

# PNT 360

Monitoring & Configuration Management for  
Timing & Synchronization Systems

## User Manual

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# 1. Introduction

PNT 360 is Safran Navigation & Timing's Monitoring and Configuration Management Solution. It provides insight into your timing system and allows you to monitor its functionality and performance by giving you access to metrics related to NTP, PTP, GNSS, System, Network, Oscillator, Timing, White Rabbit, and more. It also provides a centralized configuration management function so you can manage your devices from one location.

## 2. Setup

### 2.1. Prerequisites

#### Network Requirements

SNMP	161/UDP
Log Aggregation Port	514/UDP

#### Server Requirements

OS	Ubuntu 20.04 or later.
CPU	Intel Pentium 4 processor SSE2 capable.
Memory	4GB RAM minimum (8GB RAM recommended)
Storage	3 GB retention, per device, per year for 1 year Example: 10 devices would require 30 GB/year total storage

### 2.2. Installation

Open a terminal and navigate to the directory with the install file. Then run the following:

```
sudo apt install ./pnt360_bundle_<xxxxxxx>.deb
```

During installation, you will be prompted to for certificate information, pressing the **"Enter"** will skip each of these prompts:

```
-----
You are about to be asked to enter information that will be incorporated
into your certificate request.
What you are about to enter is what is called a Distinguished Name or a DN.
There are quite a few fields but you can leave some blank
For some fields there will be a default value,
If you enter '.', the field will be left blank.
-----
Country Name (2 letter code) [AU]:
State or Province Name (full name) [Some-State]:
Locality Name (eg, city) []:
Organization Name (eg, company) [Internet Widgits Pty Ltd]:
Organizational Unit Name (eg, section) []:
Common Name (e.g. server FQDN or YOUR name) []:
Email Address []:

Please enter the following 'extra' attributes
to be sent with your certificate request
A challenge password []:
An optional company name []:
```

After this, the installer will generate a self-signed certificate.

#### 2.2.1. Initial Admin User Creation

If no prior users exist, you will be prompted to create an initial admin user.

Password requirements:

- Between 12 and 64 characters.
- Must include at least 1 uppercase letter, 1 lowercase letter, 1 number, and 1 special character.

```
#####
#                               #
#   INITIAL ADMIN USER SETUP   #
#                               #
#####
No prior users detected, please enter initial admin user credentials.
Password must be between 12 and 64 characters and contain at least one of each of the following: Uppercase letter, Lowercase letter, Number, Special Character
Username: admin
Password (hidden):
Confirm Password (hidden):
```

After entering and confirming the password, the user account will be created, and you can log into PNT 360.

### 2.2.2. Upgrading

To upgrade PNT 360 to a new version, open a terminal and navigate to the directory with the install file. Then run the following:

```
sudo apt install ./pnt360_bundle_<xxxxxxx>.deb
```

**Note:** to install your own SSL certificate, see the [Appendix](#).

After the installation is complete you will be able to reach the UI at [https://<pnt360\\_Server\\_IPv4>](https://<pnt360_Server_IPv4>).

In this document, the text <pnt360\_Server\_IPv4> should be replaced by the actual IPv4 address (or hostname) of the server running the PNT 360 monitoring application.

### 2.2.3. Uninstalling

To uninstall PNT 360, run:

```
sudo apt remove pnt360
```

## 3. Getting Started

### 3.1. SecureSync User Management

**IMPORTANT:** for both SecureSync 1200 and 2400: You must create a PNT 360-specific User on each SecureSync that will connect to the monitoring application to avoid conflicts with accessing the SecureSync's Web UI.

- On the SecureSync, navigate to **Management > Authentication** and click the +
- Enter the credentials you will use for PNT 360 to monitor your SecureSync
- Select the Group "Admin" and click Submit

Figure 1: User configuration on SecureSync device

### 3.2. White Rabbit Zen User Management

It is recommended to use the userSNMP user for PNT 360 SNMP data. You can modify this user’s access view and mode, the auth and private key, as well as the password.

- On the WRZ Web UI, Navigate to Administration > SNMPV3
- Enter in the credentials you wish to use and click change password
- You can now use this account in PNT 360

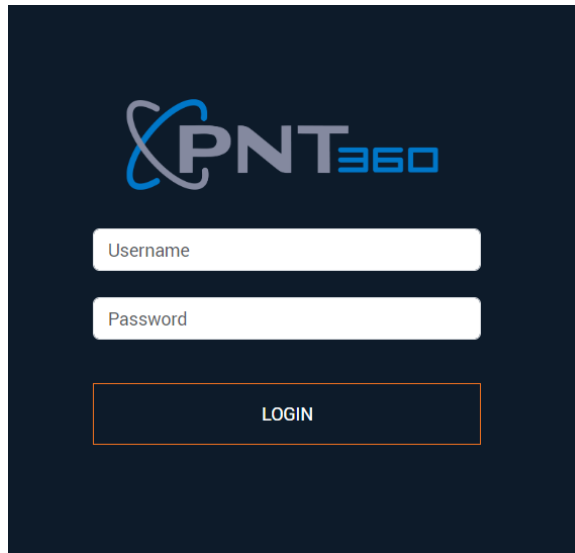
Figure 2: User configuration on WRZ device

### 3.3. Configuring PNT 360

#### 3.3.1. Logging In

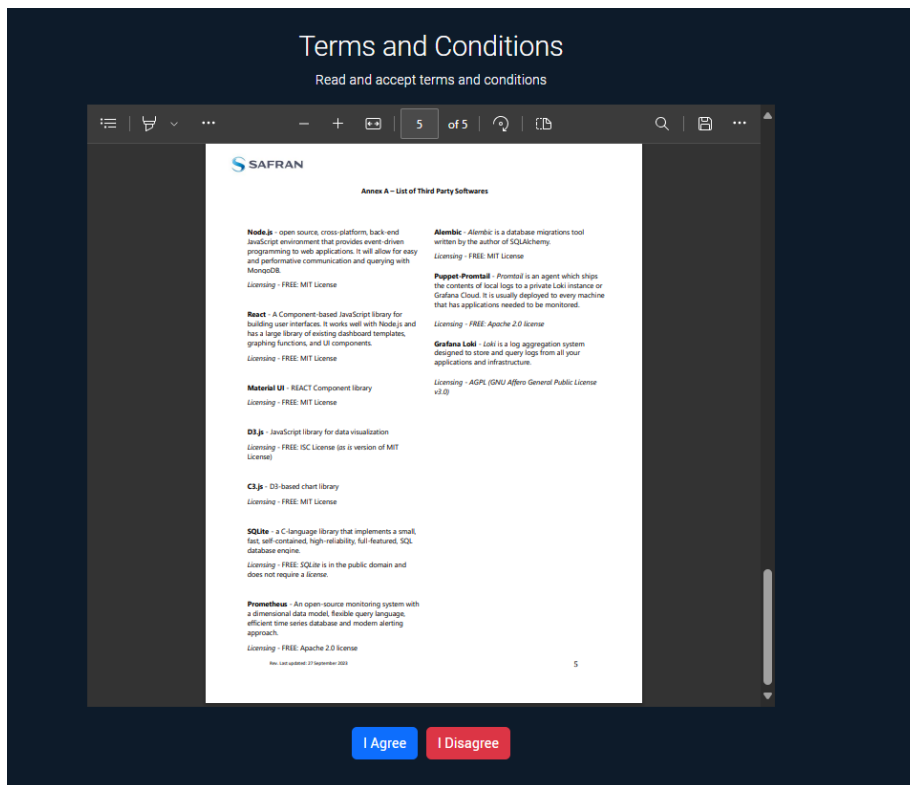
Once PNT 360 is successfully installed, you should be able to reach the login screen in your local browser by navigating to **https://<pnt360\_Server\_IPv4>**.

**Note:** In this document, the text <pnt360\_Server\_IPv4> should be replaced by the actual IPv4 address (or hostname) of the server running the PNT 360 monitoring application.

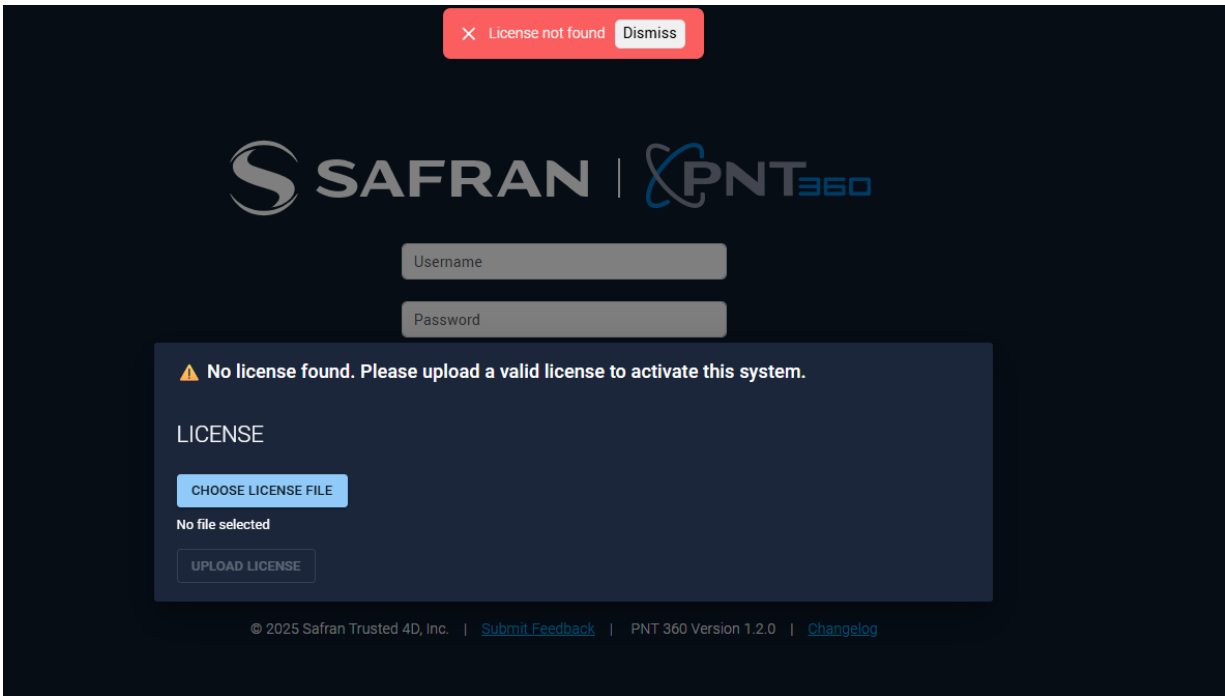


##### 3.3.1.1. First-Time Login Procedure

If logging in for the first time, you will be prompted to read and accept the EULA.



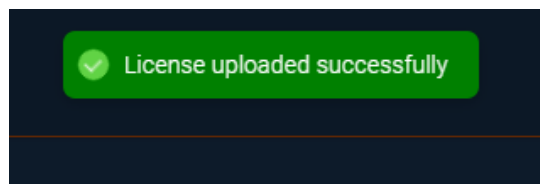
Next, you will be prompted with the following message:



To upload a valid license:

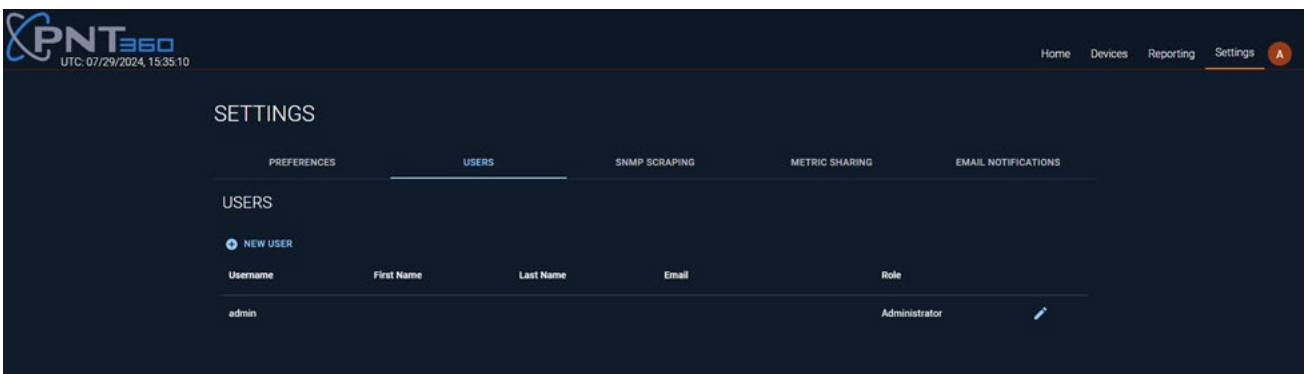
1. Select “**CHOOSE LICENSE FILE**”
2. Select the license file provided by Safran with the installation package
3. Select “**UPLOAD LICENSE**”

Once the license is validated, full access to the application will be granted.



### 3.3.2. Update Password

In the **Settings** tab, select Users.



Click the edit icon and enter a new password:

**Profile** [X]

First Name

Last name

Username  
admin

Role  
Administrator

Email

Password  
Password must be at least 8 characters

SAVE

### 3.3.3. Configuration

Now you must configure for monitoring before you can proceed with creating dashboards.

In the Settings page, select the Preferences tab and enter the Syslog Server IP address.

**NOTE:** this should be the IPv4 address of the server that you've installed PNT 360 on.

PNT<sub>360</sub>  
UTC: 07/29/2024, 15:36:14

Home Devices Reporting Settings

SETTINGS

PREFERENCES USERS SNMP SCRAPING METRIC SHARING EMAIL NOTIFICATIONS

PREFERENCES

Display Mode  
Dark Mode

Default Language  
English

Syslog Server IP Address  
10.15.234.14

APPLY

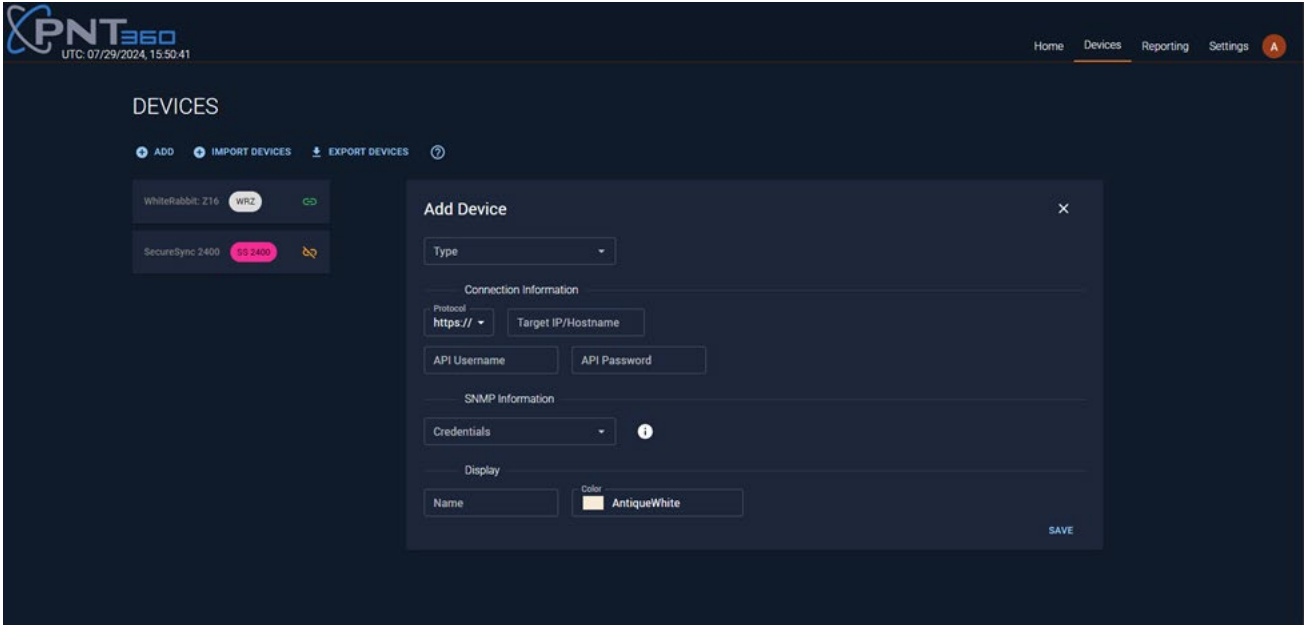
Click **Apply**.

## 3.4. Adding Devices

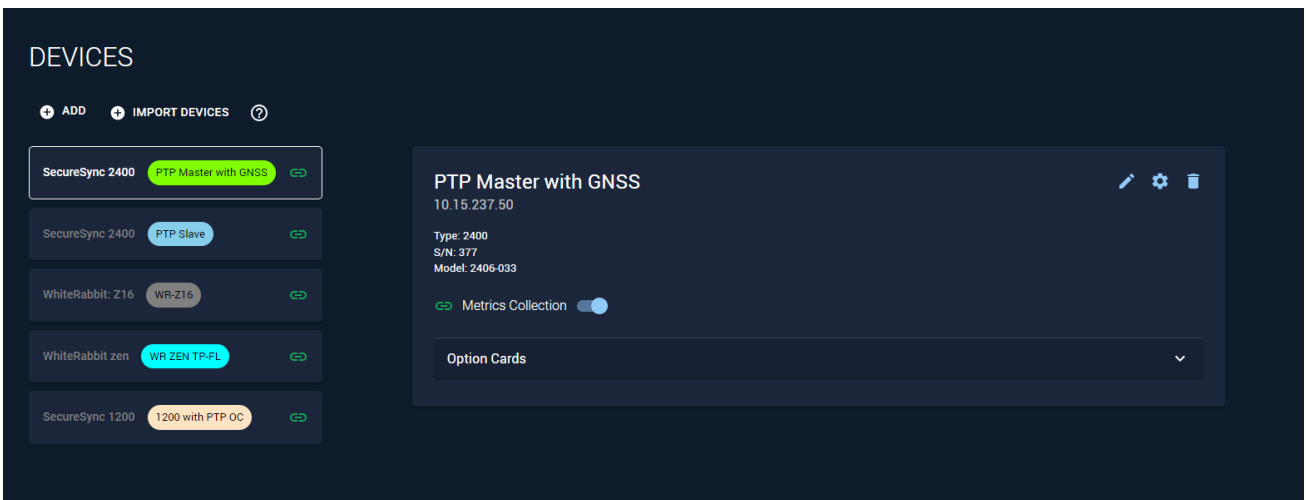
### 3.4.1. Single Device

Navigate to the Devices tab in the header and click ADD. Enter all the information for that device, then click SAVE.

For SecureSync, the API Username and API Password for each device is the credentials of the user created in [SecureSync User Management](#). For White Rabbit, the API Username is “root”, and the API Password is the password for the “root” user.

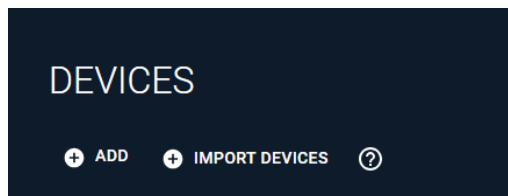


You should now see the device in the Devices list.

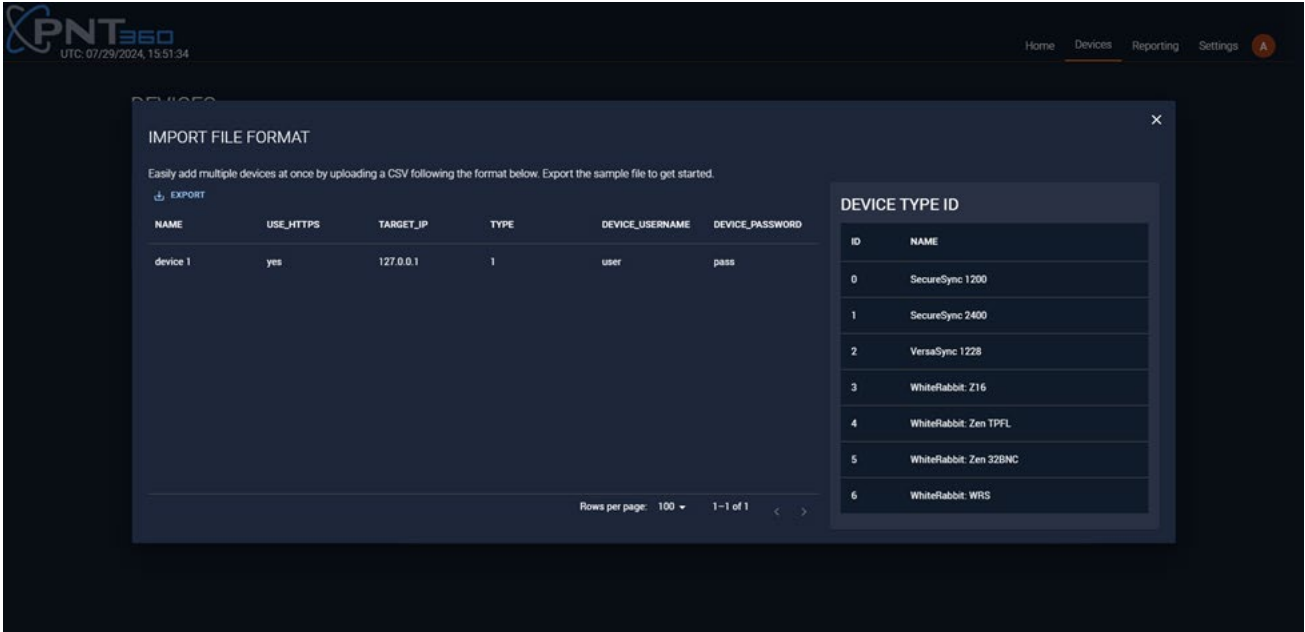


### 3.4.2. Import devices

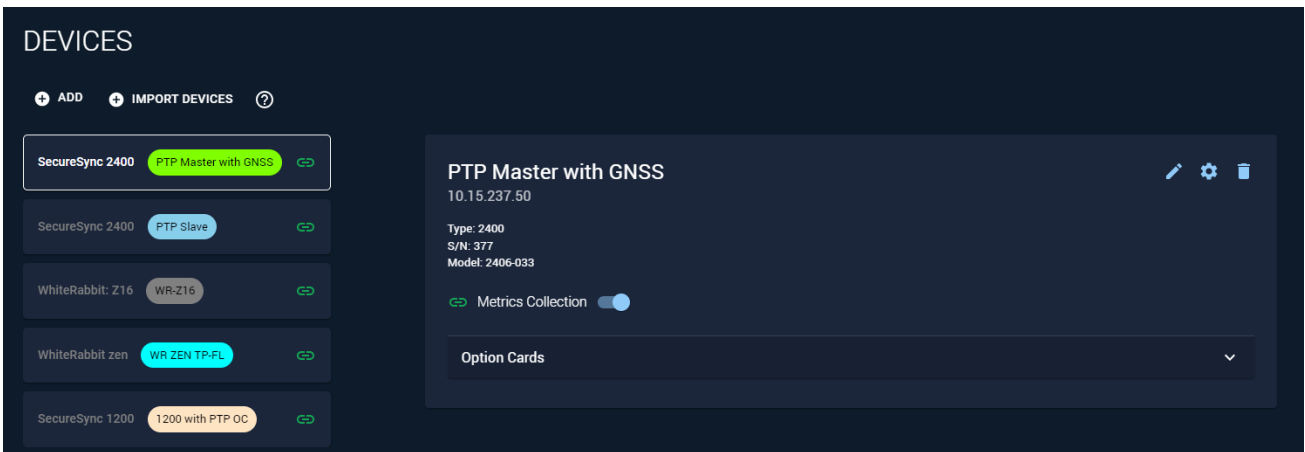
You can import a list of devices from a CSV form. To view the expected file format, Click the ? icon on the Devices page.



You will see the file format and the option to export a sample file to get started.



Enter the devices you wish to monitor and then upload this file using the Import Devices button. You will see all the devices listed in the Devices page. Duplicate devices will not be added.



### 3.5. Data Collection

There are two ways that the PNT 360 application gets data for monitoring:

- Accessing the device's REST API
- SNMP

You can see the data collection status through the indicator under Metrics Collection. If either the REST or SNMP metrics collection requires attention, a warning indicator will appear.

Each device must be configured to expose the SNMP data specifically for PNT 360 use. For SecureSync devices, enabling metrics collection will also configure the device to expose SNMP data using the credentials specified in **Settings > SNMP Scraping**.

For White Rabbit devices, the credentials in **Settings > SNMP Scraping** must match the ones set in [White Rabbit Zen User Management](#).

**Note:** Some White Rabbit metrics (most notably Offset from Master) require enabling Expert metrics inside the White Rabbit device. To do this:

- Access the CLI of the device, either through SSH or a serial connection
- Run the command `gpa_ctrl -s misc snmp/show_experts 1`
- Reboot the device

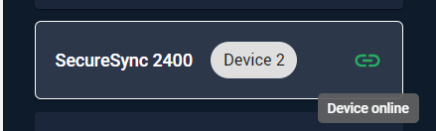
Once these credentials are configured, you can toggle the Metrics Collection switch to ON for each device in the devices list to begin collecting metrics. Please allow a couple minutes for scraping to begin and the Metrics Collection indicator to turn green.

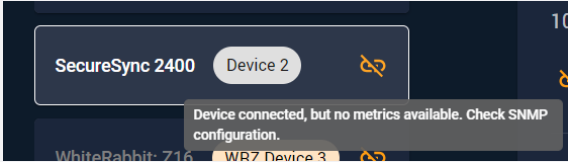
### 3.5.1. Monitoring Status Indicator

The data collection status can be seen through the Monitoring Status indicator. This indicator displays whether the application is currently able to gather metrics from the device.

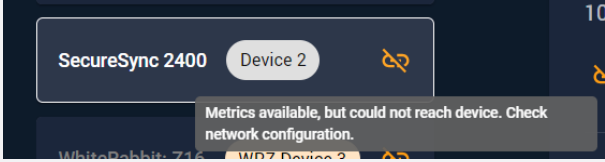
This indicator appears next to each device on the Devices page, as well as in the “Monitoring Status” dashboard chart.

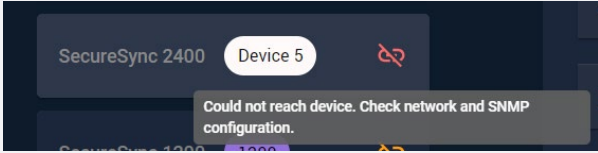
The metrics collection indicator can have the following states:

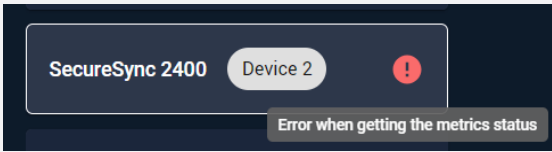
<b>Status</b>	Green (solid link) 
<b>Explanation</b>	Metrics collection for the device is functioning normally. The application has received new SNMP metrics from the device within the last minute, and the device is currently reachable through its REST API.
<b>Resolution</b>	N/A

<b>Status</b>	Yellow (broken link), “device connected, but no metrics available” 
<b>Explanation</b>	The device is currently reachable through its REST API, but the application has not received new SNMP metrics from the device within the last minute.  This status may occasionally appear in normal operation: <ul style="list-style-type: none"> <li>When metrics collection has recently been turned on and two minutes has not yet elapsed</li> <li>Due to intermittent network issues</li> </ul> If this status persists, and metrics do not appear on dashboard charts, then follow the below resolutions.
<b>Resolution</b>	<p><b>Resolution 1</b> If metrics collection is disabled, press the toggle to enable metrics collection. The indicator will take several minutes to update to Green, after which metrics should be visible for the device on the dashboard.</p> <p><b>Resolution 2</b> SNMP may not be configured correctly on the device or in the application. The credentials configured on the device for SNMP (<i>in the app, see Devices -&gt; (click your device) -&gt; Configuration Management -&gt; SNMP</i>) must match the ones that the application is trying to use for that device (<i>in the app, see Devices -&gt; (click your device) -&gt; Edit -&gt; SNMP Information</i>). For SecureSync products, the device will be automatically configured with the given SNMP credentials when metrics collection is enabled, but for other products this must be done manually.</p> <p><b>Resolution 3</b></p>

The network may be configured to block SNMP traffic, ensure port 161 on the device is reachable. Use an external SNMP tool like snmpwalk to verify that metrics are collectable from the device and that the community or v3 credentials are correct.

<b>Status</b>	Yellow (broken link), “metrics available, but could not reach device” 
<b>Explanation</b>	The device is not reachable through its REST API, but the application has received new SNMP metrics from the device within the last minute.
<b>Resolution</b>	<p><b>Resolution 1</b> The username or password on the device may have changed; log in to the device using its Web UI to confirm the credentials. The credentials that the monitoring application is using to log in to the device can be changed by editing the device on the devices page.</p> <p><b>Resolution 2</b> The network may be configured to block traffic from the REST API, or the REST API may be disabled on the device. Ensure the port that the API is hosted on is reachable. Use the product’s API documentation to log in (with postman, curl, or other REST API tool) and verify that the API is functioning normally.</p>

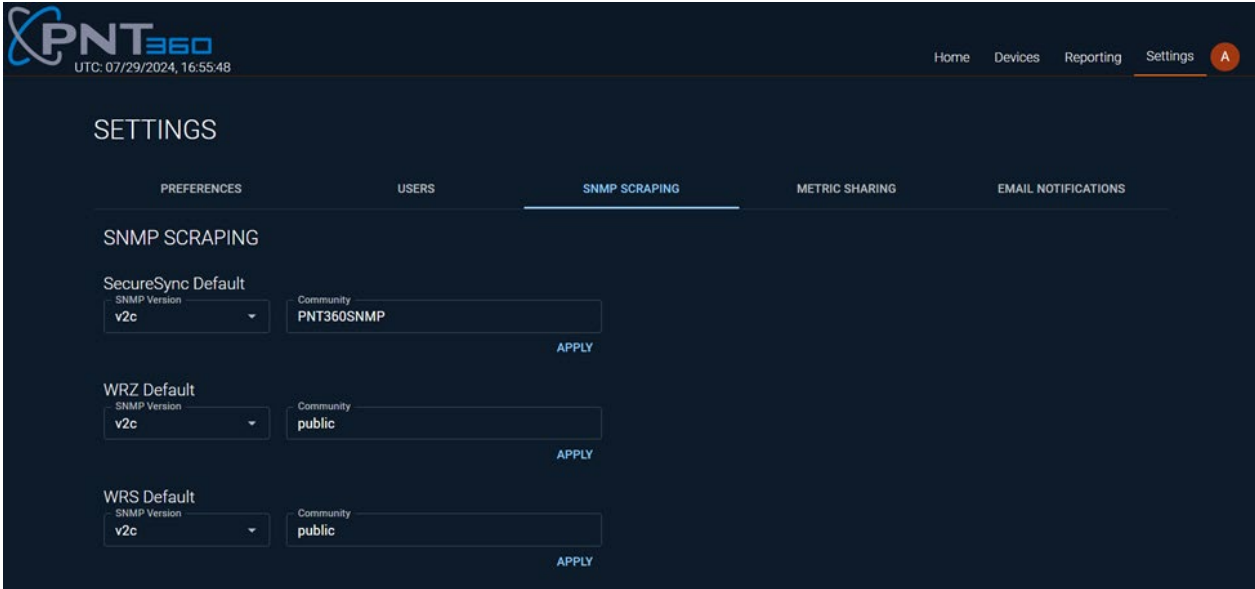
<b>Status</b>	Red (broken link), “could not reach device” 
<b>Explanation</b>	The device is not reachable through its REST API, and the application has not received new SNMP metrics from the device within the last minute.
<b>Resolution</b>	Make sure the device is powered on, connected to the network, and has been added at the correct IP address or hostname. Follow the above resolutions for the Yellow (broken link) statuses to troubleshoot the issue.

<b>Status</b>	Error 
<b>Explanation</b>	The application server could not be reached or encountered an internal error.
<b>Resolution</b>	Close the tab, re-open it, and log back in. If the problem persists, please contact support.

### 3.5.2. SNMP Global Configuration

You can configure SNMP Scraping for all devices in the PNT 360 settings.

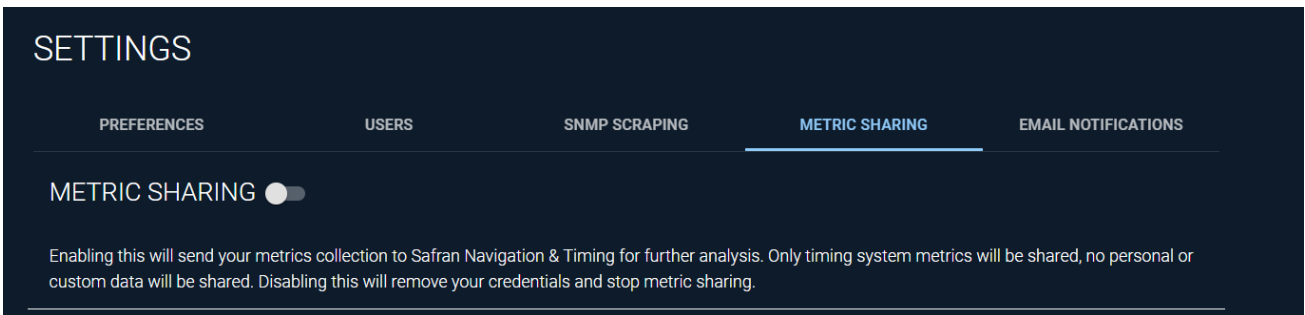
Navigate to **Settings > SNMP Scraping**



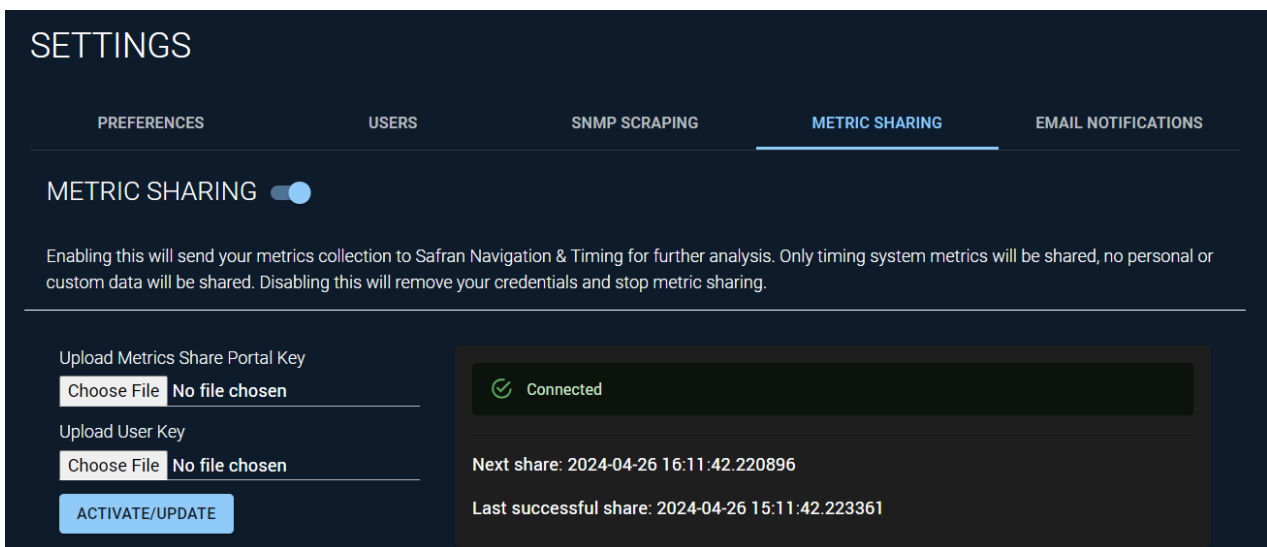
### 3.5.3. Metric Sharing

You can share metrics with Safran Navigation & Timing for analysis purposes. Only device metrics are transmitted; all identifiable information (company name, IP addresses, etc.) are obfuscated prior to data transfer. You will be given a portal key and a user key with your installation package of PNT 360. These keys will be specific to your company and not used by anyone else.

