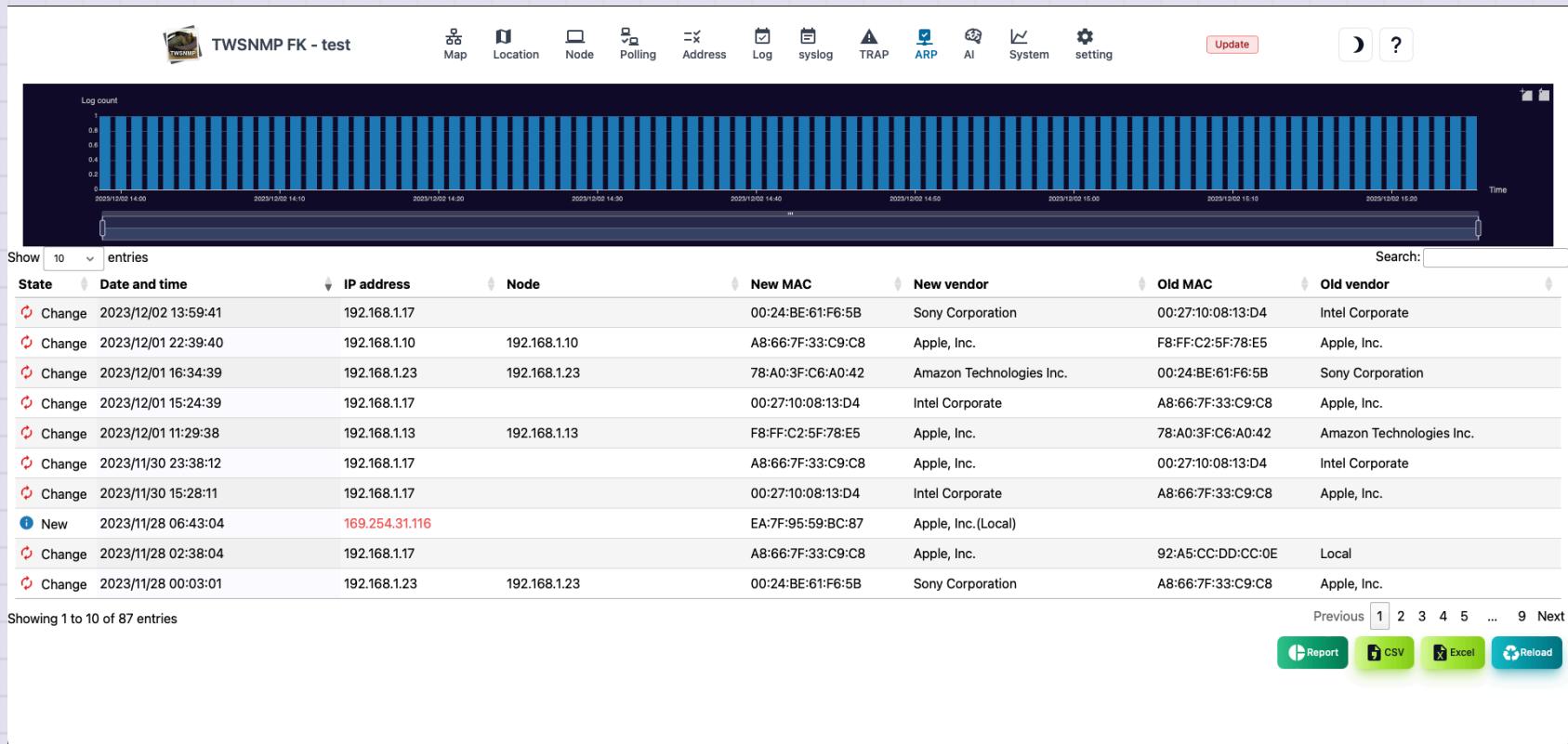
This is a report displayed in the source host, type, and three -dimensional graph of the SNMP Trap receiving log.



# ARP watch log

ARP watch log screen.

At the top, there is a graph showing the number of logs in chronological order.

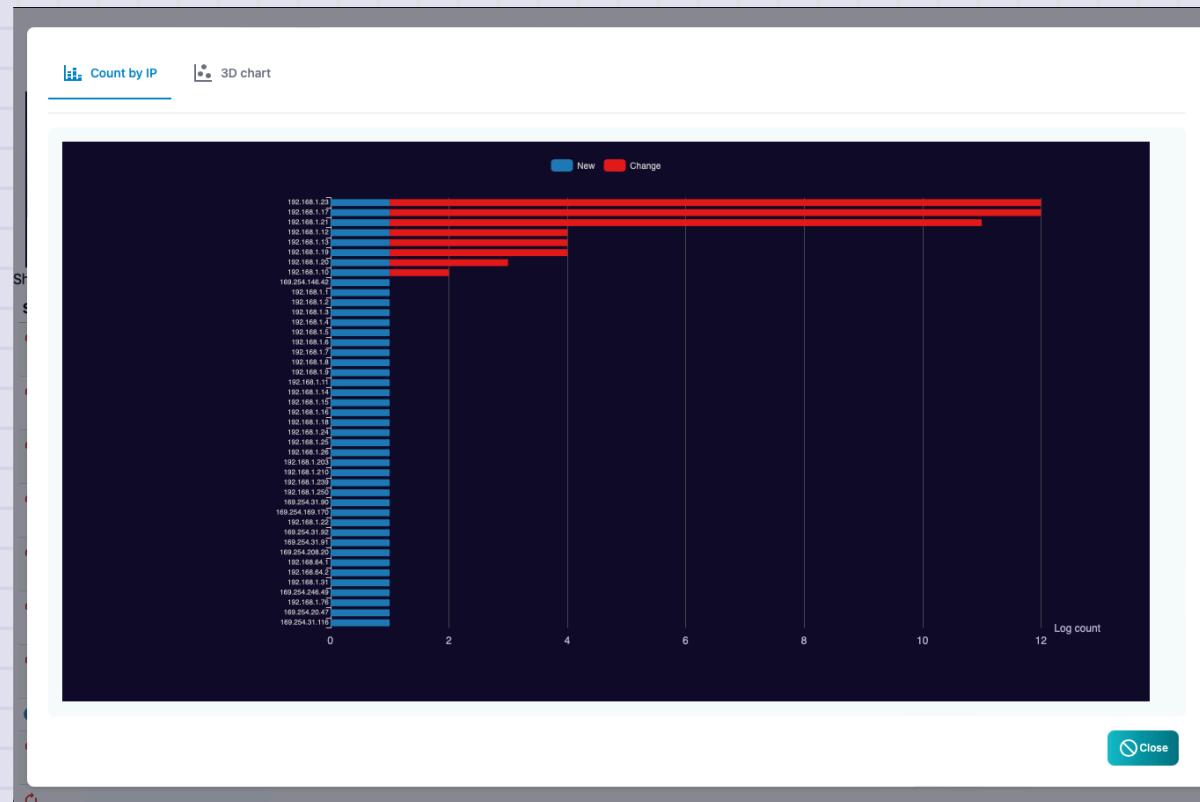


| Items         | Contents                                    |
|---------------|---|
| State         | Log status. Either new or change.           |
| Date and time | The date and time of the log.               |
| IP address    | IP address to log.                          |
| Node          | The name of the node registered on the map. |
| New MAC       | New discovery or MAC address after change.  |
| New vendor    | The vendor name of the new MAC address.     |
| Old MAC       | MAC address before change.                  |
| Old vendor    | This vendor name of the old MAC address.    |

