

# Telecom NMS

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## Introduction

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Telecom NMS is a digital platform aimed to integrate various systems and sub-systems of DMRC on a single MMI accessible using mobile and web interface. The system will help in ease and better decision-making during operation. Telecom NMS will be essentially a Supervisory Control and Data Acquisition System (SCADA) with 'Super' in terms of functionalities which will sit over the existing monitoring and diagnostic systems, weaving existing diagnostic modules and capabilities available at equipment/system level and offering value addition in terms of AI capability to predict the system performance, maintenance requirement and staff requirement.

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## System Requirement

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## Getting Started

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## Menu / Functions

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This module has following Sub-Menus :

- [01. Main](#)
- [02. Configuration](#)
- [03. Use Management](#)
- [04. Report](#)
- [05. Help](#)

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## Main

This module has following Sub-Menus :

- 01. [Home](#)
- 02. [Topology](#)
- 03. [Hierarchy](#)
- 04. [Geomap](#)
- 05. [Dashboard\(Dynamic\)](#)
- 06. [Dashboard\(Static\)](#)
- 07. [Line](#)
- 08. [Device Dashboard](#)
- 09. [Alarm](#)
- 10. [SysLog](#)

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## Home

It is a sub menu of main menu and, it is configurable. Here, user can display static dashboard, custom

dashboard, topology dashboard, geomap dashboard, device dashboard, and alarm dashboard. As in the image below, it display an **ENTERPRISE DASHBOARD** as a default dashboard.

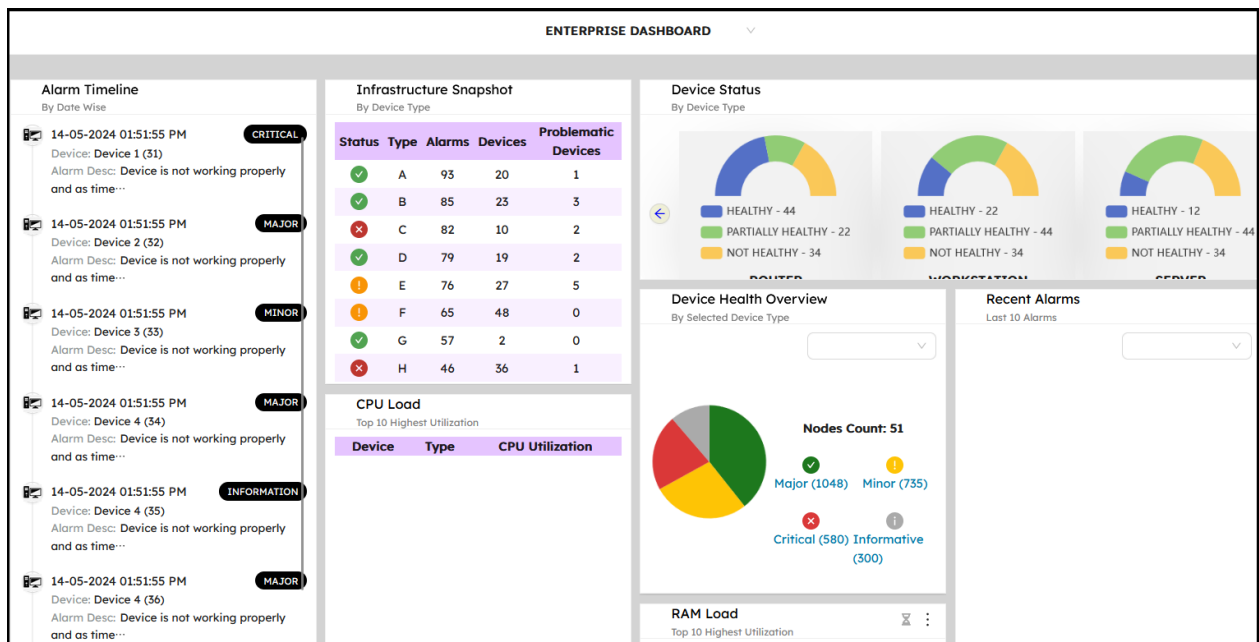


Fig. 01: Enterprise Dashboard

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## Topology

It is a sub menu of main menu that display the topology of all the connected devices. As shown in the image below, TI topology is visible.

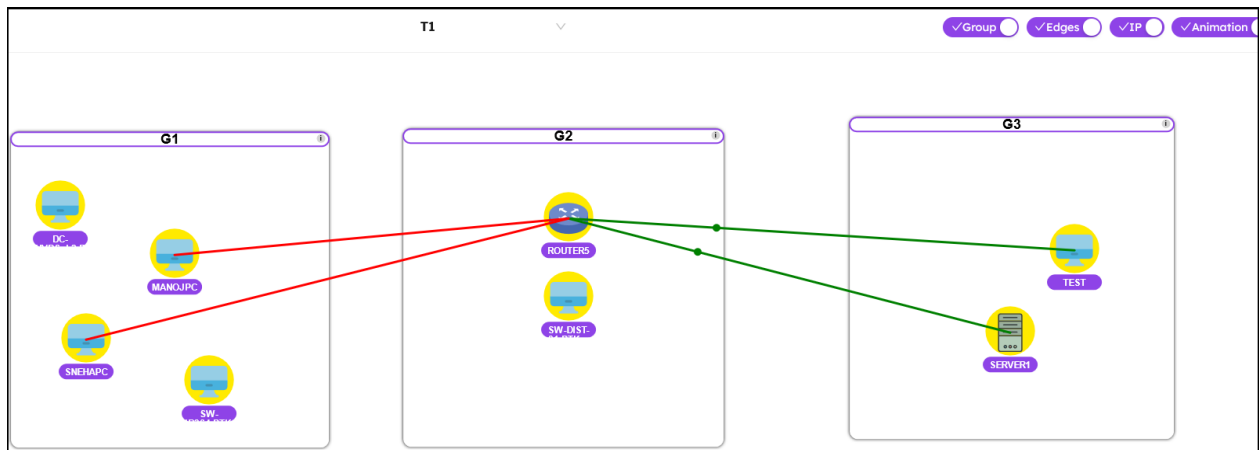


Fig. 01: Topology

The complete UI is displayed with **Grouped**, **Edges**, **IPs**, and **Animation**.



Fig. 02: Tooltip

1.) **Grouped:** It display the connected systems into groups such as **G1**, **G2**, and **G3**.

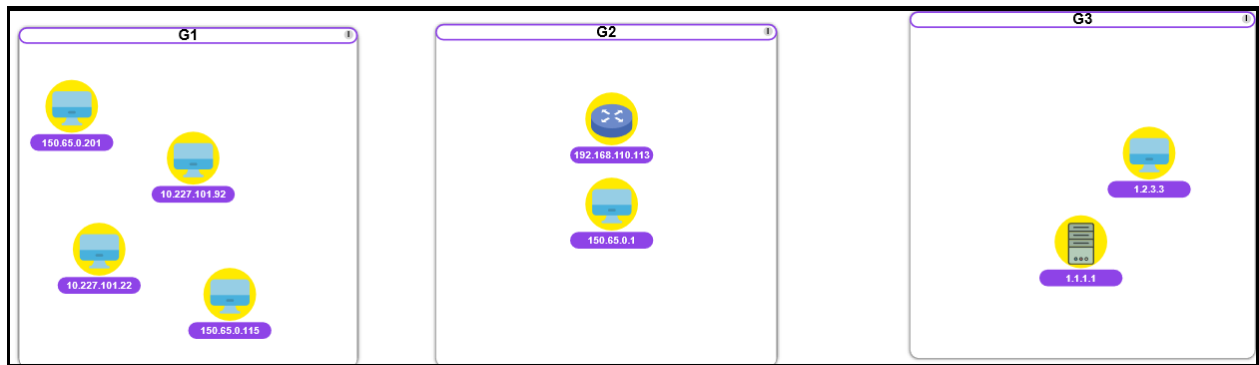


Fig. 03: Grouped

2.) **Edges:** It displays the connected systems with edges. Here, different color of edges represent different network status such as **red** means **network down**, **green** means **network up** and **yellow** shows **network partial**.

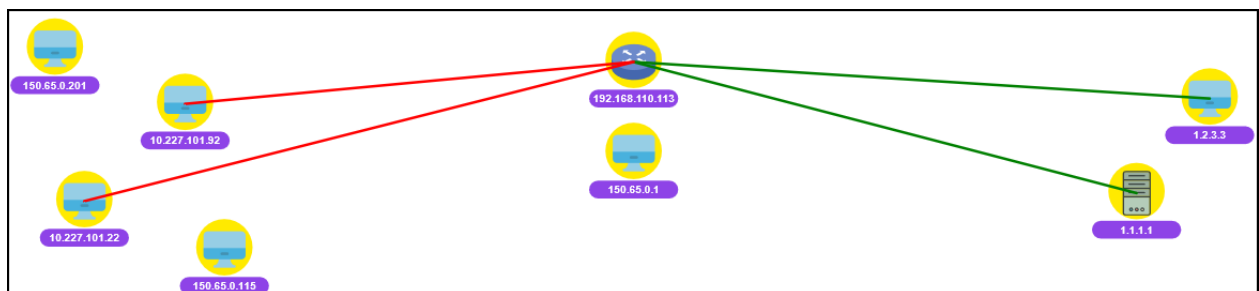


Fig. 04: Edges

a.) **Link Info :** Each edge will display link info when hovered over the edge. As shown in the image below, link info shows name of the connected machines (Workstation, and Routers), their IP addresses (192.168.227.1, and 192.168.110.113) and status (UP).

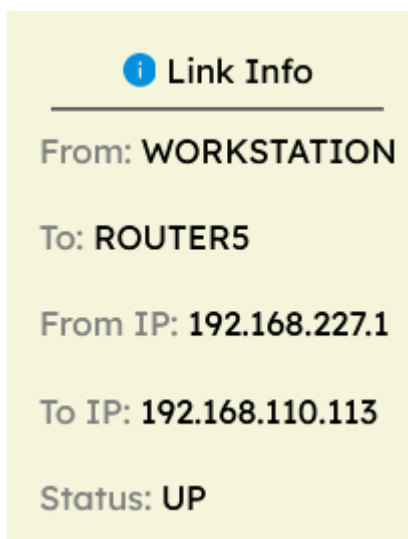


Fig. 05: Link Info

3.) **IP:** It will toggle the network name and IP address. As shown in the image below, IP toggle from IP address to network name.



Fig. 06: IP Address



Fig. 06: Network Name

4.) Animation: It will display network animation.

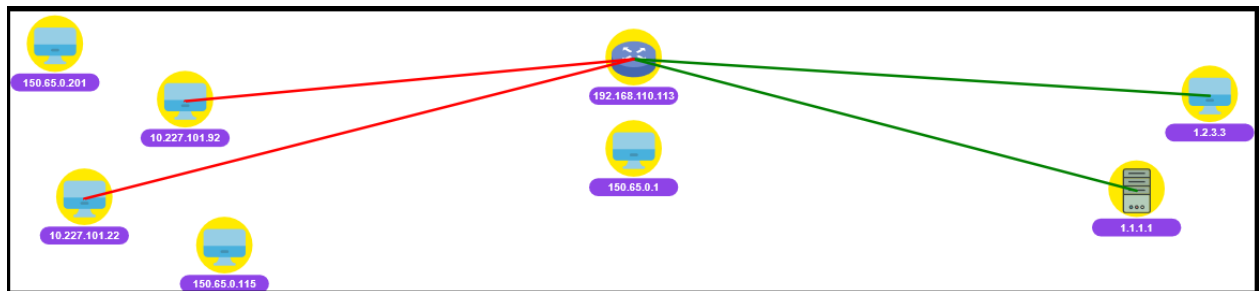


Fig. 07: Animation

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## Hierarchy

This is sub menu of main menu that display the Hierarchy of all the devices.

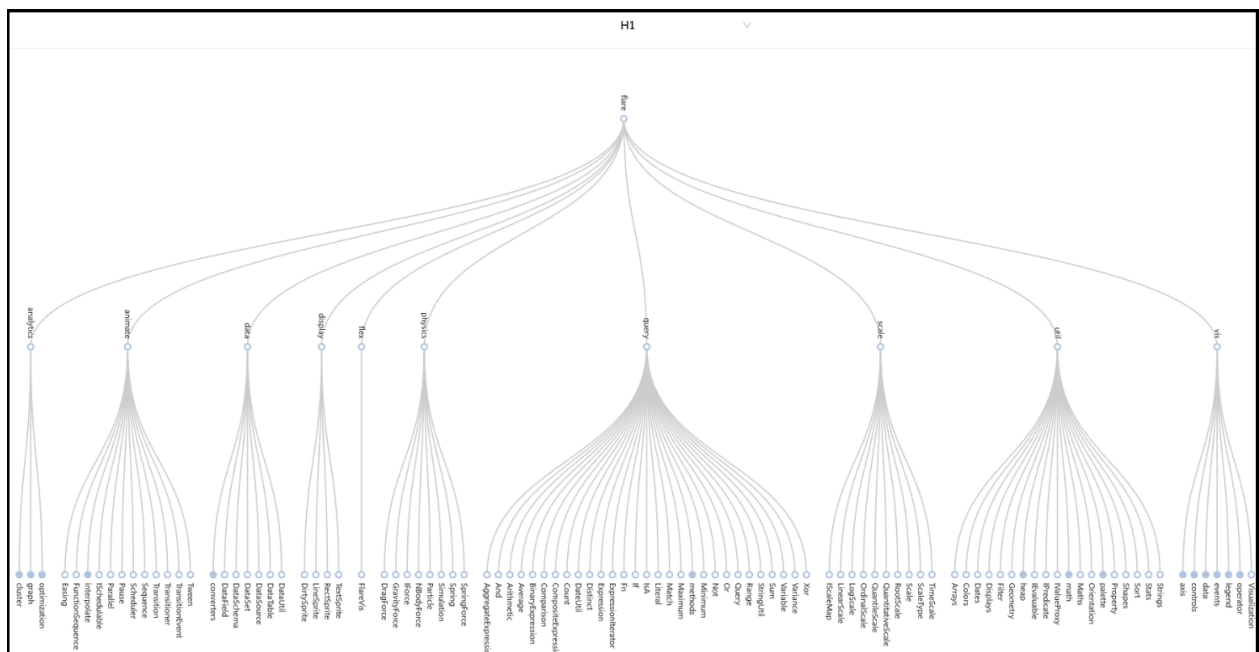


Fig. 01: Hierarchy

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Geomap

This is a sub-menu of main-menu that display the location of nodes servers across the map.