This feature is configurable. Navigate to Settings then the Metric Sharing tab.



Toggle Metric Sharing on.



Upload your Portal key and user key and select Activate.

### 3.5.4. View Available Metrics

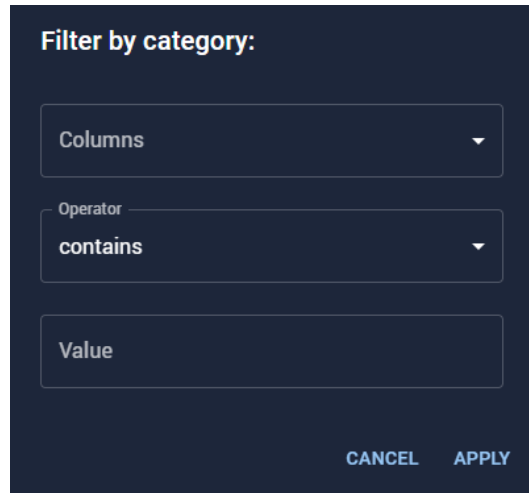
This feature allows users to view and export lists of available metrics for the selected device, including information about each metric.

1. **Access Available Metrics:** Navigate to the **Devices** page, select the desired device, and expand the **Available Metrics** section to view the list of all metrics collected for the device.

Metric name ↑	Instance	job	Interface	Details	Additional labels
cpu_load1	10.15.237.145	N/A	N/A	N/A	N/A
cpu_load15	10.15.237.145	N/A	N/A	N/A	N/A
cpu_load5	10.15.237.145	N/A	N/A	N/A	N/A
cpu_usage	10.15.237.145	N/A	N/A	N/A	N/A
eth0_rx_bytes	10.15.237.145	N/A	N/A	N/A	N/A

Rows per page: 5 1-5 of 264

2. **Filter Metrics (Optional):**
  - a. Select the filter icon button located in the top right corner of the metrics table to refine the list of metrics.
  - b. In the **Filter by Category** dialog:
    - i. Select the **Column** to filter by (e.g., Metric Name, Instance, or Job).
    - ii. Choose an **Operator** (e.g., Contains, Equals).
    - iii. Enter a **Value** to specify the filter criteria.
    - iv. Select **Apply** to display only the relevant metrics.



Filter by category:

Columns

Operator   
 contains

Value

CANCEL APPLY

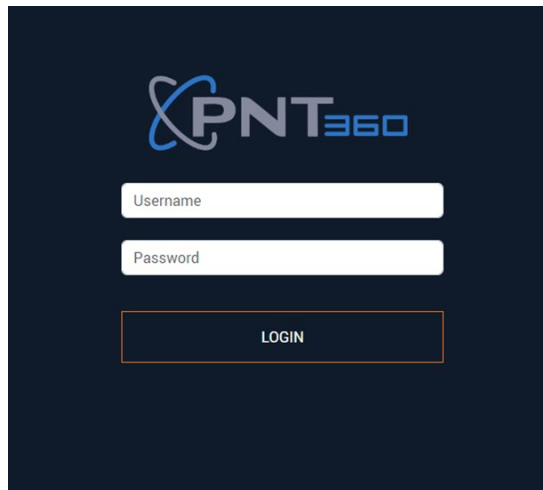
3. Export the List:

- a. Select the download icon button located in the top right corner of the metrics table.
- b. A list of the selected metrics will be downloaded and saved to your local system.

## 4. Features

### 4.1.Login/Out

Login with username and password.



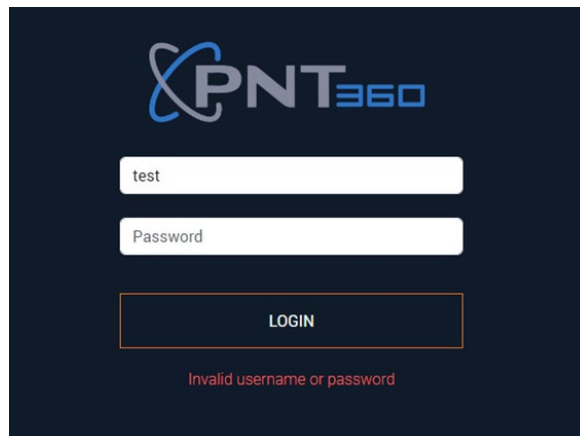
PNT360

Username

Password

LOGIN

An error will display if the account information is incorrect.



PNT360

test

Password

LOGIN

Invalid username or password

## 4.2. Settings

### 4.2.1. Preferences

You can update the application theme as well as the default application language in the Preferences section.

Click on **Settings**, then the **Preferences** tab.

Select the display mode and language and click Apply.

The preference changes will occur immediately.

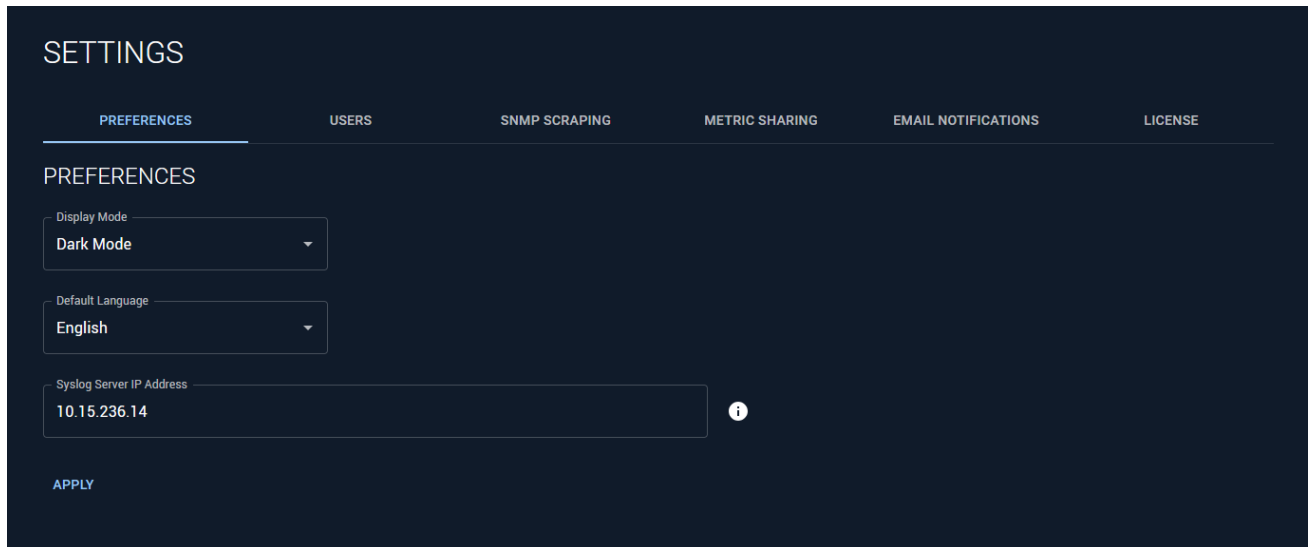
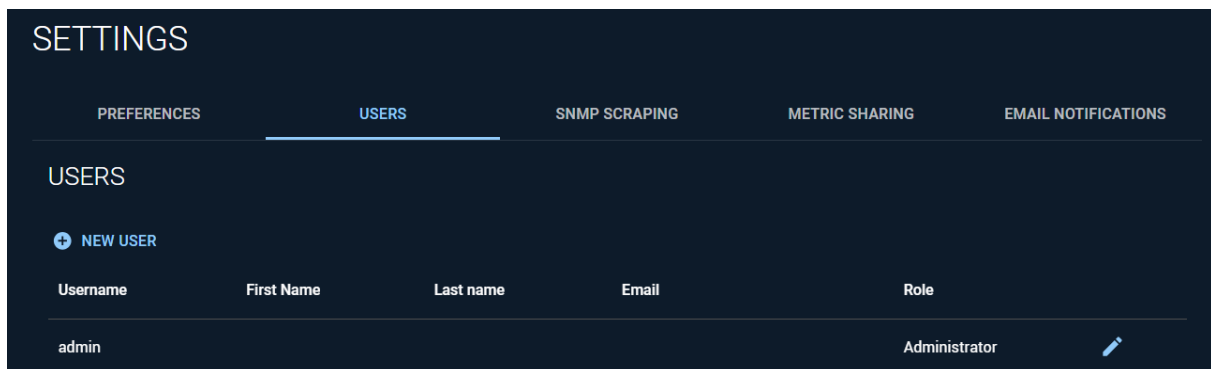


Figure 3: The Settings page in Dark Mode

### 4.2.2. User Management

#### 4.2.2.1. Adding Users

Navigate to Settings, then Users tab and click New User.



The new user modal will display.

Enter the user information and click Add.

**Note:** The Administrator role has access to all features of the application, including modifying dashboards, changing device configurations, and updating PNT 360 settings. The General User role has read access to dashboards but cannot change any dashboards, device configurations, or settings.

For a complete list of user permissions, see [User Permissions](#).

The new user will appear in the list and can now log in.

Username	First Name	Last name	Email	Role	
admin				Administrator	
testuser	Test	Testing	test@safran.com	Administrator	

#### 4.2.2.2. Editing Users

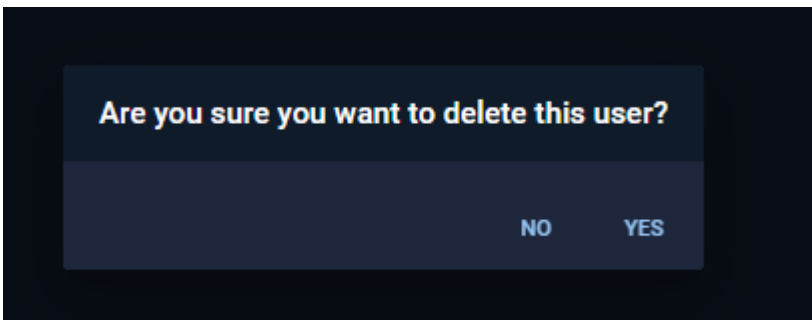
Navigate to Settings, then Users tab. Click the edit icon next to the user you wish to edit. Note that the username cannot be modified.

Edit the user information and click SAVE button to save changes.

#### 4.2.2.3. Deleting Users

Navigate to Settings, then Users tab. Click delete icon next to the user you wish to delete. Note: the default admin user cannot be deleted.

You will see a modal asking you to confirm the deletion.

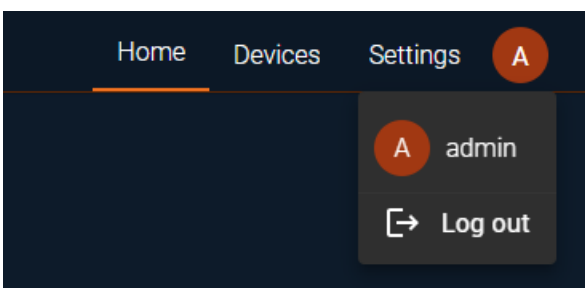


Click yes to delete user. This action cannot be undone.

Username	First Name	Last name	Email	Role	
admin				administrator	
testuser	Test	Testing	test@safran.com	administrator	

#### 4.2.2.4. Current User

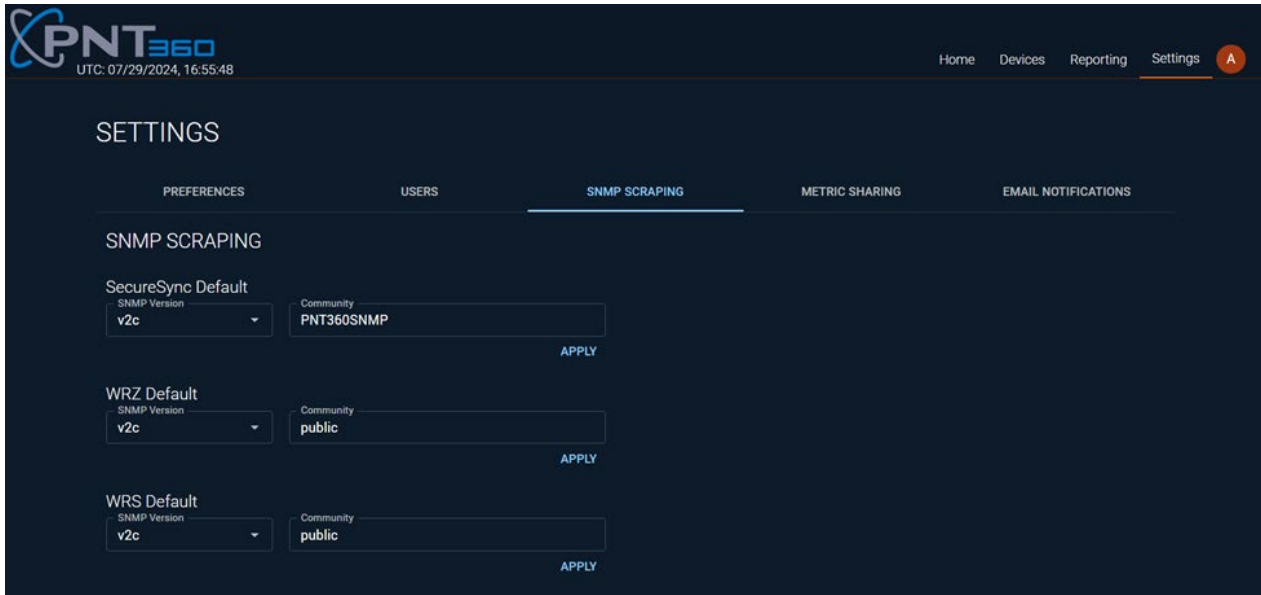
You can see which user is actively logged in by viewing the account at the top right of the application. This is also where you can log out of the application.



### 4.2.3. SNMP Scraping

You can configure SNMP Scraping for all devices in the PNT 360 settings.

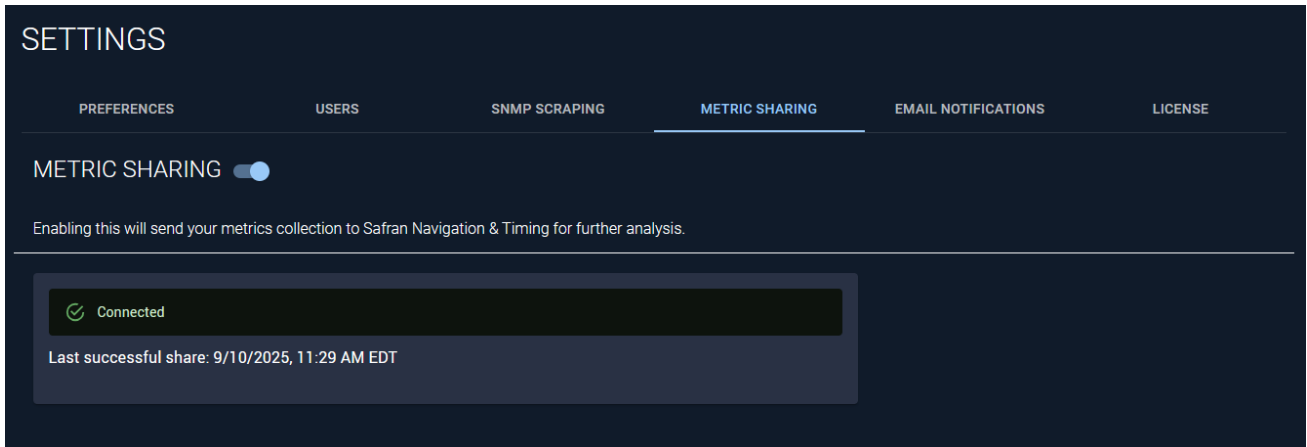
Navigate to **Settings > SNMP Scraping**



### 4.2.4. Metric Sharing

#### 4.2.4.1. Turn on metric sharing

Navigate to Settings and then the Metric Sharing tab. Metric Sharing is enabled by default. If not enabled, toggle Metric Sharing on. The toggle will remain in the on position and some status information will be displayed.



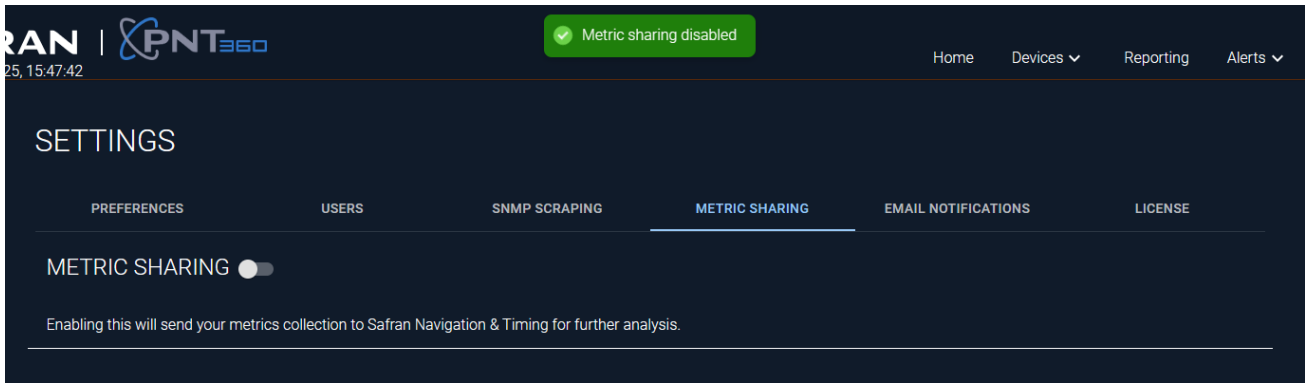
#### 4.2.4.2. View metric sharing status

If metric sharing is actively enabled, there will be a connection status and some information available about the data transfer. Navigate to Settings, then the Metric Sharing tab. The status is indicated in this view.

#### 4.2.4.3. Turn off metric sharing

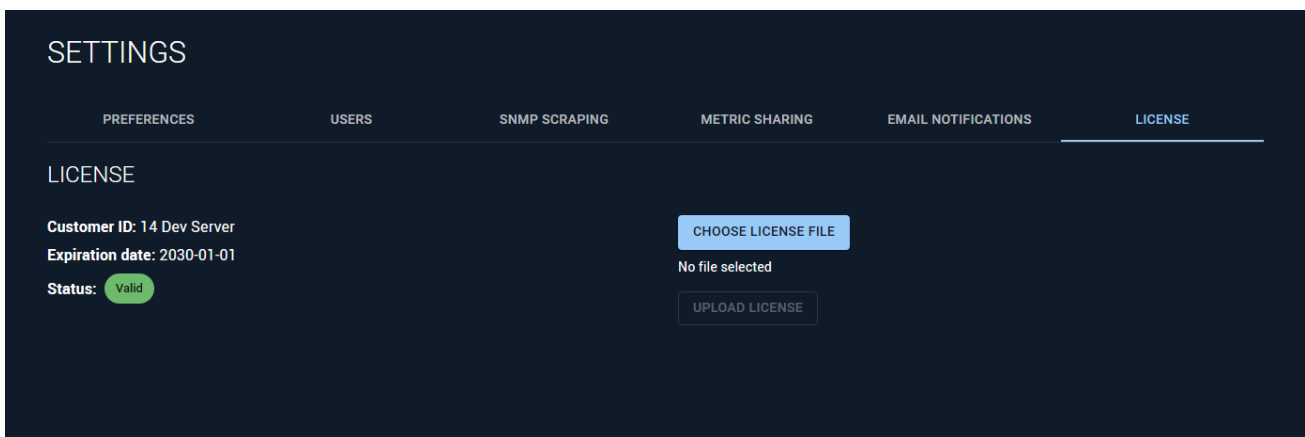
Navigate to Settings then the Metric Sharing tab.

Toggle Metric Sharing off. A small popup will appear confirming Metric Sharing has been disabled. The toggle will remain in the off position with no status displayed.



## 4.2.5. License Management

PNT 360 requires a valid license to operate. During normal operation, users can verify their license status or upload a new one by navigating to **Settings > License**.



Here, users can see the current:

- Customer ID
- Expiration Date
- Status (e.g., Valid or Expired)

### 4.2.5.1. Uploading a License

To upload a new license:

1. Navigate to **Settings > License**
2. Select **“CHOOSE LICENSE FILE”**
3. Select the desired license file
4. Select **“UPLOAD LICENSE”**

Once a valid license is uploaded, the system will resume standard functionality.

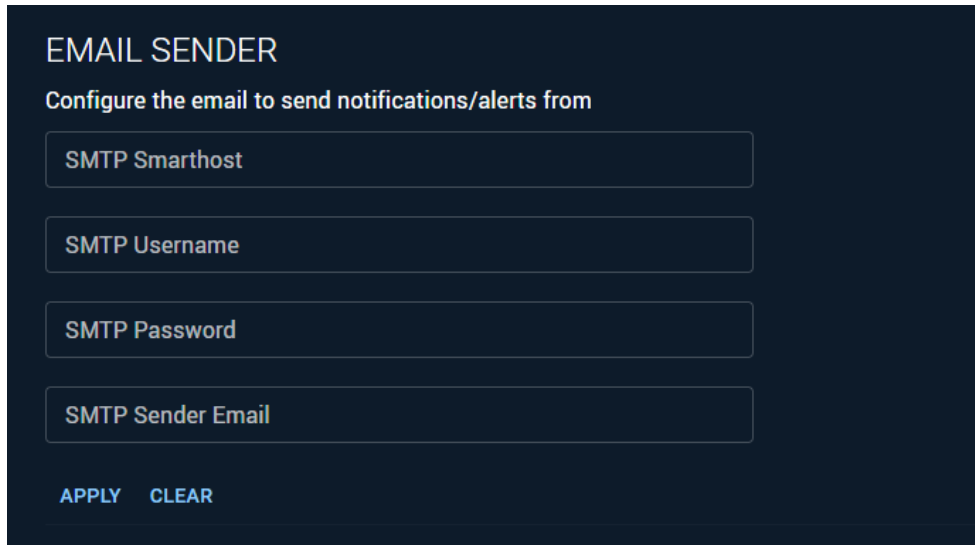
## 4.2.6. Notifications

PNT 360 allows for the creation of alerts on both metrics and monitoring. When a user creates an alert, they must define a receiver for the alert: the address or service that will receive the alert when the alert fires. PNT 360 provides many options for alert receivers, including Email, Slack, Microsoft Teams, and PagerDuty.

### 4.2.6.1. Email

To send Alerts via email, an Email Sender must be configured, the address from which the alerts will be sent. In addition, Email Receivers must be configured in the Settings page before they can be assigned to receive alerts.

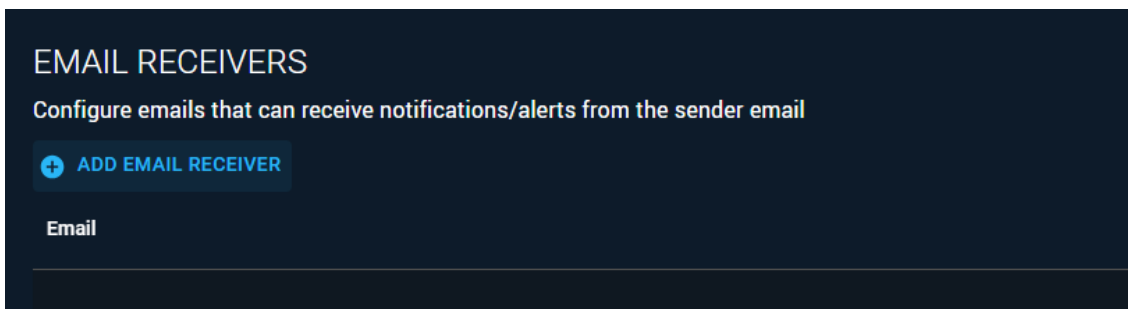
To configure the **Email Sender**, enter the SMTP Smarthost, SMTP Username, SMTP Password, and SMTP Sender Email, and click Apply.



The screenshot shows a dark-themed panel titled "EMAIL SENDER". Below the title is the instruction "Configure the email to send notifications/alerts from". There are four input fields stacked vertically, labeled "SMTP Smarthost", "SMTP Username", "SMTP Password", and "SMTP Sender Email". At the bottom left of the panel are two buttons: "APPLY" and "CLEAR".

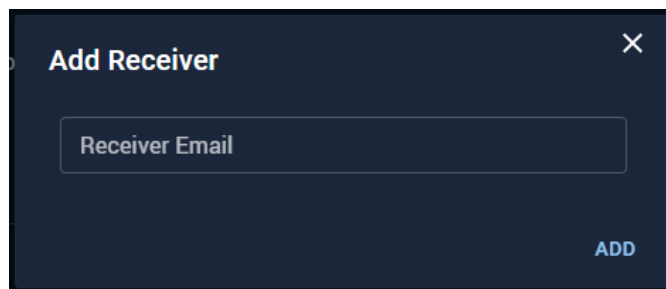
An Email Sender can be cleared by clicking “Clear”.

To add an **Email Receiver**, first click “Add Email Receiver”



The screenshot shows a dark-themed panel titled "EMAIL RECEIVERS". Below the title is the instruction "Configure emails that can receive notifications/alerts from the sender email". There is a blue button with a plus icon and the text "ADD EMAIL RECEIVER". Below this is a section labeled "Email" with a horizontal line underneath.

The Add Receiver modal will open. Enter the Receiver Email and click “Add”



The screenshot shows a dark-themed modal window titled "Add Receiver" with a close button (X) in the top right corner. It contains a single input field labeled "Receiver Email". At the bottom right of the modal is a blue button labeled "ADD".

#### 4.2.6.2. Slack Settings

To enable Slack notifications, follow the instructions laid out under “Slack Settings”

[Create a Slack bot](#)

## SLACK SETTINGS

To enable Slack notifications:

1. [Create a Slack bot](#) with scopes `chat:write`, `groups:write`, and `im:write`
2. Install the bot into your workspace, and copy the *Bot User OAuth Token* here
3. Add the bot to the slack channel where you would like to receive alerts, and set the channel name here
4. Assign the Slack receiver to alerts




APPLY CLEAR

### 4.2.6.3. Microsoft Teams Settings

To enable Microsoft Teams notifications, follow the instructions laid out under “Microsoft Teams Settings”

[Create an incoming Webhook Workflow](#)

## MICROSOFT TEAMS SETTINGS

To enable Teams notifications:

1. [Create an incoming Webhook Workflow](#) and copy the Webhook URL here
2. Assign the Teams receiver to alerts

APPLY CLEAR

### 4.2.6.4. PagerDuty Settings

To enable PagerDuty notifications, follow the instructions laid out under “PagerDuty Settings”

[Create an integration on a PagerDuty Service](#)

## PAGERDUTY SETTINGS

To enable PagerDuty notifications:

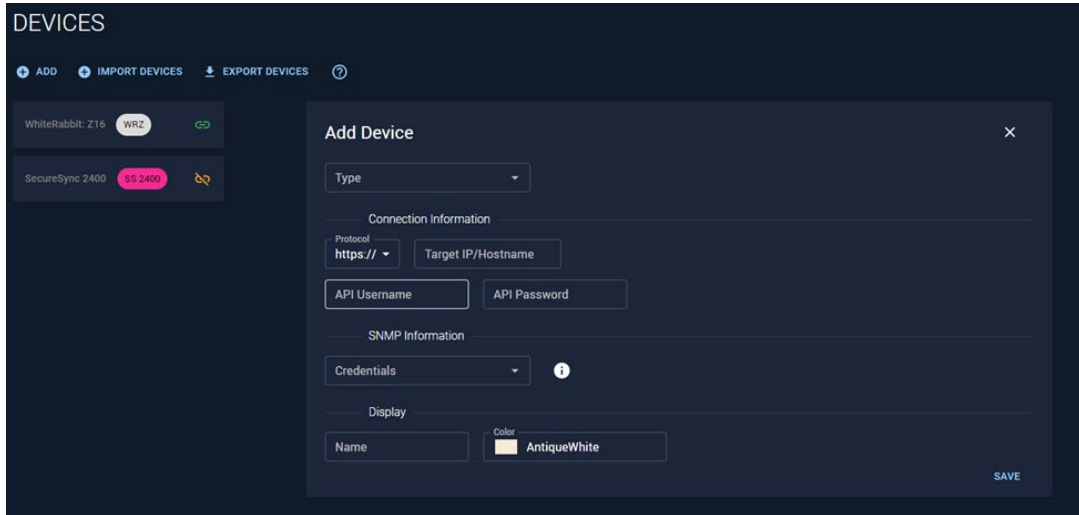
1. [Create an integration on a PagerDuty Service](#) for *Events API v2* and copy the *Integration Key* here
2. Assign the PagerDuty receiver to alerts

APPLY CLEAR

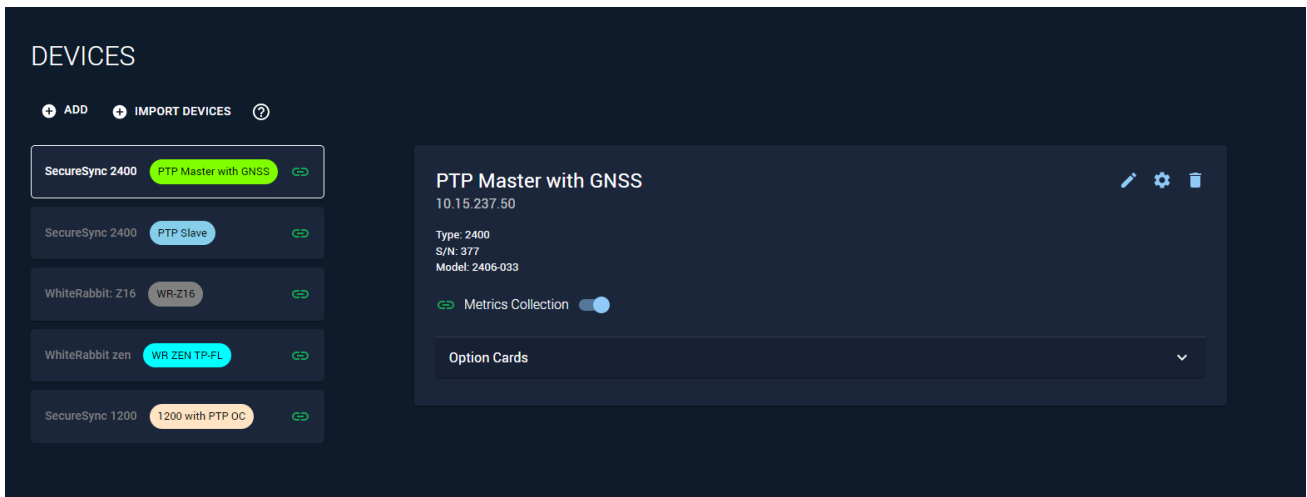
## 4.3. Device Management

### 4.3.1. Add Single Device

Navigate to the Devices tab in the header and click ADD. Enter all the information for that device, then select SAVE.

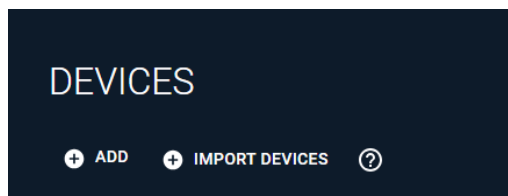


You should now see the device in the Devices list.

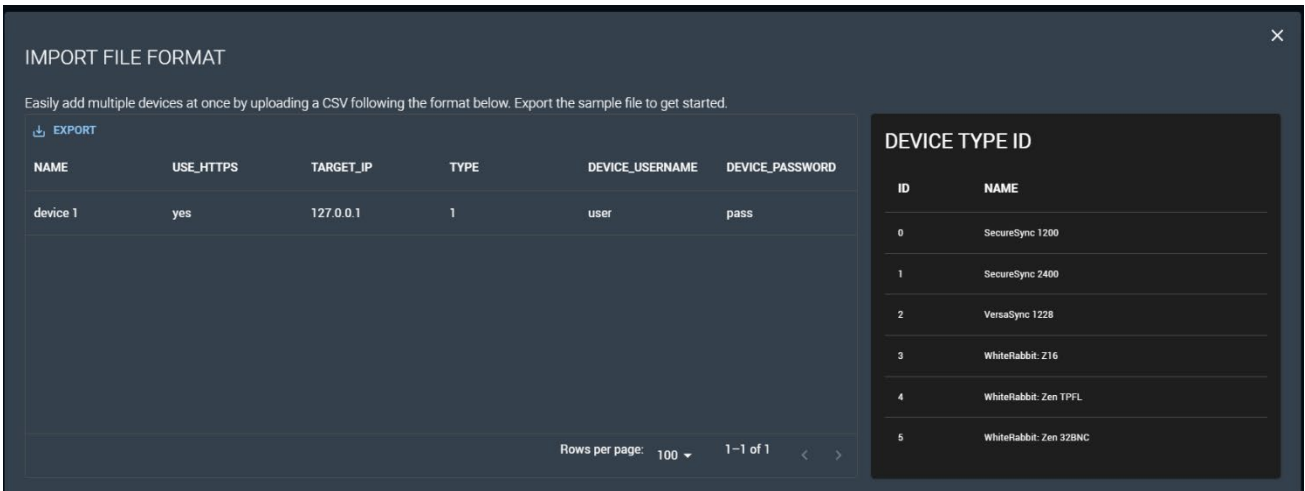


### 4.3.2. Import Multiple Devices

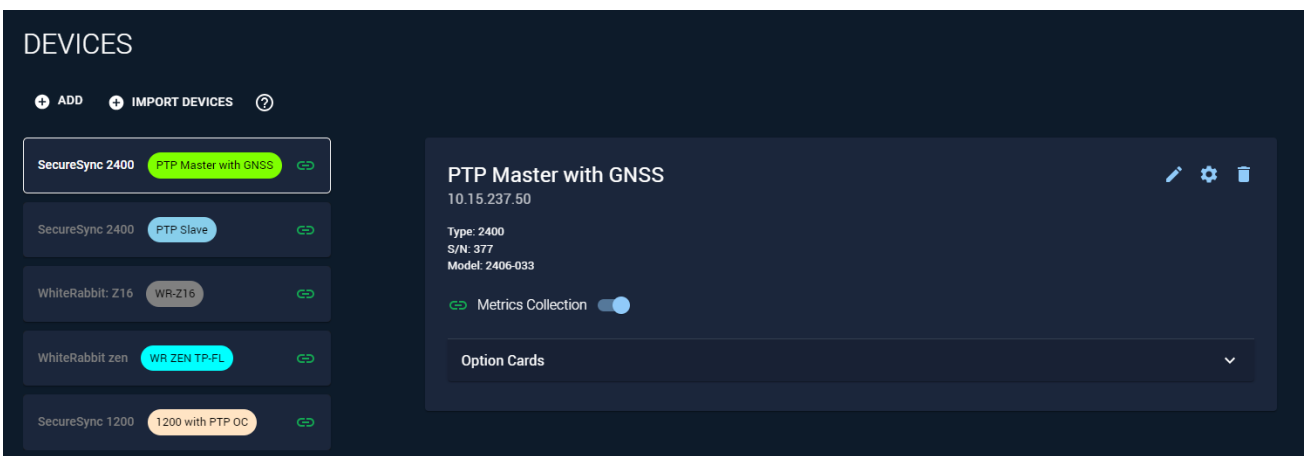
You can import a list of devices from a CSV form. To view the expected file format, Click the ? icon on the Devices page.