| Items  | Contents   |
|--------|--|
| Report | Displays the ARP watch log analysis report.            |
| CSV    | Export the ARP watch log to the CSV file.              |
| Excel  | Export the ARP watch log to the Excel file.            |
| Reload | Update the list of ARP watch logs to the latest state. |

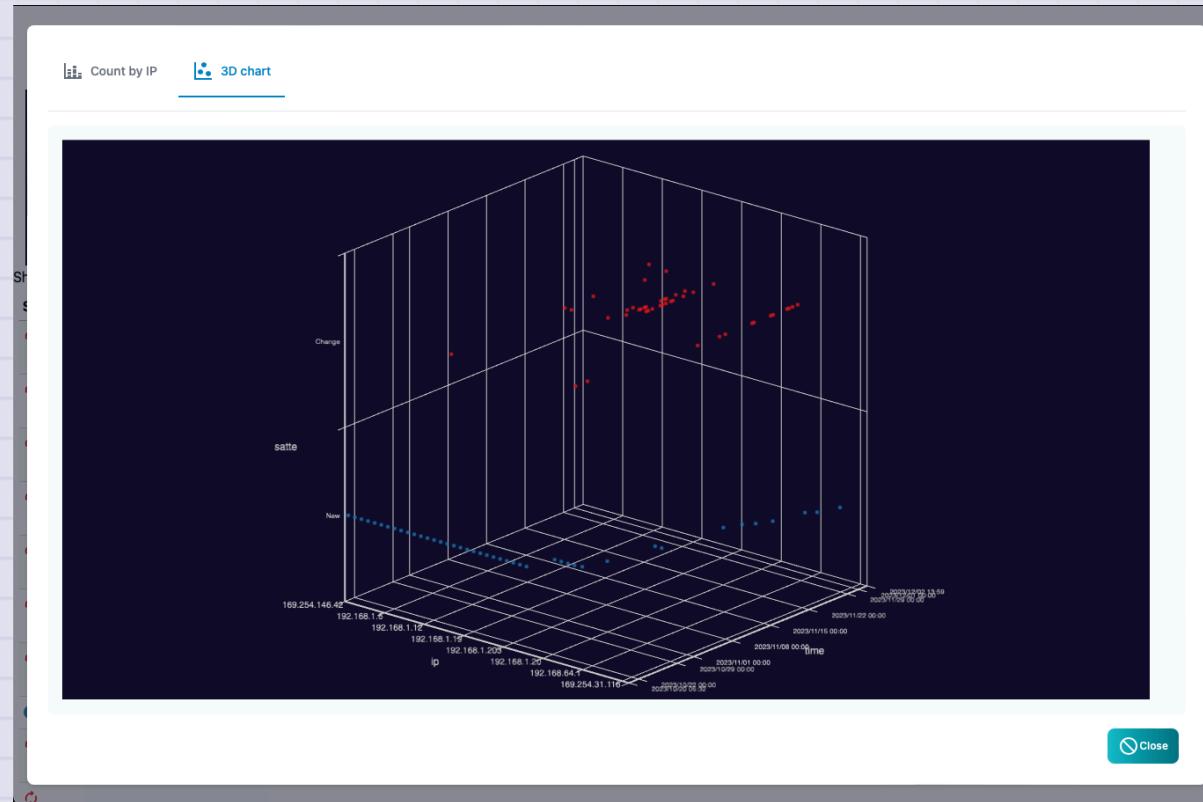
## ARP watch log count by IP address

This is a report of the number of logs by IP address. The IP address with many changes is obvious at a glance.



## ARP watch log count by IP address (3D)

This is a report of ARP watch logs from both IP addresses and time series. The time of new discoveries and changes is obvious at a glance.



# AI analysis

The screen of the AI analysis list. Only the list is displayed in the polling log settings and the analysis is performed.

| TWSNMP FK - test            |    |         |                 |  | Map | Location | Node | Polling | Address | Log | syslog | TRAP  | ARP | AI                  | System | setting | Update   | ? |
|-----------------------------|----|---------|-----------------|--|-----|----------|------|---------|---------|-----|--------|-------|-----|---------------------|--------|---------|--|---|
| Show                        | 10 | entries |                 |  |     |          |      |         |         |     |        |       |     |                     |        |         |  |   |
| Anomaly score               |    |         | Node Name       |  |     |          |      | Polling |         |     |        | Count |     | Last time           |        |         |  |   |
| 50.97                       |    |         | www.twise.co.jp |  |     |          |      | PING監視  |         |     |        | 342   |     | 2023/12/03 05:00:00 |        |         |  |   |
| Showing 1 to 1 of 1 entries |    |         |                 |  |     |          |      |         |         |     |        |       |     |                     |        |         | Previous 1 Next  |   |
|                             |    |         |                 |  |     |          |      |         |         |     |        |       |     |                     |        |         |  Reload |   |

| Items         | Contents  |
|---------------|---|
| anomaly score | <p>A deviation value that indicates the degree of anomaly of AI analysis results.<br/>50 is average. Large values are highly anomaly.</p> |
| Node name     | <p>The name of the node to be analyzed.</p>   |
| Polling       | <p>Polling for AI analysis.</p>   |
| Data count    | <p>The number of data to be analyzed AI. If you are small, the accuracy will be low.</p>  |
| Last time     | <p>The last date and time of AI analysis.</p>   |

| Items  | Contents  |
|--------|---|
| Report | Displays reports on the selected AI analysis results. |
| clear  | Clear the selected AI analysis results.               |
| Reload | Update the AI analysis list to the latest state.      |