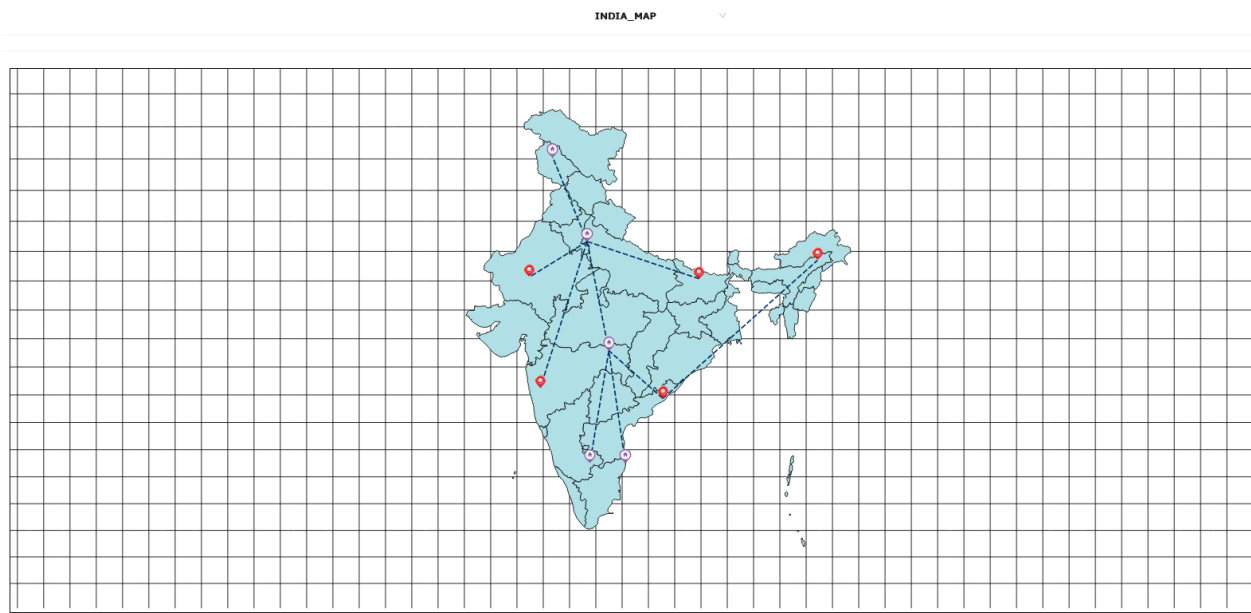


Fig. 01: Geomap

On click, each location displays the **device name** such as Server, Network, Wifi, Router, and Workstation.

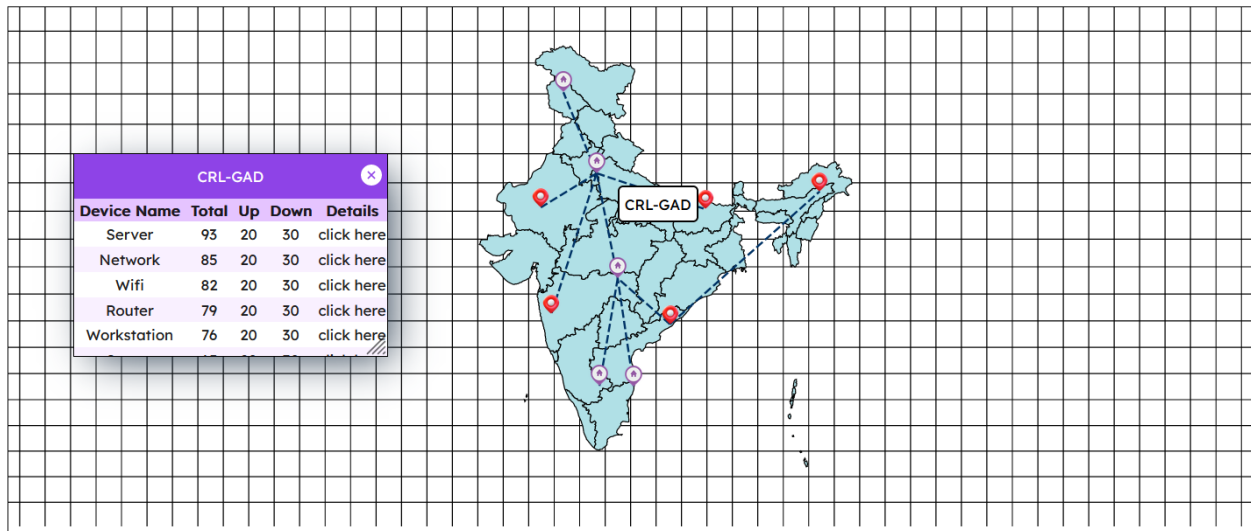
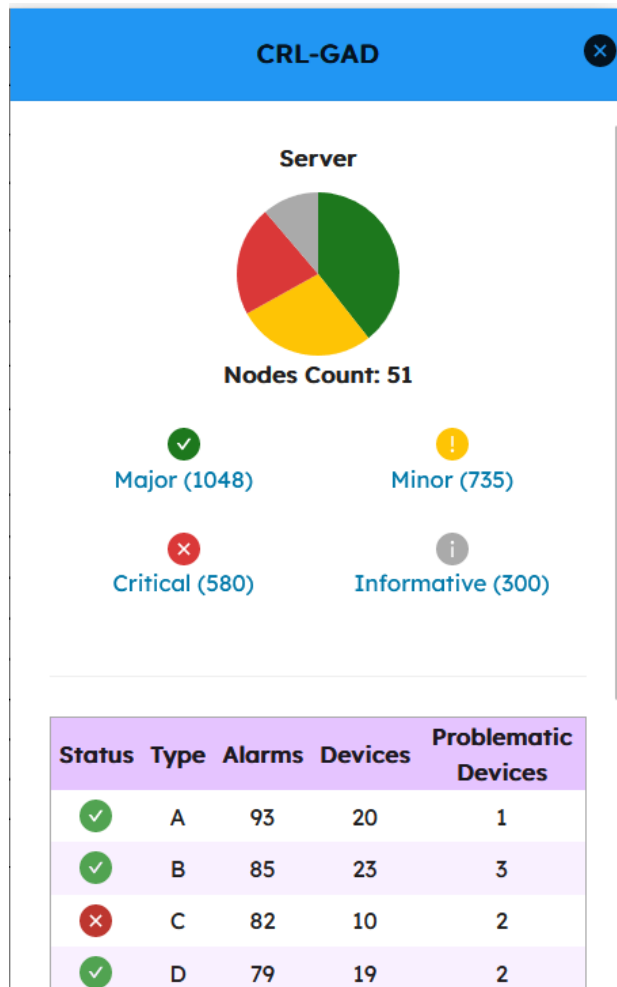


Fig. 02: Device Type

Details of each device will be visible as in the image below details of CRL\_GAD node device server.



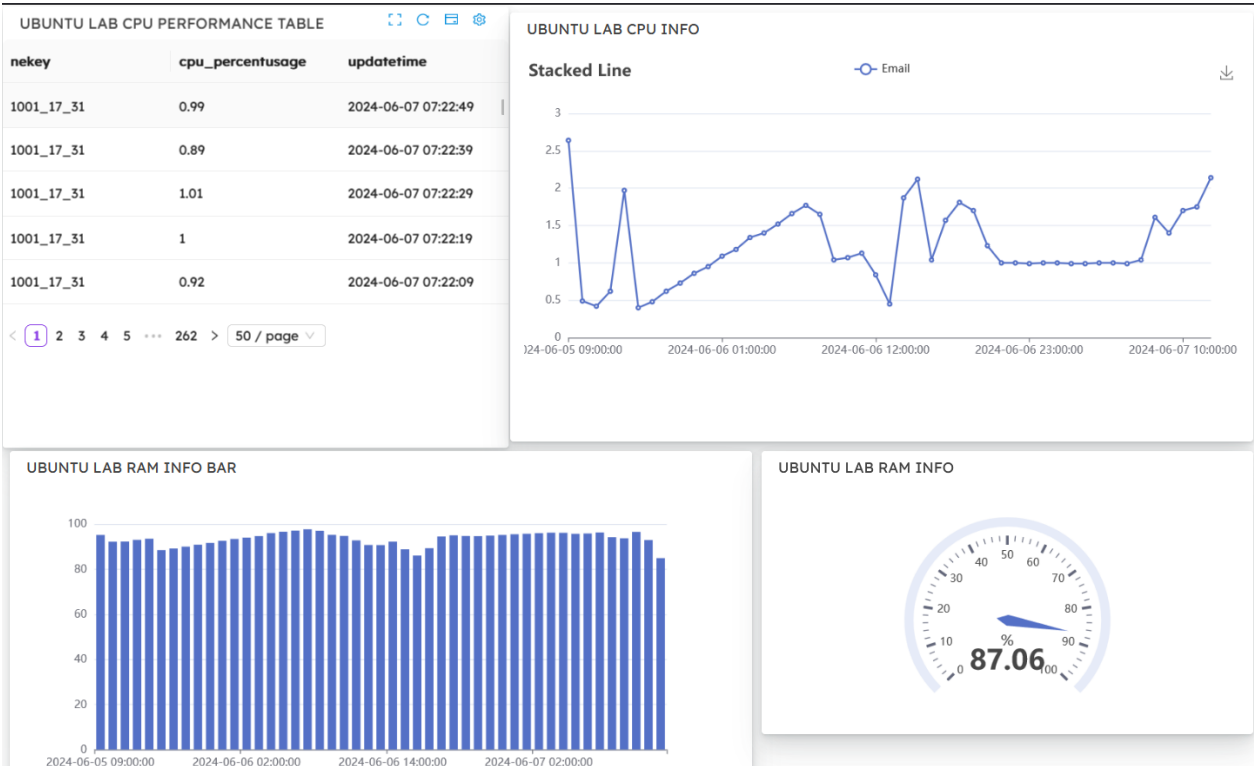
**Fig. 03 : Device Detail**

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## Dashboard(Dynamic)

It is a sub-menu of the main-menu. It will display widgets as shown in the image below.





UBUNTU LAB RAM INFO BAR

UBUNTU LAB RAM INFO

Fig 01 : Widgets

For example :

UBUNTU LAB CPU INFO

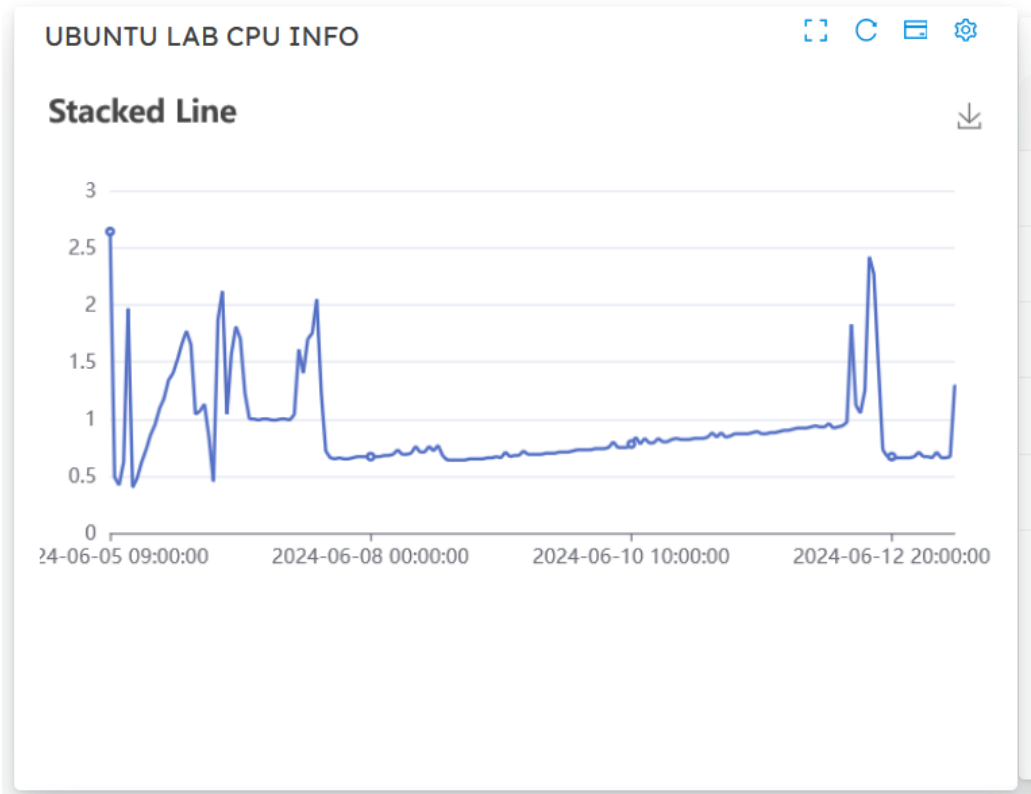


Fig 02 : Line Graph

**Actions:** icons(tooltips) as shown in the image below are used to fullscreen, reload, modal full screen and setting.



Fig 03 : Tooltip

1.) **Fullscreen** : On click, it display the widget in full screen as shown in the image below.

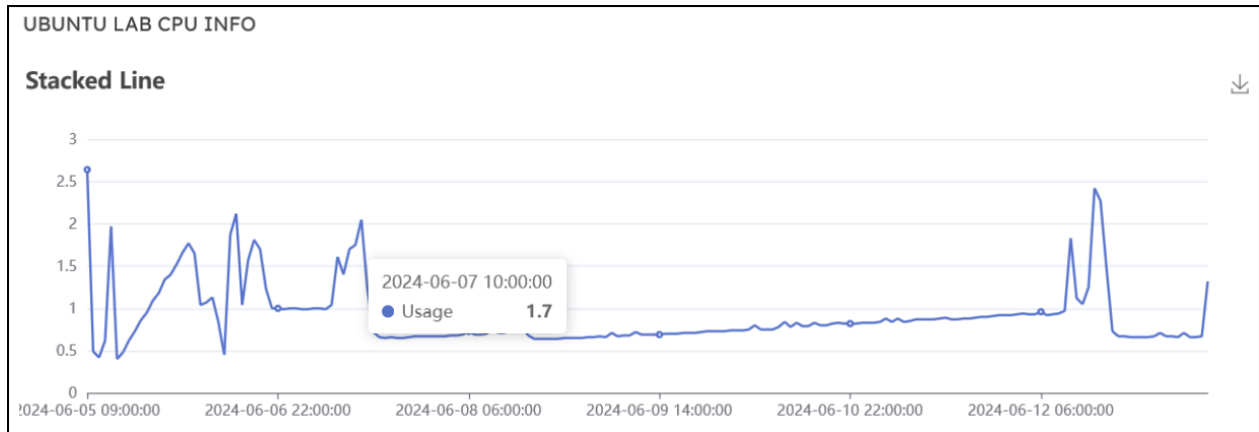


Fig 04 : Full Screen

A tooltip is used in the above image as shown in the image below to download. On click, it save the graph as an image.

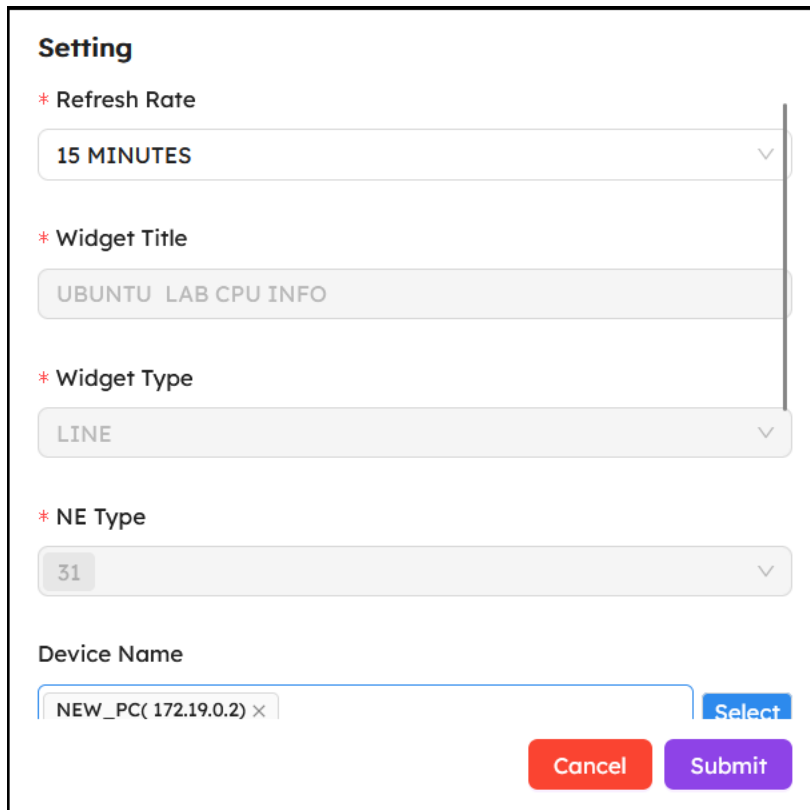


Fig 05 : Tooltip(download)

2.) **Reload** : On click, it reload the data from backend in graph.