You will see the file format as well as the option to export a sample file to get started.



Enter the devices you wish to monitor and then upload this file using the Import Devices button. You will see all the devices listed in the Devices page. Duplicate devices will not be added.

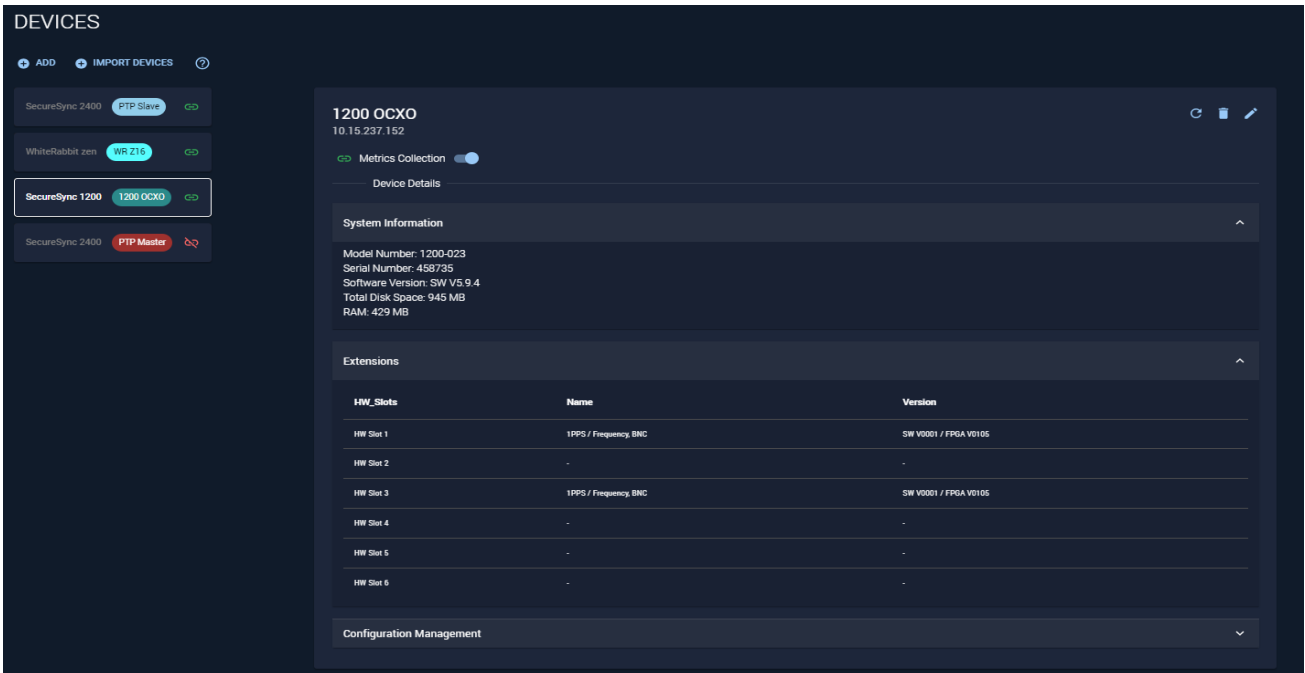


### 4.3.3. View Device Details

Navigate to Devices and select the device which you would like to view.

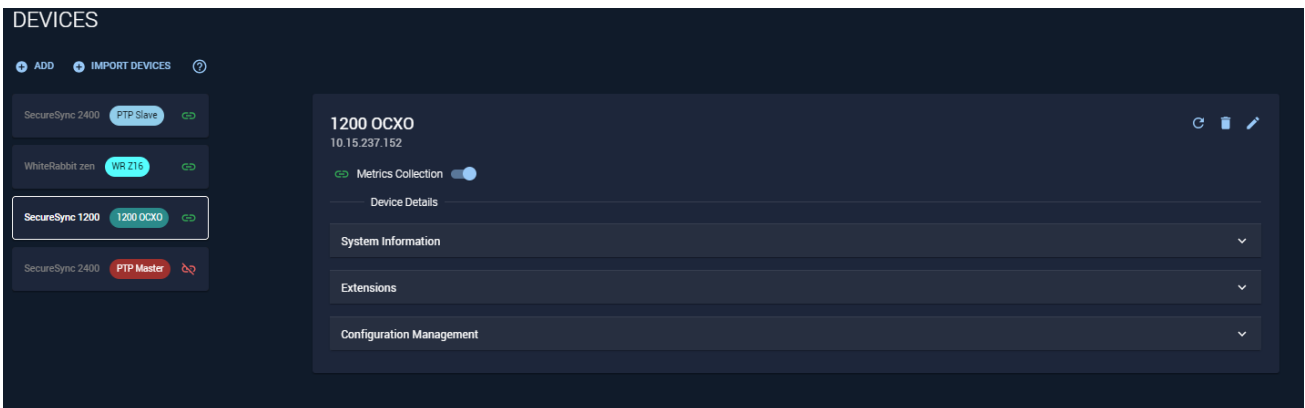
The device details are displayed to the right and include the System Information, Extensions, Configuration Management, and Available Metrics. You can edit, modify configuration, or delete the device using the buttons on this view.

- **System Information:** Relevant system information including Model Number, Serial Number, Software Version, etc.
- **Extensions:** A list of all option cards currently installed.
- **Configuration Management:** Options that allow for control of some of the device’s internal configurations from the PNT 360 monitoring application as a central location.
- **Available Metrics:** A list of all available metrics and buttons to filter and export.

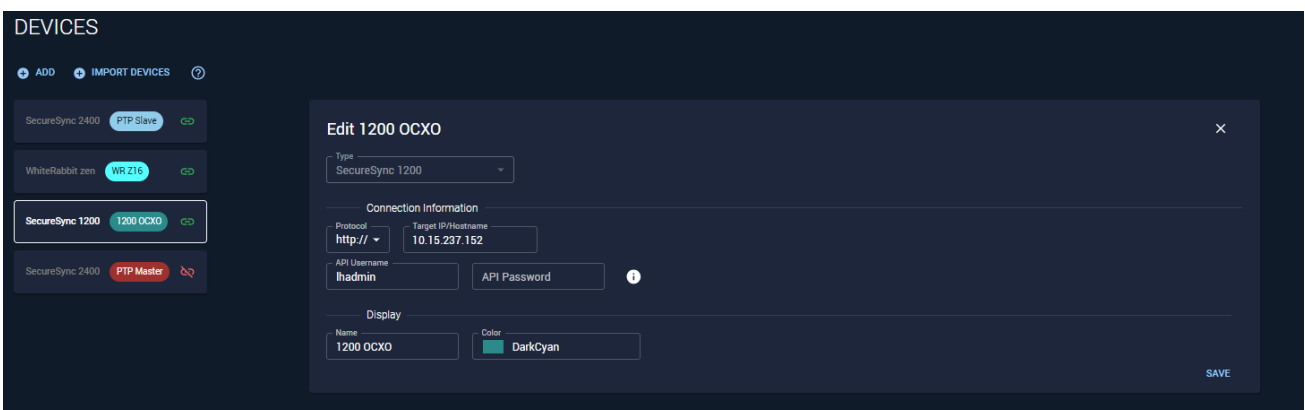


#### 4.3.4. Edit Device

Navigate to Devices. Select the device you wish to edit and click the edit icon.



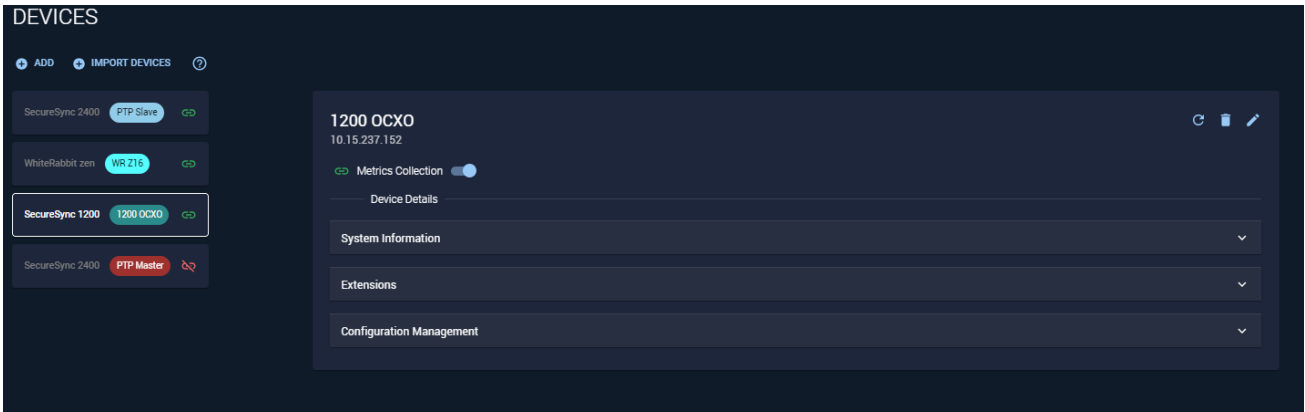
Enter the new information and click SAVE when finished.



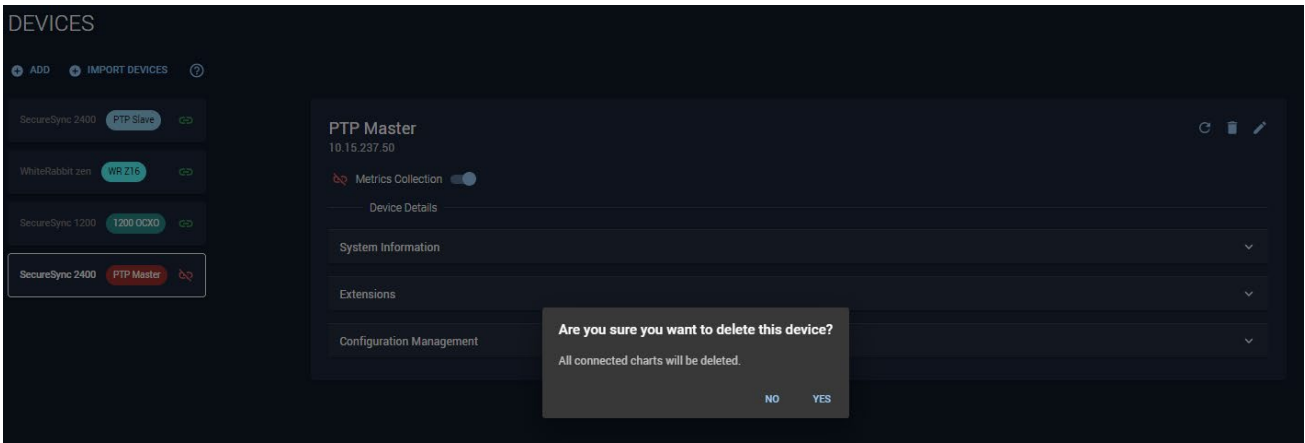
The changes will be visible in the Devices list and Device Details view.

#### 4.3.5. Delete Device

Navigate to Devices. Select the device you wish to delete and click the delete icon.



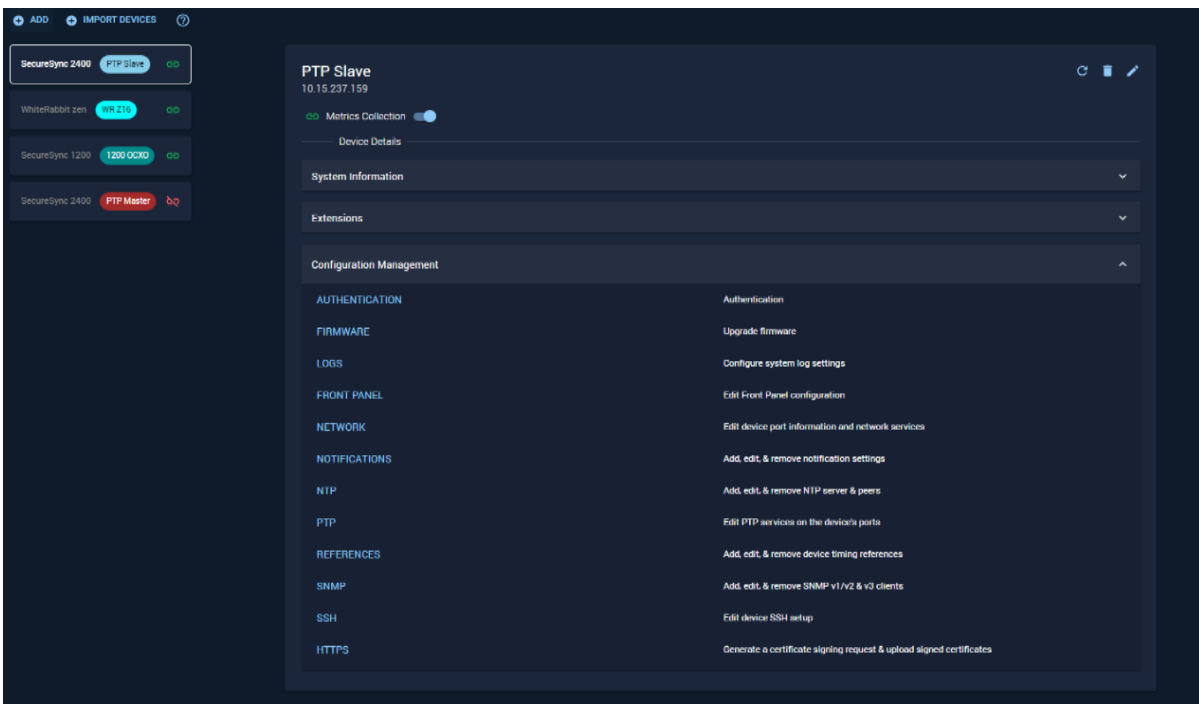
A modal will be displayed asking for confirmation that the device should be deleted.



Click Yes and the device will be removed from the devices list.

### 4.3.6. Configuration Management

Remote configuration is a mechanism by which you can control some of the device's internal configurations from the PNT 360 monitoring application as a central location. Navigate to Devices and click on the dropdown for Configuration Management



### 4.3.6.1. Authentication

Select the SecureSync device for which you want to configure authentication, and under the **Configuration Management** dropdown, select **Authentication**.

The screenshot shows a 'Device Configuration' window titled 'Configuring SecureSync 2400 (10.15.237.159)'. It features a table with columns for 'Username', 'Group', and 'Actions'. An '+ ADD' button is located in the top right corner of the table area.

Username	Group	Actions
spadmin	admin	[Edit]
lighthouse	admin	[Edit] [Delete]
lhadmin	admin	[Edit] [Delete]
bradleyboxer	admin	[Edit] [Delete]
jaimehra	admin	[Edit] [Delete]
bradleyboxer-ui	admin	[Edit] [Delete]
walter	admin	[Edit] [Delete]
spfactory	factory	

#### 4.3.6.1.1. Add new user

Select the + Add icon to add a new user for SecureSync

The screenshot shows a modal window titled 'Users'. It contains a '+ ADD' button and a text input field labeled 'Username'.

Fill out the form and click APPLY. This will add the user as well as send the configuration to the device via its REST API.

The screenshot shows a 'New User' form with the following fields: 'Username' (text input), 'Password' (password input), 'Confirm new password' (password input), and 'Group' (dropdown menu). A note below the password fields states 'Password must be at least 8 characters'. An 'APPLY' button is located at the bottom right of the form.

#### 4.3.6.1.2. Edit user

Click the edit icon next to the user that you would like to modify.

Username	Group	Actions
spadmin	admin	
lighthouse	admin	
lhadmin	admin	

Enter the updated settings and click APPLY. This will update the user details as well as send the updated configuration to the device via its REST API

**Update**
✕

Username

Password

Confirm new password

**Password must be at least 8 characters**

Group

APPLY

**4.3.6.1.3. Delete user**

Select the User you wish to delete and click the delete icon.

lighthouse	admin	
lhadmin	admin	
bradleyboxer	admin	

A modal will be displayed asking for confirmation that the User should be deleted.

admin

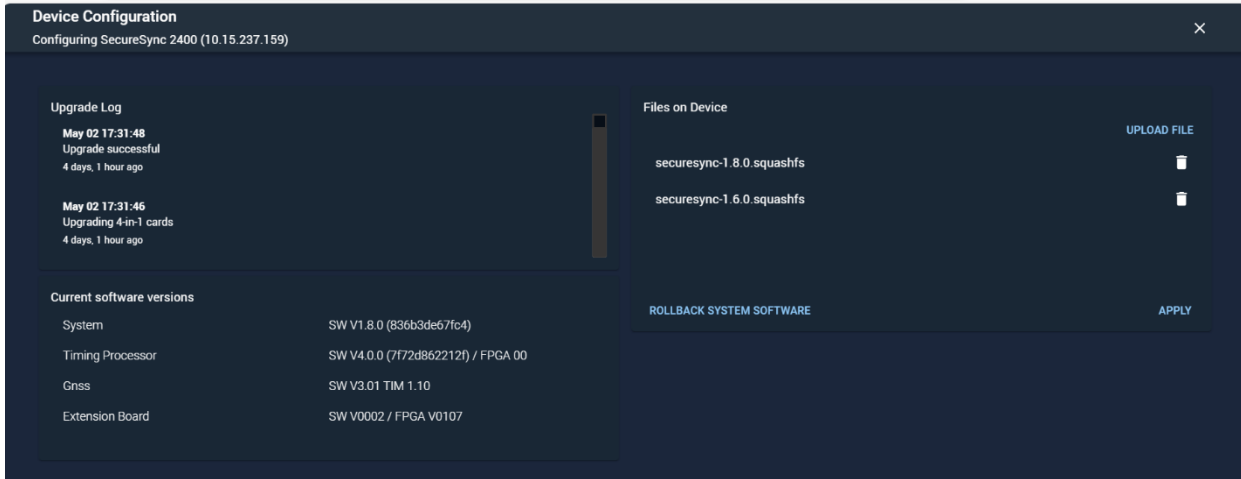
**This action will permanently delete user lighthouse from SecureSync 2400. Confirm delete?**

NO
YES

Click Yes and the user will be removed from the Users list.

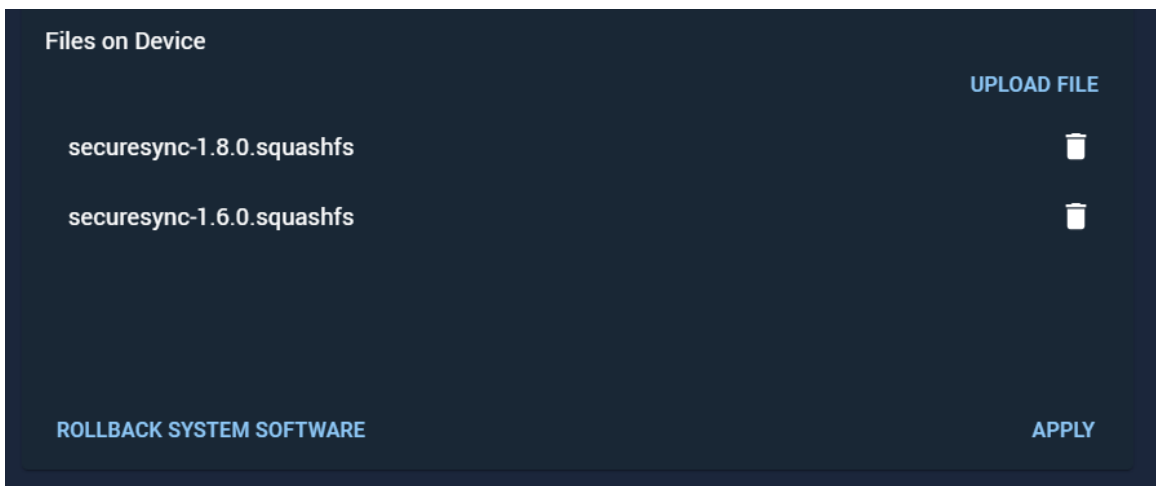
**4.3.6.2. Firmware**

Select the Secure Sync device for which you want to configure Firmware.



4.3.6.2.1. Upload files to SecureSync device

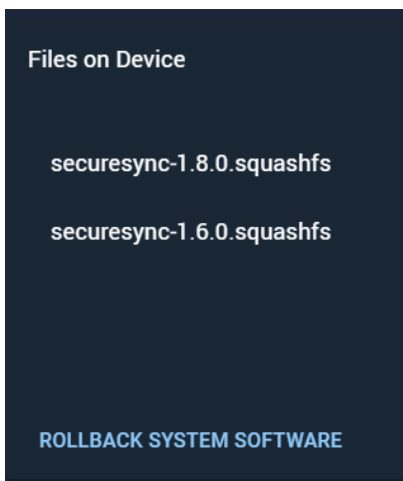
Click on upload file to upload any file to the SecureSync device and click APPLY.



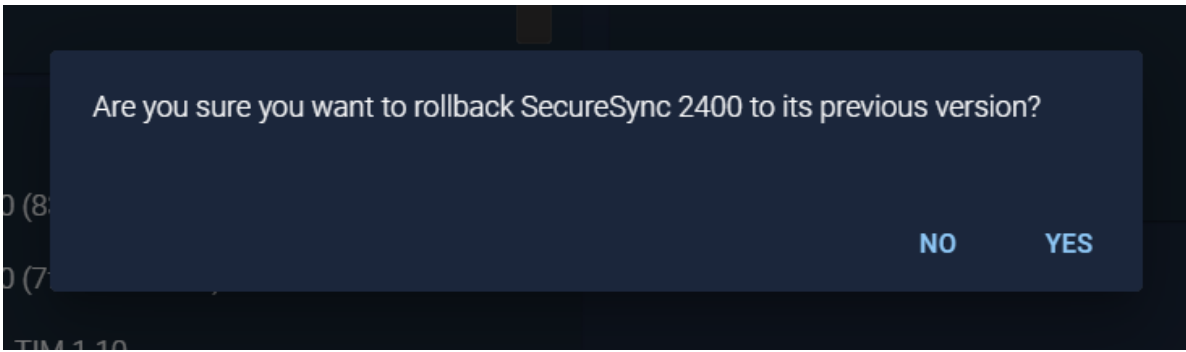
Click the delete icon to delete any file uploaded to the device.

4.3.6.2.2. Rollback System Software

Click on the ROLLBACK SYSTEM SOFTWARE button to roll back the software.



A modal will be displayed asking for confirmation to roll back the device to its previous version.



Click Yes and the device will be rolled back to its previous version.

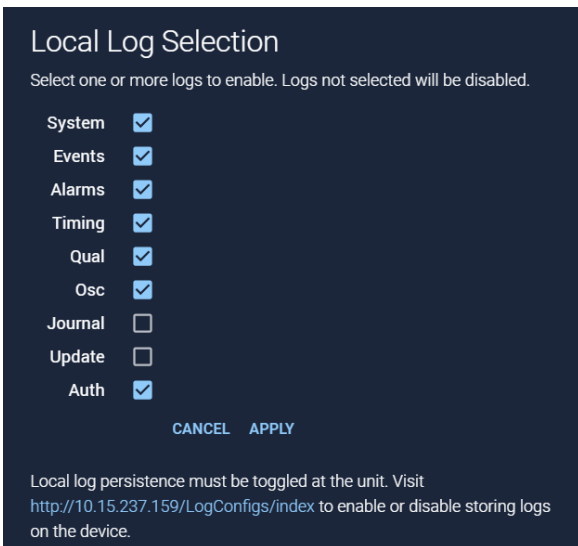
### 4.3.6.3. Logs

#### 4.3.6.3.1. Configuring Logs for SecureSync

Select the device for which you want to configure Logs and add Remote Log Servers

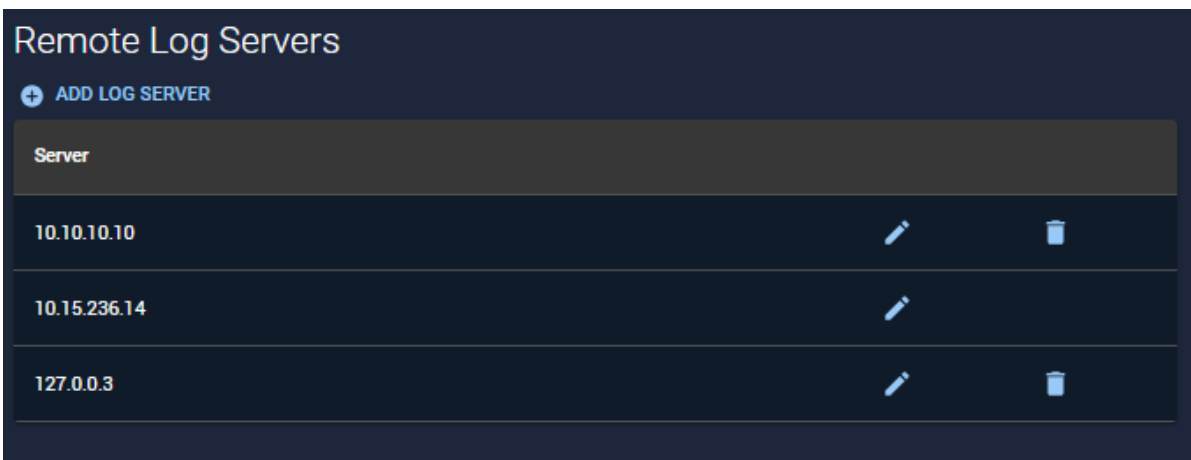
##### 4.3.6.3.1.1. Local Log Selection

Select one or more logs to enable and the ones not selected will be disabled. Click APPLY to apply the changes.



##### 4.3.6.3.1.2. Add Remote Log Server

Click on the +ADD LOG SERVER button to add a log server.



Fill out the form and click APPLY. This will add the configuration as well as send the configuration to the device via its REST API.

### Add Log Server ✕

Hostname or IP Address

Port  
514

Protocol  
UDP

#### Log Forwarding Setup

Log File	Enabled	Facility	Severity
system	<input type="checkbox"/>	Local Use 7	Emergency
events	<input type="checkbox"/>	Local Use 7	Alert
alarms	<input type="checkbox"/>	Local Use 7	Critical
timing	<input type="checkbox"/>	Local Use 7	Error
qual	<input type="checkbox"/>	Local Use 7	Warning
osc	<input type="checkbox"/>	Local Use 7	Debug
journal	<input type="checkbox"/>	Local Use 7	Notice
update	<input type="checkbox"/>	Local Use 7	Information
auth	<input type="checkbox"/>	Local Use 7	Warning

APPLY

#### 4.3.6.3.1.3. Edit Log Server

Click the edit icon next to the configuration that you would like to modify.

+ ADD LOG SERVER

Server		
10.10.10.10		
10.15.236.14		
127.0.0.3		

Enter the updated settings and click APPLY. This will update the configuration as well as send the updated configuration to the device via its REST API

**Edit Log Server**

Hostname or IP Address: 10.10.10.10

Port: 514

Protocol: UDP

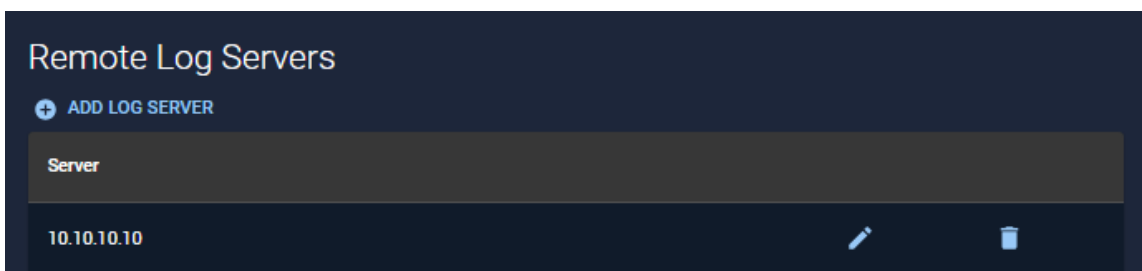
**Log Forwarding Setup**

Log File	Enabled	Facility	Severity
system	<input checked="" type="checkbox"/>	Local Use 7	Emergency
events	<input checked="" type="checkbox"/>	Local Use 7	Alert
alarms	<input checked="" type="checkbox"/>	Local Use 7	Critical
timing	<input checked="" type="checkbox"/>	Local Use 7	Error
qual	<input checked="" type="checkbox"/>	Local Use 7	Warning
osc	<input checked="" type="checkbox"/>	Local Use 7	Debug
journal	<input checked="" type="checkbox"/>	Local Use 7	Notice
update	<input checked="" type="checkbox"/>	Local Use 7	Information
auth	<input checked="" type="checkbox"/>	Local Use 7	Warning

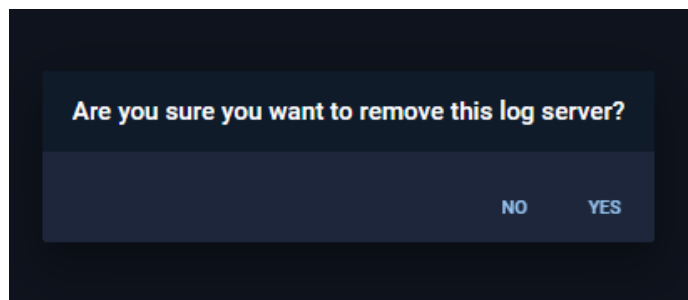
APPLY

#### 4.3.6.3.1.4. Delete Log Server

Select the Log Server you wish to delete and click the delete icon.



A modal will be displayed asking for confirmation that the Log Server should be deleted.



Click Yes and the configuration will be removed from the Log Servers list.

4.3.6.3.2. Configuring Logs for White Rabbit device

Select the device for which you want to configure Logs and add Remote Log Servers

Fill out the form and click APPLY. This will add the configuration as well as send the configuration to the device via its REST API.

4.3.6.4. Front Panel

Select the device for which you want to configure and view the configured Front Panel settings.

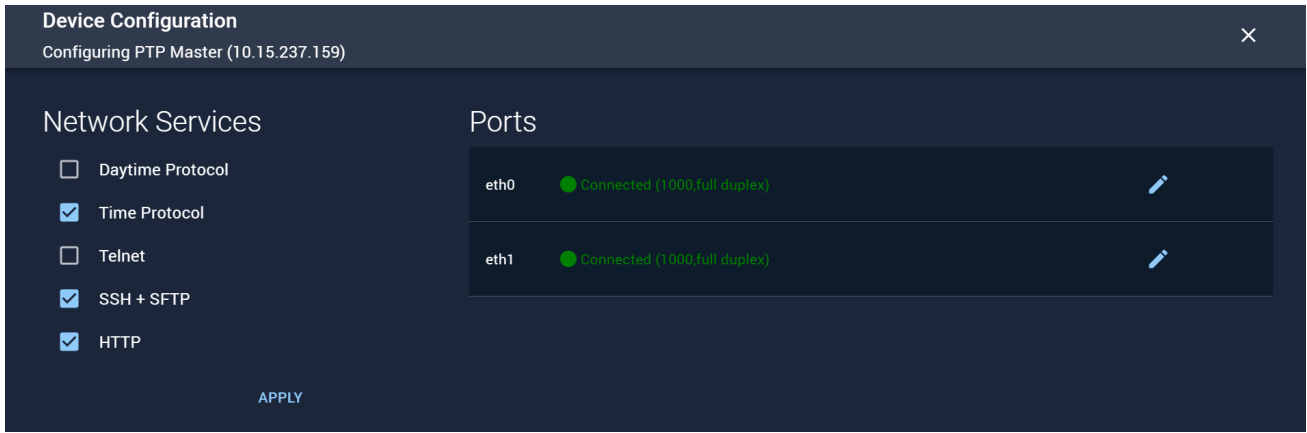
4.3.6.4.1. Edit Front Panel Configuration

Update the fields from the dropdown and click Apply. This will update the configuration as well as send the configuration to the device via its REST API.

4.3.6.5. Network

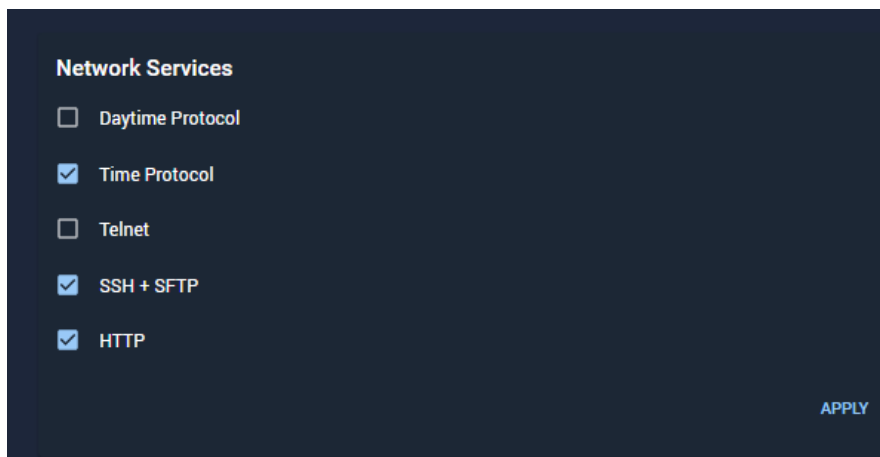
4.3.6.5.1. Configuring Network for SecureSync devices

Select the Device for which you want to configure Network services and ports



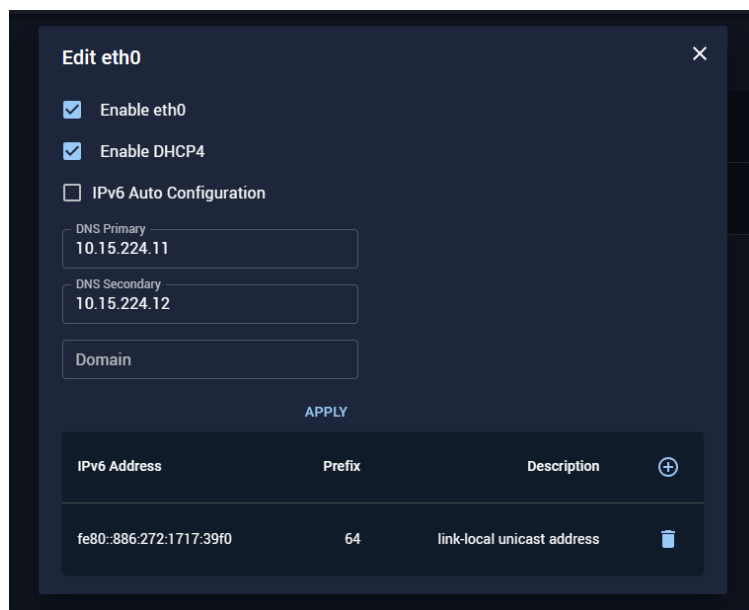
#### 4.3.6.5.1.1. Enable Network Services

Select one or more services to enable and the ones not selected will be disabled. Click APPLY to apply the changes.