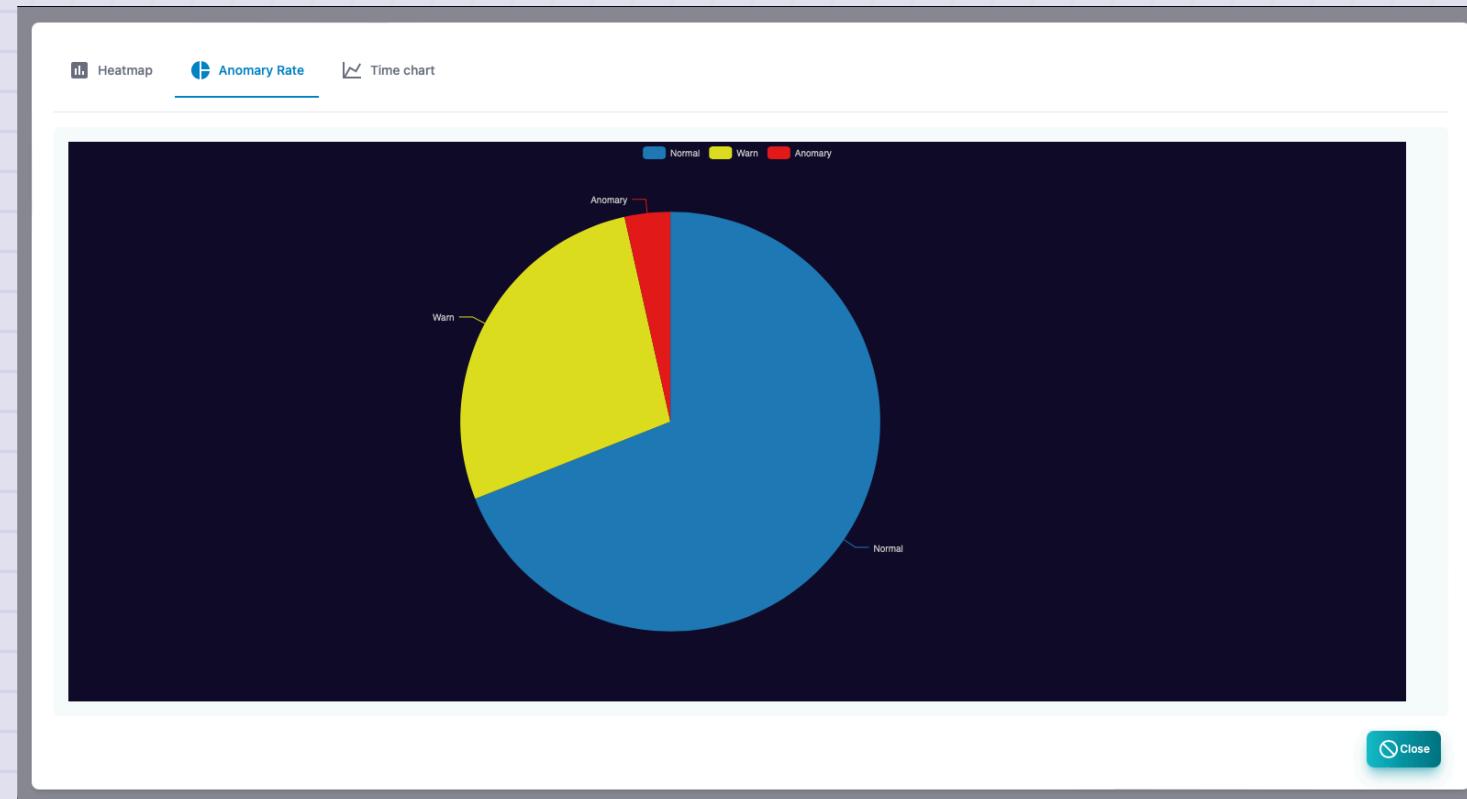
## AI anomaly score heatmap

This is a report showing an anomaly score on a daily heat map. It indicates that the red color is the time when the anomaly has occurred.



## AI anomaly score percentage

The percentage of the anomaly score in the entire period is shown in a circular graph.



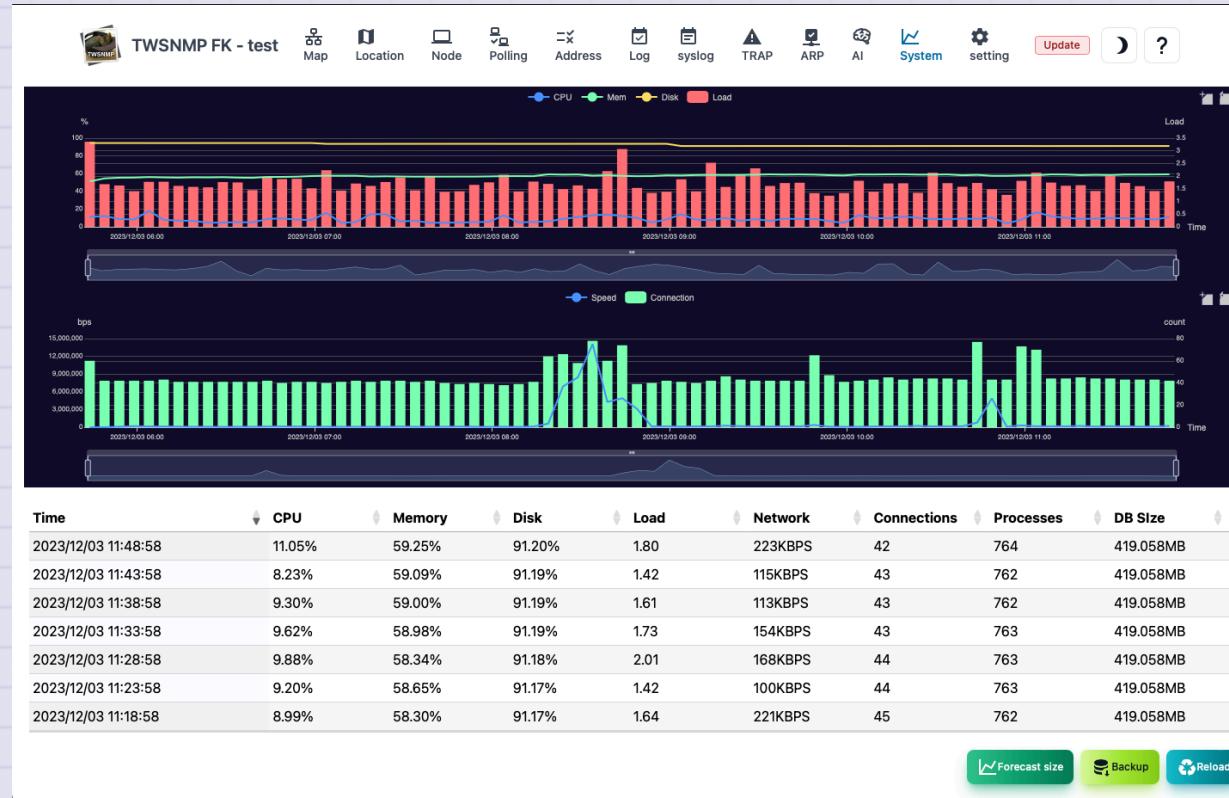
## AI anomaly score time chart

This is a report that displays an anomaly score in chronological order.