3.) **Modal Fullscreen** :

4.) **Setting** : it is used to edit the widget settings. Here, only **refresh rate** and **device name** are editable. As shown in the image below.



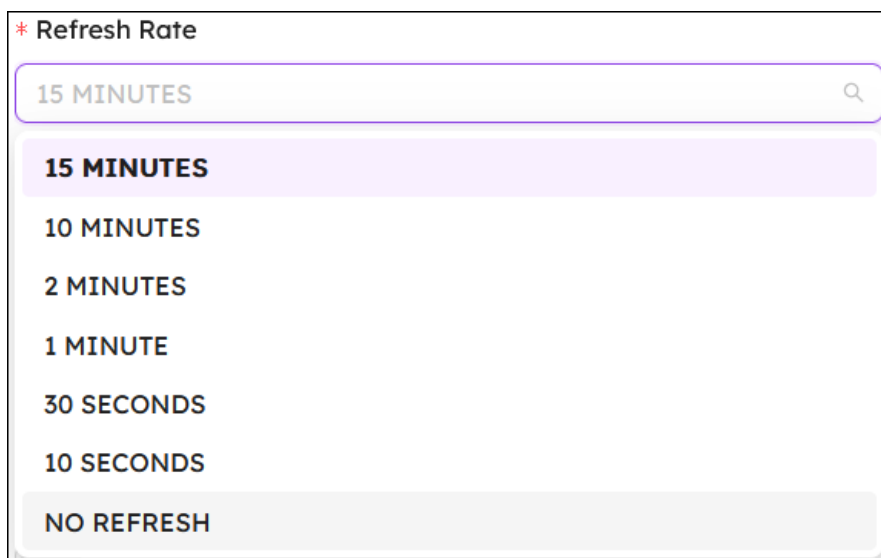
The image shows a 'Setting' form with the following fields:

- \* Refresh Rate**: A dropdown menu with '15 MINUTES' selected.
- \* Widget Title**: A text input field containing 'UBUNTU LAB CPU INFO'.
- \* Widget Type**: A dropdown menu with 'LINE' selected.
- \* NE Type**: A dropdown menu with '31' selected.
- Device Name**: A text input field containing 'NEW\_PC( 172.19.0.2) ×' and a 'Select' button.

At the bottom right, there are two buttons: 'Cancel' (red) and 'Submit' (purple).

**Fig 06 : Setting**

**Refresh rate** : it is used to edit the refresh rate as shown in the image below.



The image shows a dropdown menu for 'Refresh Rate' with the following options:

- 15 MINUTES (highlighted)
- 10 MINUTES
- 2 MINUTES
- 1 MINUTE
- 30 SECONDS
- 10 SECONDS
- NO REFRESH

**Fig. 07 : Refresh Rate**

**Device name** : It is used to select a device name. On click select, list of device appears as shown in the image below. Then, submit.

×

	NE Key	NE IP	NE Type	NE Desc
<input type="checkbox"/>	1_15_31	150.65.21.106	31	CDC_PC1
<input type="checkbox"/>	1_11_31	150.65.21.215	31	C2_Sec-VM
<input type="checkbox"/>	1001_18_31	1.1.1.13	31	NEW_PC2
<input type="checkbox"/>	1_8_31	150.65.21.212	31	GIS_VM
<input type="checkbox"/>	1_1_31	150.65.21.43	31	IPSS3
<input type="checkbox"/>	1001_19_31	1.1.1.14	31	NEW_PC3
<input type="checkbox"/>	1_12_31	150.65.21.216	31	GIS_SEC_VM
<input type="checkbox"/>	1_2_31	150.65.21.44	31	IPSS4
<input type="checkbox"/>	1_10_31	150.65.21.214	31	NMS_VM
<input type="checkbox"/>	1_3_31	150.65.21.41	31	IPSS1

< 1 2 3 4 5 6 >
10 / page ▾

**Fig. 08 : Device Name**

A tooltip is used in the above image as shown in the image below to minimize the widget. On click, it save the graph as an image.

**Fig. 09 : Tooltip(Minimize)**

## Dashboard(Static)

It is sub-menu of the main-menu that display Alarm Timeline, Infrastructure Snapshot, Device Status, CPU Load, Device Health Overview, Recent Alarms,HDD Load, Map, RAM Load as shown in the image below.

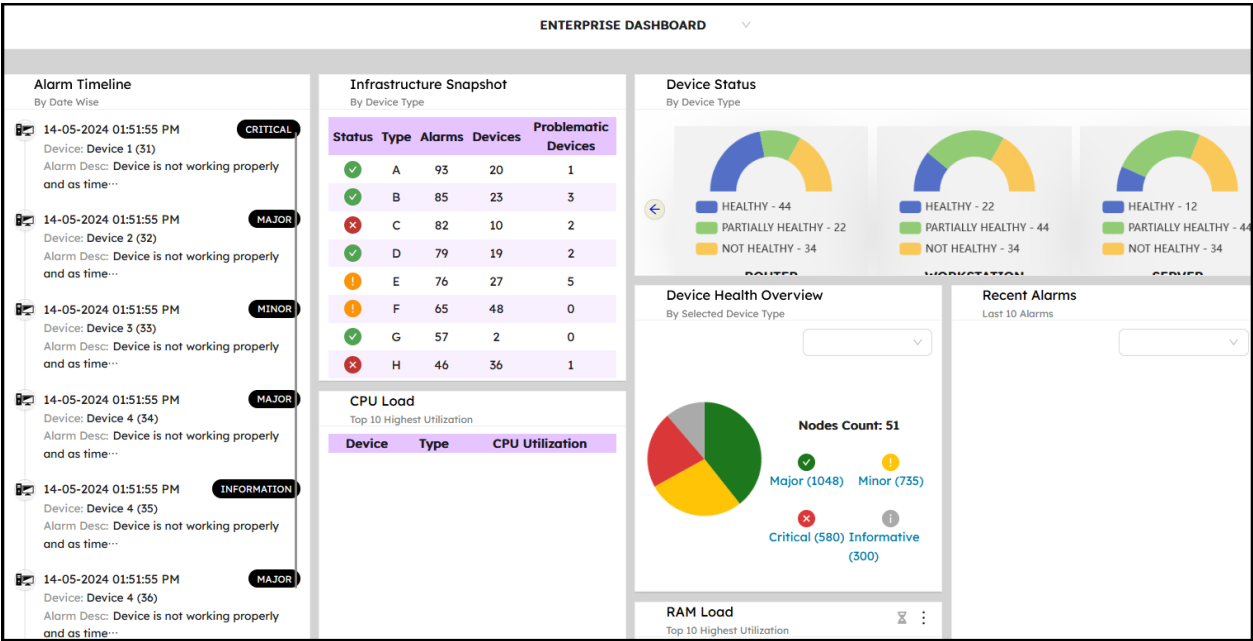


Fig 01 : Enterprise Dashboard

**Device Health Overview :** User can select device such as workstation, server, router, switch, ups, firewall, access point, and modem.

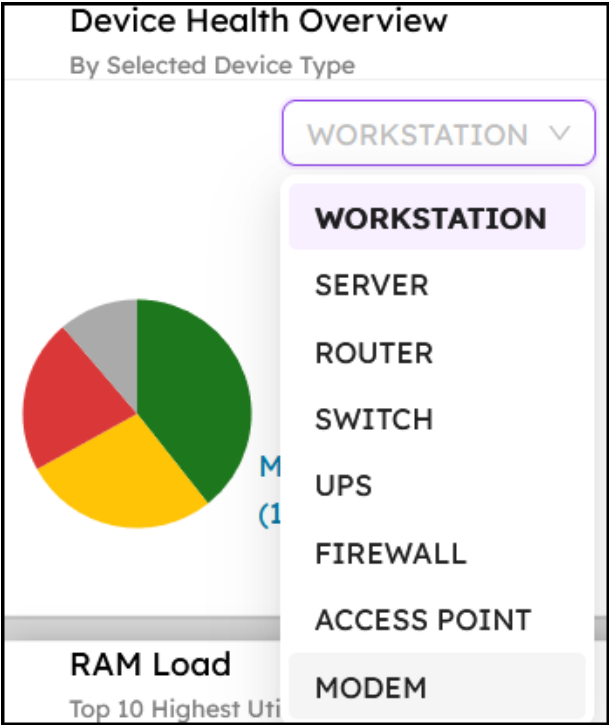


Fig. 02 : Device Health Overview

Line

It is a sub-menu of the main-menu that display 9 lines. Each line will display station code, and status as shown in the figure below.

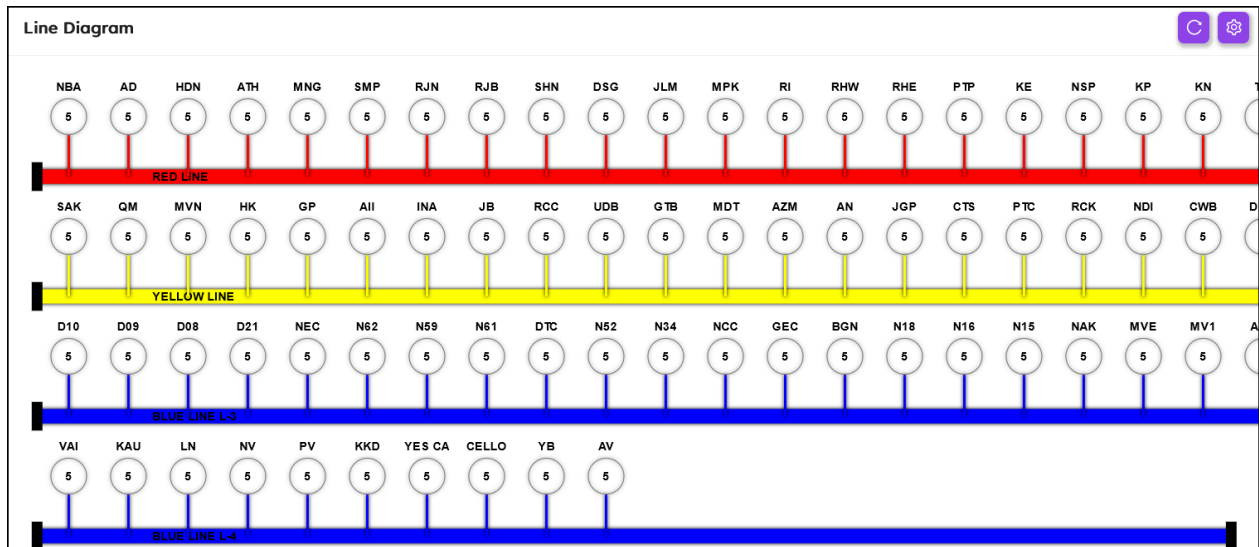


Fig 01 : Line Diagram

Icons(tooltips) in the image below are used to reset view and display line settings.

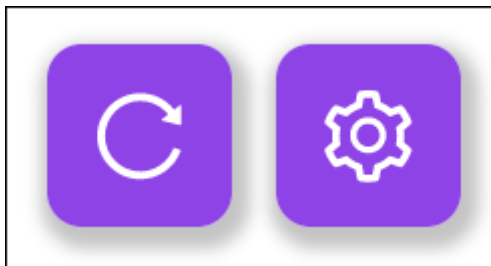


Fig 02 : Tooltip

1.) **Reset View** : It will reset the view of the line diagram as shown in image below.

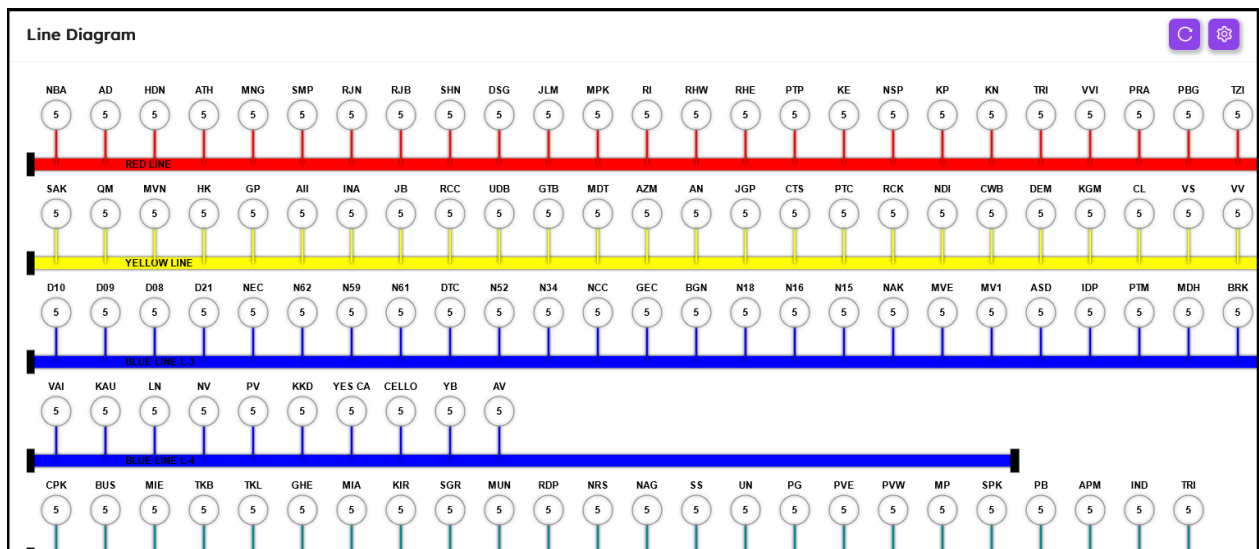


Fig 03 : Reset Line Diagram

2.) **Line Setting** : It will display the all the lines visible and user can remove any of the lines.

### Line Setting

Line:

RED LINE ×

YELLOW LINE ×

BLUE LINE L-3 ×

Blue line l-4 ×

GREEN LINE ×

VIOLET LINE ×

PINK LINE ×

MAGENTA LINE ×

GREY LINE ×

Cancel

Submit

Fig 04 : Line Setting

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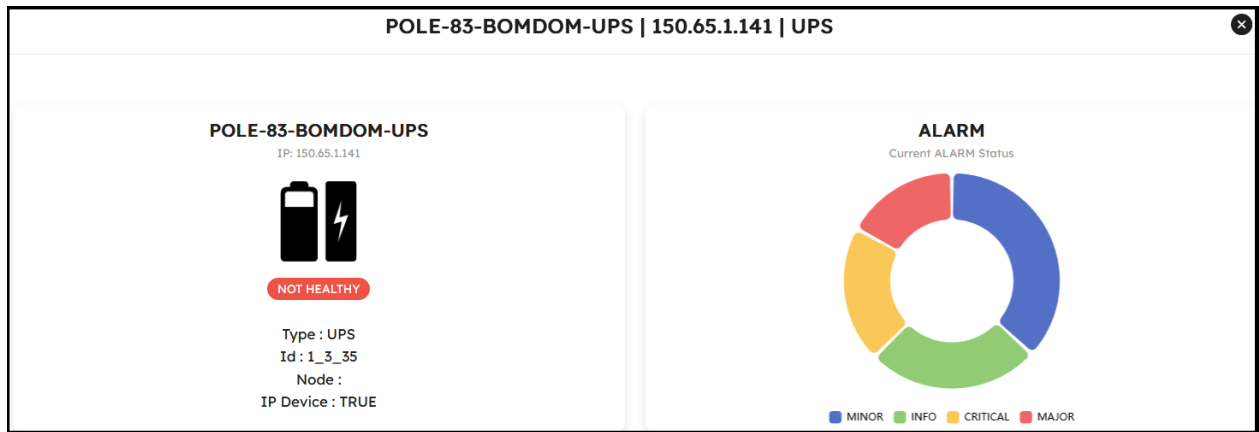
## Device Dashboard

It is a sub-menu of the main-menu that display devices with device health, device name, device IP, and device type.