#### 4.3.6.5.1.2. Edit Ethernet Port Setting

Select the edit icon for the ethernet port that you wish to modify and a modal with settings should appear.



Enter the updated settings and select APPLY.

To add an IPv6 address, select the + icon.

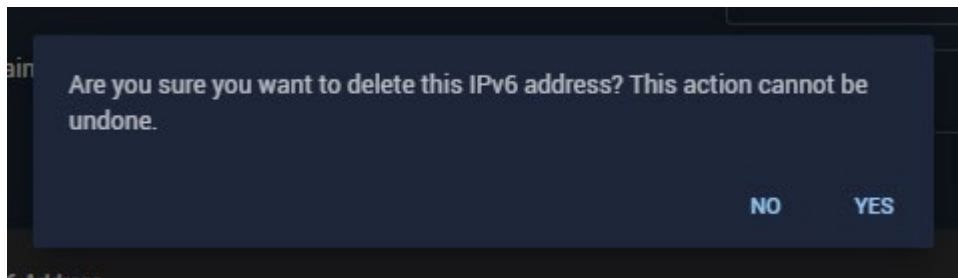
IPv6 Address	Prefix	Description	
fe80::3b99:d1b4:3202:cf19	64	link-local unicast address	

Fill out the IPv6 address and Prefix and click on the Save icon to save the changes.

To delete IPv6 addresses, select the IPv6 address you wish to delete and select the delete icon.

IPv6 Address	Prefix	Description	
fe80::3b99:d1b4:3202:cf19	64	link-local unicast address	

A modal will be displayed asking for confirmation that the IPv6 address should be deleted.



Select Yes and the IPv6 address will be removed from the IPv6address list.

#### 4.3.6.5.2. Configuring Network for White Rabbit devices

Select the Device for which you want to configure Network interfaces and domains

#### Domain Name System



**APPLY**

#### Interfaces

Interface:

IP Address:

Netmask:

Gateway:

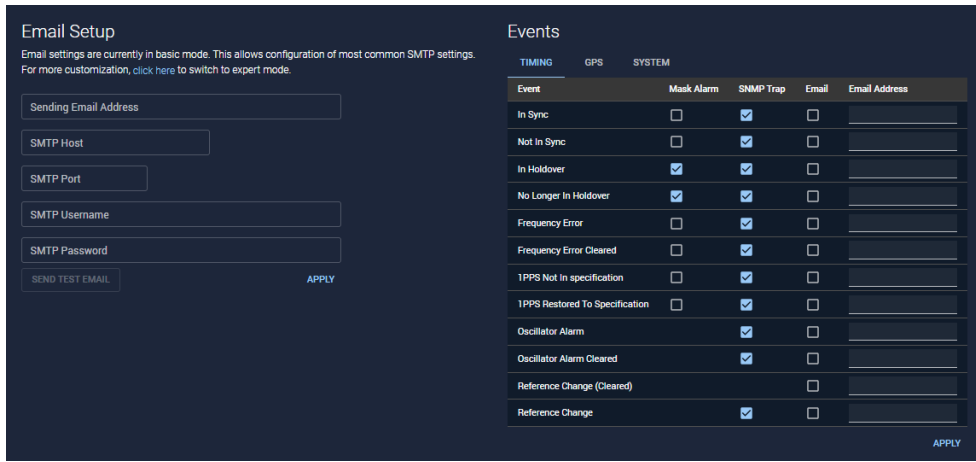
DHCP:

**APPLY**

Fill out the form and click APPLY. This will add the configuration as well as send the configuration to the device via its REST API.

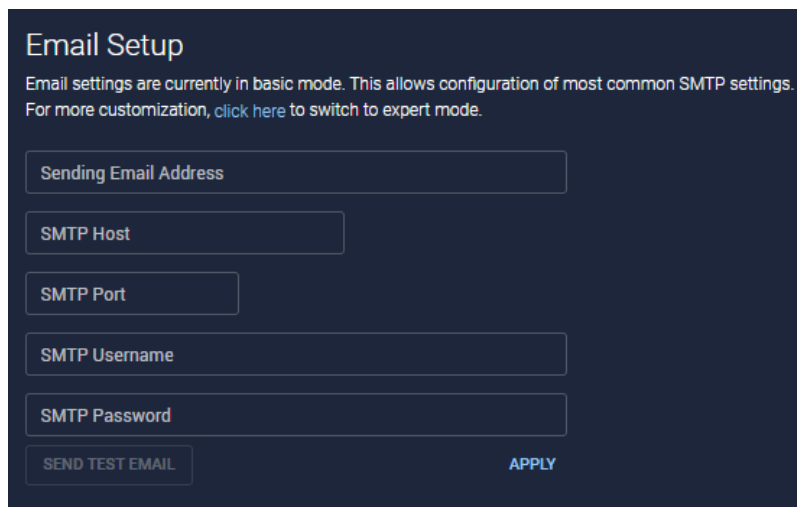
#### 4.3.6.6. Notifications

Select the device for which you want to configure Notifications.



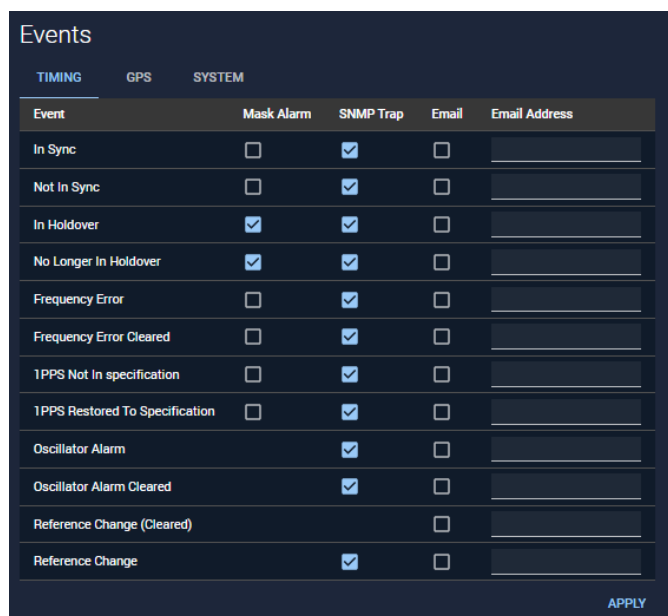
#### 4.3.6.6.1. Configure Email Setup

Fill out the form to configure SMTP setting and click APPLY. This will add the configuration as well as send the configuration currently to the device via its REST API.



#### 4.3.6.6.2. Configure Events

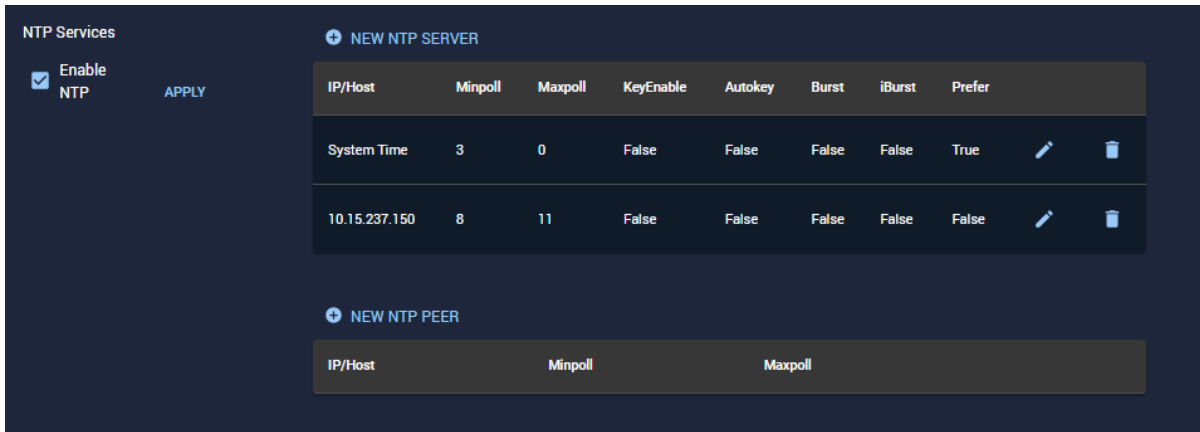
Select one or more events and enter the email address to be used to notify the events. Click APPLY to apply the changes.



### 4.3.6.7. NTP

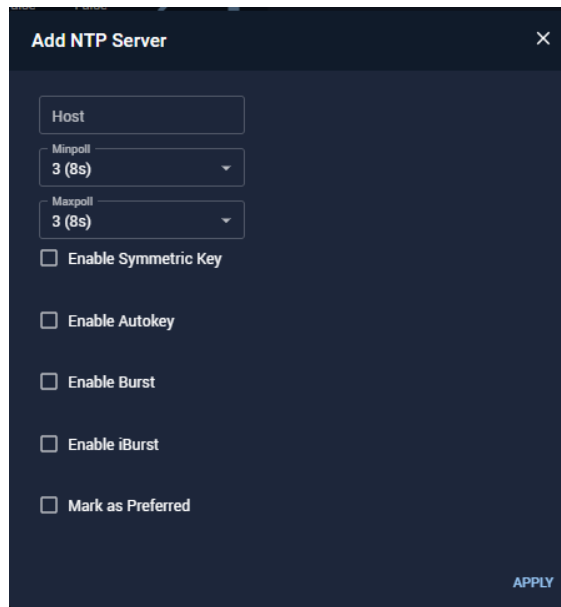
#### 4.3.6.7.1. Configuring NTP for SecureSync devices

Select the device for which you want to configure NTP to view, edit and add a new NTP server.



##### 4.3.6.7.1.1. Add NTP Server

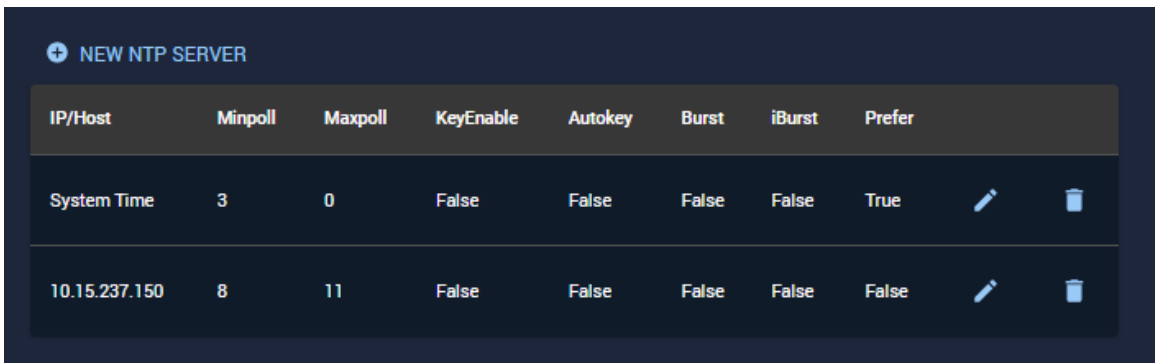
Click the + NEW NTP SERVER button to add a new reference priority.



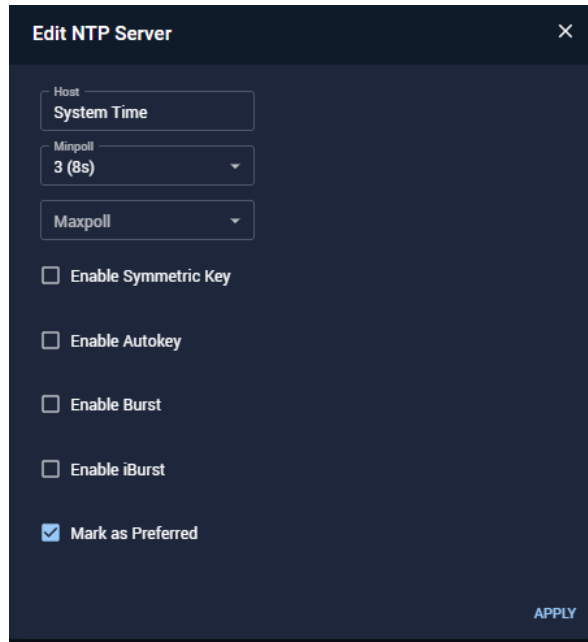
Fill out the form and click Add. This will add the configuration as well as send the configuration to the device via its REST API.

##### 4.3.6.7.1.2. Edit NTP Server

Click the edit icon next to the configuration that you would like to modify.



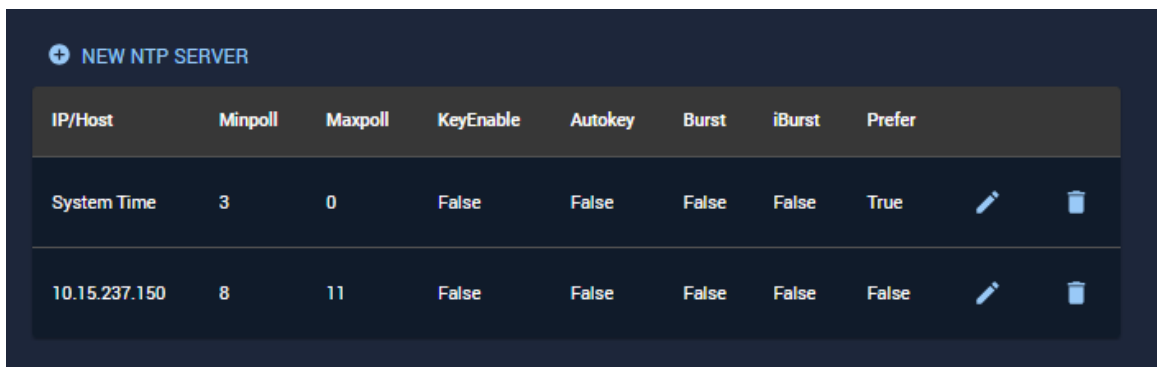
The current settings will be displayed in a modal.



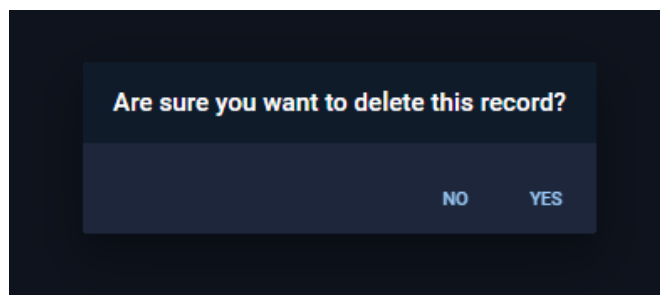
Enter the updated settings and click APPLY. This will update the configuration as well as send the updated configuration to the device via its REST API.

#### 4.3.6.7.1.3. Delete NTP Server

Select the NTP Server you wish to delete and click the delete icon.



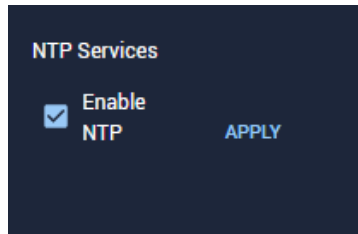
A modal will be displayed asking for confirmation that the NTP Server should be deleted.



Click Yes and the configuration will be removed from the NTP Servers list.

#### 4.3.6.7.1.4. Enable/Disable NTP Services

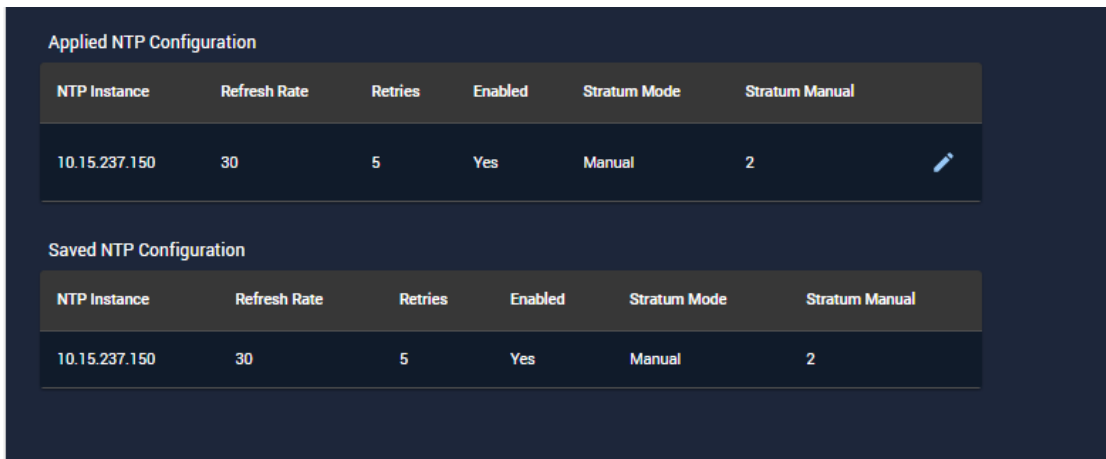
Select the checkbox to enable the NTP services or unselect the checkbox to disable the NTP services for the selected device



Click APPLY to apply the changes.

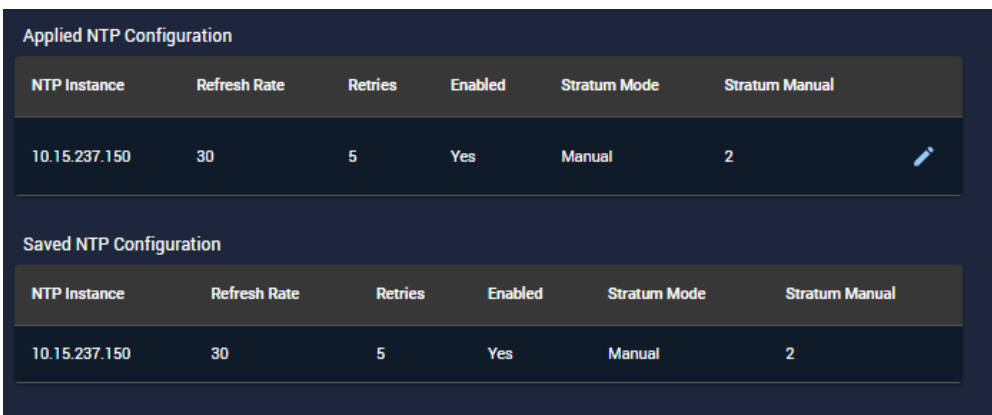
#### 4.3.6.7.2. Configuring NTP for White Rabbit devices

Select the device for which you want to configure NTP to view and edit the NTP Configuration.

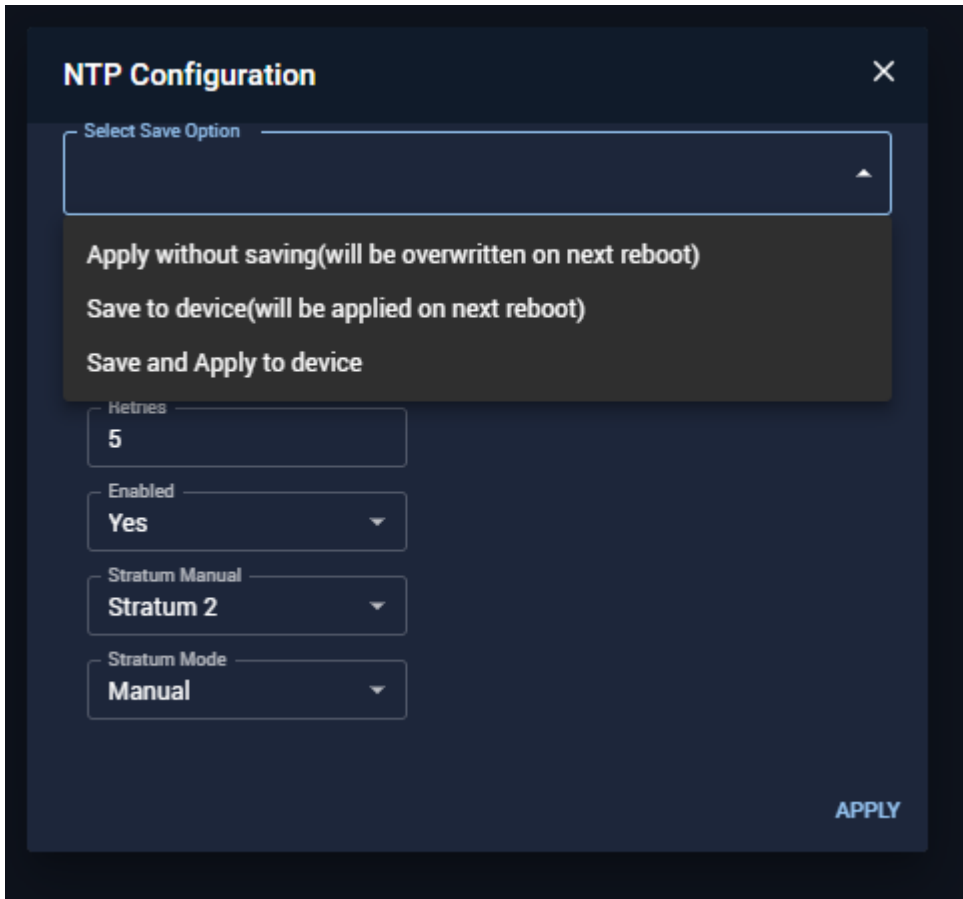


##### 4.3.6.7.2.1. Edit NTP Configuration

Click the edit icon for the NTP instance added.



Update the fields and select an option from the dropdown to apply changes accordingly.



This will update the configuration as well as send the configuration to the device via its REST API. You can view the saved configuring under Saved NTP Configuration which will be applied to the device on the next reboot.

#### 4.3.6.8. PTP

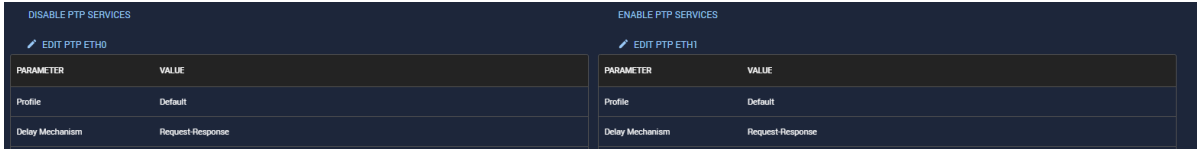
##### 4.3.6.8.1. Configuring PTP for SecureSync devices

Select the device for which you want to configure PTP to view and edit PTP Servers.

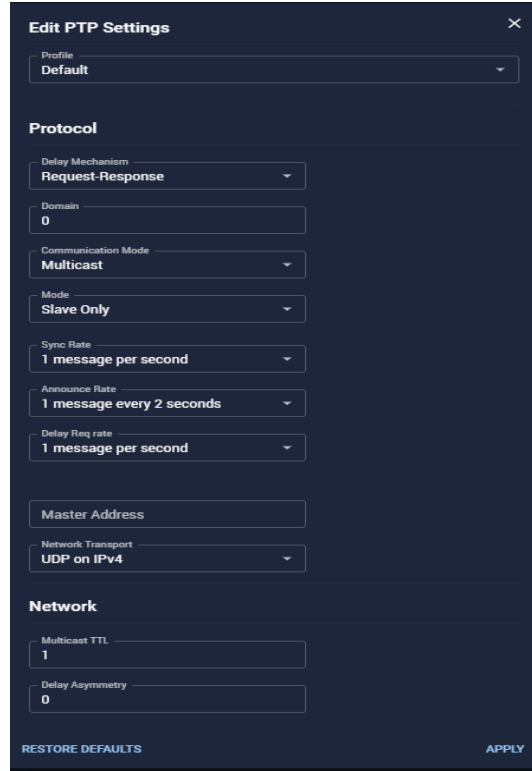
DISABLE PTP SERVICES		ENABLE PTP SERVICES	
EDIT PTP ETH0		EDIT PTP ETH1	
PARAMETER	VALUE	PARAMETER	VALUE
Profile	Default	Profile	Default
Delay Mechanism	Request-Response	Delay Mechanism	Request-Response
Domain	0	Domain	37
Communication Mode	Multicast	Communication Mode	Unicast
Mode	Slave Only	Mode	Slave Only
Unicast Contract Duration	300	Unicast Contract Duration	300
Sync Rate	1	Sync Rate	1
Announce Rate	0.5	Announce Rate	0.5
Delay Request Rate	1	Delay Request Rate	1
Poor Delay req Rate	1	Poor Delay req Rate	1
Best Master Clock Algorithm	Yes	Best Master Clock Algorithm	Yes
Clock Priority 1	128	Clock Priority 1	128
Clock Priority 2	128	Clock Priority 2	128
Network Transport	UDP on IPv4	Network Transport	UDP on IPv4
Multicast TTL	1	Multicast TTL	1
Delay Asymmetry	0	Delay Asymmetry	0
Peer Mac Address	01:80:C2:00:00:0E	Peer Mac Address	01:80:C2:00:00:0E
All Timescale Display Name		All Timescale Display Name	

##### 4.3.6.8.1.1. Edit PTP Server

Click the edit icon for the PTP interface that you would like to modify.

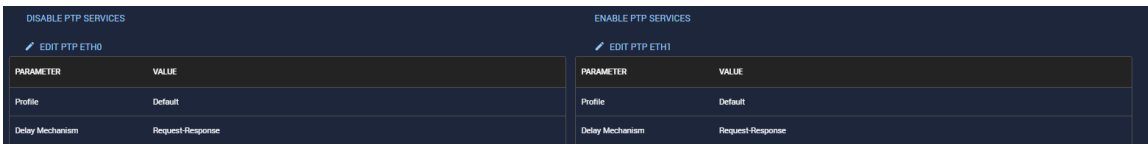


Enter the updated settings and click APPLY. This will update the configuration as well as send the updated configuration to the device via its REST API.

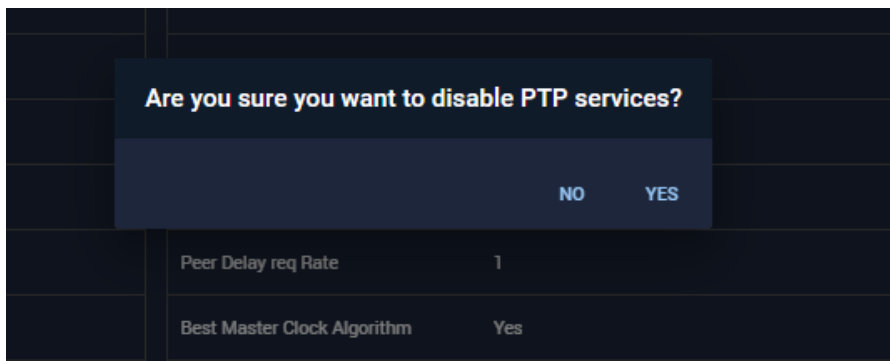


#### 4.3.6.8.1.2. Disable/ Enable PTP Services

Click on Disable PTP Services to disable it for the PTP interface that you would want to.



A modal will be displayed asking for confirmation that the PTP services will be disabled.



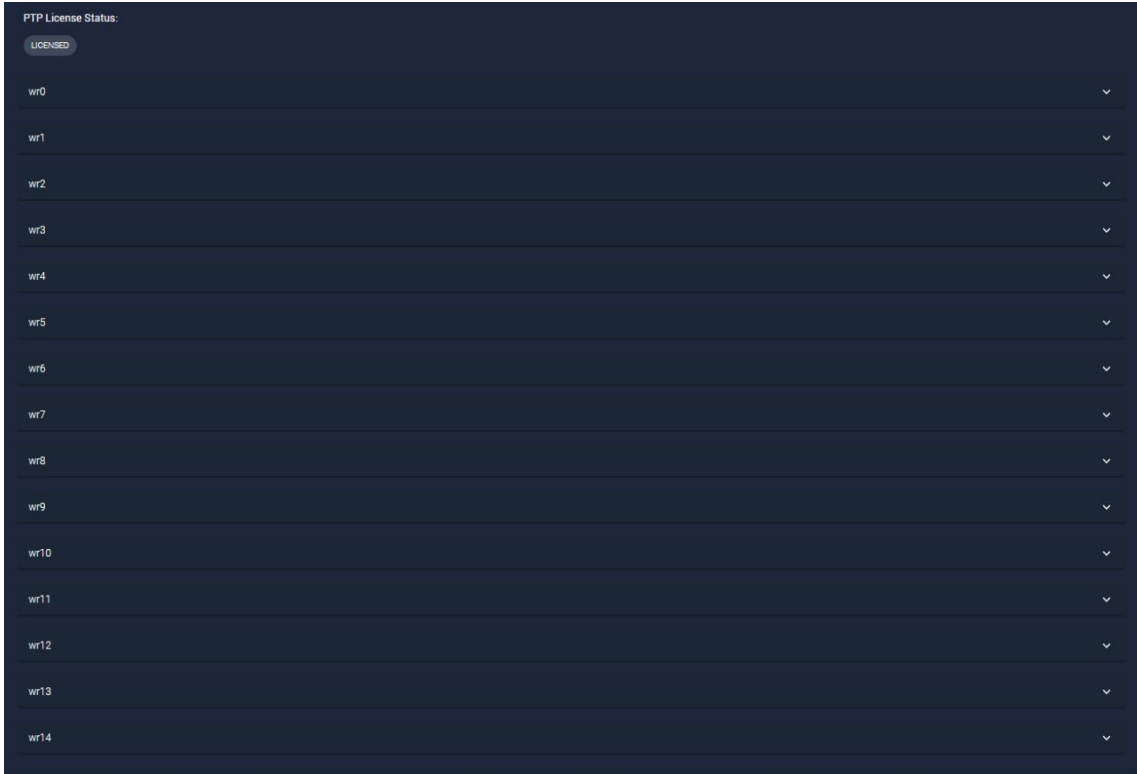
Click yes and the services will be disabled.

You can Enable the PTP services by following the same steps.

DISABLE PTP SERVICES		ENABLE PTP SERVICES	
EDIT PTP ETH0		EDIT PTP ETH1	
PARAMETER	VALUE	PARAMETER	VALUE
Profile	Default	Profile	Default
Delay Mechanism	Request-Response	Delay Mechanism	Request-Response

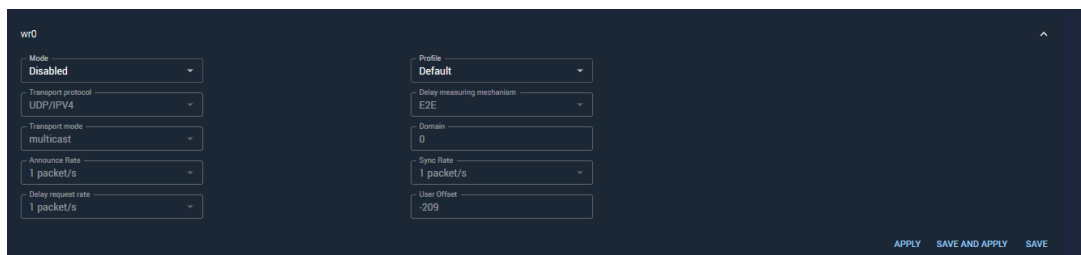
#### 4.3.6.8.2. Configuring PTP for White Rabbit devices

Select the device for which you want to configure PTP.



##### 4.3.6.8.2.1. Edit PTP interface

Select the interface that you wish to modify by clicking on the dropdown



Enter the updated settings and select the save or apply option to make changes. This will update the configuration as well as send the updated configuration to the device via its REST API.

#### 4.3.6.9. References

Select the device for which you want to configure References to view, edit and add new References config.

+ REFERENCE PRIORITIES				RESTORE DEFAULTS	
Priority	Time	PPS	Enabled		
1	PTP eth0	PTP eth0	YES		
2	GNSS 0	GNSS 0	NO		
3	User 0	User 0	NO		
4	Self	PPS Input 0	NO		
5	NTP 1	NTP 1	NO		

#### 4.3.6.9.1. New Reference Priority

Click the + REFERENCE PRIORITIES button to add a new reference priority.

### Add Reference Priority ✕

Priority

Time

PPS

Enabled

**APPLY**

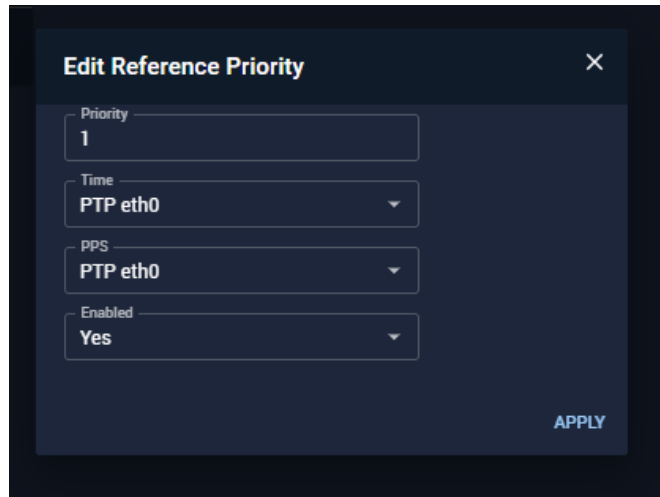
Fill out the form and click Add. This will add the configuration as well as send the configuration to the device via its REST API.

#### 4.3.6.9.2. Edit Reference Priority

Click the edit icon next to the configuration that you would like to modify.

+ REFERENCE PRIORITIES				RESTORE DEFAULTS	
Priority	Time	PPS	Enabled		
1	PTP eth0	PTP eth0	YES		
2	GNSS 0	GNSS 0	NO		

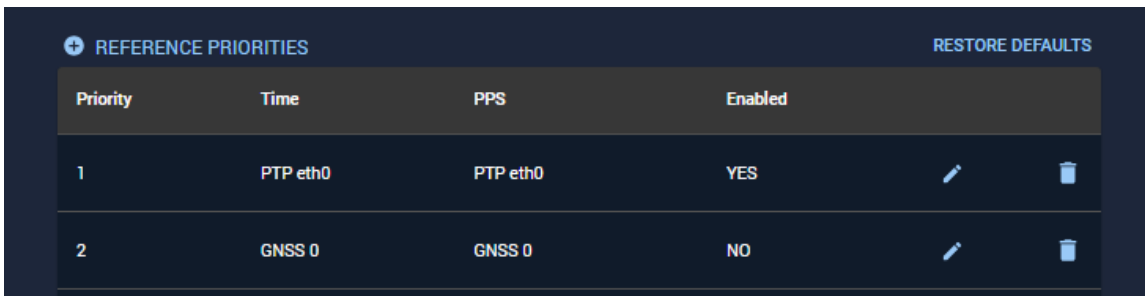
The current settings will be displayed in a modal.



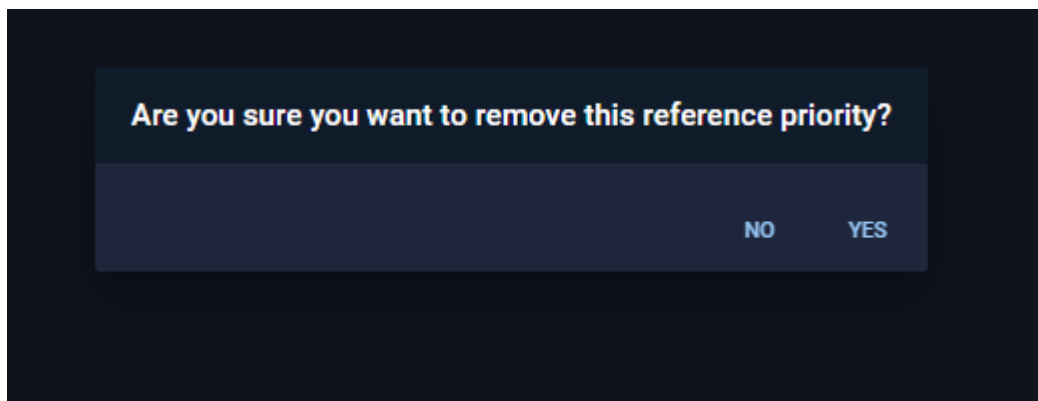
Enter the updated settings and click APPLY. This will update the configuration as well as send the updated configuration to the device via its REST API.