# System

System information screen. At the top, there is a graph showing log resources and communication information in a chronological order.

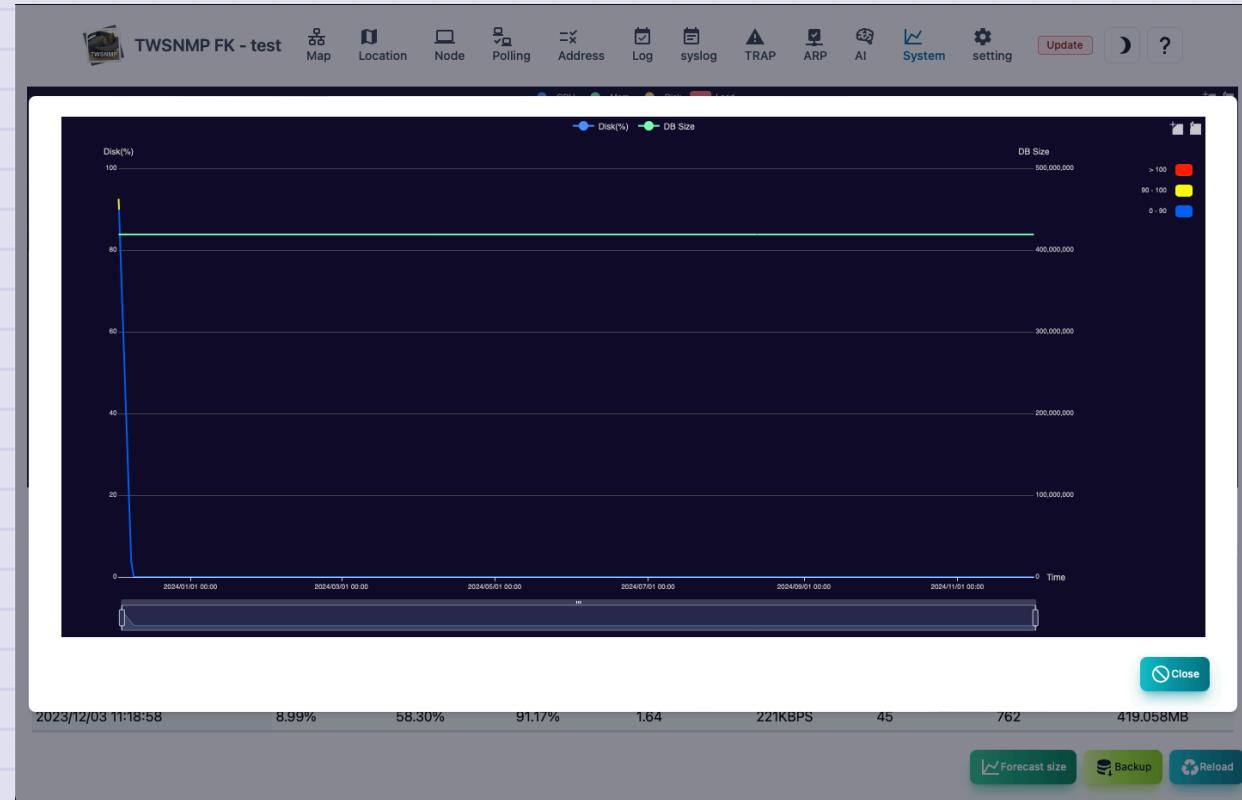


| Items                | Contents   |
|----------------------|--|
| Date and time        | It is the date and time when System information is recorded. |
| CPU                  | CPU usage rate.  |
| Memory               | Memory usage rate.   |
| Disk                 | Data folder is the usage rate of disks.                      |
| Load                 | load.  |
| Communication amount | LAN port communication amount.                               |
| Connection number    | TCP connection number.                                       |
| Process              | Total number of processes.                                   |

| Items           | Contents   |
|-----------------|--|
| Size prediction | Database size and disk usage rate are forecast for one year. |
| Backup          | Get backup.  |
| Reload          | Update System information to the latest state.               |

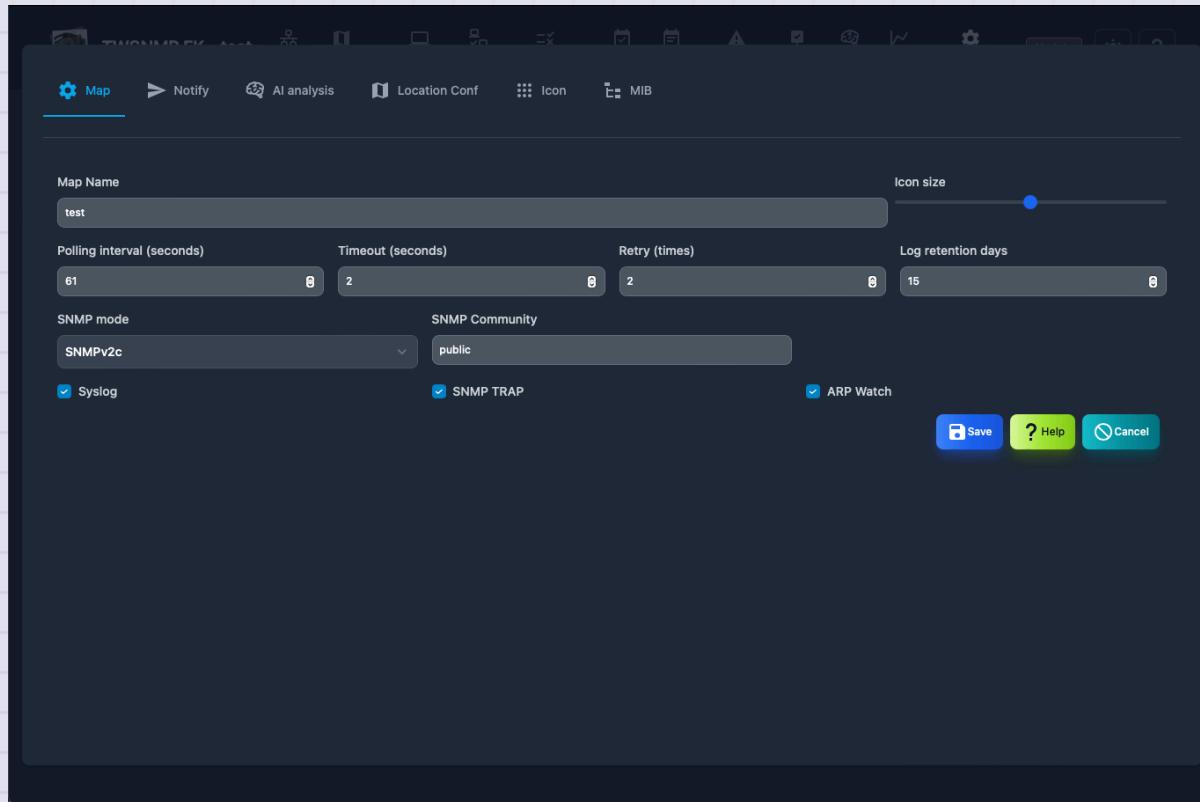
## Size prediction

This is a year forecast for the database size and disk usage rate.