Device					
<div>NOT HEALTHY</div> <div>POLE-83-BOMDOM-UPS</div> <div>150.65.1.141</div>	<div>NOT HEALTHY</div> <div>POLE-236-ATC-UPS</div> <div>150.65.6.141</div>	<div>NOT HEALTHY</div> <div>POLE-371-2AREA-UPS</div> <div>150.65.9.141</div>	<div>NOT HEALTHY</div> <div>POLE-45-DHOBIGHAT-UPS</div> <div>150.65.12.142</div>	<div>NOT HEALTHY</div> <div>SW-JB364.PTK.IPSS.NET</div> <div>150.65.0.115</div>	<div>NOT HEALTHY</div> <div>SW-JB199</div> <div>150.65.0.197</div>
<div>NOT HEALTHY</div> <div>SW-JB292.PTK.IPSS.NET</div> <div>150.65.0.91</div>	<div>NOT HEALTHY</div> <div>SW-JB777.PTK.IPSS.NET</div> <div>150.65.0.19</div>	<div>NOT HEALTHY</div> <div>SW-JB227.PTK.IPSS.NET</div> <div>150.65.0.69</div>	<div>NOT HEALTHY</div> <div>GOVIND_PC6</div> <div>10.202.55.5</div>	<div>NOT HEALTHY</div> <div>SW-JB38</div> <div>150.65.0.152</div>	<div>NOT HEALTHY</div> <div>SW-JB407.PTK.IPSS.NET</div> <div>150.65.0.129</div>
<div>NOT HEALTHY</div> <div>SWITCTC_RDR150</div> <div>150.65.0.167</div>	<div>NOT HEALTHY</div> <div>SW-JB125.PTK.IPSS.NET</div> <div>150.65.0.35</div>	<div>NOT HEALTHY</div> <div>GDCC-2-UPS</div> <div>150.65.21.32</div>	<div>NOT HEALTHY</div> <div>SW-JB57</div> <div>150.65.0.12</div>	<div>NOT HEALTHY</div> <div>SW-JB221.PTK.IPSS.NET</div> <div>150.65.0.67</div>	<div>NOT HEALTHY</div> <div>SW-JB251.PTK.IPSS.NET</div> <div>150.65.0.77</div>
<div>NOT HEALTHY</div> <div>SW-JB383.PTK.IPSS.NET</div>	<div>NOT HEALTHY</div> <div>SW-JB298.PTK.IPSS.NET</div>	<div>NOT HEALTHY</div> <div>SW-JB269.PTK.IPSS.NET</div>	<div>NOT HEALTHY</div> <div>SW-JB278.PTK.IPSS.NET</div>	<div>NOT HEALTHY</div> <div>SW-JB413.PTK.IPSS.NET</div>	<div>NOT HEALTHY</div> <div>SW-JB54</div>

Fig. 01 : Device

On click, each device with device information and alarm will be displayed as the image below.



**Fig. 02 : Device Information**

There are two icons(tooltips) for filter and card view.



**Fig. 3 : Tooltips**

1.) **Filter** : It is used to filter the device list as per node, device type, device name, IP address, and device status.

The filter form is titled **Filters** and includes the following fields:

- Node**: A dropdown menu with the text "Select" and a downward arrow.
- Device Type**: A dropdown menu with the text "Select" and a downward arrow.
- Device Name**: A text input field with the placeholder text "enter name ..".
- IP Address**: A text input field with the placeholder text "XXX.XXX.XXX.XXX".
- Device Status**: A dropdown menu with the text "Select" and a downward arrow.

A purple **Go** button is located at the bottom of the form.

**Fig. 3 : Filter**

2.) **Card View** : It is used to display the device list into different forms as per the user.



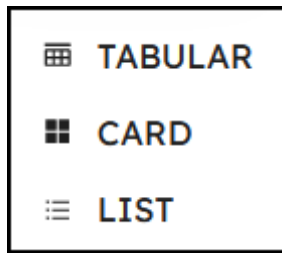


Fig. 4 : Card View

a.) **Tabular** : In tabular, device info will be displayed the form of a list as shown in the image below.

Node Name	Device Name	Device Status	Device Type	IP Address	Action
CRL_DELHI_MSS1	POLE-83-BOMDOM-UPS	NOT HEALTHY	UPS	150.65.1.141	
CRL_DELHI_MSS1	POLE-236-ATC-UPS	NOT HEALTHY	UPS	150.65.6.141	
CRL_DELHI_MSS1	POLE-371-2AREA-UPS	NOT HEALTHY	UPS	150.65.9.141	

Fig. 5 : Tabular

**Action** : On click, it will display the device information as shown in the above **Fig. 02 : Device Information**.

b.) **Card** : In card, device info will be visible as shown in the **Fig. 01 : Device**.

c.) **List** : In list, device info will be visible in the form of a list as shown in the image below.

	POLE-83-BOMDOM-UPS 150.65.1.141   UPS   Base Level   Down Time:- 2024-05-25 12:26:56.326   Up Time:- 2024-05-25 12:26:56.326	NOT HEALTHY
	POLE-236-ATC-UPS 150.65.6.141   UPS   Base Level   Down Time:- 2024-05-25 12:26:56.326   Up Time:- 2024-05-25 12:26:56.326	NOT HEALTHY
	POLE-371-2AREA-UPS 150.65.9.141   UPS   Base Level   Down Time:- 2024-05-25 12:26:56.324   Up Time:- 2024-05-25 12:26:56.324	NOT HEALTHY
	POLE-45-DHOBIGHAT-UPS 150.65.12.142   UPS   Base Level   Down Time:- 2024-05-25 12:26:56.331   Up Time:- 2024-05-25 12:26:56.331	NOT HEALTHY

Fig. 6 : List

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## Alarm

It is a sub-menu of the main-menu that display alarm information in the form of a list as shown in the image below.

Alarm					
Device Name	Alarm Description	Severity	Recieve Date Time	Clearing Date Time	Alarm Status
 No data					

Fig. 1 : Alarm Information

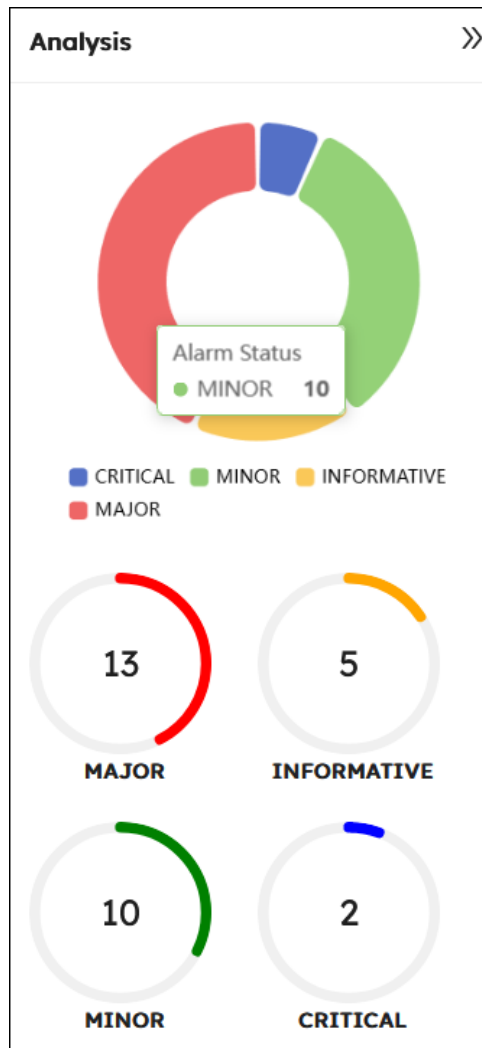
## Analysis

An icon as shown in the image below is used for the analysis .



**Fig. 2 : Tooltip**

On click, complete analysis will be displayed in the form of a pie chart as shown in the image below.



**Fig. 3 : Analysis**

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## SysLog

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## Configuration

This module has following Sub-Menus :

01. [Dashboard\(Dynamic\)](#)

02. [Topology](#)
03. [Hierarchical](#)
04. [Geomap](#)
05. [Dashboard\(Static\)](#)
06. [Device](#)
07. [Device Type](#)
08. [Threshold](#)
09. [Process](#)
10. [SNMP](#)
11. [MIB](#)
12. [General](#)
13. [Theme Setting](#)
14. [Patch Monitoring](#)

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## Dashboard(Dynamic)

It is a sub-menu of the configuration that display the dynamic dashboards in the form of a list such as in the image below **D1**, **D2**, **D3**, **D4** and **D5**. Here, user can add, edit, view, delete, and set default these dashboards.



**Fig. 1: Dashboard**

**ADD :** It is used to create a dashboard. On click, a form will pop-up. To create a dashboard, User has to fill mandatory fields **title** and **description** of the dashboard. And, then submit.

**Fig. 02 : Create Dashboard**

**Actions:** There are 4 actions that can be performed such as view, edit, delete, and set default by user.



Fig. 03 : Tooltip

1.) **View Dashboard** : It is used to view a dashboard. On click view, it redirects the user to **ViewDashboard** as show in the figure below dashboard **D2** is visible.

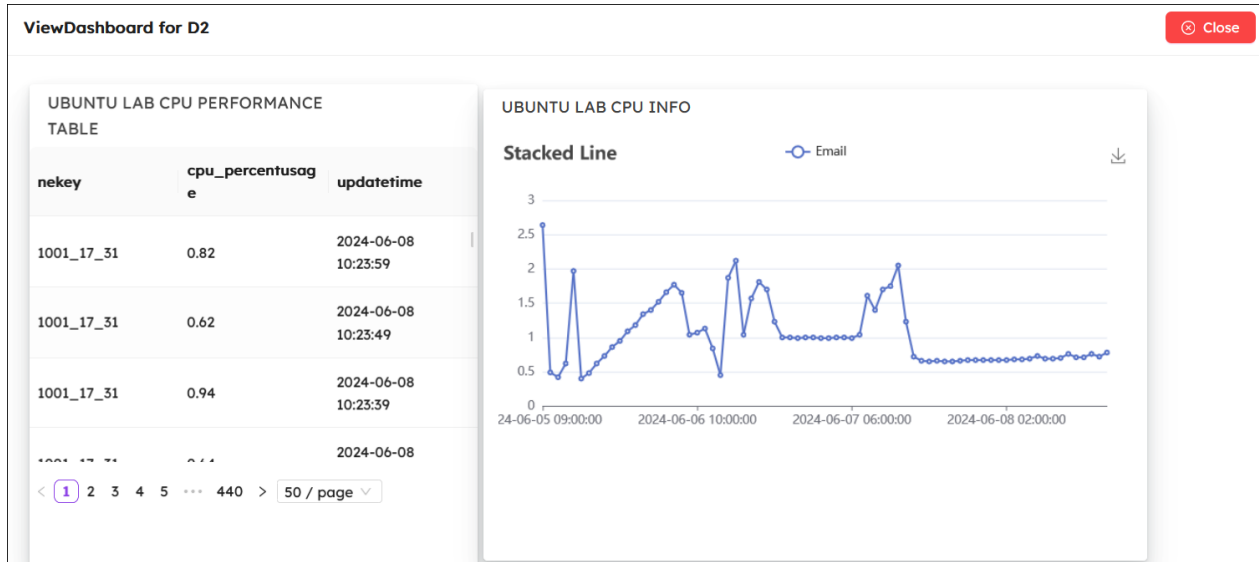


Fig. 4 : View Dashboard

2.) **Edit Dashboard Title and Description** : It is used to edit dashboard. On click, it redirects the user to **EditDashboard**. Here, user can click on an item on the side bar to add and save the new widget to the dashboard.

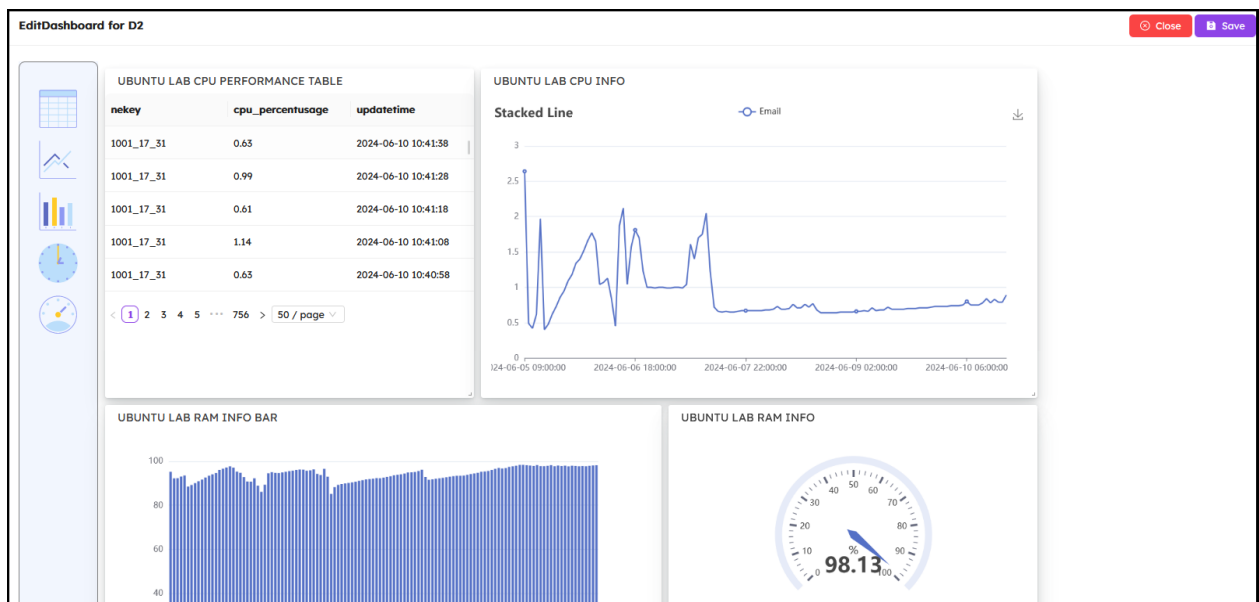
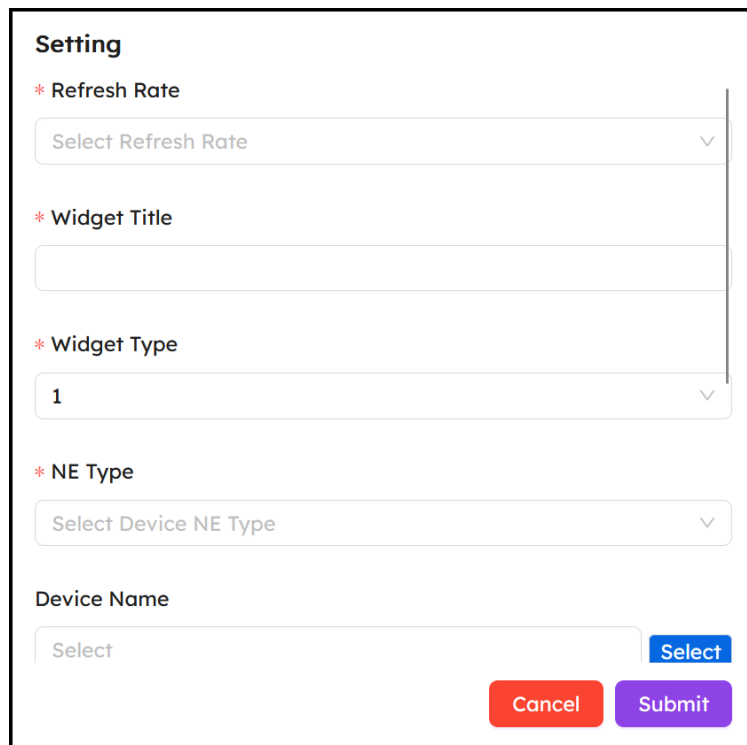


Fig. 05 : EditDashboard

On side bar, there are five types of widget table, line, bar, clock, and gauge. To add a new widget user has to fill a setting form and then submit it. On click, a pop-up form will appear as in image below.