#### 4.3.6.9.3. Delete Reference Priority

Select the Reference Priority you wish to delete and click the delete icon.



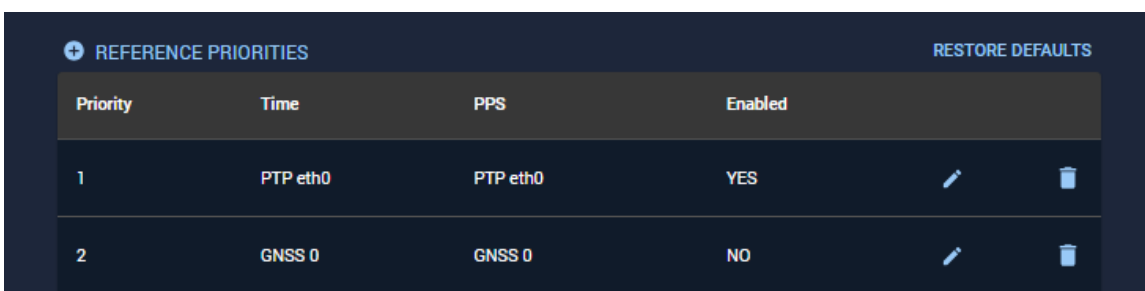
A modal will be displayed asking for confirmation that the Reference Priority should be deleted.



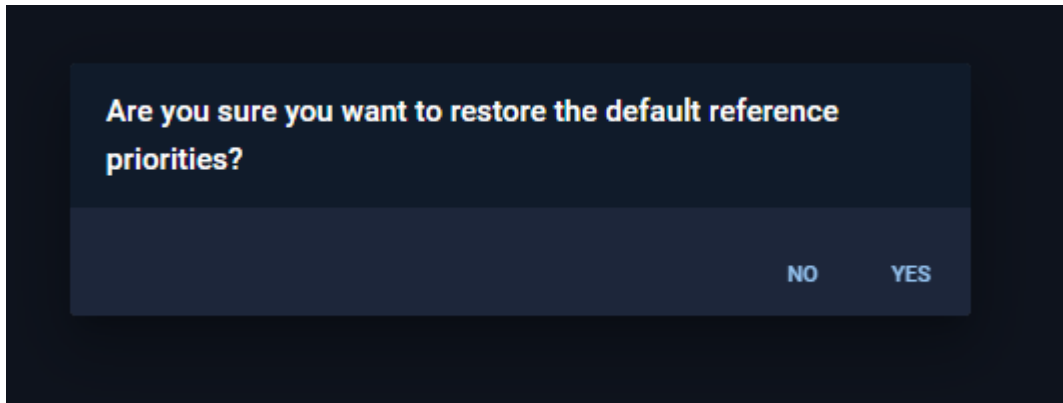
Click Yes and the configuration will be removed from the Reference Priorities list.

#### 4.3.6.9.4. Restore default configuration

Click on Restore Defaults to restore the default configuration



A modal will be displayed asking for confirmation that the configuration will be restored to defaults.



Click yes and the configurations will be restored to defaults.

#### 4.3.6.10. SNMP

**Note:** This section is currently only applicable to SecureSync devices.

Select the device for which you want to configure SNMP to view, edit and add new SNMP config.

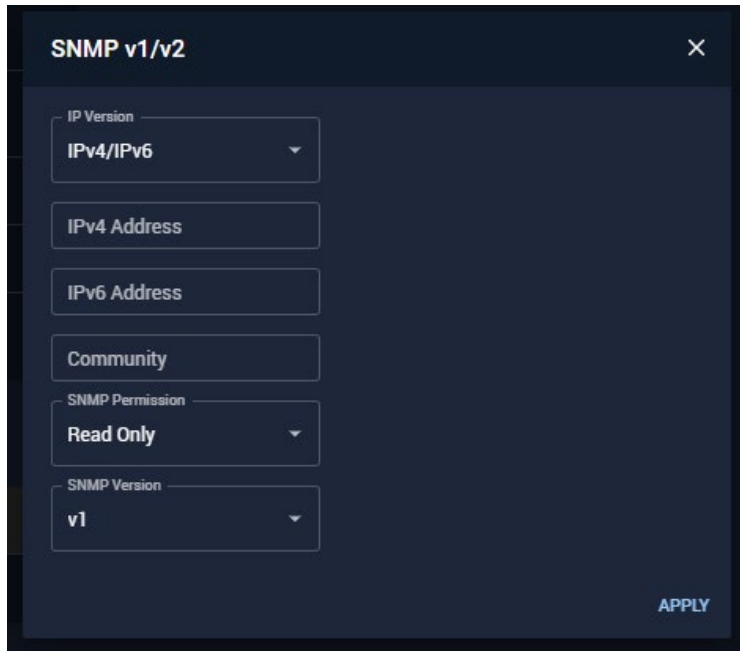
### SNMP v1/v2

+ NEW SNMP V1V2

Version	Group	Community	IP Version	IP Address	
v2c	Read Only	PNT360SNMP	IPv6	default	<span style="color: white; font-size: 1.2em;">i</span>
v2c	Read Only	PNT360SNMP	IPv4	default	<span style="color: white; font-size: 1.2em;">i</span>
v2c	Read Only	PNT360SNMP	IPv6	default	<span style="color: white; font-size: 1.2em;">i</span>
v2c	Read Only	PNT360SNMP	IPv4	default	<span style="color: white; font-size: 1.2em;">i</span>
v2c	Read Only	PNT360SNMP	IPv4	default	<span style="color: white; font-size: 1.2em;">i</span>

##### 4.3.6.10.1. New SNMP Configuration

Click the + button to add a new configuration.



The image shows a configuration modal titled "SNMP v1/v2". It contains the following fields:

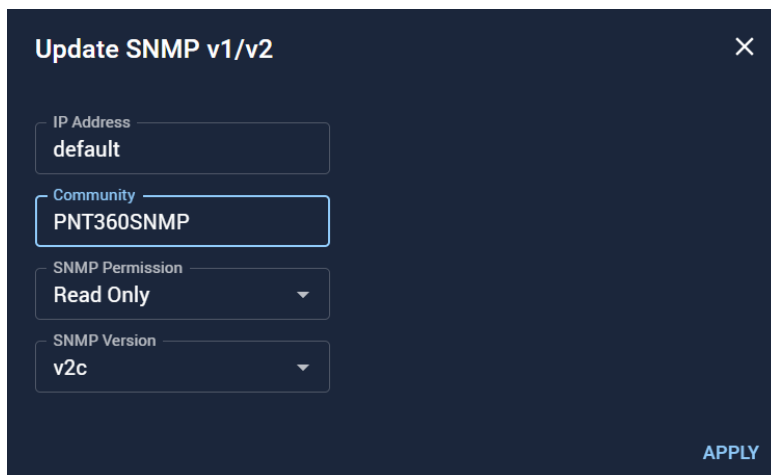
- IP Version: IPv4/IPv6 (dropdown)
- IPv4 Address: (text input)
- IPv6 Address: (text input)
- Community: (text input)
- SNMP Permission: Read Only (dropdown)
- SNMP Version: v1 (dropdown)

An "APPLY" button is located in the bottom right corner.

Fill out the form and select APPLY. This will add the configuration as well as send the configuration to the device via its REST API.

#### 4.3.6.10.2. Edit SNMP Configuration

Click the edit icon next to the configuration that you would like to modify.

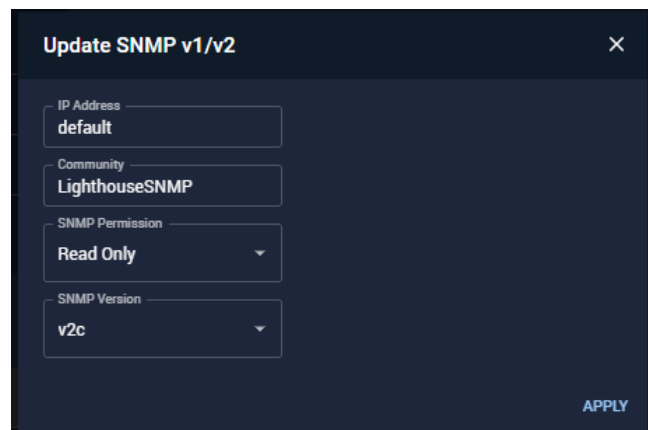


The image shows an "Update SNMP v1/v2" modal. It contains the following fields:

- IP Address: default (text input)
- Community: PNT360SNMP (text input)
- SNMP Permission: Read Only (dropdown)
- SNMP Version: v2c (dropdown)

An "APPLY" button is located in the bottom right corner.

The current settings will be displayed in a modal.



The image shows the "Update SNMP v1/v2" modal with updated settings:

- IP Address: default (text input)
- Community: LighthouseSNMP (text input)
- SNMP Permission: Read Only (dropdown)
- SNMP Version: v2c (dropdown)

An "APPLY" button is located in the bottom right corner.

Enter the updated settings and click APPLY. This will update the configuration as well as send the updated configuration to the device via its REST API.

### 4.3.6.11. SSH

Select the device for which you want to configure SSH




#### 4.3.6.11.1. Configure Host Keys

Fill out the form and click APPLY. This will add the configuration as well as send the configuration to the device via its REST API.

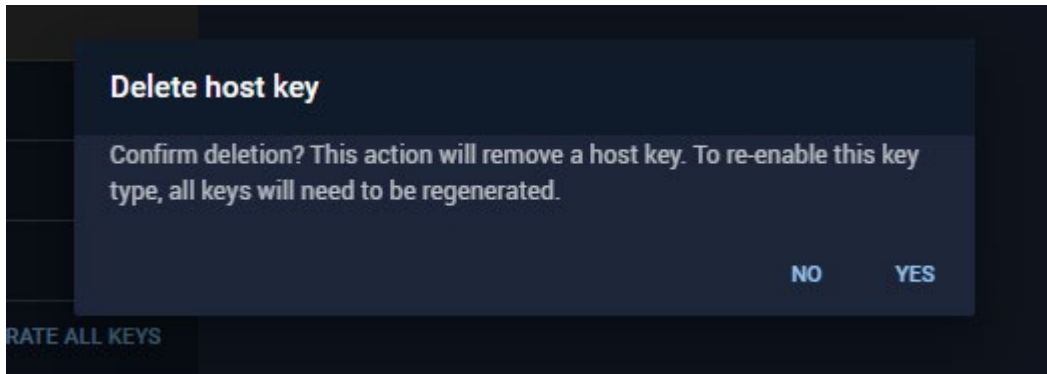
#### 4.3.6.11.2. Configure Public Key

Copy and paste your public key file and click APPLY

4.3.6.11.3. View/Delete Key Status

Key Status	
Key type	Status
RSA	Enabled 
ECDSA	Enabled 
ED25519	Enabled 
<a href="#">REGENERATE ALL KEYS</a>	




Click the delete icon to delete the Key that you want to delete. A modal will be displayed asking for confirmation that the host key should be deleted.



Click Yes and the host key will be removed from the Key Status list.

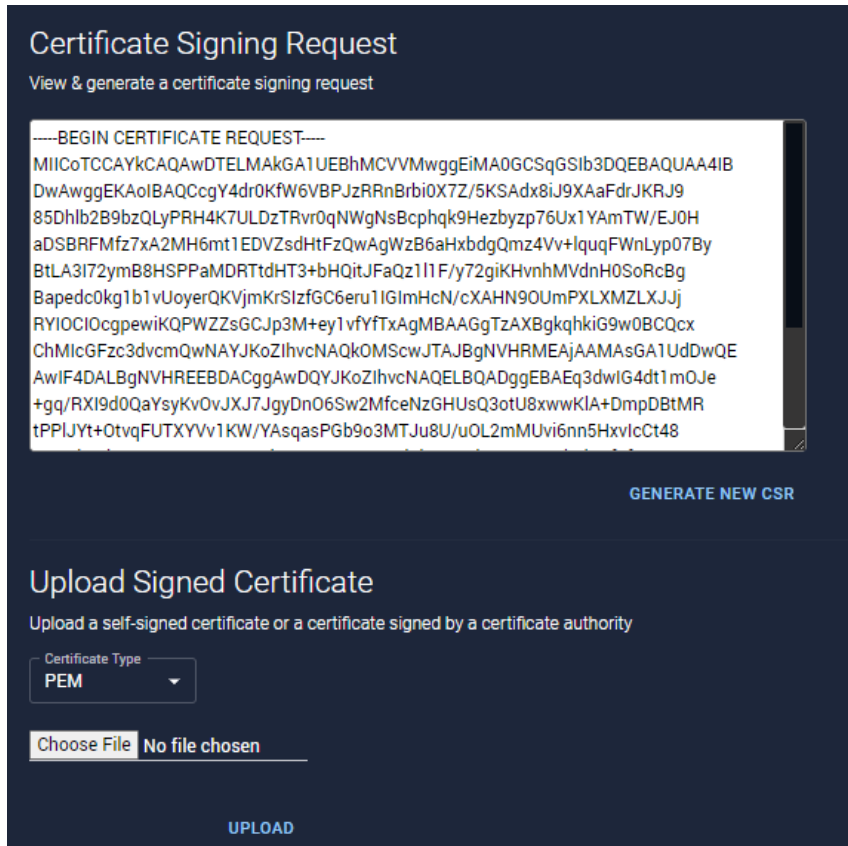
4.3.6.11.1. Regenerate Keys

Click Regenerate All Keys to enable the deleted host keys.

Key Status	
Key type	Status
RSA	Enabled 
ECDSA	Enabled 
ED25519	Enabled 
<a href="#">REGENERATE ALL KEYS</a>	

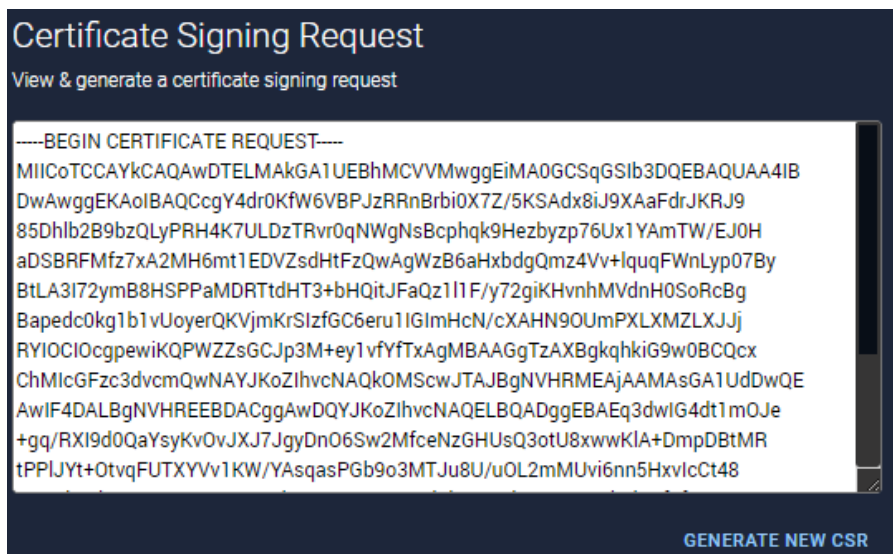
4.3.6.12. HTTPS

Select the device for which you want to configure HTTPS



4.3.6.12.1. Generate new CSR

Click on Generate New CSR to generate one.



Fill out the form and click Generate.

**Certificate Signing Request Form**
✕

All subject alternative names (SANs) will be included & must be added to the device before generating a certificate. To manage SANs on the device, visit <http://10.15.237.159/Ethernets> then click the Https button on the left.

Signature Algorithm

SHA256 ▾

Private Key Passphrase

RSA Private Key Bit Length

2048

Two Letter Country Code

[US] United States of America ▾

State or Province Name

Locality Name

Organization Name

Organizational Unit Name

Common Name (hostname or IP)

Email Address

GENERATE

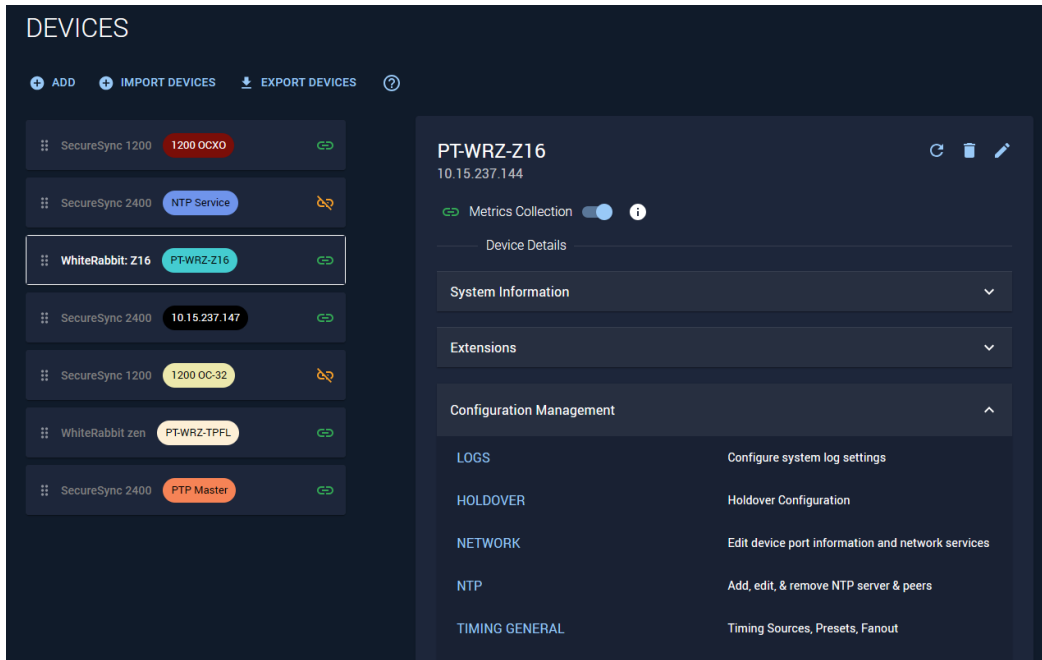
### 4.3.6.13. Timing General Configuration for White Rabbit Devices

#### 4.3.6.13.1. Overview

The Timing General Configuration section allows users to configure time sources, fanout configurations, and timing presets for White Rabbit devices. This ensures accurate time synchronization across the network.

#### 4.3.6.13.2. Accessing Timing General Configuration

To access Timing General configuration, navigate to the **Devices** tab, select a White Rabbit device and expand the **Configuration Management** dropdown menu. Select **Timing General** to access the available settings.



### 4.3.6.13.3. Configuring Timing General Settings

#### 4.3.6.13.3.1. Preset Configuration

Select a preset from the dropdown menu (e.g., BC: WRO | PTP). The selected preset defines default configurations for the device's timing and protocols and interfaces. Select "APPLY" to activate the preset or "SAVE" to store the changes.

#### 4.3.6.13.3.2. Time Sources

Multiple time sources can be configured to provide time data to the device. Each time source is listed (e.g., Time Source #1, Time Source #2). Configure the following fields for each source:

- **Type:** Select the type of time source (e.g., WR for White Rabbit).
- **Interface (Iface):** Specify the interface (e.g., WRO, ETH0) for the selected time source.

Expand additional time sources as needed to configure multiple inputs.

#### 4.3.6.13.3.3. Fanout Configuration

Fanout sources are used to distribute the synchronized time to other devices. Each fanout source is listed (e.g., Fanout Source #WRO, Fanout Source #ETH1). Configure the following fields for each fanout source:

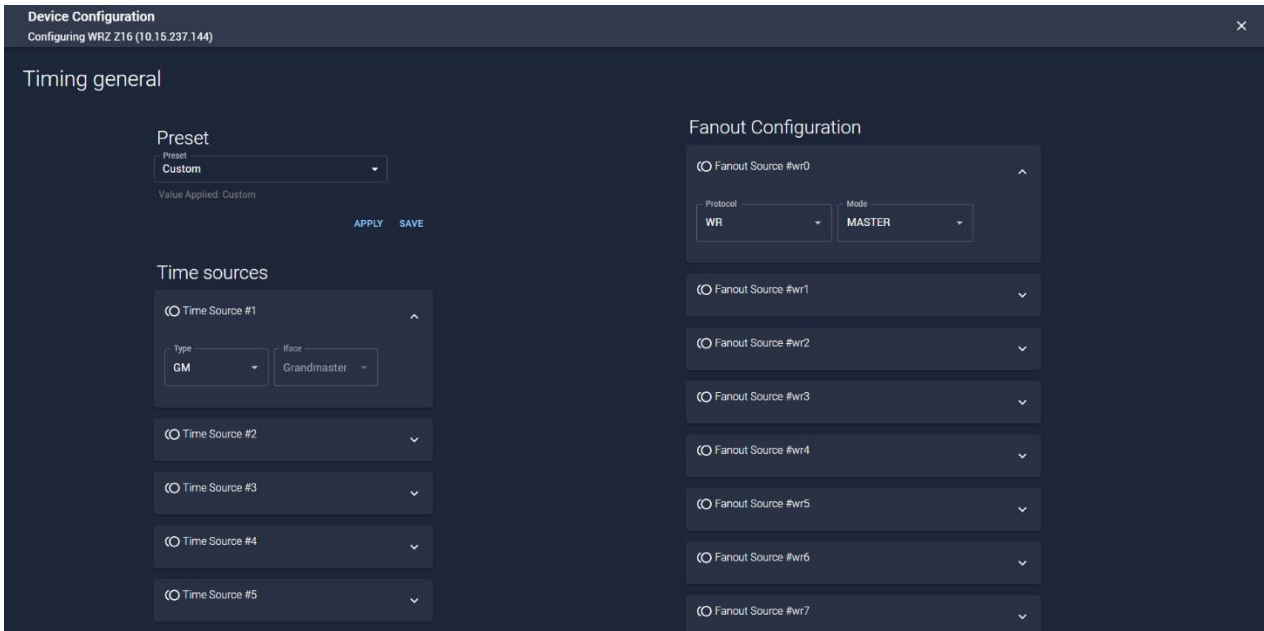
- **Protocol:** Select the protocol used (e.g., WR for White Rabbit, PTP for Precision Time Protocol).
- **Mode:** Set the mode (e.g., Slave, Master).

Select "APPLY" to activate the fanout configuration or "SAVE" to store the settings.

#### 4.3.6.13.4. Saving and Applying Changes

**APPLY:** Immediately implements the changes on the device.

**SAVE:** Stores the changes without immediately applying them, allowing further edits as needed.



#### 4.3.6.14. Misc Configuration for White Rabbit Devices

##### 4.3.6.14.1. Overview

The Misc Configuration section provides additional configuration options for managing timezone, PPS (Pulse Per Second) mode, leap second file alerts, and updating leap seconds. These settings enhance the device's regional and synchronization accuracy.

##### 4.3.6.14.2. Timezone Configuration

Allows you to set the device's timezone.

##### Steps:

- Select the desired timezone from the dropdown menu (e.g., Europe/Madrid).
- Select "APPLY" to implement the changes immediately.
- Alternatively, select "SAVE" to store the changes for later

##### 4.3.6.14.3. PPS Mode Configuration

Configures the Pulse Per Second (PPS) mode.

##### Options:

- Always ON: PPS is always output even if CRITICAL.
- Only Locked: PPS is only output if the active reference is locked.
- Legacy: PPS follows the same behavior as in the legacy release (wr-zynq-os-v2.x).

##### Steps:

- Choose the desired PPS mode from the dropdown menu.
- Select "APPLY" to activate the mode immediately or "SAVE" to save the configuration.

##### 4.3.6.14.4. Ignore Leap Seconds File Alerts

Enables or disables alerts related to issues with the leap seconds file.

##### Options:

- Yes: Disables alerts.
- No: Keeps alerts enabled.

##### Steps:

- Select your preference from the dropdown menu.

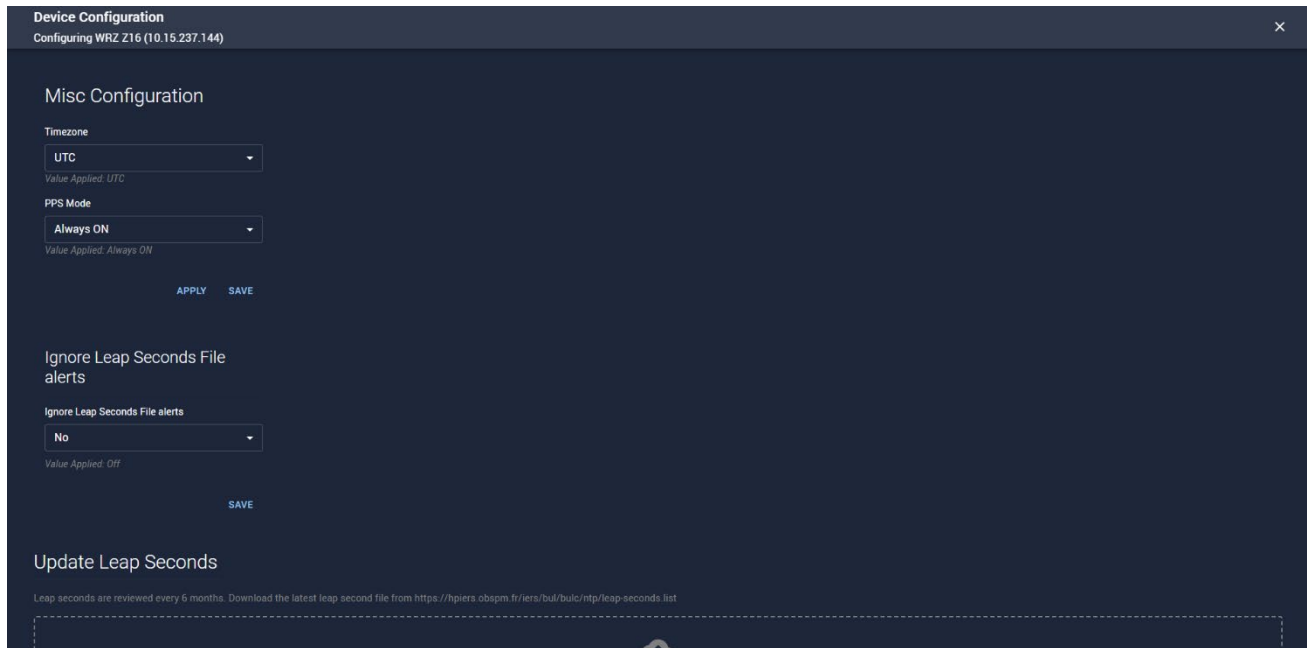
- Select “SAVE” to confirm the change.

#### 4.3.6.14.5. Updating Leap Seconds

Ensures timekeeping accuracy by updating the leap seconds file.

#### Steps:

- Download the latest leap second file from <https://hpiers.obspm.fr/iers/bul/bulc/ntp/leap-seconds.list>.
- Upload the file using the **Update Leap Seconds** section.
- Verify the upload to ensure the changes are applied.



### 4.3.6.15. Holdover Configuration (White Rabbit Devices)

#### 4.3.6.15.1. Overview

The Holdover Configuration feature allows users to set the parameters for how long the device can maintain timing accuracy in the absence of an external time reference. This ensures that the system continues to operate within acceptable accuracy limits during interruptions.

#### 4.3.6.15.2. Configurable Options

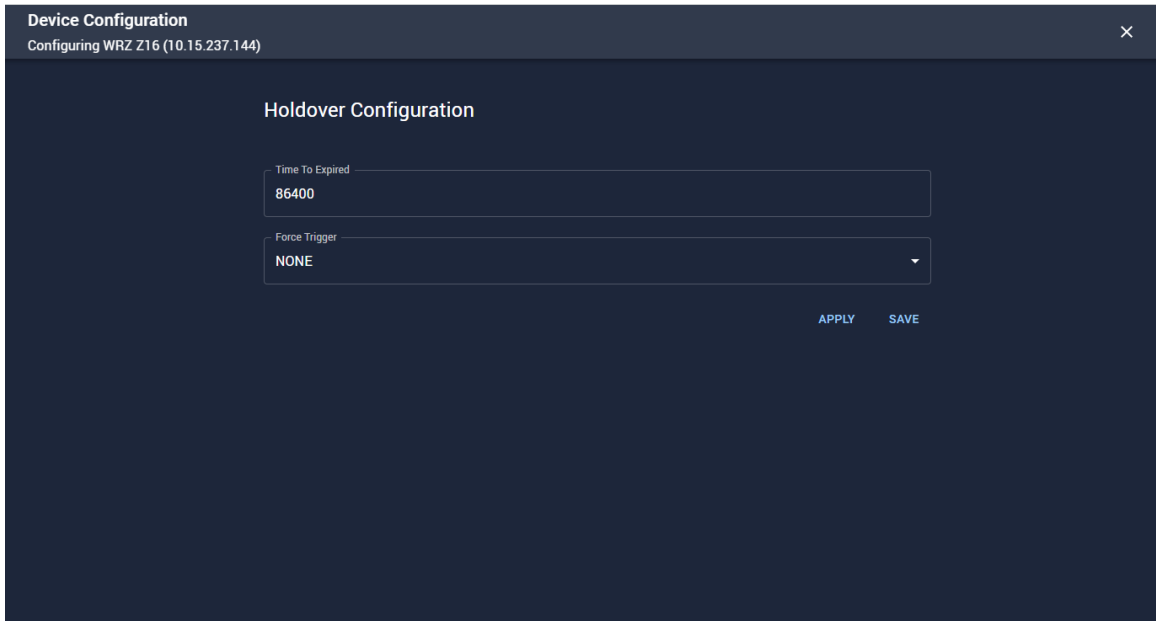
##### 1. Time to Expire:

- a. Time until the holdover is considered out of specification and expired (default ~24h).
- b. **Steps:**
  - i. Enter the desired duration in seconds in the input field.
  - ii. Select “APPLY” to implement the change immediately or “SAVE” to store the setting for future application.

##### 2. Force Trigger:

- a. The Force Trigger can manually trigger the holdover (START) or expire it (STOP) without waiting for the expiration timer. NONE does nothing.
- b. **Options:**
  - i. NONE
  - ii. START
  - iii. STOP
- c. **Steps:**
  - i. Select the desired trigger option from the dropdown menu.

- ii. Select “APPLY” to activate the selection immediately or “SAVE” to store the setting.



### 4.3.7. Reordering Devices

#### 4.3.7.1. Overview

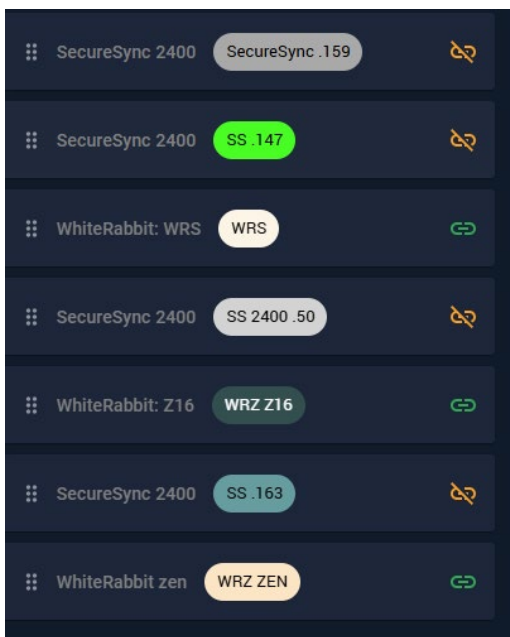
The Reordering Devices feature allows users to organize their device list manually by dragging and dropping devices into the desired order. This ensures a more intuitive and user-friendly experience when managing multiple devices.

#### 4.3.7.2. Drag-and-Drop Reordering

Reorder devices in the list of devices by dragging and dropping them into the preferred sequence.

#### Steps:

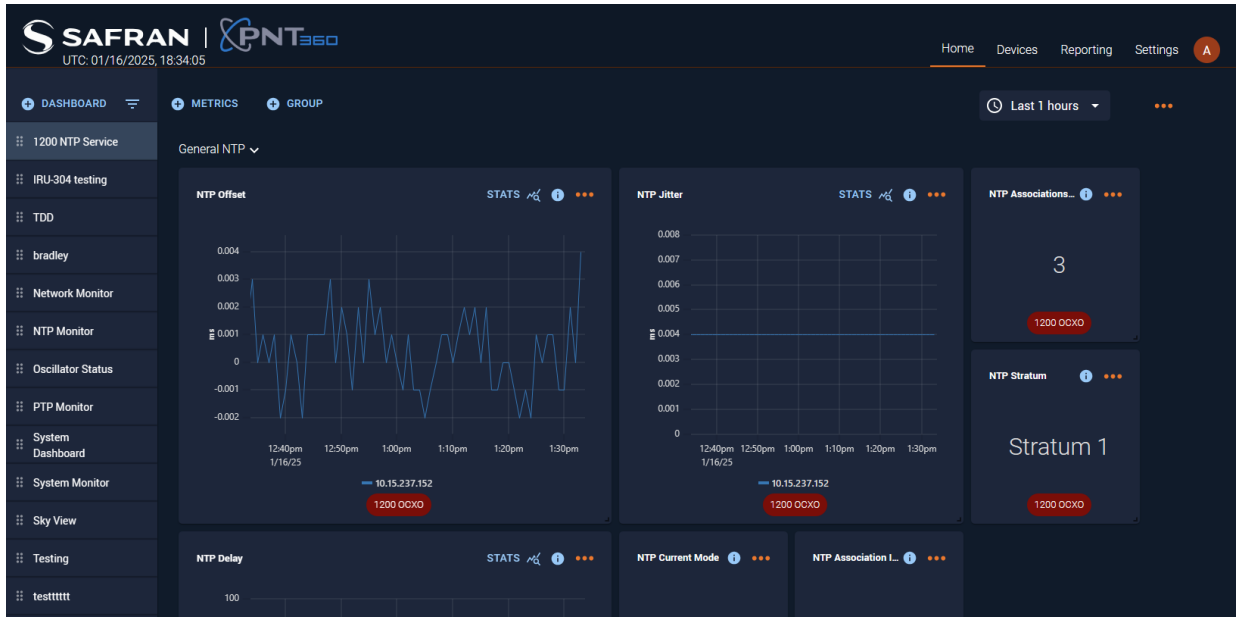
- Locate the **drag handle** (represented by the dotted grid icon) next to each device name.
- Click and hold the drag handle of the device you want to move.
- Drag the device to the desired position in the list.
- Release the mouse button to finalize the new order.