# Map settings

This is the screen to set the management map.



| Items            | Contents   |
|------------------|--|
| Map name         | Map name. It will be displayed in the upper left of the screen.<br>Please give your favorite name. |
| Icon size        | It is the size of the icon to be displayed on the map.   |
| Polling interval | Default polling interval.  |
| Timeout          | Default timeout.   |
| Retry            | Default number of retry times.   |
| Log saving days  | It is the number of days to save the log. The log will be deleted automatically after passing.     |

| Items          | Contents  |
|----------------|---|
| SNMP mode      | SNMP version and type of encryption.(SNMPV1, SNMPv2C, SNMPv3) |
| SNMP Community | Community name for SNMPV1, V2C.                               |
| SNMP user      | User name at SNMPv3.  |
| SNMP password  | Password name for SNMPv3.                                     |
| Syslog         | Receive syslog.   |
| SNMP Trap      | Receive SNMP Trap.  |
| SSH Seerver    | SSH Server  |
| APP Watch      | Enable APP monitoring function.                               |

## When you want to change the receiving port of syslog, SNMP Trap

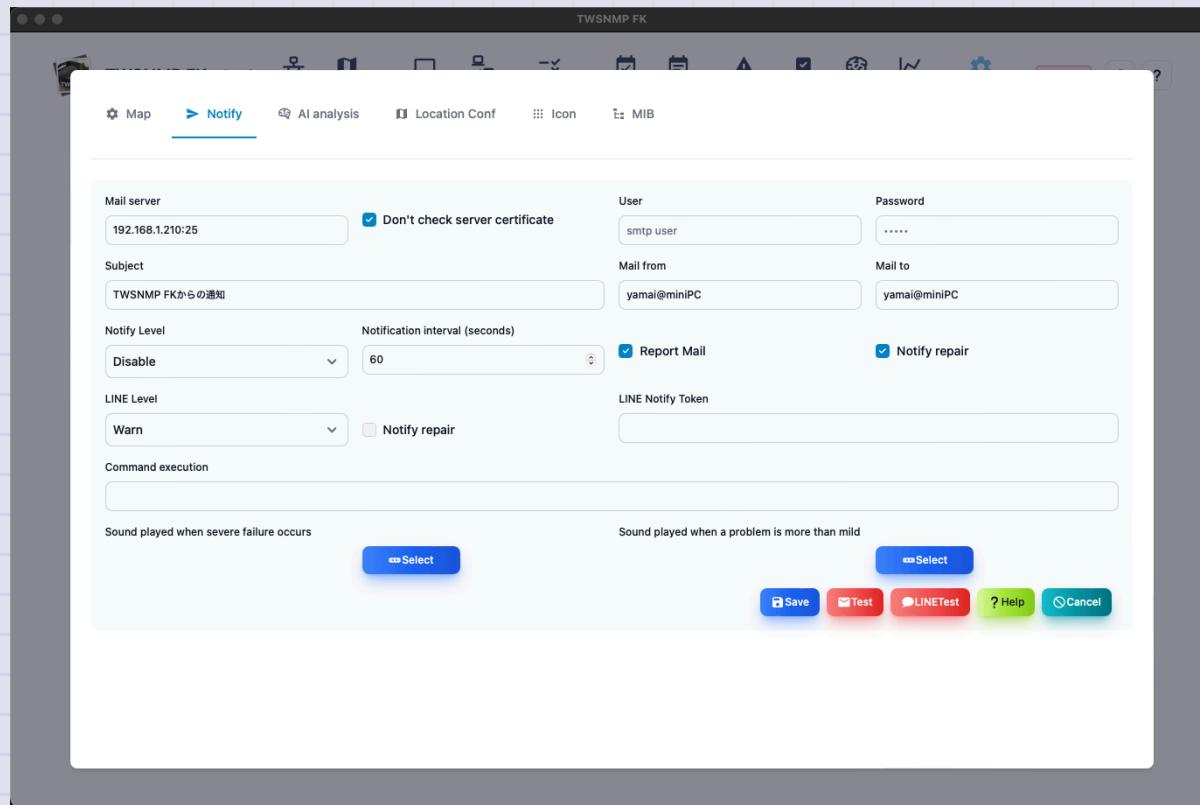
The port number is specified by the startup parameter of the program.

```
-syslogPort int  
    Syslog port (default 514)  
-trapPort int  
    SNMP TRAP port (default 162)  
-sshdPort int  
    SSH Server port (default 2022)
```

\*If SYSLOG or SNMP Trap cannot be received, check the OS and security software firewall settings.

# Notification settings

This is the screen to set the notification.



| Items                               | Contents  |
|-------------------------------------|---|
| Mail server                         | Specify a mail server to send notification emails.<br>Host name or IP address: port number        |
| Do not check the server certificate | Check when the specified mail server is self certificate.   |
| User                                | Set a user ID for authentication.   |
| Password                            | Set the password for authentication   |
| Form                                | Sending source email address.   |
| To                                  | Notification email destination email address.<br>You can specify multiple by separation of comma. |

| Items                 | Contents   |
|-----------------------|--|
| Subject               | Notification email subject.                                    |
| Notification level    | Specify the monitoring level to send disability notifications. |
| Notification interval | Specify the interval to check the notification.                |
| Regular report        | Send a daily report.   |
| repair notification   | We will also send an email when you repair.                    |

| Items                   | Contents   |
|-------------------------|--|
| Line Notification level | Specify the monitoring level to send LINE notifications. |
| Repair notification     | We will also send an email when you repair.              |
| LINE Token              | LINE Notify token  |

| Items                                 | Contents  |
|---------------------------------------|---|
| Command execution                     | <p>Run the command specified in the state parameter when the map changes.</p> <p>\$ Level is in the map.0: Severe, 1: Mild, 2: Note, 3: Normal, -1: Unknown</p> |
| Sounds played during severe disorders | Specify the audio file to play when the state of the map is severe.   |
| Sounds played during mild disability  | Specify the audio file to be played when the state of the map is mild.  |