**Setting**

\* Refresh Rate

\* Widget Title

\* Widget Type

\* NE Type

Device Name

Fig. 6 : Setting

3.) **Delete Dashboard** : It is used to delete a dashboard.

4.) **Set Default** : It is used to set a dashboard as a default dashboard.

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## Topology

It is a sub-menu of configuration that display the existing topology in the form of a list such as in the image below a **T1** topology. Here, user can view, edit, delete, and set default these topology /or topologies.

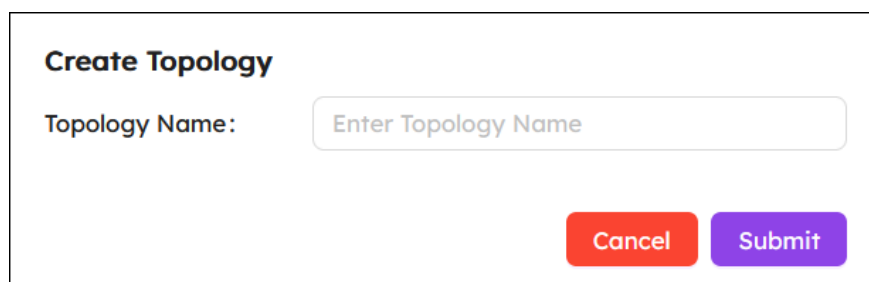


Configure Topology

T1

Fig. 01 : Configure Topology

**ADD** : It is used to create a topology. On click, a form will pop-up. To create a topology, user has to fill field **topology name**. And, then submit.



**Create Topology**

Topology Name:

Fig. 02 : Create Topology

**ACTIONS:** There are 4 actions that can be performed such as view, edit, delete, and set default.



**Fig. 03 : Tooltip**

- 1.) **View** : It is used to view a topology. On click view, it redirects the user to **ViewTopology** as show in the figure below Topology **T2** is visible.
- 2.) **Edit** : It is used to edit a topology.
- 3.) **Delete** : It is used to delete a topology.
- 4.) **Set Default** : It is used to set a topology as a default topology.

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## Hierarchical

It is a sub-menu of configuration that display the existing hierarchy in the form of a list such as in the image below a **H1** hierarchy. Here, user can **view**, **edit**, **delete**, and **set default** this hierarchy.



**Fig. 1: Configure Hierarchy**

**ADD** : It is used to create hierarchy. On click, a form will pop-up. To create a hierarchy, user has to fill mandatory fields **hierarchy name** and **hierarchy description**. And, then submit.

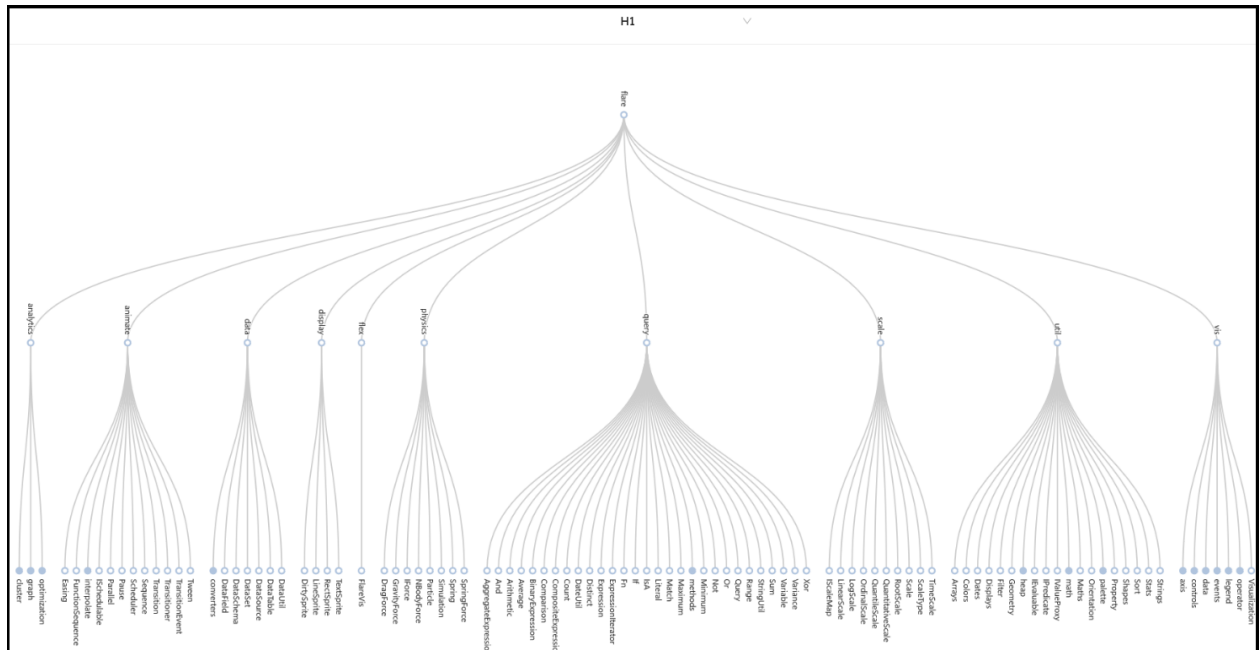
**Fig 02 : Create Hierarchy**

**ACTIONS:** There are 4 actions that can be performed such as view, edit, delete, and set default.



### Fig. 03 : Tooltip

**1.) View Hierarchy :** It is used to view a hierarchy. On click view, it redirects the user to **View Hierarchy** as show in the figure below Hierarchy **H1** is visible.



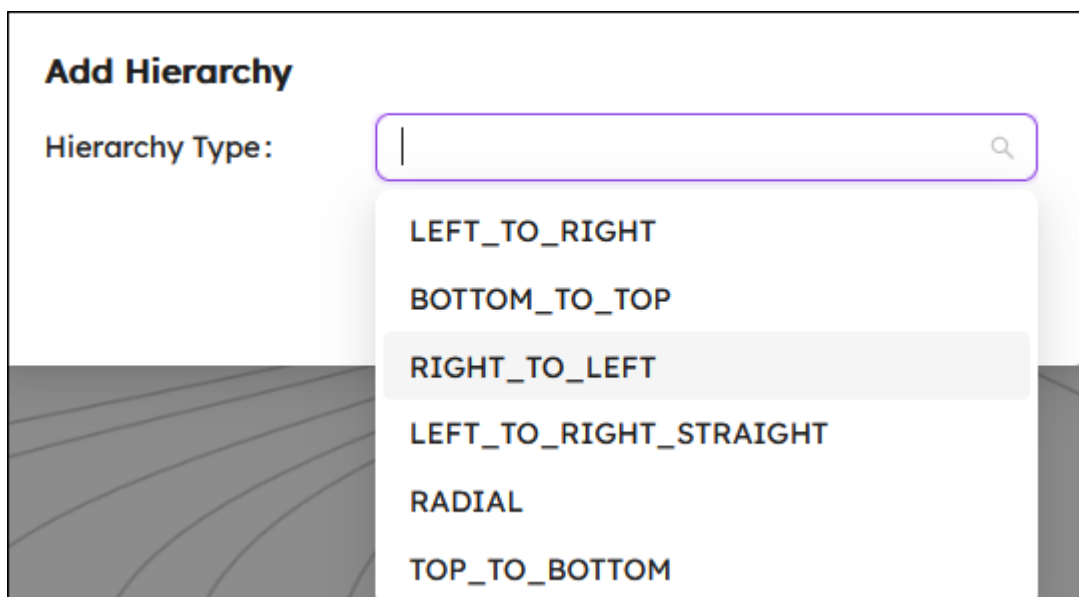
### Fig. 04 : View Hierarchy

**2.) Edit Hierarchy :** It is used to edit hierarchy. On click, it redirects the user to **Edit Hierarchy**. Here, user can config and save the hierarchy.



**Fig. 05 : Edit Hierarchy**

**a.) Config :** It is used to add hierarchy. On click, a pop up form will appear and user has to select the hierarchy type. And then submit.



**Fig. 06 : Add Hierarchy**

**b.) Save :** It is used to save the changes performed by the user. On click, a message will appear as given in the image below.

**Fig. 07 : Alert Message**

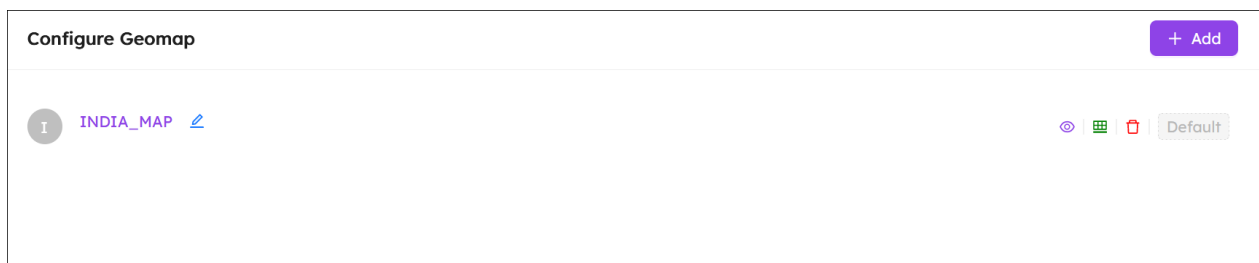
**3.) Delete :** It is used to delete a hierarchy.

**4.) Set Default :** It is used to set a topology as a default topology.

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## Geomap

It is a sub-menu of configuration that display the existing geomap in the form of a list as in the image below a **INDIA\_MAP** geomap. Here, user can **view**, **edit**, **delete**, and **set default** these geomap.

**Fig. 01 : Configure Geomap**

**ADD :** It is used to create geomap. On click, a form will pop-up. To create a geomap, user has to fill mandatory fields **geomap name** and **geomap description**. And, then submit.

**Fig. 02 : Create Geomap**

**ACTIONS:** There are 4 actions that can be performed such as view, edit, delete, and set default.





Fig. 03 : Tooltip

1.) **View Geomap** : It is used to view a geomap. On click, it redirects the user to **View Geomap** as show in the figure below Geomap **INDIA\_MAP** is visible.

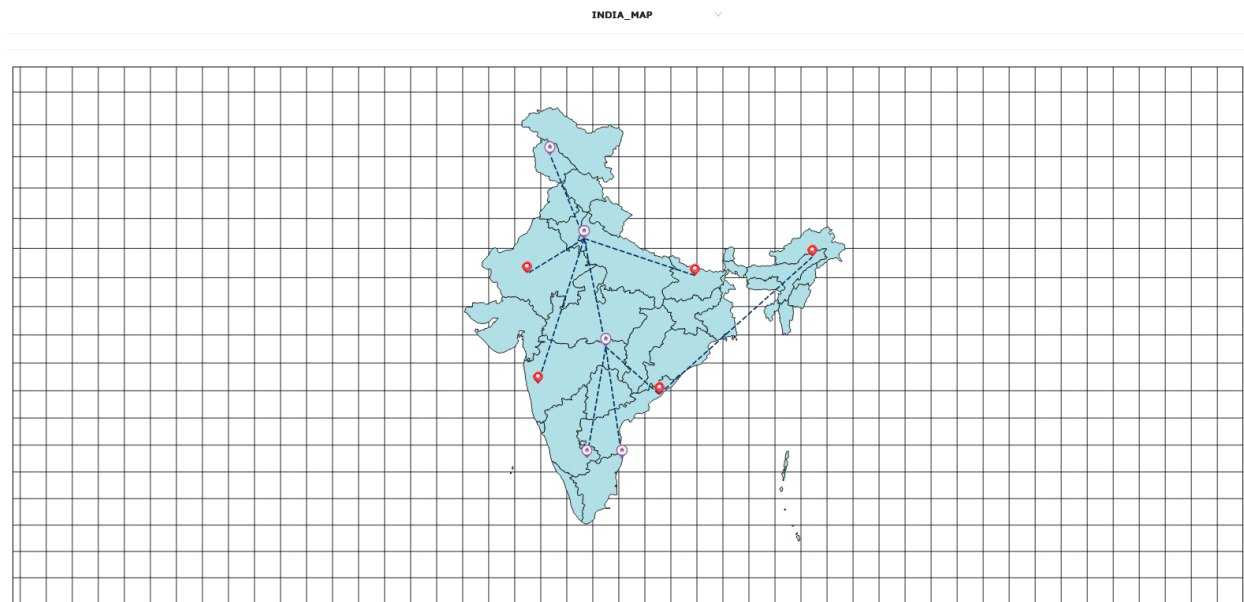


Fig. 04 : View Geomap

2.) **Edit Geomap** : It is used to edit geomap. On click, it redirects the user to **Edit Geomap**. Here, user can config and save the geomap.



Fig. 05 : Edit Geomap

a.) **Config** : It is used to add setting. On click, a pop up form will appear as shown in the image below and user has to select the bg color, edge, and, marker icon . And then submit.

Setting

Background Color:

#000000

Edge:

Marker Icon:

Cancel

Submit

Fig. 06 : Setting

**b.) Save :** It is used to save the changes performed by the user. On click, a message will appear as given in the image below.

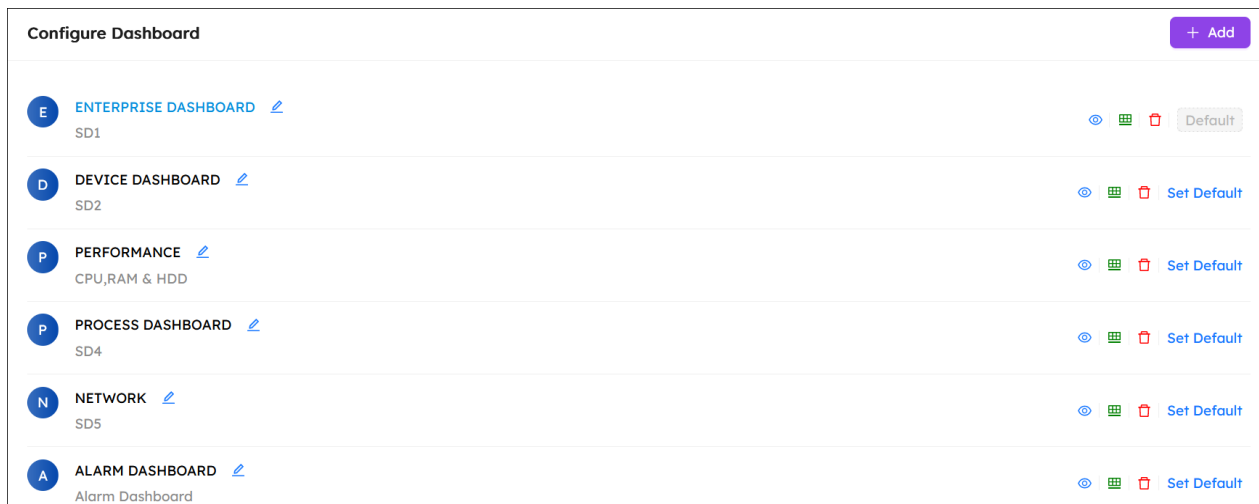
**3.) Delete :** It is used to delete a geomap.