## 4.4. Dashboard Management

### 4.4.1. Add New Dashboard

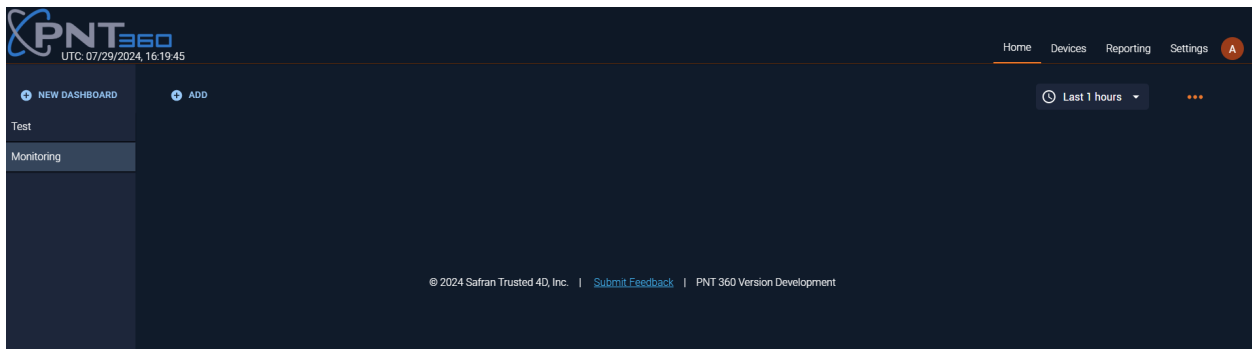
Login to the application and click “+ DASHBOARD.”



A modal will be displayed and ask for the dashboard name. Enter a name and click ADD.

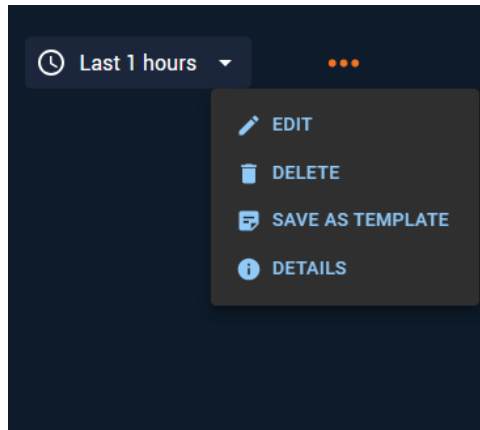
The screenshot shows a modal window titled 'Create new Dashboard' with a close button (X) in the top right corner. Inside the modal, there is a text input field labeled 'Name' with a cursor inside. At the bottom right of the modal, there is an 'ADD' button.

An empty dashboard will be created with no visible charts.

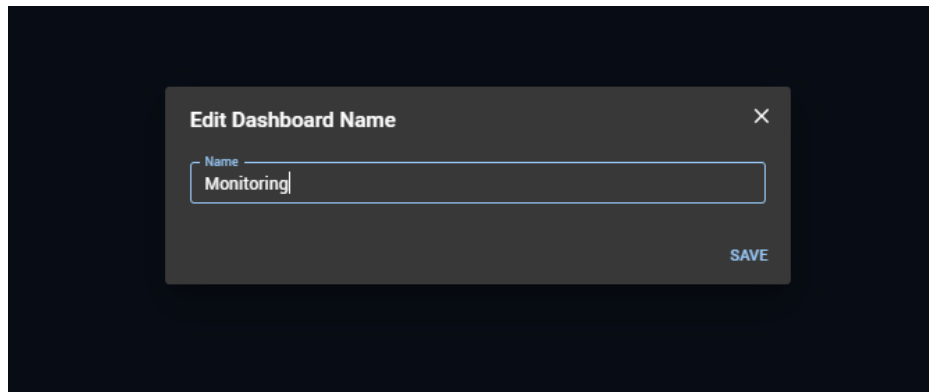


### 4.4.2. Edit Dashboard Name

Select the “more” ellipses and click Edit

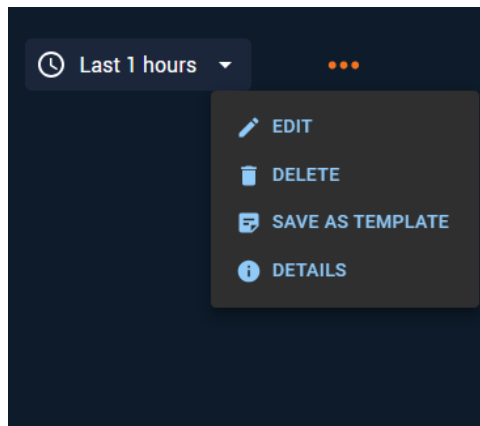


Enter a new dashboard name and click SAVE.

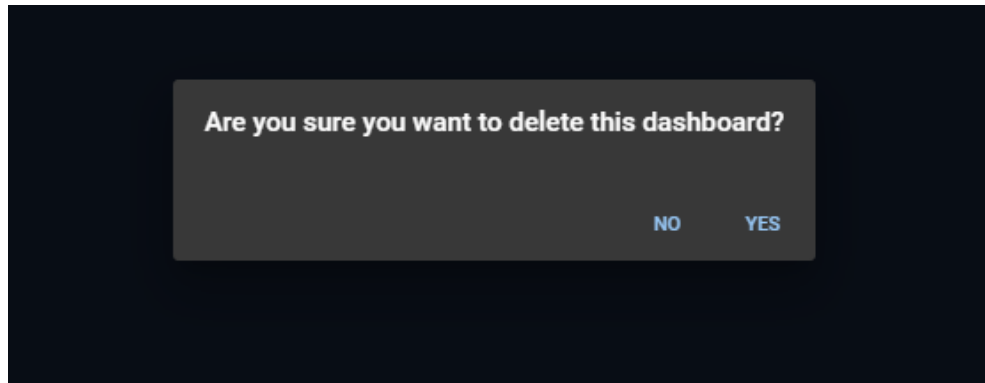


#### 4.4.3. Delete Dashboard

Select the “more” ellipses and select Delete.



A modal will be displayed asking for confirmation.



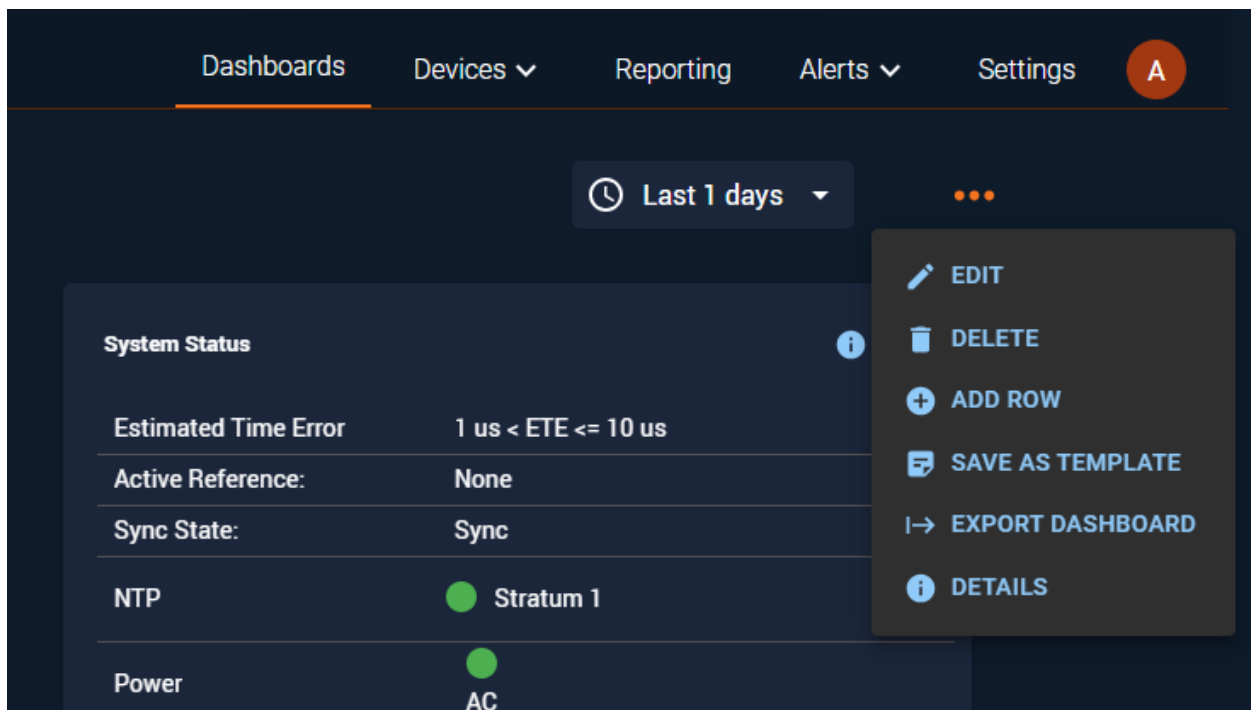
Select Yes to delete.

The dashboard and all of its components are deleted and you will be moved to the next available dashboard.

#### 4.4.4. Export Dashboard

Exporting a dashboard allows you to export the metrics data of the selected dashboard.

Select the ellipses in the desired dashboard, then select “EXPORT DASHBOARD.”



A window with export options will be displayed

Export Options:

- Select each individual metric from the list to see a preview of the data that will be exported.
- The selected time range is based on the time range displayed in the dashboard.
- Selecting Sync Data helps to align response time differences, reducing data gaps. Timestamp precision may vary by up to one minute.
- You can export to CSV or PDF file formats.
- An export preview and statistics preview are viewable to the right of the export options.

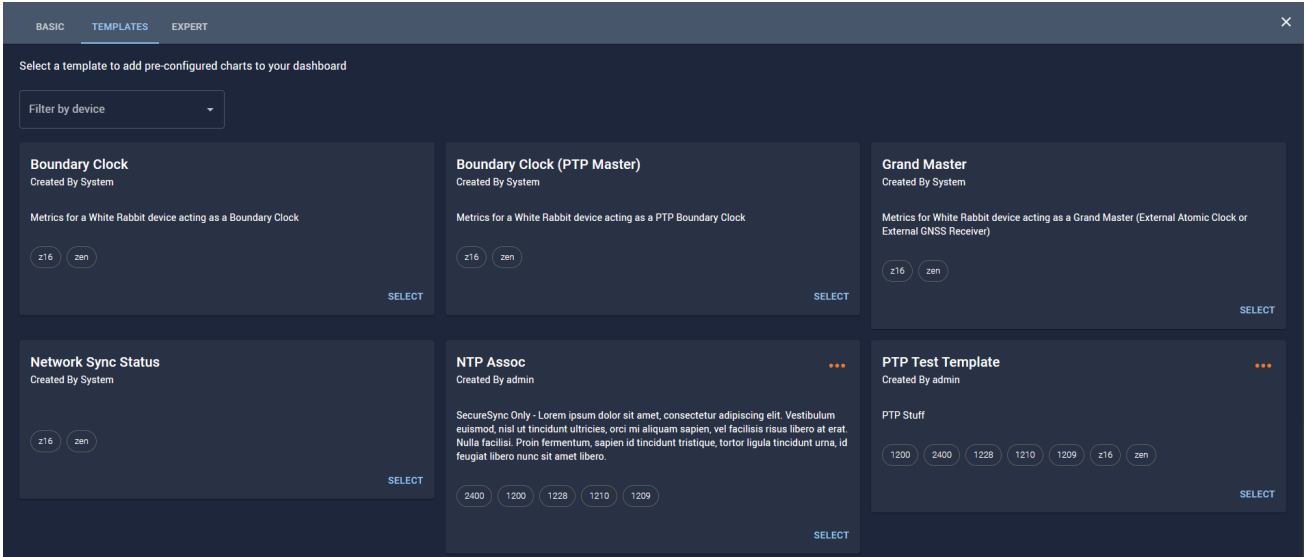
Select “EXPORT” to download the resulting file.

#### 4.4.5. Templates

Templates are pre-configured metrics charts that can be added to any dashboard.

##### 4.4.5.1. Accessing Templates

To access templates, first navigate to any existing dashboard. Select the “+ METRICS” button and select the **TEMPLATES** tab in the window that appears.



Templates can be filtered by device type using the device type filter.

All templates will display:

- Name
- Creator
- Description
- Supported Devices

#### 4.4.5.2. Using Templates

To use a template:

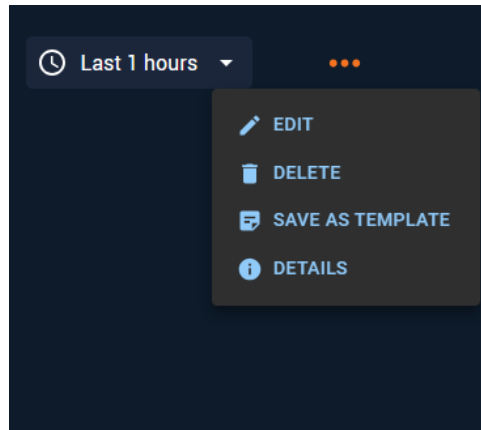
1. Select “**SELECT**” on the desired template.
2. Supported devices will be auto selected but you may remove devices.
3. Select “**GENERATE DASHBOARD**” to load the charts.



#### 4.4.5.3. Creating Templates

Users can export existing dashboards into reusable templates:

1. Navigate to the dashboard you would like to create a template of.
2. Select the “more” ellipses and select “**SAVE AS TEMPLATE.**”



3. A modal will be displayed with the following template settings.
  - Name (Required)
  - Description (Optional)
  - Supported Devices (Required, but will be pre-populated with existing supported devices)

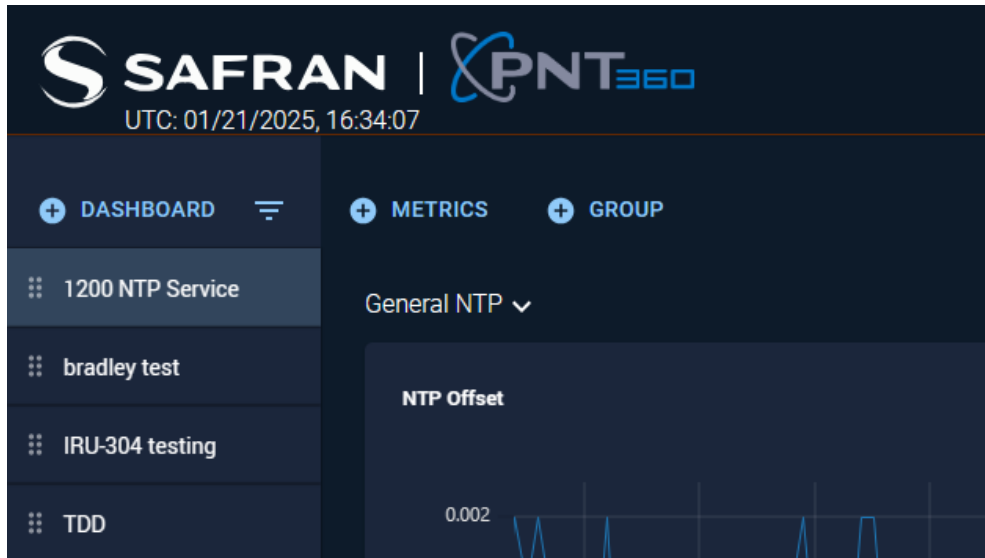
**Note:** You may select more than one supported device.

4. Select **“SAVE”** to save the template.

#### 4.4.6. Add Components to Dashboard

You can choose which components you want to visualize on your dashboard easily.

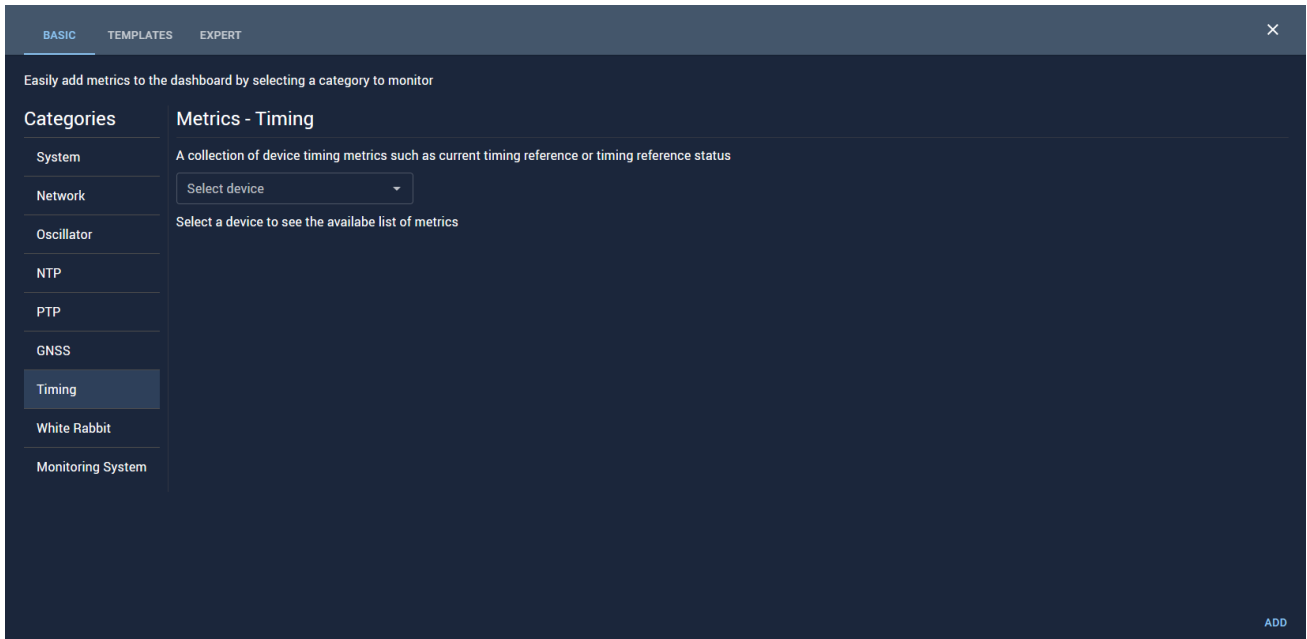
- Navigate to the dashboard you want to modify.
- Selecting the + METRICS button will allow you to add a collection of general metrics for a device.
- Selecting the + GROUP button will allow you to create a group to sort and organize metrics in the selected dashboard.



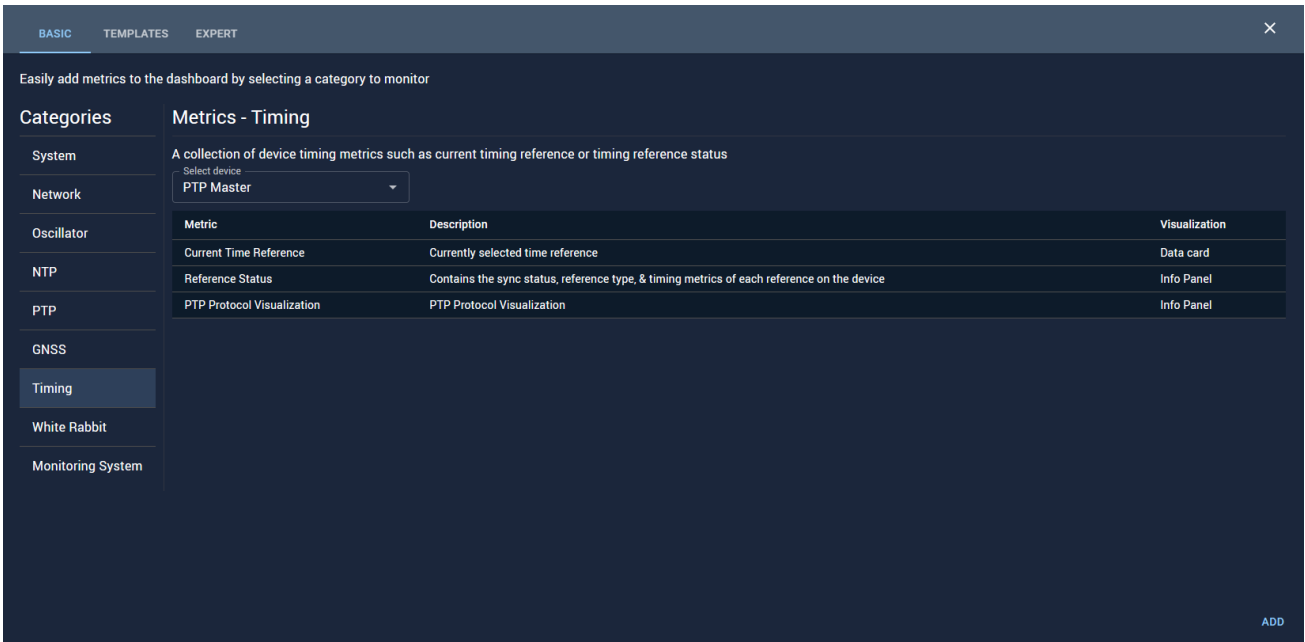
#### 4.4.6.1. Metrics

##### 4.4.6.1.1. Basic Mode

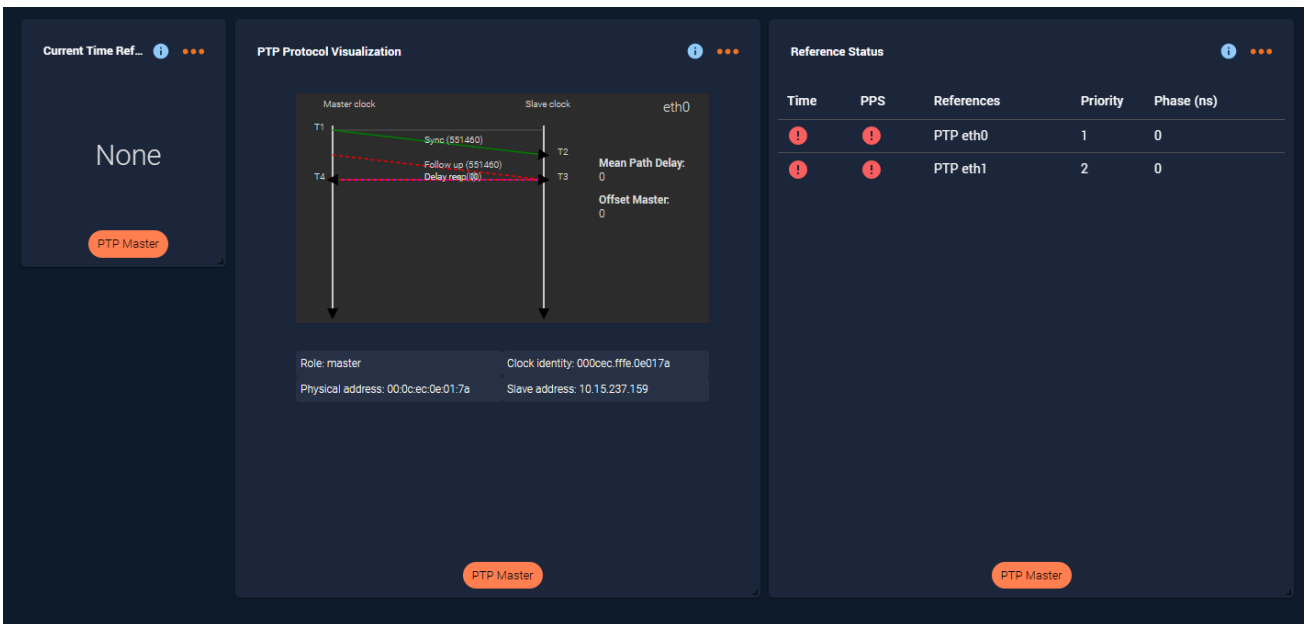
To create a basic mode metrics display, select the + METRICS button and navigate to the BASIC tab. Select a Category to easily add a collection of general metrics for a device.



Select the device to see the list of metrics available for the selected category.

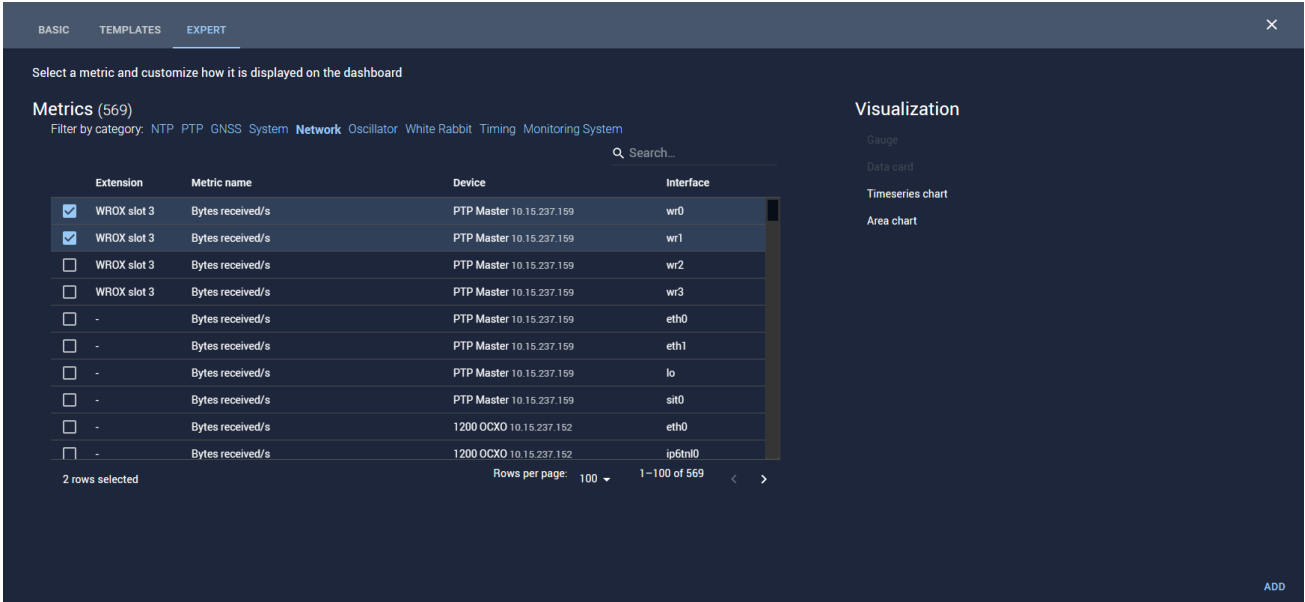


Select ADD to add the selected collection of metrics for the selected device to the dashboard.



#### 4.4.6.1.2. Expert Mode

To create an expert mode metrics display, select the + METRICS button and navigate to the EXPERT tab. Filter the metrics by category and select a metric by customizing how it is displayed.

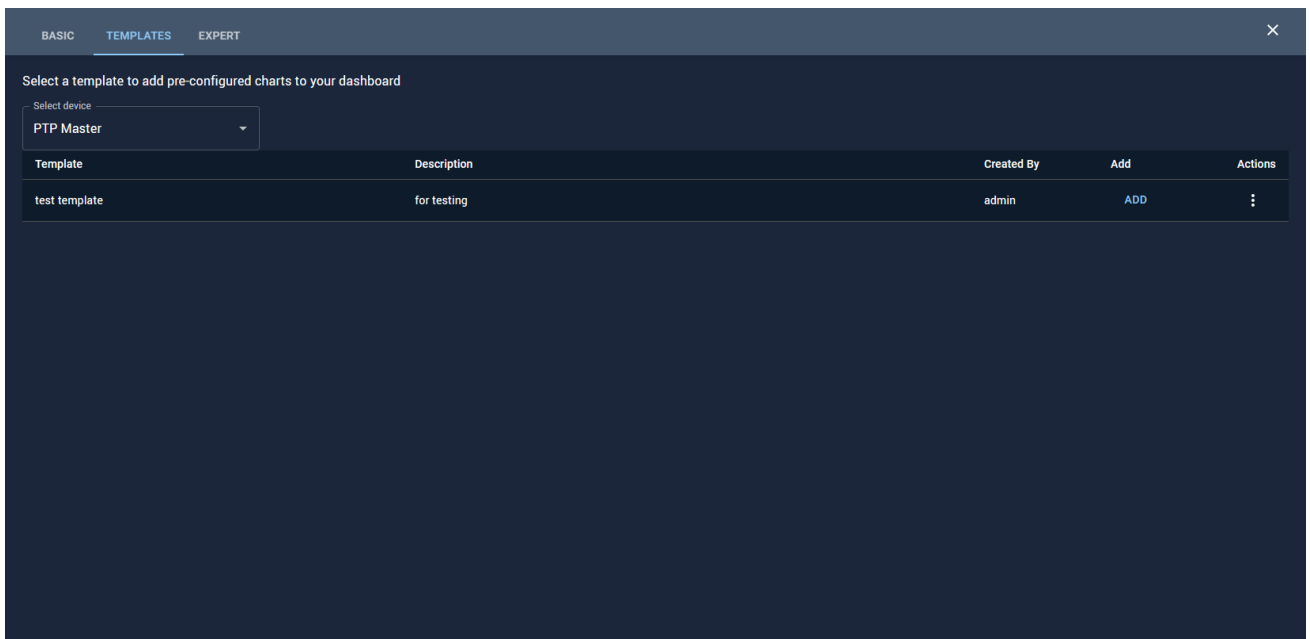


When the desired metrics are selected, select the **ADD** button to add them to your dashboard.

#### 4.4.6.1.3. Using Templates

Templates can be used to add saved, pre-configured charts to your dashboard.

- To use a template, select the + METRICS button and navigate to the TEMPLATES tab.

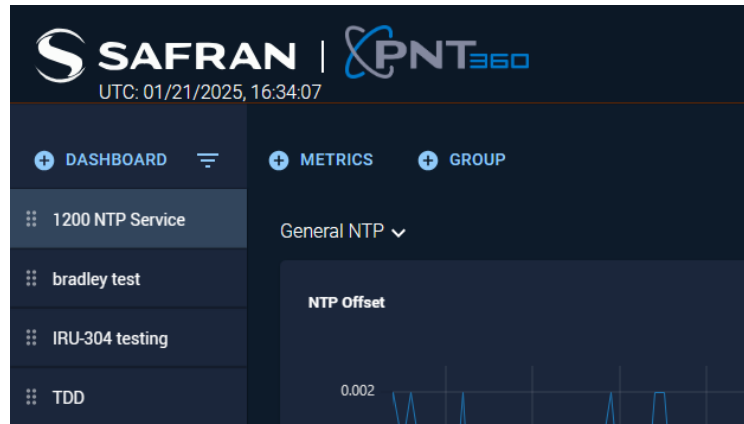


- Select a device from the dropdown menu and a list of available templates for the selected device will display.
- Select the ADD button to add the template to your dashboard.

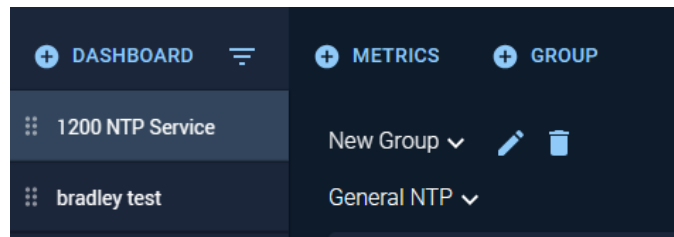
#### 4.4.6.2. Groups

Groups can be used to sort and organize metrics panels in your dashboard.

- With the desired dashboard selected, select the + GROUP button.



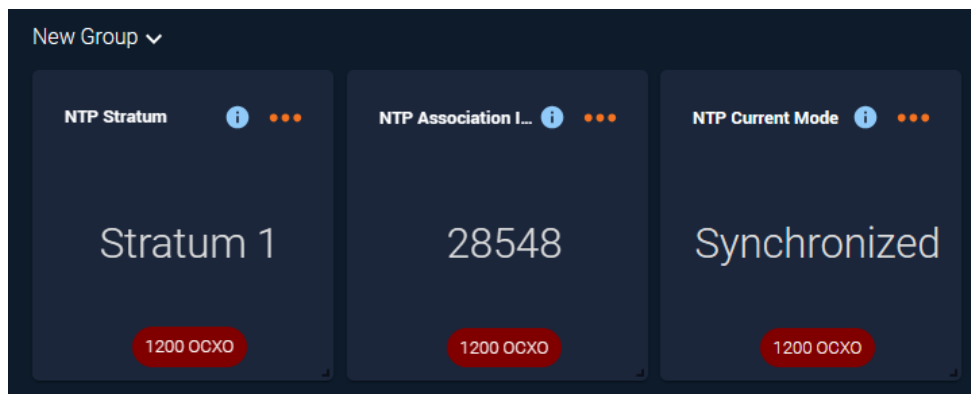
- A new group will be created, hovering over the group name will display the “edit” and “delete” icons.



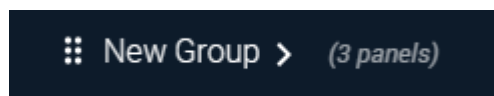
- Selecting the “edit” icon will display a modal that allows you to rename the selected group.
- Selecting the “delete” icon will display a modal confirming if you would like to delete the selected group.

**Note:** Deleting a group will not delete the panels residing within that group.

- You may drag and drop a metrics panel into a group by dropping the panel below the group name.

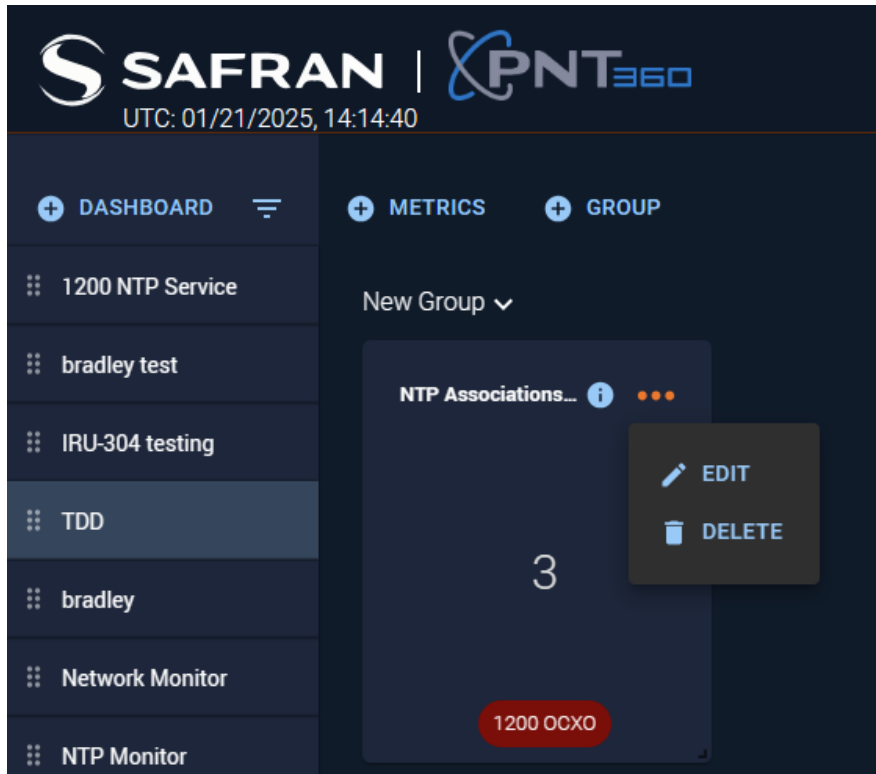


- Selecting the group will collapse the group, displaying a **drag handle** (represented by the dotted grid icon) that will allow you to drag and drop the group within the dashboard.