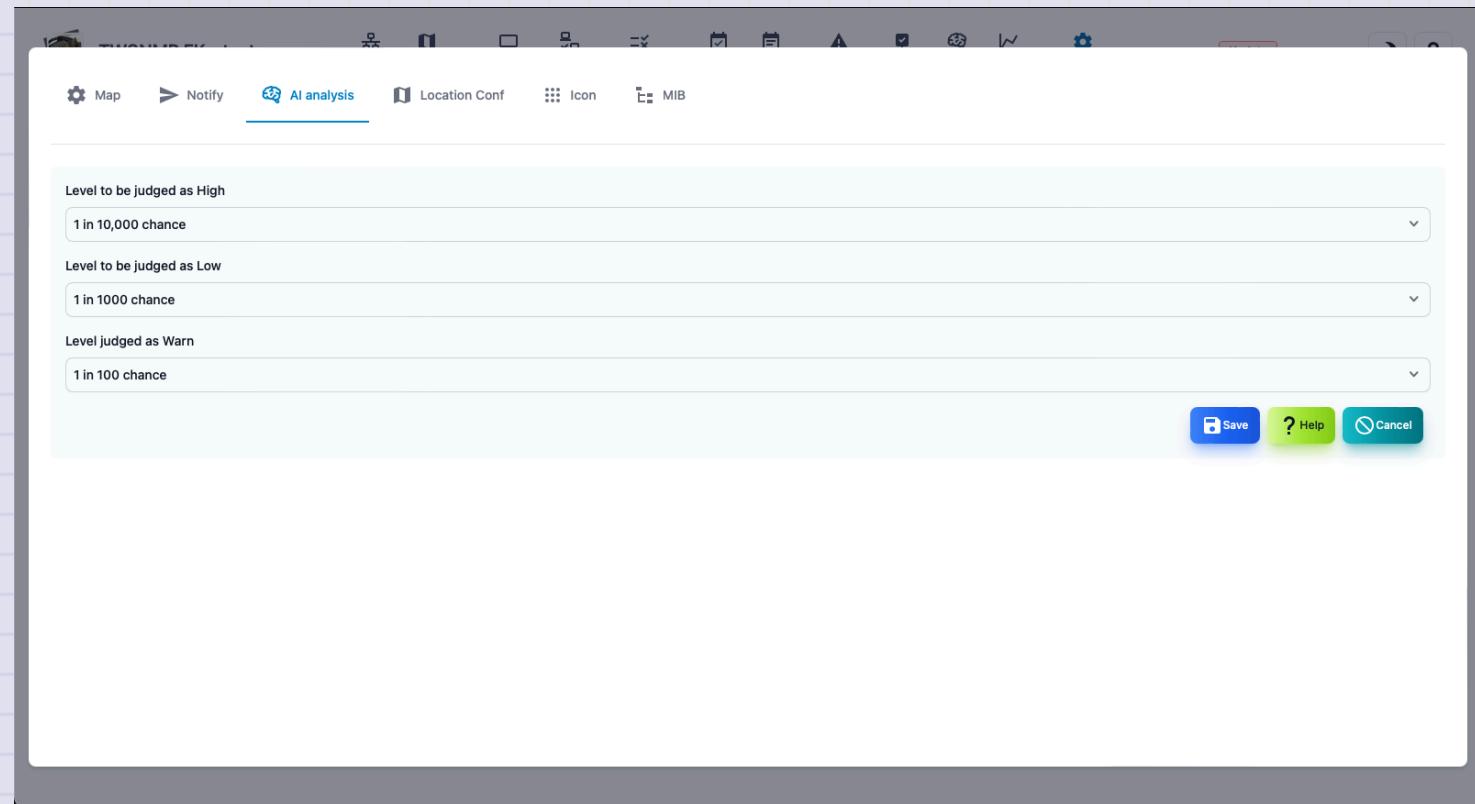
## Email send test

Click the <Test> button to send the test email with the configured content.

Click the <LINE Test> button to send the test LINE message with the configured content.

# AI analysis setting

This is the screen to set AI analysis.



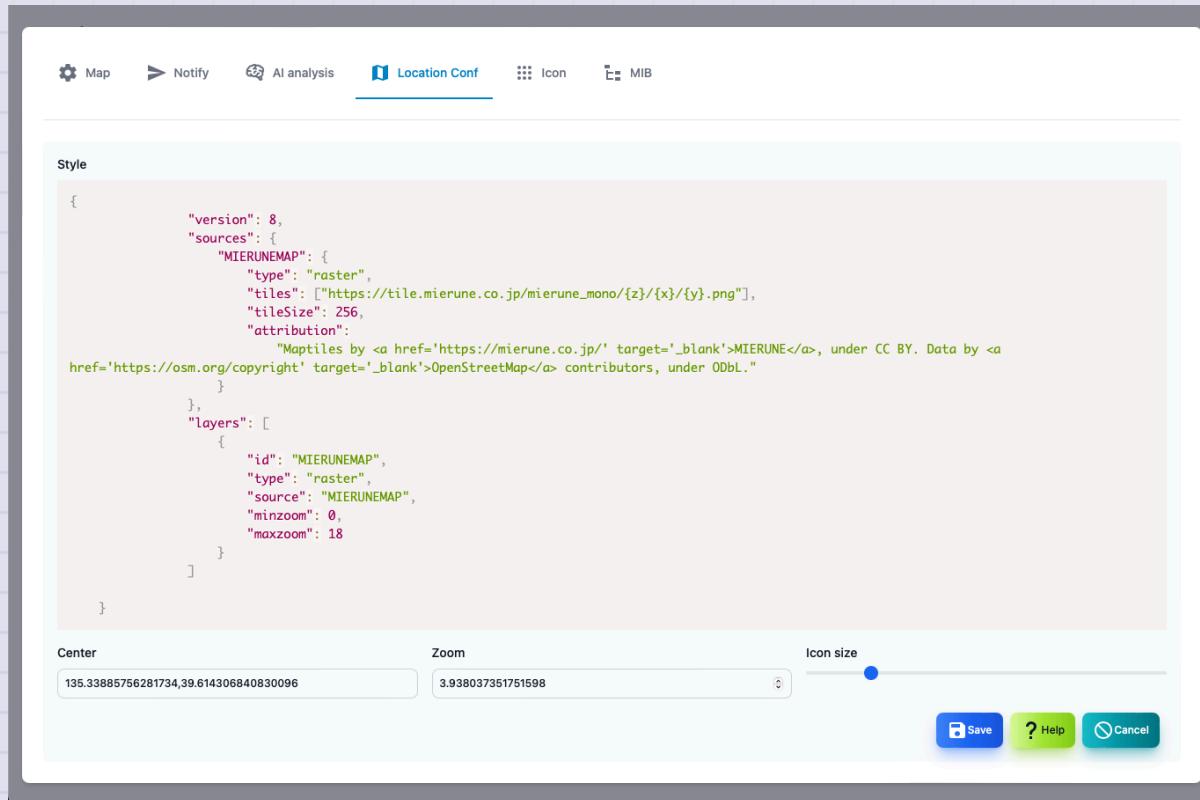
| Items            | Contents  |
|------------------|---|
| Level to be high | Specify the deviation level of AI analysis determined as severe disorder. |
| Level to be low  | Specify the deviation level of AI analysis determined as mild disorder.   |
| Level to be warn | Specify the deviation level of AI analysis determined as a disorder.      |

## About AI analysis

- The AI analysis is implemented by setting the log mode to "AI analysis" in the polling settings.
- An anomaly detection of the numerical data of the polling result in isolation forest.
- The results are set to deviation values.
- The deviation value is familiar to school results. It shows how rare it is.
- So, the disability level setting is an expression of once every 10,000 times.