**4.) Set Default :** It is used to set a geomap as a default geomap.

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## Dashboard(Static)

It is a sub-menu of configuration that display the existing dashboard(static) in the form of a list as shown in the image below ENTERPRISE DASHBOARD, DEVICE DASHBOARD, PERFORMANCE, PROCESS DASHBOARD, NETWORK, and ALARM DASHBOARD. Here, user can view, edit, delete, and set default(only one) these dashboards.



**Fig. 01 : Configure Dashboard**

**ADD :** It is used to create dashboard. On click, a form will pop-up. To create a dashboard, user has to fill mandatory fields title and description. And, then submit.

The screenshot shows a 'Create Dashboard' modal form. It has a title field and a description field, both marked as mandatory with an asterisk. At the bottom, there are 'Cancel' and 'Submit' buttons.

**Create Dashboard**

\* Title

\* Description

0

Cancel Submit

**Fig. 02 : Create Dashboard**

**ACTIONS:** There are 4 actions that can be performed such as view, edit, delete, and set default.



Fig. 03 : Tooltip

1.) **View Dashboard** : It is used to view a dashboard. On click, it redirects the user to **View Dashboard for DEVICE DASHBOARD** as show in the figure below **DEVICE DASHBOARD** is visible.

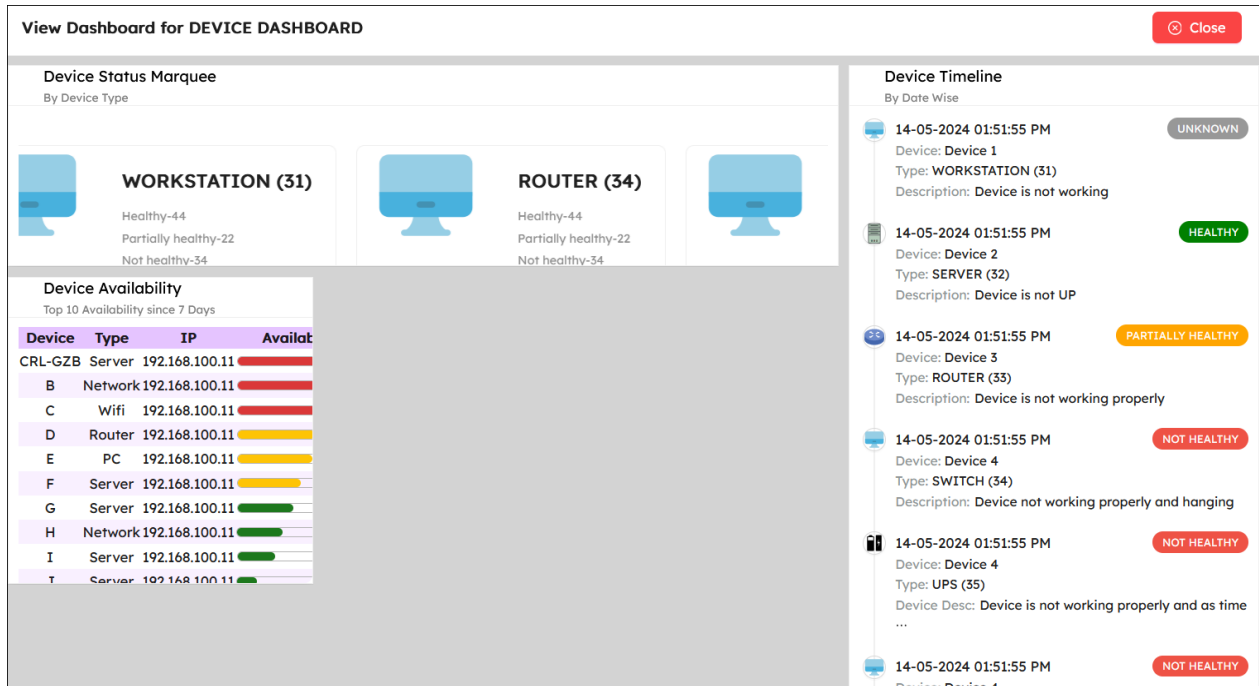


Fig. 04 : View Dashboard for DEVICE DASHBOARD

2.) **Edit Dashboard** : It is used to edit Dashboard. On click, it redirects the user to **Edit Dashboard**. Here, user can add and save the dashboard.



Fig. 05 : Edit Dashboard

a.) **Save** : It is used to save the changes performed by the user. On click, a message will appear as given in the image below.



Fig. 06 : Alert Message

b.) **Add** : It is used to add widget config. On click, a pop up form will appear as shown in the image below and user has to select the refresh rate and widget type from the drop down. And then, submit.

### Widget Config

\* Refresh Rate

Select Refresh Rate

\* Widget Type

Select Widget Type

Cancel

Submit

Fig. 07 : Widget Config

3.) **Delete** : It is used to delete a dashboard.

4.) **Set Default** : It is used to set a dashboard as a default dashboard. And a dashboard configured a message will pop up as shown in the image below.

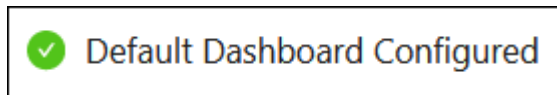


Fig 08 : Alert Message

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## Device

It is a sub-menu of configuration menu that display the node servers in the form of a list as in the image below. Here, user can **edit**, and **delete** any of these node.





















Device					
Node Name	Device Name	Device Status	Device Type	IP Address	Action
Base Level	NEW_PC3	HEALTHY	WORKSTATION	1.1.1.14	 
Base Level	GOVIND_PC6	HEALTHY	ROUTER	10.202.55.5	 
Base Level	NEW_PC2	HEALTHY	WORKSTATION	1.1.1.13	 
Base Level	GIS_VM	NOT HEALTHY	WORKSTATION	150.65.21.212	 
Base Level	C2_SEC-VM	NOT HEALTHY	WORKSTATION	150.65.21.215	 
Base Level	GIS_SEC_VM	NOT HEALTHY	WORKSTATION	150.65.21.216	 
Base Level	SW-JB11.PTK.IPSS.NET	HEALTHY	SWITCH	150.65.0.143	 
Base Level	SW-JB298.PTK.IPSS.NET	HEALTHY	SWITCH	150.65.0.93	 
Base Level	SW-JB275.PTK.IPSS.NET	HEALTHY	SWITCH	150.65.0.85	 
Base Level	SW-JB8.PTK.IPSS.NET	HEALTHY	SWITCH	150.65.0.142	 

Fig. 01 : Device

There are 5 icons(tooltip), that are used to performed actions such as add, filter, export CSV, export pdf, and reload by user.



Fig. 02 : Tooltip

1.) **ADD** : It is used to add new device. On click, a form will pop-up. To add a device, user has to fill mandatory fields **device type**, **device name**, **IP address**, and **node**. And, then, submit.

Fig. 02 : Add Device

2.) **Filter** : It is used to display the list of nodes on certain condition or criteria.

Fig. 03 : Filter

3.) **Export CSV** : It is used to download the list of nodes in the form of a CSV(comma-separated values) file.

4.) **Export PDF** : It is used to download the list of nodes in the form of a PDF(portable document file).

**5.) Reload :** It is used to reload the data(node list) form the backend in the UI.

**Actions:** There are two actions that can be performed such as edit, and delete.



**Fig. 04 : Tooltip**

**a.) EDIT :** It is used to edit device. On click, a form will pop-up. To edit a device, user has to fill device type, device name, IP address and node. And, then submit.

Edit Device

Close

\* Device Type: 35

Device Name: POLE-83-BOMDOM-UPS

\* IP Address: 150.65.1.141

\* Node: CRL\_DELHI\_MSS1

Cancel

Submit

**Fig. 05 : Edit Device**

**b.) Delete :** It is used to delete a device.

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## Device Type

It is a sub-menu of configuration menu that display the device type in the form of a list as in the image below. Here, user can **add**, and **delete** any of these node.

Device Type	Group No.	Ip Flag	Snmp Device	Device Desc	Device Icon	Poll Type	Polling Interval	Snmp Port	Delete
No data									

< 1 >

**Fig. 01 : Device Type**

There are 4 icons(tooltip), that are used to performed actions such as add, filter, export CSV, and export pdf by user.



Fig. 02 : Tooltip

**1.) ADD :** It is used to add new device type. On click, a form will pop-up. To add/edit a device type, user has to fill mandatory fields **ne type**, **group no**, **IP flag**, **snmp device**, **ne desc**, **ne icon**, **poll type**, **polling interval** and **snmp port**. And, then, submit.

Fig. 03 : Add/Edit Device Type

**2.) Filter :** It is used to display the list of device type on certain condition or criteria.

Fig. 04 : Filters

**3.) Export CSV :** It is used to download the list of device type in the form of a CSV(comma-separated values) file.

**4.) Export PDF :** It is used to download the list of device type in the form of a PDF(portable document

file).

Threshold

It is a sub-menu of configuration menu. This form is use to add threshold as shown in the image below.

Threshold

\* Device Type:

Select

▼

\* Device Name:

Select

▼

\* Threshold Parameter:

Select

▼

\* Threshold Value:

0

Submit

Fig. 01 : Threshold

Process

It is a sub-menu of configuration menu that display the device type in the form of a list as in the image below. Here, user can **add**, and **delete** any of these process.

Process

⊕ ⏮ 📄 📄

Process Id	Device Name	Process Name	Process Path	Process Status	Memory Percent	CPU Percent	Delete
<div><div></div><div>No data</div></div>							

Fig. 01 : Process

There are 4 icons(tooltip), that are used to performed actions such as add, filter, export CSV, and export pdf by user.

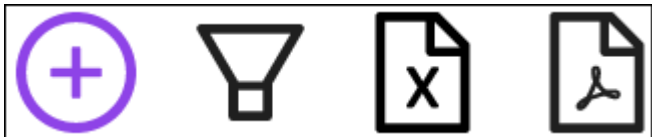
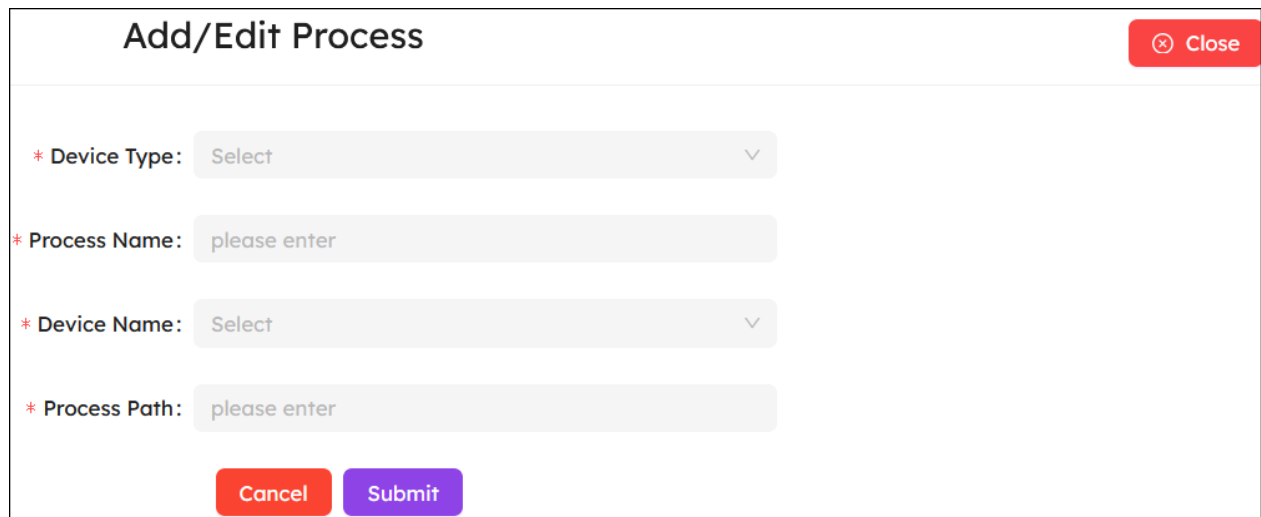


Fig. 02 : Tooltip

1.) **ADD/EDIT** : It is used to add /or edit process. On click, a form will pop-up. To add /or edit a process, user has to fill mandatory fields **device type**, **process name**, **device name**, and **process path**. And, then, submit.

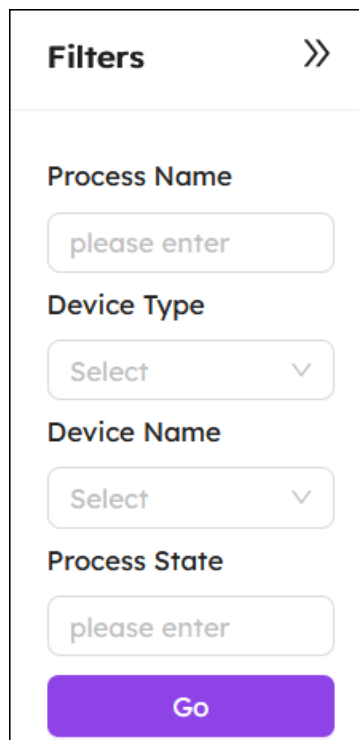




The 'Add/Edit Process' form features a title bar with a 'Close' button. It contains four required fields, each marked with a red asterisk: 'Device Type' (a dropdown menu), 'Process Name' (a text input), 'Device Name' (a dropdown menu), and 'Process Path' (a text input). At the bottom, there are two buttons: a red 'Cancel' button and a purple 'Submit' button.

Fig. 03 : Add/Edit Process

2.) **Filter** : It is used to display the list of process on certain condition or criteria.



The 'Filters' sidebar has a title 'Filters' and a double-right arrow icon. It lists four filter categories: 'Process Name' (text input), 'Device Type' (dropdown menu), 'Device Name' (dropdown menu), and 'Process State' (text input). A purple 'Go' button is located at the bottom of the sidebar.

Fig. 04 : Tootip

3.) **Export CSV** : It is used to download the list of process in the form of a CSV(comma-seperated values) file.

4.) **Export PDF** : It is used to download the list of process in the form of a PDF(portable document file).

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## SNMP

It is a sub-menu of configuration menu that display the snmp profiles in the form of a list as in the image below. Here, user can **add**, and **delete** any of these snmp profile.

SNMP Profile						
Profile Name	Version	Port	Context Name	SNMP Community	Linked To	Action
No data						

Fig. 01 : SNMP Profile

There are 4 icons(tooltip), that are used to performed actions such as add, filter, export CSV, and export pdf by user.



Fig. 02 : Tooltip

**1.) ADD/EDIT :** It is used to add /or edit process. On click, a form will pop-up. To add /or edit a snmp profile, user has to fill mandatory fields **profile name, snmp version, username, port, retries, security type, authentication protocol, privacy protocol, snmp context, authentication passphrase, community, privacy passphrase, and timeout(sec)**. And, then, submit.