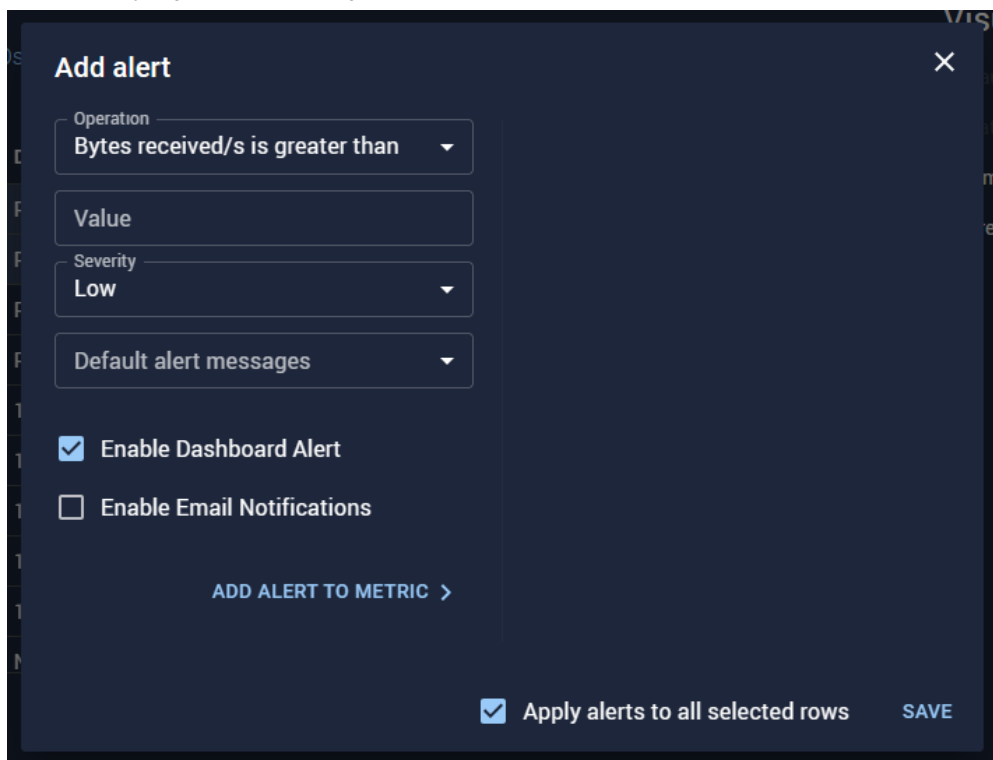


#### 4.4.7. Edit Dashboard Component

- In dashboard view, select the ellipses menu on the component you wish to edit.



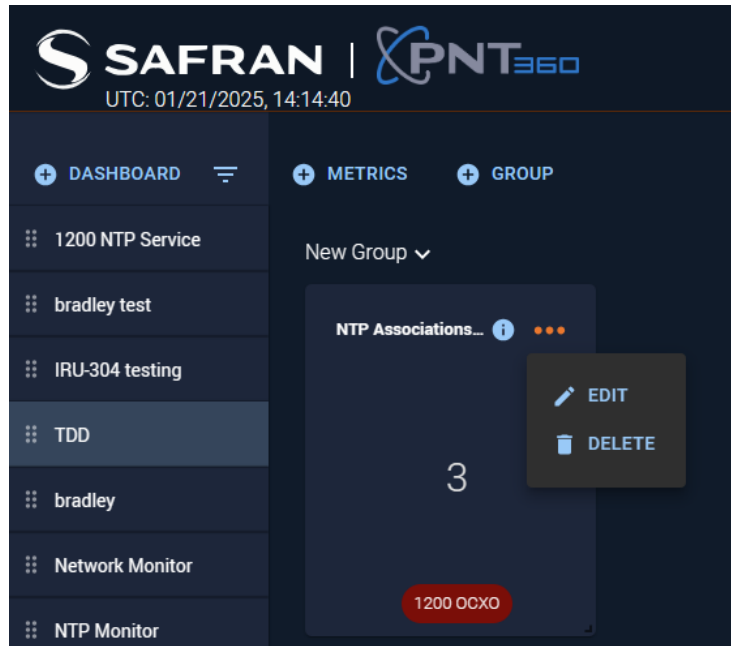
- Select Edit.
- A form will be displayed in which you can edit the details.



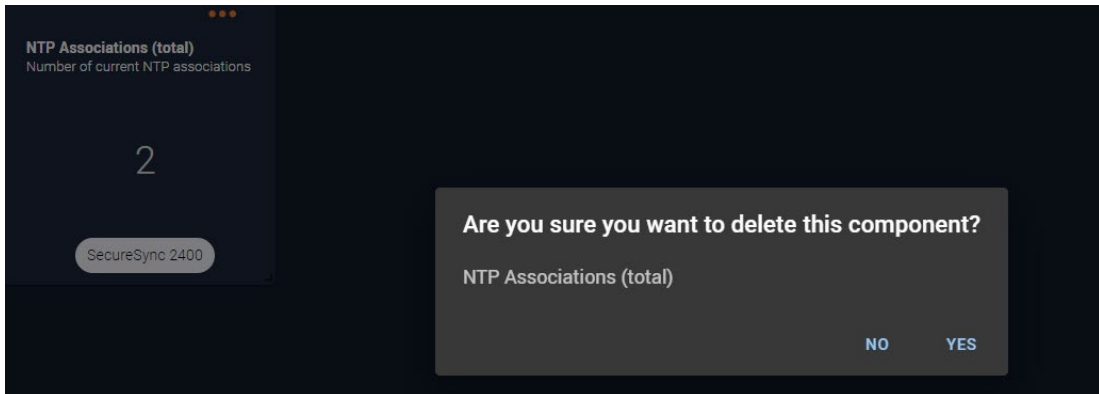
- Click SAVE when finished with changes.

#### 4.4.8. Delete Dashboard Component

- In dashboard view, select the ellipses menu on the component you wish to Delete.



- Click Delete.
- A modal will be displayed asking for verification of the delete action.



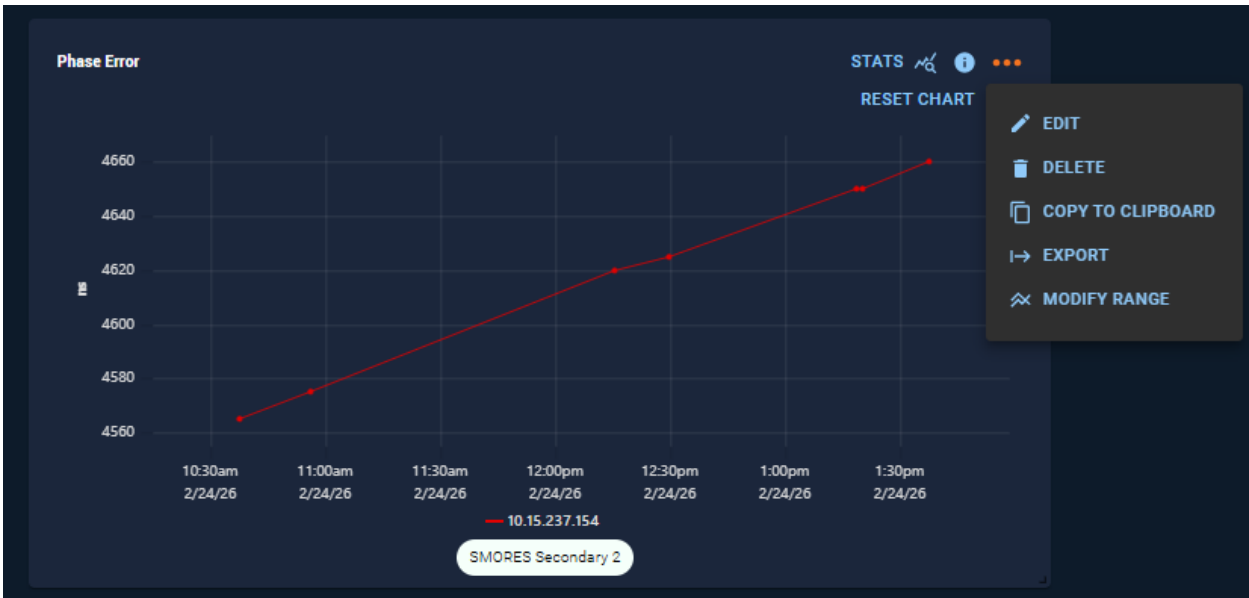
- Click yes if you are sure you wish to delete this component.

#### 4.4.9. Other Dashboard Component Features

Some dashboard component features are available only for specific visualization types. For more information on dashboard visualization types, see Dashboard Visualizations.

##### 4.4.9.1. Copy to Clipboard

The copy to clipboard feature will copy a screenshot of the selected component to your local system's clipboard. This feature is available for data card, gauge, timeseries chart, and area chart visualizations.



A message will appear indicating the component has been copied successfully. You can then paste to your desired application.

#### 4.4.9.2. Export Component Metrics

This feature allows you to export the metrics data from individual timeseries and area chart components.

To export metrics data from a component, select the ellipses menu and then select "Export."



A modal will be displayed with export options.

**Export Component Data**

**Metric**  
Phase Error

**Devices**  
SMORES Secondary 2

**Absolute Time Range**  
2/23/2026 2:02:21 PM → 2/24/2026 2:02:21 PM

Sync Data ⓘ

Export Statistics ⓘ

.csv **EXPORT**

**Export Preview**

Timestamp	Value
1771873383	3875
1771873443	3875
1771873503	3880
1771873563	3880
1771873623	3880
1771873683	3880

**No Outliers**

**Statistics Summary** Selected Source: SMORES Secondary ...

Statistic	Value
Mean	2746.0344827586205
Median	3885
Mode	null
Standard Deviation	1531.6760094115348
Range	785
Min	3875
Max	4660
P1	3875
P99	4658.2
Variance	141146.78362573098

**Export Options:**

- The selected time range is based on the time range displayed in the dashboard.
- Selecting Sync Data helps to align response time differences, reducing data gaps. Timestamp precision may vary by up to one minute.
- Selecting Export Statistics will include current, min, max, P1, P99, Mean, Variance, and Std Dev in the exported data.
- You can export to CSV or PDF formats.

An export preview and a statistics preview are viewable to the right of the export options.

When you are finished configuring the export options, select “EXPORT” to download the resulting file.

**4.4.9.3. Modify Timeseries Range**

This feature allows you to modify the y-axis range for any timeseries chart component in a dashboard.

Select the ellipses menu in the component you wish to modify.



A modal will be displayed with fields for the min and max, and an option to exclude outliers.

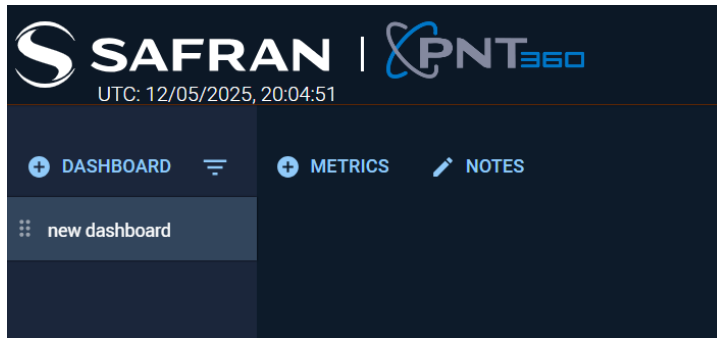
Enter desired values and select “APPLY.” If exclude outliers is selected, you will be presented with options to define the bottom and top percentiles to exclude.

#### 4.4.10. Dashboard Notes

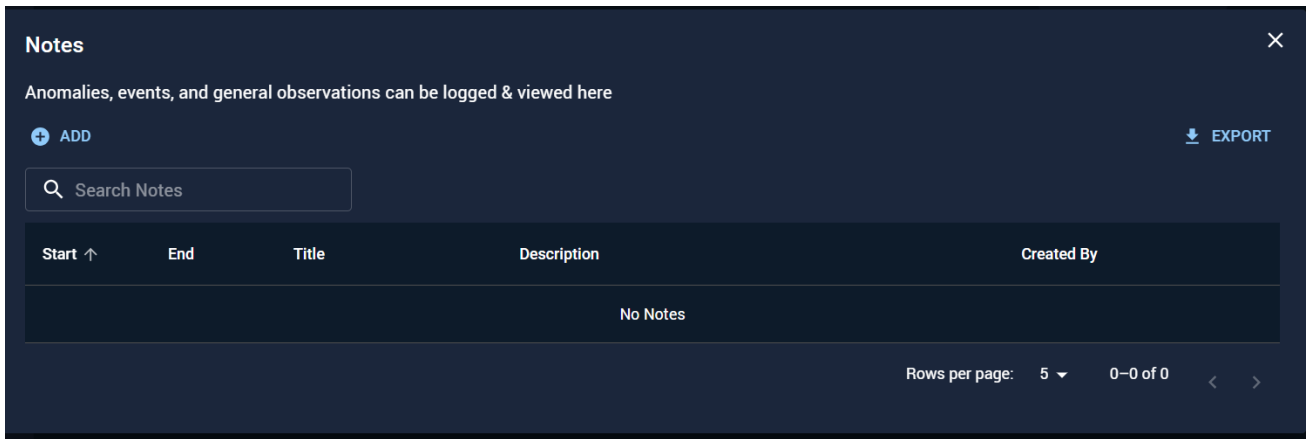
The Notes feature personalizes a log of events that happen within a customer infrastructure. Notes can correlate to specific metrics and are made visible on timeseries and area charts to aid understanding of changes to certain metric behaviors.

##### 4.4.10.1. Viewing Notes

To view all notes, click on the “Notes” button at the top of a dashboard

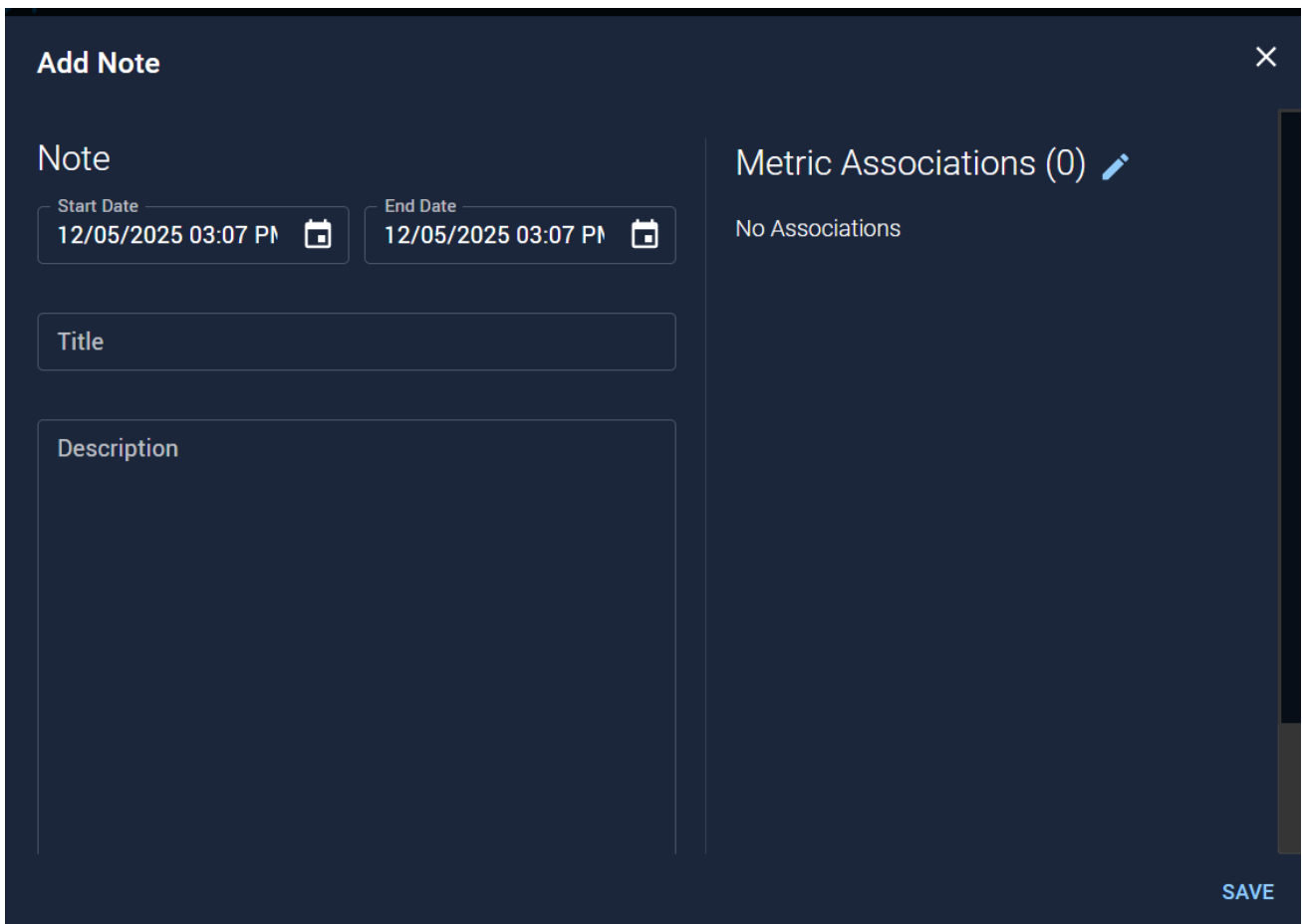


Clicking the Notes button will open the Notes modal, where all notes can be viewed, edited, and deleted, and where new notes can be added.

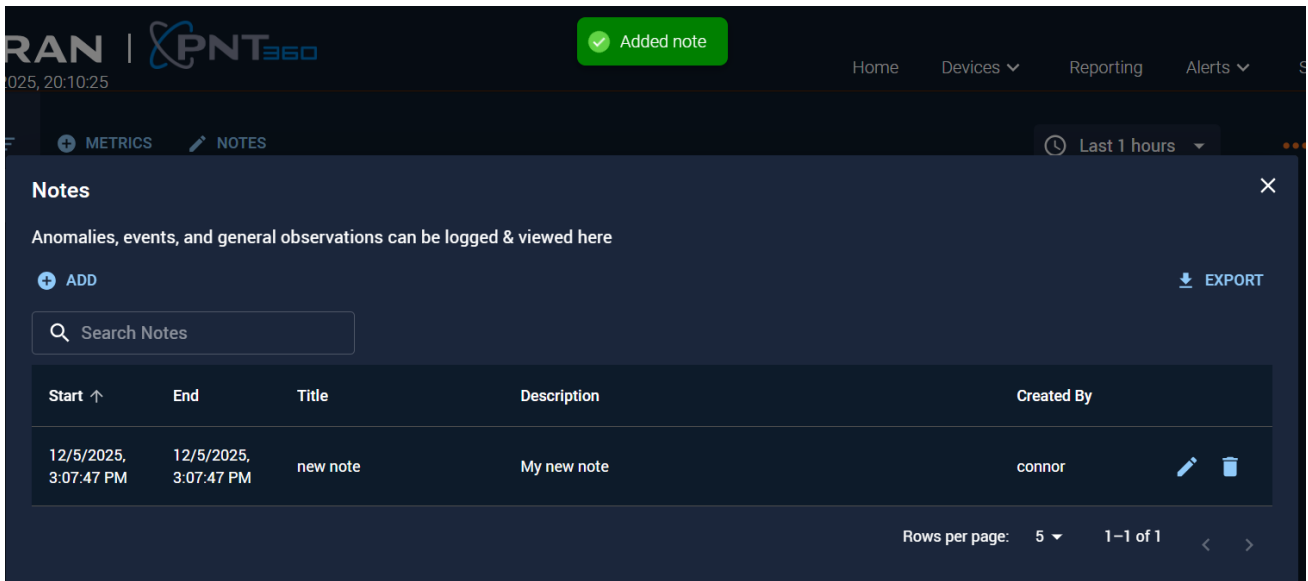


#### 4.4.10.2. Adding a new Note

To add a new note, click the “+ Add” button in the Notes modal. This will open the Add Note modal.

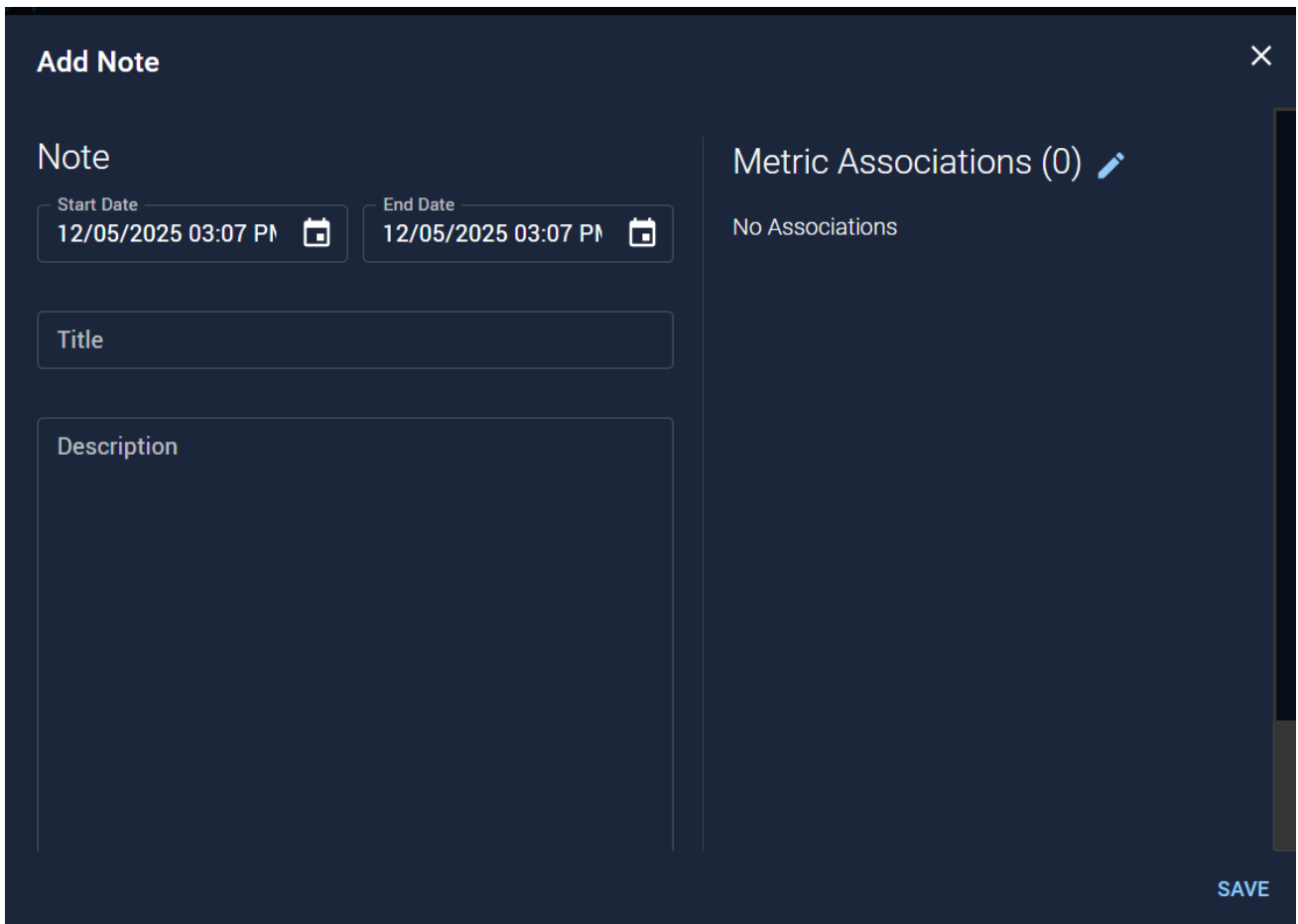


To create a note without any metric associations, simply specify a start and end date, enter a title and description, and click “Save”. You should see a confirmation message and be redirected to the Notes modal, where you will see your new note.



#### 4.4.10.3. Optional: Adding Metric Associations

If you wish to associate your note with a particular metric, you can configure this from the Add Note modal by clicking the pencil next to “Metric Associations”, opening the Add Note Associations modal



From the Add Note Associations modal, one or multiple metrics can be selected to associate with the given note. After all selections are made, click “Continue” to close the Add Note Associations modal

Add Note Associations
✕

## Metrics (2198)

Filter by category: [NTP](#) [PTP](#) [GNSS](#) [System](#) [Network](#) [Oscillator](#) [White Rabbit](#) [Timing](#) [Monitoring System](#)

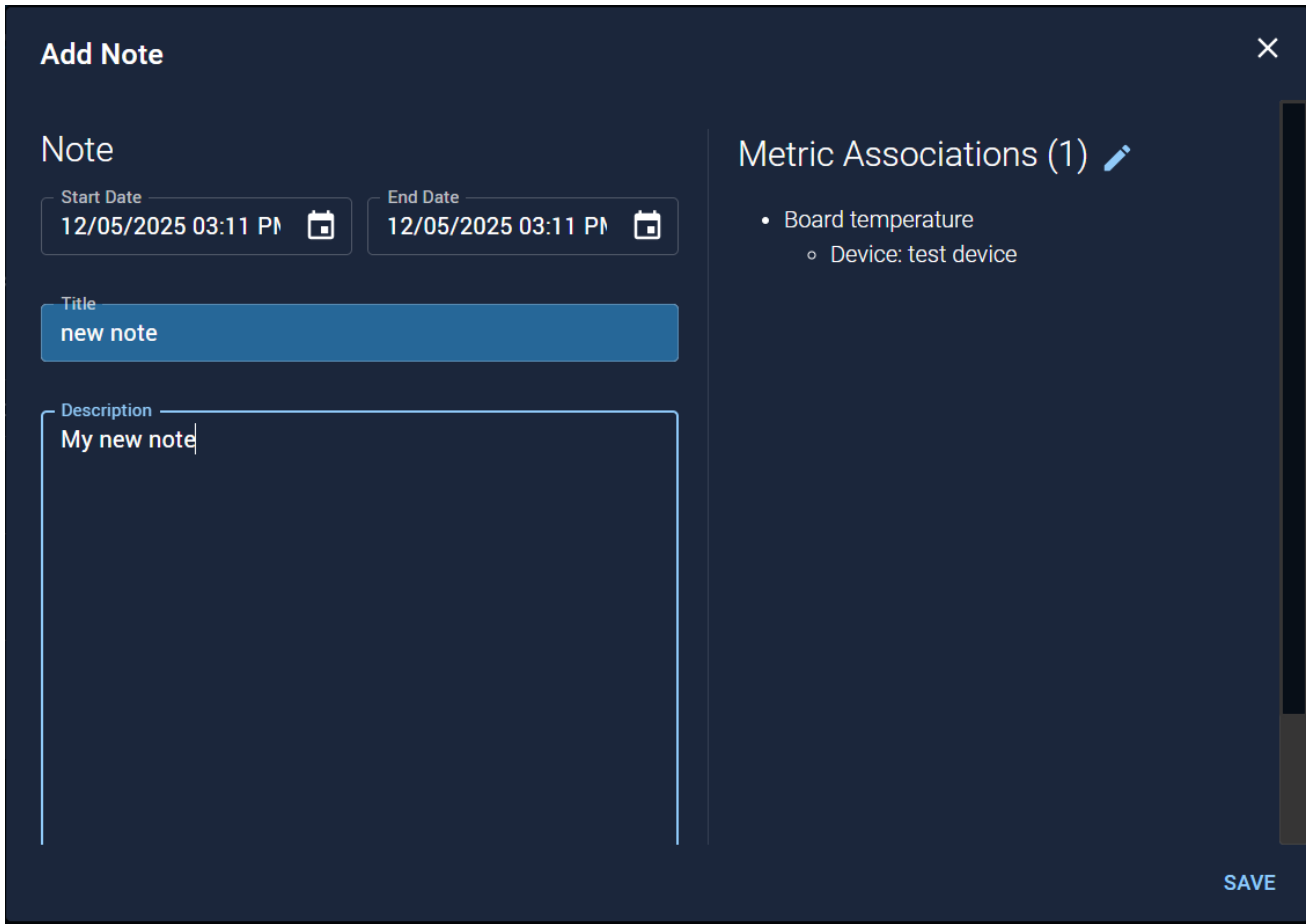
✕

Extension	Metric name	Device	Interface
<input type="checkbox"/>	-	Zen 10.15.237.145	-
<input type="checkbox"/>	WROX slot 3	test device 10.15.237.159	-
<input checked="" type="checkbox"/>	-	test device 10.15.237.159	-
<input type="checkbox"/>	-	option card 2400 10.15.237.50	-
<input type="checkbox"/>	-	fake 127.0.0.2	-
<input type="checkbox"/>	-	Z16 10.15.237.164	-
<input type="checkbox"/>	-	testv3 10.15.237.144	-
<input type="checkbox"/>	-	1200 10.15.237.150	-

1 row selected
Rows per page: 100 ▾
1–8 of 8
< >

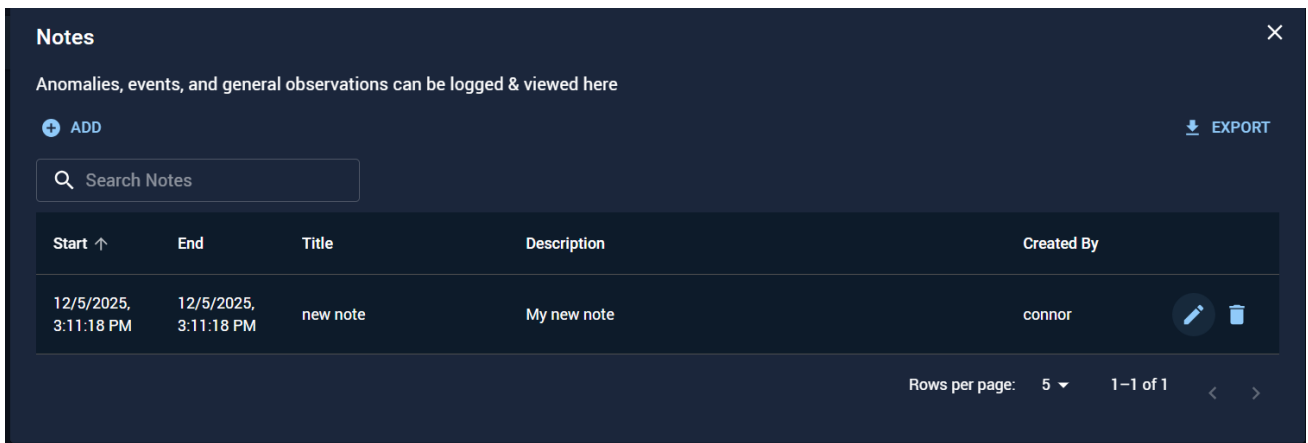
CONTINUE

You will be redirected to the Add Note modal, where you will see the selected metrics displayed in the Metric Associations panel on the right side of the modal. Metric Associations can be edited by clicking the pencil next to Metric Associations to reopen the Add Note Associations modal. To complete note creation, specify a start and end date, add a title and description, and click “Save”.



**4.4.10.4. Editing a Note**

To edit a note, click the pencil icon next to the note you'd like to edit in the Notes modal



This will open the Edit Note modal, where the Start Date, End Date, Title, Description, and Metric Associations can be edited. Once all desired changes are made, click Save to save your changes.

**4.4.10.5. Deleting a Note**

To delete a note, click the trash can icon next to the desired note in the Notes modal.

**Notes** ✕

Anomalies, events, and general observations can be logged & viewed here

+ ADD ↓ EXPORT

🔍 Search Notes

Start ↑	End	Title	Description	Created By
12/5/2025, 3:11:18 PM	12/5/2025, 3:11:18 PM	new note	My new note	connor <span>✎</span> <span>🗑️</span>

Rows per page: 5 ▾ 1-1 of 1 ⏪ ⏩

A modal will appear asking for confirmation to delete the note. Click No to close the modal and keep the note. Click Yes to delete the note.

**Delete Note**

Do you want to delete this note?

NO YES

#### 4.4.10.6. Viewing notes on Timeseries Charts

A note without metrics correlation will be visible on any timeseries chart displaying the time period the note is associated with.

This note starts at 2:24 PM and ends at 3:24 PM. It will be visible on a timeseries chart displaying data during this timeframe.

**Notes** ✕

Anomalies, events, and general observations can be logged & viewed here

+ ADD ↓ EXPORT

🔍 Search Notes

Start ↑	End	Title	Description	Created By
12/5/2025, 2:24:10 PM	12/5/2025, 3:24:10 PM	new note	My new note description	connor <span>✎</span> <span>🗑️</span>

Rows per page: 5 ▾ 1-1 of 1 ⏪ ⏩



Double-clicking a note will adjust the timeframe of the timeseries chart to be that of the note. Single-clicking a note will open the Edit Note modal, where the note can be edited.



If a note has any metric associations, it will only be visible on a timeseries chart displaying those metrics.

#### 4.4.11. Dashboard Visualizations

**Data Card:** The data card is available to display singular values that are either the most recent current value or a static value that does not change.

**Gauge:** The gauge is available to display singular current values of data that you wish to view within a standard range such as a temperature or a percentage value. Useful for quick assessments of whether a value is within a safe, expected, or critical range.

**Timeseries:** The timeseries chart is available to display data over a range of time with an x and y axis. This timeseries chart has a zoom function, as well as a pause and filter function.

**Area Chart:** The area chart is available and works like the timeseries chart. The area chart fills specific areas under the plotted lines, which provides a visual representation of volume or magnitude.

**Sky View Visualization:** The sky view visualization provides a graphical representation of the elevation and azimuth of in-view satellites. It displays the position and movement of satellites in real-time, help users monitor their visibility and trajectory relative to the device's location.

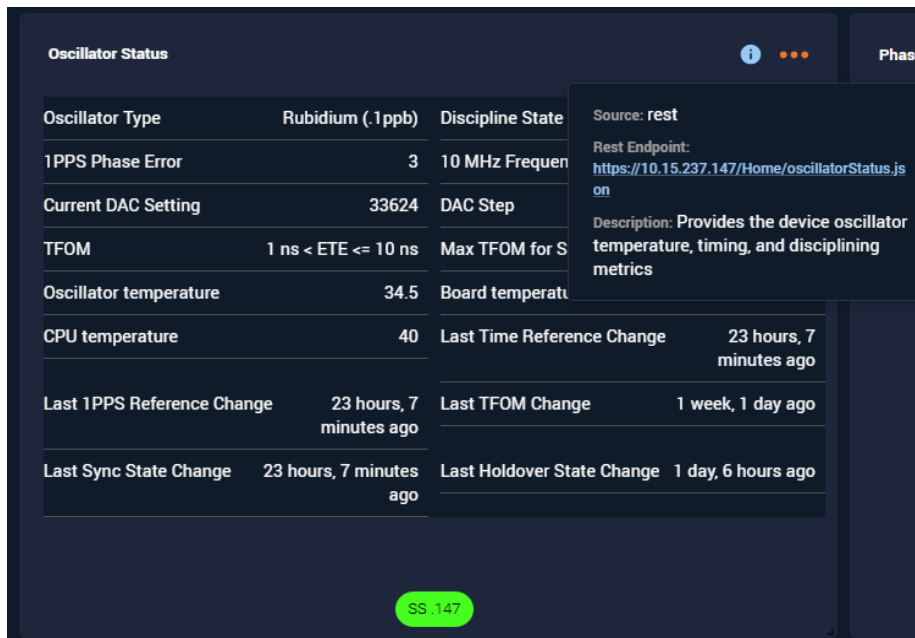
##### 4.4.11.1. Info Icons in Visualizations

**Info Tooltip:** Provides detailed information about the data source, collection method, and additional context for the visualization. To access, hover over the info icon (i) in any visualization chart to see details.