# Location map settings

This is the screen to set the map.



| Items               | Contents   |
|---------------------|--|
| Style               | Specify the map style.Specify in URL or JSON.  |
| Central coordinates | <p>The central coordinates on the map are in the order of longitude and latitude.<br/>Example: 135.3338576281734, 39.614306840830096</p> |
| Zoom                | Specify the enlargement level of the map.  |
| Icon size           | Specify the size of the icon to be displayed.  |

## About map style

The map is displayed using Maplibre GL JS. The map to be displayed is specified in the style.

You can specify it with URL or JSON. Search for MAPLIBRE GL JS and find something suitable.

## URL example

```
https://tile.openstreetmap.jp/styles/osm-bright-ja/style.json
```

## JSON example

```
{  
    "version": 8,  
    "sources": {  
        "MIERUNEMAP": {  
            "type": "raster",  
            "tiles": ["https://tile.mierune.co.jp/mierune_mono/{z}/{x}/{y}.png"],  
            "tileSize": 256,  
            "attribution":  
                "Maptiles by <a href='https://mierune.co.jp/' target='_blank'>MIERUNE</a>, under CC BY. Data by <a href='https://osm.org/copyright' target='_blank'>OpenStreetMap</a> contributors, under ODbL."  
        }  
    },  
    "layers": [  
        {  
            "id": "MIERUNEMAP",  
            "type": "raster",  
            "source": "MIERUNEMAP",  
            "minzoom": 0,  
            "maxzoom": 18  
        }  
    ]  
}
```

# Icon management

This is a screen that manages the icon.

The screenshot shows a software interface titled "TWSNMP FK". The top navigation bar includes links for Map, Notify, AI analysis, Location Conf, Icon (which is underlined, indicating it's the active tab), and MIB. Below the navigation is a search bar with a dropdown set to "10 entries" and a "Search:" input field. The main content area displays a table with one row of data:

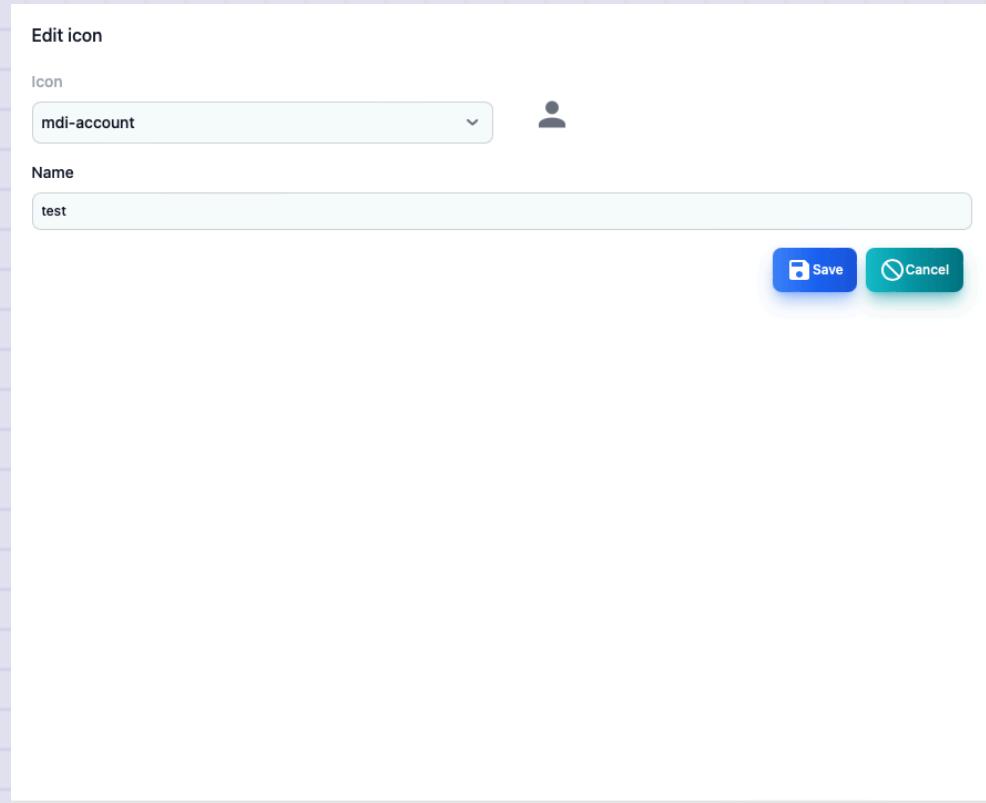
| Icon | Name | Code   |
|------|------|--------|
|      | test | 983044 |

Below the table, a message states "Showing 1 to 1 of 1 entries 1 row selected". At the bottom of the screen are several action buttons: "+ Add" (blue), "Edit" (blue), "Delete" (red), "? Help" (green), and "Close" (teal).

| Items | Contents                                      |
|-------|---|
| Icon  | It is an image of an icon.                    |
| Name  | Name when choosing. You can attach it freely. |
| Code  | icon code.                                    |

| Button | Contents                            |
|--------|-------------------------------------|
| Added  | Add a new icon.                     |
| Edit   | Edit the name of the selected icon. |
| Delete | Delete the selected icon.           |
| Help   | Display this help.                  |
| Close  | Close the setting screen.           |

## Icon editing screen



| Items | Contents  |
|-------|---|
| Icon  | Select an icon. The name of the web font of the MDI icon. |
| Name  | Give the icon your favorite name.                         |

# MIB management

This is a screen that manages SNMP MIB.