Add/Edit SNMP Profile		Close
* Profile Name:	<input type="text"/>	* SNMP Version:
* Username:	<input type="text"/>	* Port:
* Retries:	<input type="text"/>	* Security Type:
* Authentication Protocol:	<input type="text"/>	* Privacy Protocol:
* SNMP Context:	<input type="text"/>	* Authentication PassPhrase:
* Community:	<input type="text"/>	* Privacy PassPhrase:
* Timeout(sec):	<input type="text"/>	
<input type="button" value="Cancel"/> <input type="button" value="Submit"/>		

Fig. 03 : Add/Edit Process

**2.) Filter :** It is used to display the list of snmp profiles on certain condition or criteria.

**Filters**
>>

Node

Device Type

Device Name

IP Address

Go

Fig. 04 : Filters

**3.) Export CSV :** It is used to download the list of snmp profiles in the form of a CSV(comma-separated values) file.

**4.) Export PDF :** It is used to download the list of snmp profiles in the form of a PDF(portable document file).

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## MIB

It is a sub-menu of configuration menu that display the MIB templates in the form of a list as shown in the image below. Here, user can **add**, and **delete** any of these MIB template.

MIB			
Template Name	Linked To	Action	
b	—		
ededede	—		
Data	—		
TESTTEMPLATE	—		
from upload	—		
subhash	router5		
testtemplate	—		
testui	—		
flamessdd	—		
upload test	—		

Fig. 01 : MIB Template

There are 4 icons(tooltip), that are used to performed actions such as add, filter, export CSV, and export pdf by user.



Fig. 02 : Tooltip

1.) **ADD** : It is used to add new template by upload or/ manual. On upload, user can upload a template. By manual, user has to fill a form with mandatory fields **OID**, **description**, **syntax**, **data type**, **interpretation**, and **unit**. And, then, click add.

Fig. 03 : Add MIB

2.) **Filter** : It is used to display the list of MIB templates on certain condition or criteria.

Fig. 04 : Filters

3.) **Export CSV** : It is used to download the list of snmp profiles in the form of a CSV(comma-separated values) file.

4.) **Export PDF** : It is used to download the list of snmp profiles in the form of a PDF(portable document file).

**ACTIONS:** There are 4 actions that can be performed such as view, edit, delete, and set default.

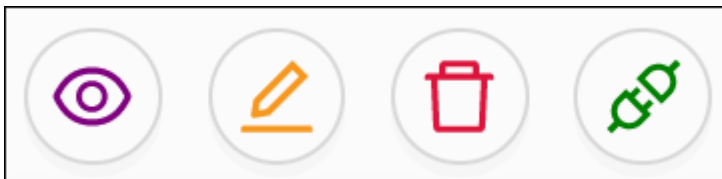


Fig. 05 : Tooltip

1.) **View** : It is used to view a template. On click, it redirects the user to a MIB template as show in the figure below.

Close				
OID	Description	Syntax	Interpretation	Unit
.1.	operationalStatus	INTEGRE	1(up), 2(down)	s
< 1 >				

Fig. 06 : View MIB Template

**2.) Edit :** It is used to edit MIB template. On click, it redirects the user to **Edit MIB**. Here, user can add and save the dashboard.



Edit MIB						Close	Save Template
* OID:	<input type="text"/>	* Description:	<input type="text"/>	* Syntax:	<input type="text"/>		
* Data Type:	<input type="text"/>	* Interpretation:	<input type="text"/>	* Unit:	<input type="text"/>	?	
<b>Add</b>							
OID	Description	Syntax	Interpretation	Unit	Action		
.1.	operationalStatus	INTEGRE	1(up), 2(down)	s	 		

Fig. 07 : Edit MIB Template

**a.) Add :** It is used to add template.

**b.) Save Template :** It is used to save the template.

**Action :** There are two actions i.e. edit and delete, that can be performed by the user while editing MIB template.

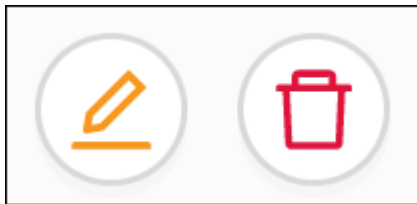


Fig. 08 : Tooltip

**i) Edit :** It is used to fill the table data in the form fields. On click, data from the table will be filled in from fields as in the image below.

* OID:	<input type="text" value=".1."/>	* Description:	<input type="text" value="operationalStatus"/>	* Syntax:	<input type="text" value="INTEGRE"/>		
* Data Type:	<input type="text"/>	* Interpretation:	<input type="text" value="1(up), 2(down)"/>	* Unit:	<input type="text" value="s"/>	?	
<b>Add</b>							

Fig. 09 : Edit/Add

**ii) Delete :** It is used to delete a MIB template.

**3.) Delete :** It is used to delete an MIB template.

**4.) Link :** It is used to link a device with template. On click, a form will pop up as shown in the image below.



Fig. 10 : Link

To link a device with template user has to select from the list and then submit.

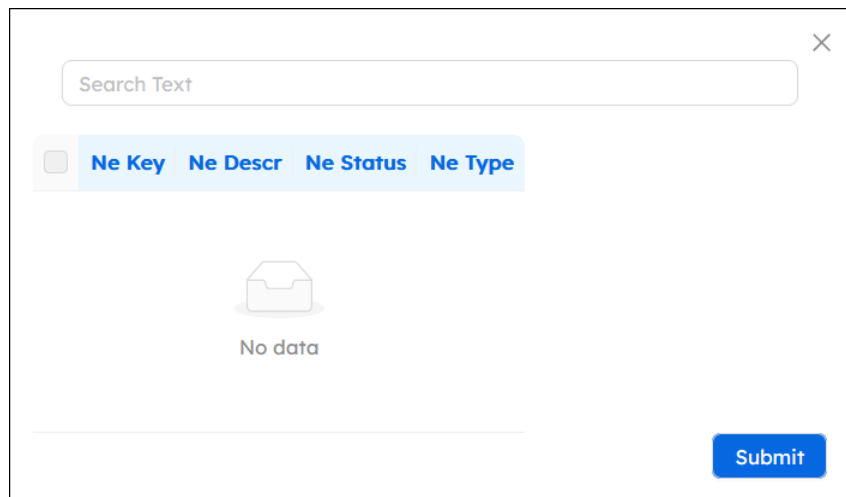


Fig. 11 : Template List

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## General

### General Settings

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## Theme Setting

It is a sub-menu of configuration menu that display the theme setting as shown in the image below. Here, user can **reset**, and **save** primary color(in code).

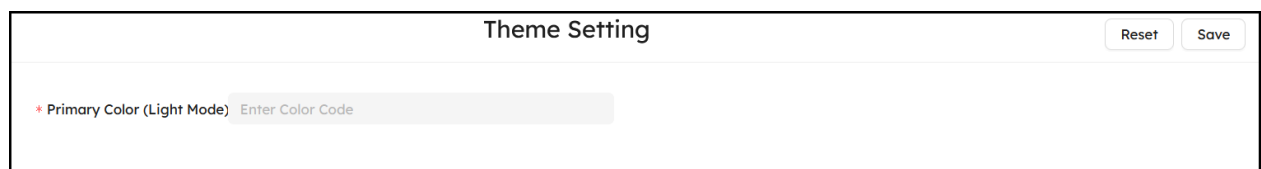


Fig. 01 : Theme Setting

1.) **Reset** : It is used to reset the primary color code entered.

2.) **Save** : It is used to save the primary color code.

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## Patch Monitoring

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## User Management

This module has following Sub-Menus :

01. [Users](#)
02. [Profile](#)
03. [System Role](#)
04. [Change Password](#)

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### Users

This sub-menu of the user management that provides the required information about the users. The complete information is given in the form of a list as shown in the image below such as **Id**, **email**, **profile**, **role**, **first name**, **last name**, **action**, **reset password** and **status**.

Id	Email	Profile	Role	First Name	Last Name	Action	Reset Password	Status
502	admin@mail.com		SUPER_ADMIN	Admin	Admin			DISABLED
503	manager@mail.com		MANAGER	Admin	Admin			✓ENABLED
504	manager1@mail.com		MANAGER	Admin	Admin			✓ENABLED
505	superadmin@mail.com		ADMIN	SuperAdmin	Admin			✓ENABLED
506	superadmintest@mail.com		ADMIN	SuperAdminTest	Admin			✓ENABLED
552	erum@mail.com		ADMIN	SuperAdmin	Admin			✓ENABLED
652	lalit@mail.com		ADMIN	Lalit	Tolani			✓ENABLED
702	sneha@mail.com		ADMIN	Sneha	P			✓ENABLED
752	satwik@mail.com		ADMIN	Satwik	A			✓ENABLED
802	subhashkarn@mail.com		ADMIN	Subhash	Karn			✓ENABLED

Fig 01: Users

The following information is provided here:

**ID:** It is an employee ID.

**User Name:** Staff person's name.

**Profile:** It is used to provide a complete information about the staff member.

**Role:** It is the role of the user according to his/her position in the organization i.e. admin, manager etc.

**Contact No.:** Contact number of the staff member.

**Email ID:** It is the login id of the staff member.

**Login TimeStamp:** It show the time and date at which user logged in.

**Actions:** These are the changes that can be performed by user.

**Change Password:** This is used to change the password.

There are 5 icons(tooltips) that is used to perform actions as follows:

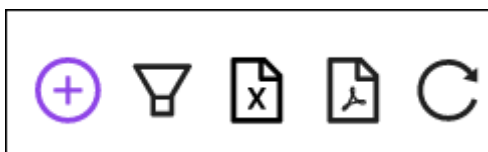
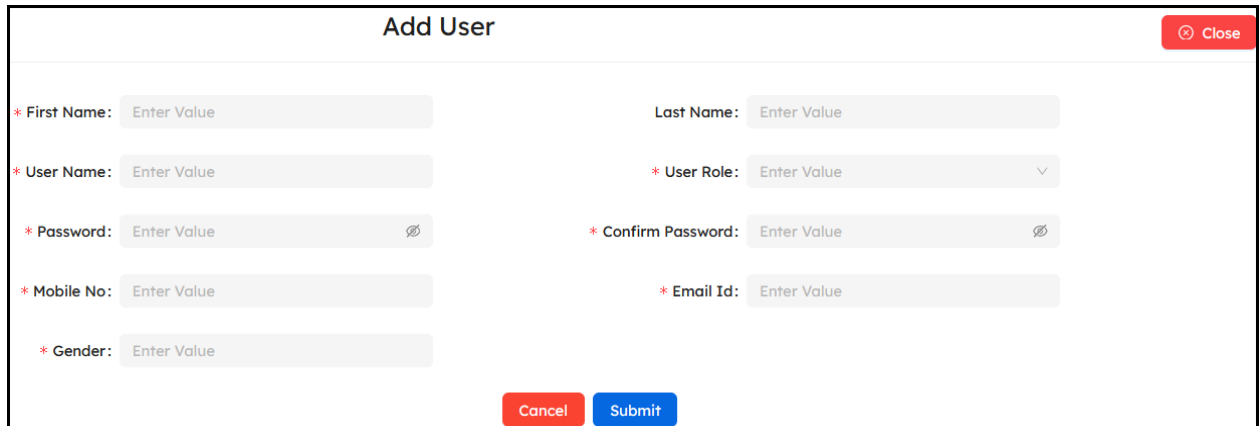


Fig. 02 : Tooltip

- 1.) **Add** : It is used to add new user.
- 2.) **Filter** : It is used to filter the list of the users.
- 3.) **Export CSV**: To export the list of the users in CSV file format.
- 4.) **Export pdf** : To export the list of users in pdf format.
- 5.) **Reload** : To reload the list of the users.

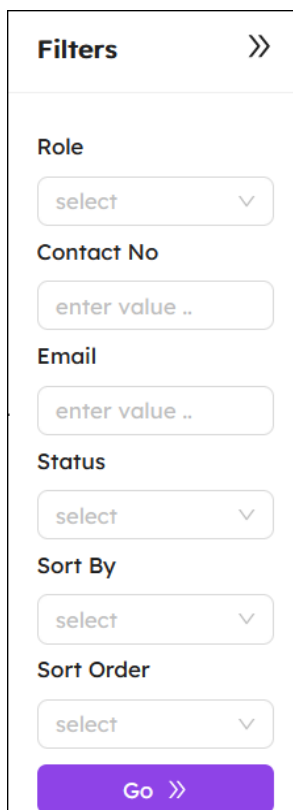
1.) **ADD ICON** : It is used to add user. On click add icon, a form will pop-up. To add a new user, super admin /or admin has to fill mandatory fields **first name, last name, user name, user role, password, confirm password, mobile no., email id, and gender** of the user. And, then submit.



The 'Add User' form is a modal window with a title bar 'Add User' and a 'Close' button. It contains several input fields, each with a red asterisk indicating it is mandatory. The fields are arranged in two columns. The first column contains 'First Name', 'User Name', 'Password', 'Mobile No.', and 'Gender'. The second column contains 'Last Name', 'User Role' (a dropdown menu), 'Confirm Password', and 'Email Id'. Each field has a placeholder text 'Enter Value'. At the bottom of the form, there are two buttons: 'Cancel' (red) and 'Submit' (blue).

**Fig. 03 : Add User**

2.) **Filter** : It is used to display the list of users on certain condition or criteria.



The 'Filters' sidebar is a vertical panel with a title 'Filters' and a double arrow icon. It contains several filter categories, each with a corresponding input field or dropdown menu. The categories are: 'Role' (dropdown), 'Contact No' (text input), 'Email' (text input), 'Status' (dropdown), 'Sort By' (dropdown), and 'Sort Order' (dropdown). Each input field has a placeholder text 'enter value ..'. At the bottom of the sidebar, there is a purple button labeled 'Go >>'.

**Fig. 04 : Filters**

3.) **Export CSV** : It is used to download the list of users in the form of a CSV(comma-separated values) file.

4.) **Export PDF** : It is used to download the list of users in the form of a PDF(portable document file).



**5.) Reload :** It is used to reload the data(node list) form the backend in the UI.

**Actions :** There are two icons(tooltips), that are used to performed actions **edit**, and **delete**.



**Fig. 05 : Tooltips**

**a.) Edit :** It is used to edit user. On click, it redirects the user to **Edit User** as shown in the image below. Here, user has to fill mandatory fields **first name**, **last name**, **email id**, **user role**, **email id**, **user role**, **mobile no.**, and **gender**. Then, submit.

**Fig. 06 : Edit User**

**b.) Delete :** It is used to delete any user information.

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## Profile

It is a sub-menu of the User management menu that provides the required information about the user profile. The complete information is given in different sections.

**Fig 01: Profile**

**Title Section:** Employee name with employee ID, SysRole, Gender and Nationality.

**Personal Information:** It includes works at (organization name), Date of Birth, Date of Joining, Experience, Govt Id No., Govt Id Type, OrgRole(Role at the organization) and Contact number of the employee.

**Contact:** It includes Email, whatssApp, and Mobile Number.

**Role Info:** It includes

**Operational Info:**

**Organizational Info:** It includes Organization Type, Accepting Officer, MoD Officer, Cost Center, and Cost Per Hour.

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## System Role

It is sub-menu of user management that provides the details about the staff member. The complete information is given in the form of a list as shown in the image below such as **SysRole Name**, **New SysRole Name**, and **Landing Page**.