##### Endpoint or OID

- For REST: Displays the API endpoint used for data collection.
- For SNMP: Displays the SNMP Object Identifier (OID).

The **Description** explain purpose or relevance of the data.



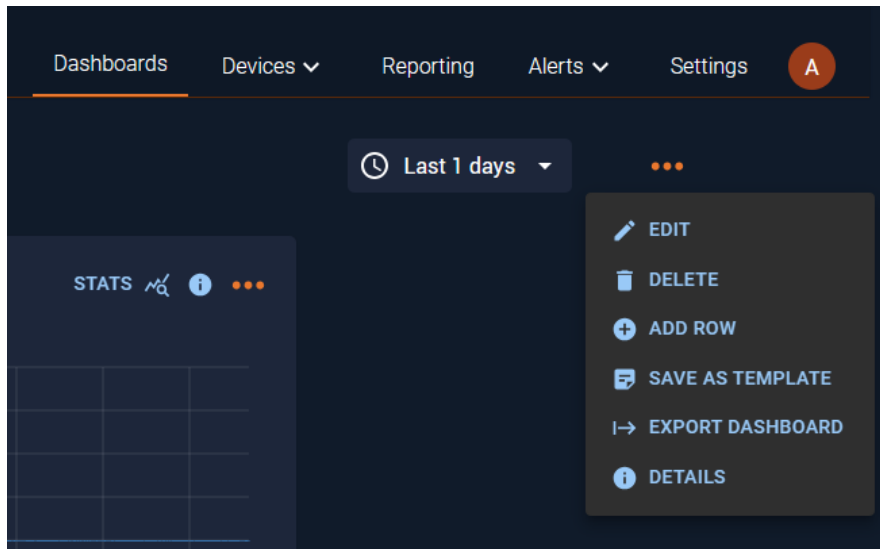
##### 4.4.11.2. Dashboard Details

###### 4.4.11.2.1. Overview

The Dashboard Details feature provides metadata about a dashboard, including its creation and modification history. This is particularly useful for tracking ownership, changes, and versioning in collaborative environment.

4.4.11.2.2. Accessing Dashboard Details

Navigate to the dashboard of interest, select the three-dot menu (ellipsis) in the top-right corner of the dashboard widget, and select **DETAILS** from the dropdown menu.



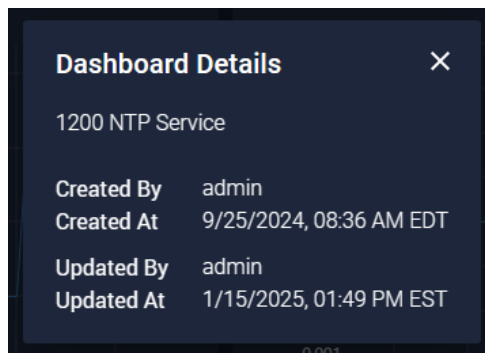
4.4.11.2.3. Metadata Displayed

**Created By:** Displays the username of the user who created the dashboard.

**Created At:** Indicates the date and time when the dashboard was initially created.

**Updated By:** Displays the username of the user who last updated the dashboard (if available).

**Updated At:** Displays the date and time of the last modification of the dashboard (if available).



4.4.12. Sorting Dashboards

4.4.12.1. Overview

The **Sorting Dashboards** feature allows users to organize their dashboards either manually using drag-and-drop or automatically by sorting them alphabetically. This provides an efficient way to keep the dashboard list tidy and accessible

4.4.12.2. Drag-and-Drop Sorting

Enables users to reorder dashboards manually by dragging and dropping them into the desired position in the list. This is useful for prioritizing dashboards based on importance or frequency of use.

**Steps:**

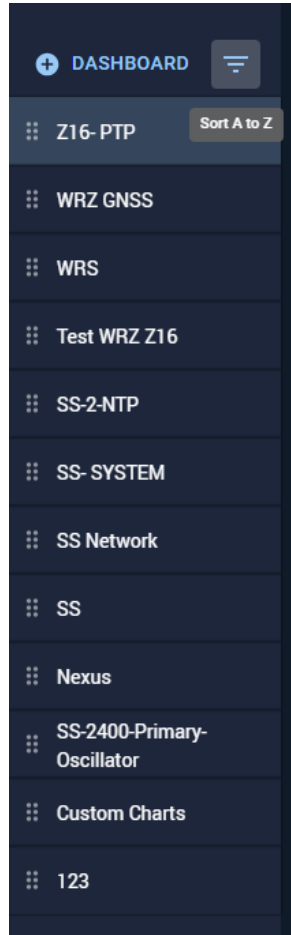
- Locate the **drag handle** (represented by the dotted grid icon) next to each dashboard name.
- Click and hold the drag handle.
- Drag the dashboard to the preferred position in the list.
- Release the mouse button to drop it into place.

#### 4.4.12.3. Alphabetical Sorting

Automatically sorts all dashboards in alphabetical order (A to Z). This is ideal for quickly organizing dashboards in a consistent manner, especially in collaborative environments.

##### Steps:

- Select the **Sort A to Z** button located at the top of the dashboard list.
- The system will rearrange the dashboards in alphabetical order.



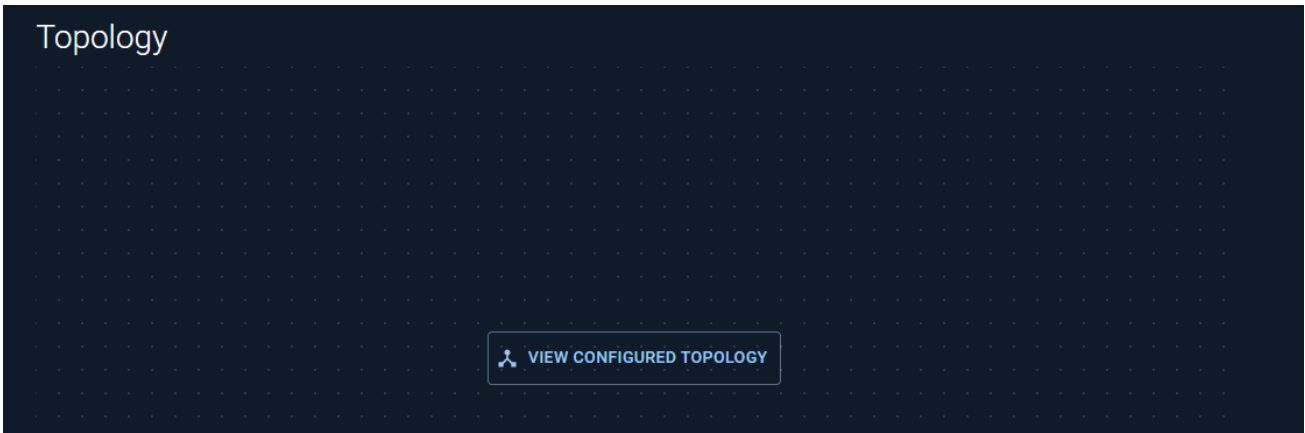
## 4.5. System Topology Visualization

### 4.5.1. Overview

The **System Topology Visualization** feature allows users to view a graphical representation of their system's topology. This visualization is generated by retrieving the configuration of each connected device and mapping their roles based on a normalized configuration.

### 4.5.2. Accessing the Topology View

1. Navigate to the **Devices** tab in the main navigation menu.
2. Select the **View Configured Topology** option.



3. The topology will display an interactive diagram of the system, similar to the example below:



### 4.5.3. Key Features

**Device Mapping:** Displays the connected devices along with their references.

**Visual Connections:** Shows the relationships between devices with labeled connections like NTP, PTP, and WR. Shows the time when the topology is generated.

**Interactive Features:**

- **Click for Details:** Click on the device node to go to the **Device** detail page.
- **Refresh Button:** Click the refresh icon in the top-right corner to update the topology.

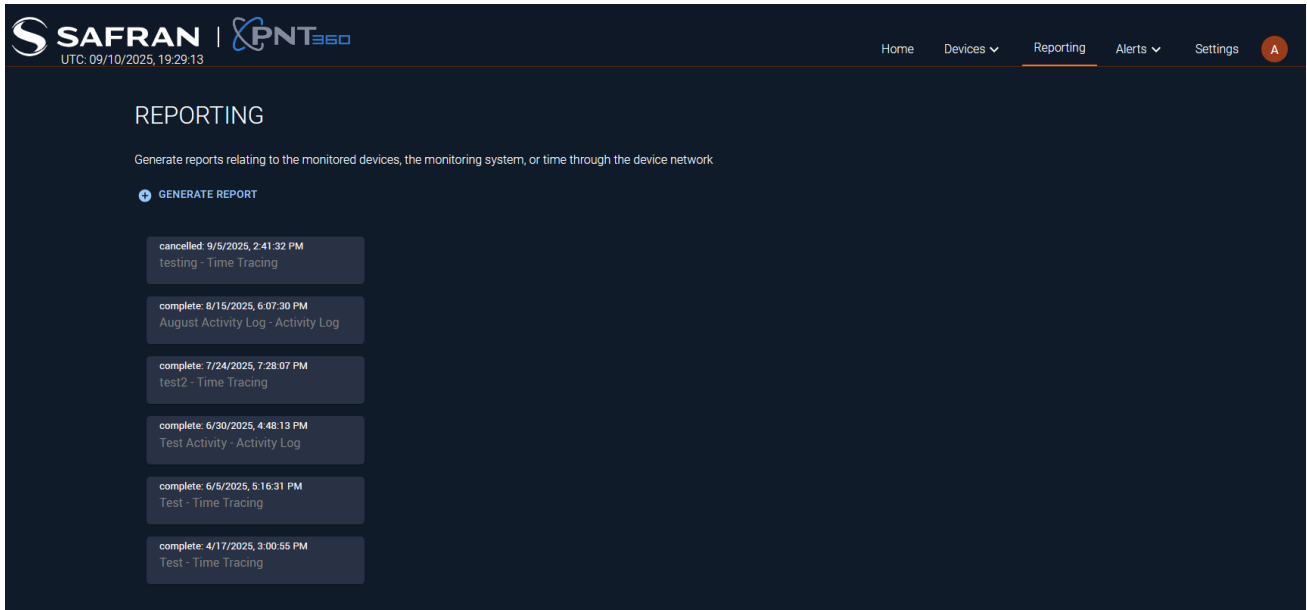
## 4.6. Reporting

### 4.6.1. Overview

The Reporting feature allows users to generate detailed reports on device timing behavior, configuration, system usage, and activity logs.

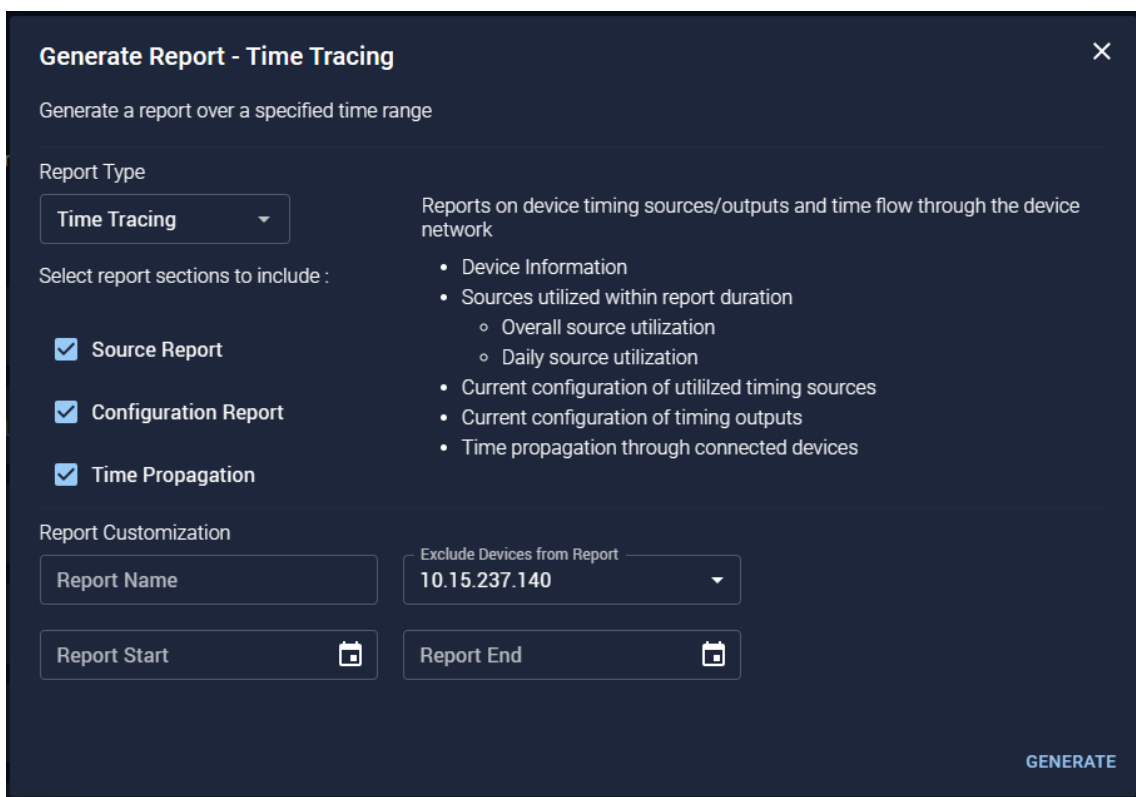
### 4.6.2. Accessing the Reporting Section

To access the reporting section, navigate to the **Reporting** tab in the main navigation menu. The **Reporting** page will display a list of previously generated reports and an option to generate new ones.



### 4.6.3. Creating a Report

Select the **GENERATE REPORT** button, this will open the report wizard.



Select the **Report Type**:

- **Time Tracing:** Tracks time sources/outputs, propagation, and device configuration.
- **Activity Log:** Logs activity events in the system.

Select the report sections to include:

- **Source Report:** Source utilization over time.
- **Configuration Report:** Details on device configuration.
- **Time Propagation:** Tracks time signal propagation through the network.

Customize the report:

- Provide a **Report Name**.
- Set a **Date Range** (start and end).
- Optionally exclude devices from the report.

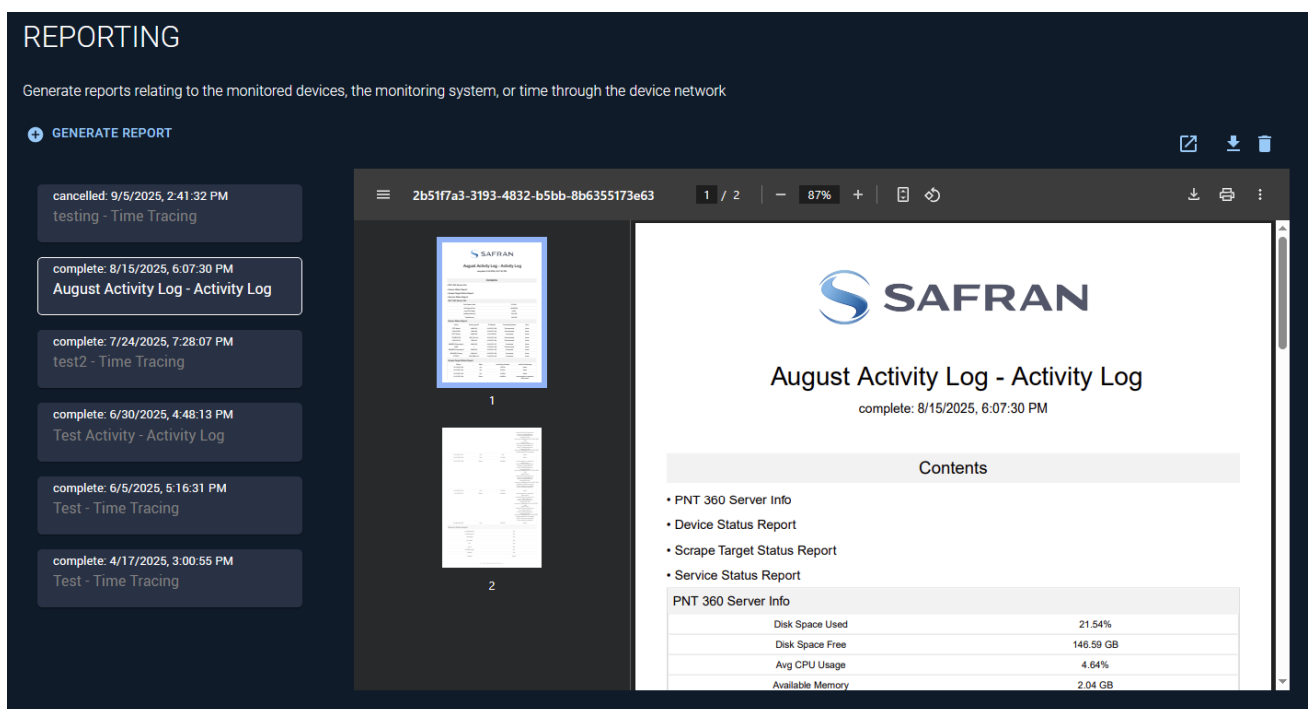
Select **Generate**, a spinning loading icon will appear while the report is being generated.

#### 4.6.4. Viewing a Report

Once a report is complete, it will appear in the list of generated reports with its status and timestamp. Select the report name to open it in the embedded viewer. The report contains:

- Device Information
- Source Transitions
- Source & Output Configuration
- Time Propagation

Use the embedded toolbar to download, print, or zoom into the report as needed.



#### 4.6.5. Managing Reports

**Download a Report:** Selecting the download icon next to the trash icon will download the report as a JSON file. Selecting the download icon in the embedded toolbar will download the report as a PDF file.

**Delete a Report:** Select the trash icon next to a report to remove it from the system.

## 4.7. Alerts

### 4.7.1. Overview

The Alerts system in PNT 360 is centralized and managed through a unified **Alerts** page, accessible via the main navigation bar. There are two alert types:

- **Metric Alerts:** For monitoring data-driven conditions from metrics. Accessed by navigating to **Alerts > Metrics**
- **Monitoring Alerts:** For monitoring device connectivity and system health. Accessed by navigating to **Alerts > Monitoring**

### 4.7.2. Metric Alerts

Metric Alerts are accessible by navigating to **Alerts > Metrics** and track changes in data from monitored devices. Examples include:

- CPU Temperature
- Holdover State
- Disk Usage Thresholds
- GPS Reference Status

The screenshot shows the 'Metric Alerts' page in the PNT 360 interface. At the top, there is a search bar and a status filter dropdown set to 'Normal'. Below this is a table of alerts:

Name	Current Status	Last Fired	Actions
CPU Temperature > 90 °C Temperature of the CPU	No Data	> 30d ago	[Edit] [Delete]
Holdover state == inHoldover State when the unit loses its reference	No Data	> 30d ago	[Edit] [Delete]
Disk Used > 80 % Percent of total disk used	No Data	> 30d ago	[Edit] [Delete]
GPS reference antenna state != ok Current GPS reference antenna state	No Data	> 30d ago	[Edit] [Delete]
Server State == Disabled Network interface on which the servo is running	Firing show details	9/10/25, 4:06 PM EDT	[Edit] [Delete]
Sync State == sync Indicates whether SecureSync is synchronized to its selected input references	Firing show details	9/10/25, 4:06 PM EDT	[Edit] [Delete]

#### 4.7.2.1. Creating a New Metric Alert

Navigate to **Alerts > Metrics** and select the **Add** button.

Define a condition:

- Select a **Metric** (e.g., PTP Offset from Master)
- Choose an **Operator** (e.g., is greater than)
- Input a **Value** (e.g., 3 seconds)

Select which devices to apply this alert to. Choose the **Severity** (e.g., Low, Medium, High) and select receiver email(s) from their respective dropdown menus.

**Note:** Email addresses must first be registered in **Settings > Email Notifications** before they appear as options.

When complete, select **Save**. All created alerts will show their status, last trigger time, and include options to edit or delete them.

### 4.7.3. Monitoring Alerts

Monitoring Alerts are accessible by navigating to **Alerts > Monitoring** and are split into two sections:

**System Health:** Displays current health status of the PNT 360 services (e.g., Disk Usage, Memory Usage, Service Uptime).

### Monitoring Alerts

#### System Health

Name	Current Status	Current Value	Last Fired
PNT360 Disk Used	<span>Normal</span>	21.64% Used	> 30d ago
PNT360 Memory Used	<span>Normal</span>	48.31% Used	> 30d ago
▼ PNT360 Services	<span>Normal</span>		

**Device Connectivity:** Shows connectivity status of all monitored devices, including SNMP and REST scrape failures.

### Device Connectivity

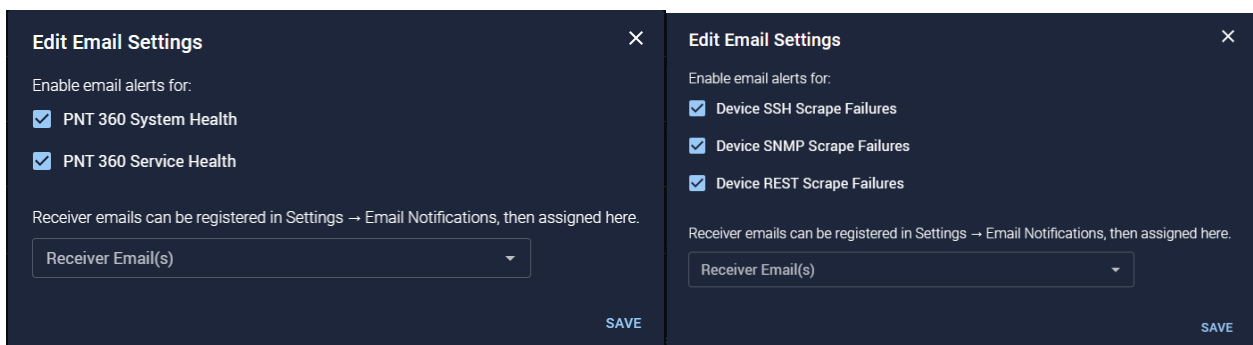
Search Devices

Status Firing Normal

Name	Current Status
▼ <span>PT-WRZ-Z16</span> 10.15.237.144	<span>Normal</span>
▼ <span>PT-TPFL</span> 10.15.237.145	<span>Normal</span>
▼ <span>SMORES Secondary 1</span> 10.15.237.147	<span>Firing</span> <a href="#">show details</a>
▼ <span>SMORES Secondary 2</span> 10.15.237.154	<span>Firing</span> <a href="#">show details</a>
▼ <span>SMORES Primary</span> 10.15.237.163	<span>Normal</span>
▼ <span>WRS</span> 10.15.237.140	<span>Firing</span> <a href="#">show details</a>
▼ <span>NTP Source</span> 10.15.237.50	<span>Firing</span> <a href="#">show details</a>
▼ <span>PTP Master</span> 10.15.237.159	<span>Firing</span> <a href="#">show details</a>
▼ <span>1200 OC-32</span> 10.15.237.146	<span>Firing</span> <a href="#">show details</a>

#### 4.7.3.1. Configuring Monitoring Alert Notifications

You can assign email notification alerts for both **System Health** and **Device Connectivity** by selecting the pencil/edit icon.



Enable the desired alert types (e.g., Disk Used, SNMP Failures). Select one or more receiver emails from the dropdown menu. When complete, select **Save**.

**Note:** Email addresses must first be registered in **Settings > Email Notifications** before they appear as options.

## 4.8. Log Viewer

PNT 360 includes a built-in log viewer that provides access to real-time and historical logs across all managed devices. This interface enables filtering, searching, and browsing log events based on time, severity, and source.

To access the Log Viewer, navigate to **Devices > Logs**.

The log table contains the following columns:

- **Timestamp:** Date and time the event was logged.
- **Host Name:** IP address or name of the device.
- **Facility:** The facility code associated with the log source.
- **Severity:** The log level (e.g., Emergency, Warning).
- **Message:** The full log content.

Timestamp	Host Name	Facility	Severity	Message
9/10/2025, 2:46:13 PM	10.15.237.147	local7	emergency	Error: Ori.GetStats: DbusObject: __call() [-a href="https://secure.php.net/dbusobject.call">dbusobject.call</a>]. org.freedesktop.DBus.Error.Failed: eth1 is not enabled!
9/10/2025, 2:46:11 PM	10.15.237.154	local7	emergency	Error: Ori.GetStats: DbusObject: __call() [-a href="https://secure.php.net/dbusobject.call">dbusobject.call</a>]. org.freedesktop.DBus.Error.Failed: eth1 is not enabled!
9/10/2025, 2:41:41 PM	10.15.237.154	local7	emergency	Error: Ori.GetStats: DbusObject: __call() [-a href="https://secure.php.net/dbusobject.call">dbusobject.call</a>]. org.freedesktop.DBus.Error.Failed: eth1 is not enabled!
9/10/2025, 2:41:39 PM	10.15.237.147	local7	emergency	Error: Ori.GetStats: DbusObject: __call() [-a href="https://secure.php.net/dbusobject.call">dbusobject.call</a>]. org.freedesktop.DBus.Error.Failed: eth1 is not enabled!
9/10/2025, 2:37:12 PM	10.15.237.147	local7	emergency	Error: Ori.GetStats: DbusObject: __call() [-a href="https://secure.php.net/dbusobject.call">dbusobject.call</a>]. org.freedesktop.DBus.Error.Failed: eth1 is not enabled!
9/10/2025, 2:37:11 PM	10.15.237.154	local7	emergency	Error: Ori.GetStats: DbusObject: __call() [-a href="https://secure.php.net/dbusobject.call">dbusobject.call</a>]. org.freedesktop.DBus.Error.Failed: eth1 is not enabled!
9/10/2025, 2:32:40 PM	10.15.237.154	local7	emergency	Error: Ori.GetStats: DbusObject: __call() [-a href="https://secure.php.net/dbusobject.call">dbusobject.call</a>]. org.freedesktop.DBus.Error.Failed: eth1 is not enabled!
9/10/2025, 2:32:39 PM	10.15.237.147	local7	emergency	Error: Ori.GetStats: DbusObject: __call() [-a href="https://secure.php.net/dbusobject.call">dbusobject.call</a>]. org.freedesktop.DBus.Error.Failed: eth1 is not enabled!
9/10/2025, 2:28:12 PM	10.15.237.147	local7	emergency	Error: Ori.GetStats: DbusObject: __call() [-a href="https://secure.php.net/dbusobject.call">dbusobject.call</a>]. org.freedesktop.DBus.Error.Failed: eth1 is not enabled!
9/10/2025, 2:28:11 PM	10.15.237.154	local7	emergency	Error: Ori.GetStats: DbusObject: __call() [-a href="https://secure.php.net/dbusobject.call">dbusobject.call</a>]. org.freedesktop.DBus.Error.Failed: eth1 is not enabled!
9/10/2025, 2:23:41 PM	10.15.237.147	local7	emergency	Error: Ori.GetStats: DbusObject: __call() [-a href="https://secure.php.net/dbusobject.call">dbusobject.call</a>]. org.freedesktop.DBus.Error.Failed: eth1 is not enabled!
9/10/2025, 2:23:40 PM	10.15.237.154	local7	emergency	Error: Ori.GetStats: DbusObject: __call() [-a href="https://secure.php.net/dbusobject.call">dbusobject.call</a>]. org.freedesktop.DBus.Error.Failed: eth1 is not enabled!
9/10/2025, 2:19:10 PM	10.15.237.147	local7	emergency	Error: Ori.GetStats: DbusObject: __call() [-a href="https://secure.php.net/dbusobject.call">dbusobject.call</a>]. org.freedesktop.DBus.Error.Failed: eth1 is not enabled!
9/10/2025, 2:19:07 PM	10.15.237.154	local7	emergency	Error: Ori.GetStats: DbusObject: __call() [-a href="https://secure.php.net/dbusobject.call">dbusobject.call</a>]. org.freedesktop.DBus.Error.Failed: eth1 is not enabled!

### 4.8.1. Filters and Search

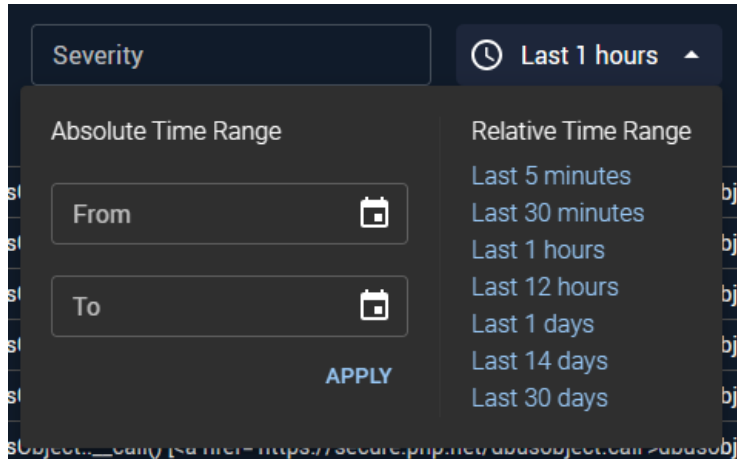
The following filters located above the table allow you to narrow down log results:

- **Search logs:** Free-text search of the log message content.
- **Host:** Filter logs by a specific IP or hostname.
- **Facility:** Choose from common syslog categories (e.g., Kernel, Mail, Cron, NTP).
- **Severity:** View only messages at a specific level of importance:
  - Emergency
  - Alert
  - Critical
  - Error
  - Warning
  - Notice
  - Info
  - Debug

### 4.8.2. Time Range Selection

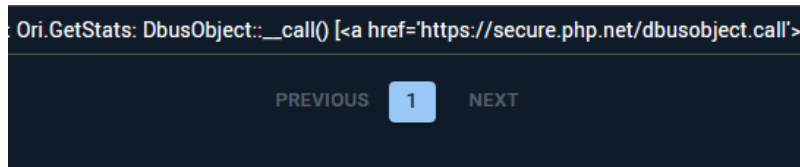
Select the time range selector to view logs for different periods of time:

- Last 5 minutes
- Last 30 minutes
- Last 1/12/24 hours
- Last 1/14/30 days
- Or define a custom range using absolute date/time pickers



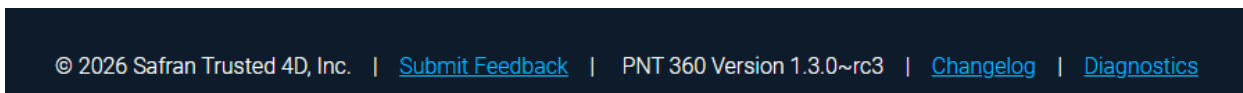
### 4.8.3. Pagination

Logs are paginated at the bottom of the viewer. Select **Previous**, **Next**, or specific page numbers to navigate between entries.



## 4.9. System Diagnostics

The System Diagnostics page provides general diagnostic information about the PNT 360 monitoring system. To access this page, select the “Diagnostics” link available in the application footer at the bottom of every page.



The diagnostics page includes:

**Scrape Target Status:** The status of metrics scraping on each device with the last recorded error message.

# Application Monitoring

This page shows status information about the internal state of the application.

## Scrape Target Status VICTORIAMETRICS TARGETS [🔗](#)

Device	State	Last Query Duration	Last Error Message
10.15.237.140	<span style="background-color: red; color: white; padding: 2px;">DOWN</span>	0.008 s	unexpected status code returned when scraping "http://localhost:9116/snmp?auth=wrs_default&module=if_mib&module=wrs_cern&target=10.15.237.140": 500; expecting 200; response body: "An error has occurred while serving metrics:\n\n2 error(s) occurred:\n* error collecting metric Desc(fqName: \\'snmp_error\',\$ help: \\'Error scraping target\',\$ constLabels: {module=\'if_mib\'}, variableLabels: []): error getting target 10.15.237.140: error reading from socket: read udp 10.15.236.14:39737->10.15.237.140:161: rcvfrom: connection refused\n* error collecting metric Desc(fqName: \\'snmp_error\',\$ help: \\'Error scraping target\',\$ constLabels: {module=\'wrs_cern\'}, variableLabels: []): error walking target 10.15.237.140: error reading from socket: read udp 10.15.236.14:36238->10.15.237.140:161: rcvfrom: connection refused\n"
10.15.237.144	<span style="background-color: green; color: white; padding: 2px;">UP</span>	0.531 s	-
10.15.237.145	<span style="background-color: green; color: white; padding: 2px;">UP</span>	0.355 s	-
10.15.237.147	<span style="background-color: red; color: white; padding: 2px;">DOWN</span>	40.002 s	cannot perform request to "http://localhost:9116/snmp?auth=custom_auth_7&module=if_mib&module=securesync&module=ucd_mib&target=10.15.237.147": Get "http://localhost:9116/snmp?auth=custom_auth_7&module=if_mib&module=securesync&module=ucd_mib&target=10.15.237.147": net/http: request canceled (Client.Timeout exceeded while awaiting headers)

**Service Status:** The status of all services that run the monitoring system.

## Service Status

SNMP Exporter	active
Node Exporter	active
syslog-ng	active
Promtail	active
Loki	active
Nginx	active
AlertManager	active
vmalert	active
Eclipse	active
Nats	active
Auth	active
Alerts	active
Oathkeeper	active
Device Management	active
VictoriaMetrics	active

**PNT 360 Server Information:** The statistics for the server running the PNT 360 application.

## PNT 360 Server Info

[Disk Space Used: 22.65%](#)  
[Disk Space Free: 144.52 GB](#)  
[Avg CPU Usage: 8.32%](#)  
[Available Memory: 2.21 GB](#)  
[Total Memory: 3.83 GB](#)

**Service Logs:** Searchable and exportable logs for all running services.

### Service Logs

Service: Eclipse ▾  autoscroll to bottom

🕒 Last 1 hours ▾ [📄](#)

## 5. Appendix

### 5.1. Installing a Custom SSL Certificate

To use your own SSL certificate instead of the self-signed certificate:

- Prepare your SSL certificate and key files ready. Rename your certificate file to **eclipse.pem** and rename your key file to **eclipse.key** and upload your files to the server.
- Replace the current certificate with your custom certificate:  

```
sudo cp /path/to/your/eclipse.pem /etc/pnt360/ssl/eclipse.pem
```
- Replace the current key with your custom key:  

```
sudo cp /path/to/your/eclipse.key /etc/pnt360/ssl/eclipse.key
```
- Restart the Nginx service using the following command:  

```
sudo systemctl restart nginx
```
- Verify the installation of your custom SSL certificate by accessing your application via a web browser and inspecting the certificate details.

### 5.2. User Permissions

Users in the General User and Administrator roles have the following permissions:

	General User	Administrator
Add, update, and remove devices	No	Yes
Add, update, and remove dashboards	No	Yes
Change device configurations	No	Yes
Change PNT 360 configuration	No	Yes
See, add, update, and remove users	No	Yes
See devices, dashboards, device configurations, and PNT 360 configuration	Yes	Yes

## 6. Safran Technical Support

For technical support, product specifications, and additional documentation, you can visit <https://safran-navigation-timing.com/support-hub/> to submit a support request.

More information on PNT360 can be found on our product page at <https://safran-navigation-timing.com/product/pnt-360/>

More information on standard unit behavior or any other features or functions of the SecureSync series or White Rabbit products can be found in the user manuals on our website at <https://safran-navigation-timing.com/manuals/>

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