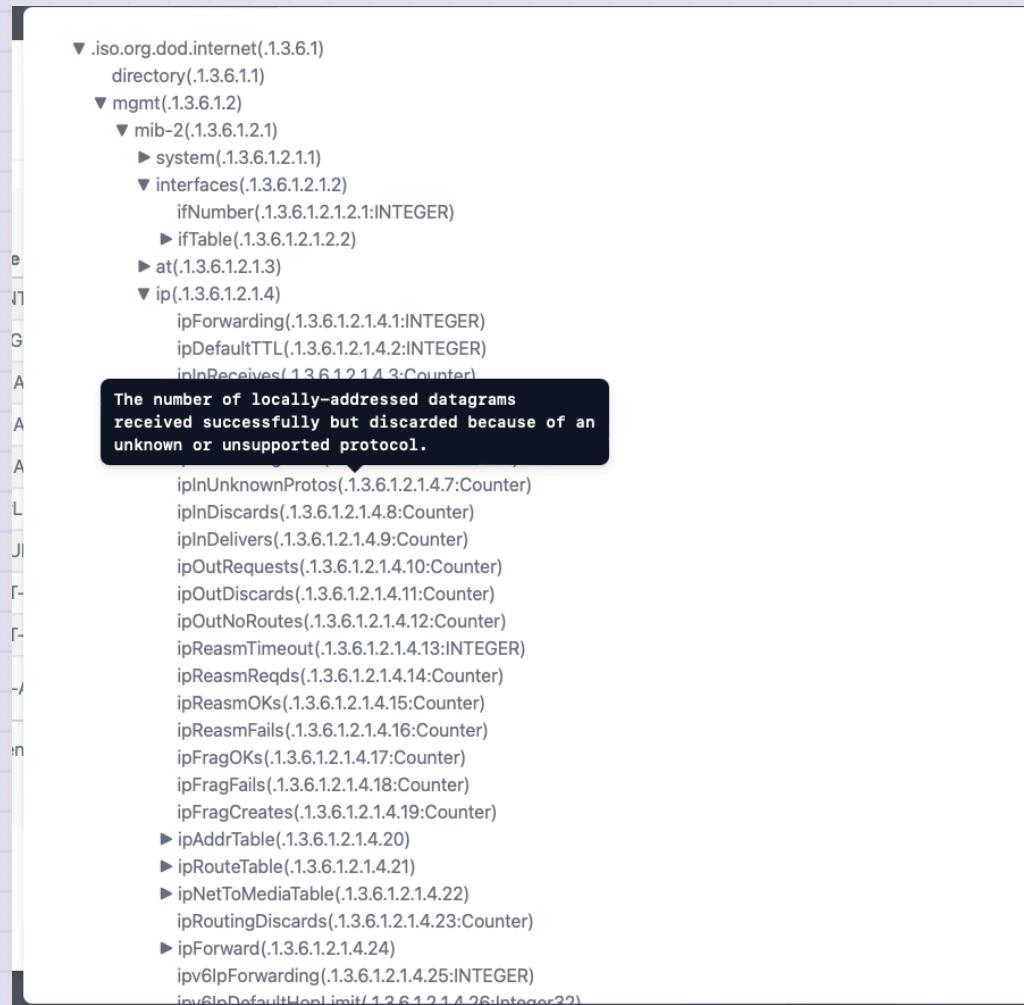
The screenshot shows the TWSNMP FK application window with the 'MIB' tab selected in the top navigation bar. The main area displays a table of MIB entries. The columns are labeled 'Type', 'Name', 'File', and 'Error'. There are 124 entries listed, showing various MIB names like AGENTX-MIB, BRIDGE-MIB, and IANA-ADDRESS-FAMILY-NUMBERS-MIB, along with their corresponding file paths and a status column. A search bar and pagination controls are also visible at the bottom of the table.

| Type | Name                            | File  | Error |
|------|---------------------------------|---|-------|
| Int  | AGENTX-MIB                      | conf/mibs/AGENTX-MIB.txt                      |       |
| Int  | BRIDGE-MIB                      | conf/mibs/BRIDGE-MIB.txt                      |       |
| Int  | DISMAN-EVENT-MIB                | conf/mibs/DISMAN-EVENT-MIB.txt                |       |
| Int  | DISMAN-SCHEDULE-MIB             | conf/mibs/DISMAN-SCHEDULE-MIB.txt             |       |
| Int  | DISMAN-SCRIPT-MIB               | conf/mibs/DISMAN-SCRIPT-MIB.txt               |       |
| Int  | EtherLike-MIB                   | conf/mibs/EtherLike-MIB.txt                   |       |
| Int  | HCNUM-TC                        | conf/mibs/HCNUM-TC.txt                        |       |
| Int  | HOST-RESOURCES-MIB              | conf/mibs/HOST-RESOURCES-MIB.txt              |       |
| Int  | HOST-RESOURCES-TYPES            | conf/mibs/HOST-RESOURCES-TYPES.txt            |       |
| Int  | IANA-ADDRESS-FAMILY-NUMBERS-MIB | conf/mibs/IANA-ADDRESS-FAMILY-NUMBERS-MIB.txt |       |

| Items | Contents                              |
|-------|---------------------------------------|
| Type  | It is a type of built -in or reading. |
| Name  | MIB module name.                      |
| File  | It is a read file name.               |
| Error | An error when you read it.            |

| Button   | Contents                  |
|----------|---------------------------|
| MIB Tree | Displays MIB tree.        |
| Help     | Display this help.        |
| Close    | Close the setting screen. |

## MIB tree screen



## File in the datastore

You can customize it by saving the following files in the data folder.

| File                   | Contents  |
|------------------------|---|
| TWSNMPFK.db            | Database file. If it does not exist, it will be created automatically.                                |
| Services.txt           | This is a file to use the service name conversion.(Optional)  |
| Mac-vendors-export.csv | Mac A database that indicates the relationship between the MAC address and the vendor name.(Optional) |
| Polling.json           | Polling settings (optional)   |

# Usage

Usage of twsnmpfk:

- datastore string  
Path to data dtore directory
- kiosk  
Kiosk mode(frameless and full screen)
- lang string  
Language(en|jp)
- lock string  
Disable edit map and lock page(map or loc)
- maxDispLog int  
Max log size to diplay (default 10000)
- ping string  
ping mode icmp or udp
- syslogPort int  
Syslog port (default 514)
- trapPort int  
SNMP TRAP port (default 162)
- sshdPort int  
SSH Server port (default 2022)

| Parameters          | Description                            |
|---------------------|--|
| dataStore           | Datstore Pass                          |
| kiosk               | Kiosk mode (frameless, full screen)    |
| lock <page>         | disable edit map and show fixed page   |
| Maxdisplog <number> | Maximum number of logs (default 10000) |
| ping <Mode>         | Ping operation mode (ICMP or UDP)      |
| syslogPort <PORT>   | Syslog receiving port (default 514)    |
| trapPort <Port>     | SNMP TRAP Reception port (Default 162) |
| sshdPort <Port>     | SSH server port (Default 162)          |