Fig. 01: System Role

### 1.) Main :

Sub Menu	Read	Write
Home	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Topology	<input type="checkbox"/>	<input type="checkbox"/>
Hierarchy	<input type="checkbox"/>	<input type="checkbox"/>
Geomap	<input type="checkbox"/>	<input type="checkbox"/>
Dashboard(Custom)	<input type="checkbox"/>	<input type="checkbox"/>
Dashboard(Static)	<input type="checkbox"/>	<input type="checkbox"/>
Line	<input type="checkbox"/>	<input type="checkbox"/>
Device Dashboard	<input type="checkbox"/>	<input type="checkbox"/>
Alarm	<input type="checkbox"/>	<input type="checkbox"/>
Syslog	<input type="checkbox"/>	<input type="checkbox"/>

Fig. 02 : Main

### 2.) Configuration :















Sub Menu	Read	Write
 Dashboard(Custom)	<input type="checkbox"/>	<input type="checkbox"/>
 Topology	<input type="checkbox"/>	<input type="checkbox"/>
 Hierarchical	<input type="checkbox"/>	<input type="checkbox"/>
 Geomap	<input type="checkbox"/>	<input type="checkbox"/>
 Dashboard(Static)	<input type="checkbox"/>	<input type="checkbox"/>
 Device	<input type="checkbox"/>	<input type="checkbox"/>
 Device Type	<input type="checkbox"/>	<input type="checkbox"/>
 Threshold	<input type="checkbox"/>	<input type="checkbox"/>
 Process	<input type="checkbox"/>	<input type="checkbox"/>
 SNMP	<input type="checkbox"/>	<input type="checkbox"/>
 MIB	<input type="checkbox"/>	<input type="checkbox"/>
 General	<input type="checkbox"/>	<input type="checkbox"/>
 configuration.ui_builder	<input type="checkbox"/>	<input type="checkbox"/>
 Patch Monitoring	<input type="checkbox"/>	<input type="checkbox"/>

Fig. 03 : Configuration

### 3.) User Management :





Sub Menu	Read	Write
 Users	<input type="checkbox"/>	<input type="checkbox"/>
 Profile	<input type="checkbox"/>	<input checked="" type="checkbox"/>
 System Role	<input type="checkbox"/>	<input type="checkbox"/>
 Change Password	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Fig. 04 : User Management

### 4.) Report :






Sub Menu	Read	Write
 Alarm	<input type="checkbox"/>	<input type="checkbox"/>
 Process	<input type="checkbox"/>	<input type="checkbox"/>
 Login	<input type="checkbox"/>	<input type="checkbox"/>
 Device	<input type="checkbox"/>	<input type="checkbox"/>
 Event	<input type="checkbox"/>	<input type="checkbox"/>

Fig. 05 : Report

### 5.) Help :



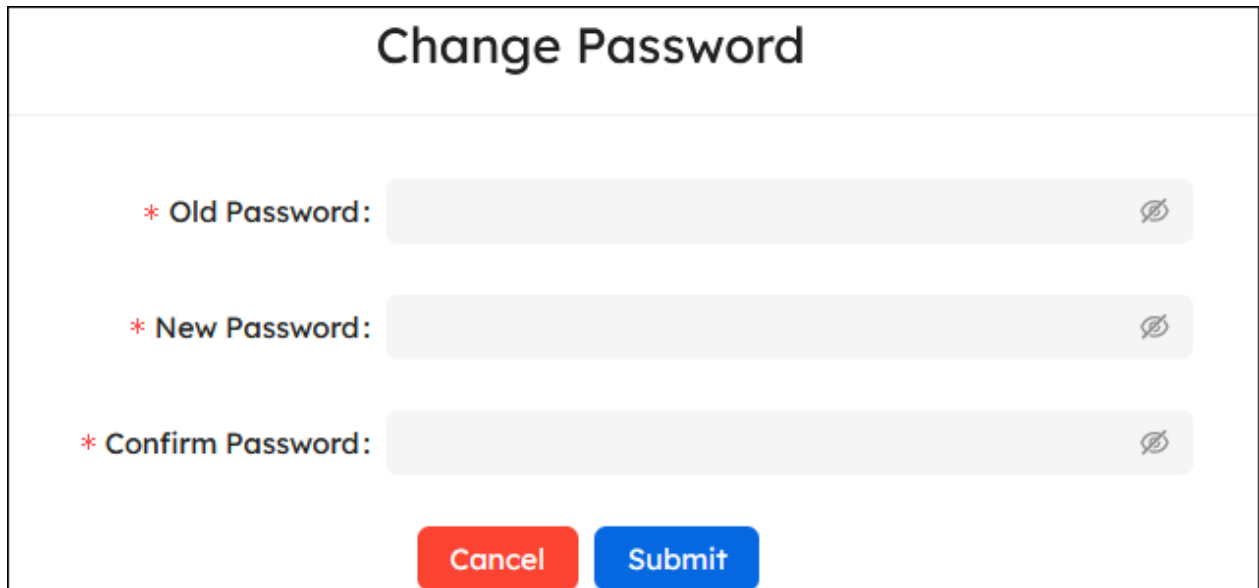
Sub Menu	Read	Write
 About Us	<input type="checkbox"/>	<input type="checkbox"/>
 Manual	<input type="checkbox"/>	<input type="checkbox"/>

Fig. 06 : Help

## Change Password

This is a sub-menu of user management is used by user /or employee to change a profile password. To change a password, one should fill the mandatory fields **old password**, **new password**, and **confirm password**. Then, submit.



The image shows a web form titled "Change Password". It contains three input fields, each preceded by a red asterisk indicating they are mandatory: "Old Password:", "New Password:", and "Confirm Password:". Each input field has a small eye icon to the right, likely for toggling password visibility. At the bottom of the form, there are two buttons: a red "Cancel" button and a blue "Submit" button.

Fig. 01 : Change Password

**Note:** Password should be of minimum length of 8. For the high security it should include numeric, alphanumeric, special character and case sensitive data.

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## Report

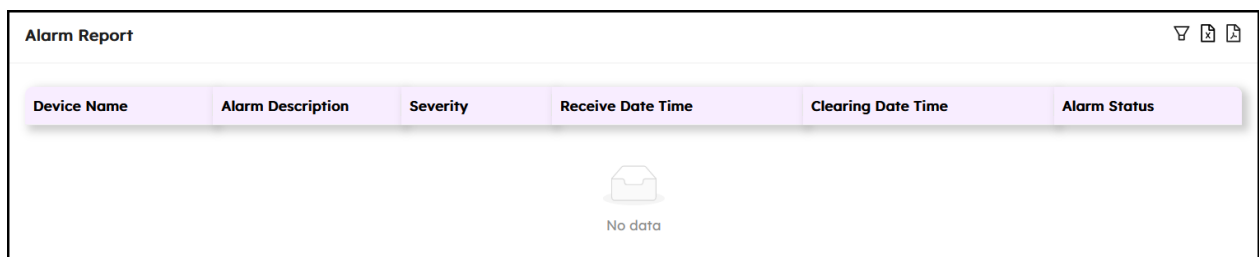
This module has following Sub-Menus :

01. [Alarm](#)
02. [Application](#)
03. [Login](#)
04. [Device](#)
05. [Event](#)

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## Alarm

It is a sub menu of report menu that display the report of alarm in the form of a list such as shown in the image below. Here, user can **filter**, **export CSV**, and **export pdf**.

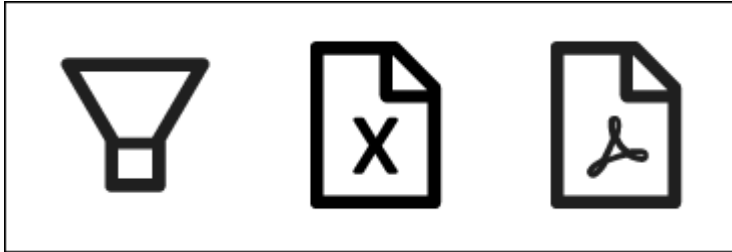


The image shows a web interface for an "Alarm Report". At the top right, there are three icons: a funnel (filter), a document with a download arrow (export CSV), and a document with a download arrow (export PDF). Below these icons is a table with the following columns: "Device Name", "Alarm Description", "Severity", "Receive Date Time", "Clearing Date Time", and "Alarm Status". The table is currently empty, and below it, there is a message "No data" with a folder icon.

Fig. 01 : Alarm Report

There are three tooltips as shown in the image below that used to perform actions **filter**, **export CSV**, and

export pdf.



**Fig. 02 : Tooltip**

**1.) Filter :** It is used to display the report of alarm on certain condition or criteria.

**Filters**
>>

**Start Date (Receiving)**

**End Date (Receiving)**

**Start Date (Clearing)**

**End Date (Clearing)**

**Device Type**

**Device Name**

**Severity**

**Alarm Status**

**Alarm Description**

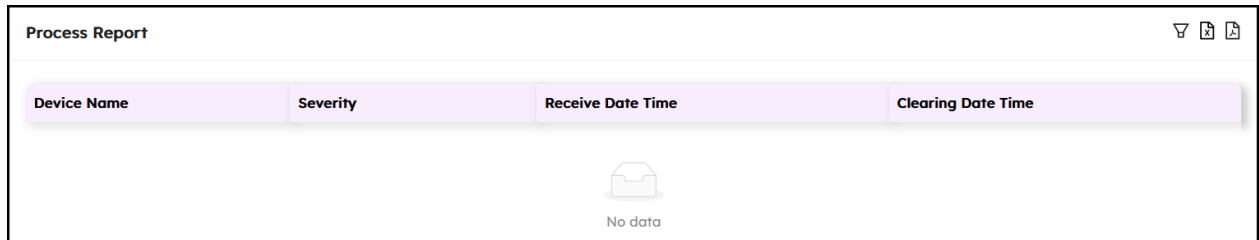
**Fig. 03 : Filters**

**2.) Export CSV :** It is used to download the report of alarm in the form of a CSV(comma-seperated values) file.

**3.) Export PDF :** It is used to download the report of alarm in the form of a PDF(portable document file).

## Process

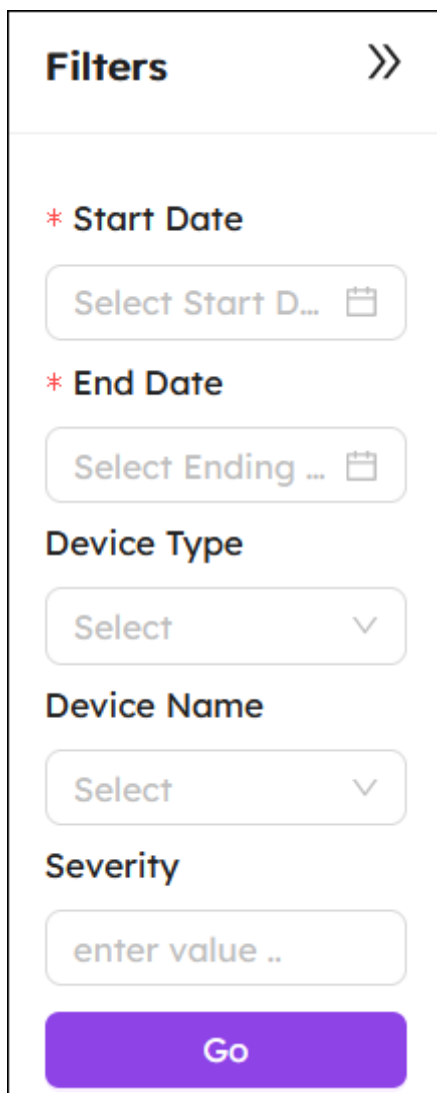
It is a sub menu of report menu that display the report of process in the form of a list as shown in the image below. Here, user can **filter**, **export CSV**, and **export pdf**.



Device Name	Severity	Receive Date Time	Clearing Date Time
No data			


**Fig. 01 : Process Report**

1.) **Filter** : It is used to display the report of process on certain condition or criteria.




### Filters


\* **Start Date**

Select Start D... 


\* **End Date**

Select Ending ... 

**Device Type**

Select 

**Device Name**

Select 

**Severity**

enter value ..

**Go**

**Fig. 02 : Filters**

2.) **Export CSV** : It is used to download the report of alarm in the form of a CSV(comma-separated values) file.

3.) **Export PDF** : It is used to download the report of alarm in the form of a PDF(portable document file).

## Login

It is a sub menu of report menu that display the report of login in the form of a list such as shown in the image below. Here, user can **filter**, **export CSV**, and **export pdf**.


Login Report		
User Name	Login Activity Description	Date Time
	SUPERADMIN LOGGED IN	2024-03-19 13:20:21.756
	SUPERADMIN LOGGED IN	2024-03-19 13:32:33.464
	SUPERADMIN LOGGED IN	2024-04-15 11:36:02.155
	SUPERADMIN LOGGED IN	2024-04-15 14:30:21.559
	SUPERADMIN LOGGED IN	2024-04-15 14:41:50.142
	ADMIN LOGGED IN	2024-04-16 09:58:19.792
	SUPERADMIN LOGGED IN	2024-04-16 10:00:06.272
	ERAM@MAIL.COM LOGGED IN	2024-04-16 10:05:35.513
	SUPERADMIN LOGGED IN	2024-04-16 10:30:49.841
	LALIT LOGGED IN	2024-04-16 10:32:49.302

**Fig. 01 : Login Report**


1.) **Filter** : It is used to display the report of login on certain condition or criteria.

### Filters

\* Start Date

Select Start D... 

\* End Date

Select Ending ... 

User Name

enter value ..

Go >>




**Fig. 02 : Fliter**

2.) **Export CSV** : It is used to download the report of login in the form of a CSV(comma-seperated values) file.

3.) **Export PDF** : It is used to download the report of login in the form of a PDF(portable document file).

## Device

It is a sub menu of report menu that display the device report in the form of a list such as shown in the image below. Here, user can **filter**, **export CSV**, and **export pdf**.

Device Report						
Device Name	Device Status	Up Date Time	Down Date Time			
POLE-83-BOMDOM-UPS	NOT HEALTHY	2024-05-25 12:26:56.326	2024-05-25 12:26:56.326			
POLE-236-ATC-UPS	NOT HEALTHY	2024-05-25 12:26:56.326	2024-05-25 12:26:56.326			
POLE-371-2AREA-UPS	NOT HEALTHY	2024-05-25 12:26:56.324	2024-05-25 12:26:56.324			
POLE-45-DHOBIGHAT-UPS	NOT HEALTHY	2024-05-25 12:26:56.331	2024-05-25 12:26:56.331			
SW-JB364.ptk.ipss.net	NOT HEALTHY	2024-05-25 12:26:56.332	2024-05-25 12:26:56.332			
SW-JB199	NOT HEALTHY	2024-05-25 12:26:56.335	2024-05-25 12:26:56.335			
SW-JB292.ptk.ipss.net	NOT HEALTHY	2024-05-25 12:26:56.333	2024-05-25 12:26:56.333			
SW-JB77.ptk.ipss.net	NOT HEALTHY	2024-05-25 12:26:56.321	2024-05-25 12:26:56.321			
SW-JB227.ptk.ipss.net	NOT HEALTHY	2024-05-25 12:26:56.334	2024-05-25 12:26:56.334			
GOVIND_PC6	NOT HEALTHY	2024-05-25 15:35:46.659	2024-05-25 15:35:46.659			

**Fig. 01 : Device Report**

**1.) Filter :** It is used to display the report of device on certain condition or criteria.



**Fig. 02 : Filter**

**2.) Export CSV :** It is used to download the report of device in the form of a CSV(comma-seperated values) file.

**3.) Export PDF :** It is used to download the report of device in the form of a PDF(portable document file).

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## Event

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## Help

This module has following Sub-Menus :

01. [About Us](#)
02. [Manual](#)

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## About Us

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## Manual

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