# Telecom NMS

# Table of contents

# Introduction

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.

# System Requirement

# Getting Started

# Menu / Functions

This module has following Sub-Menus :

01. Main
02. Configuration
03. Use Management
04. Report
05. Help

# 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

## 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.
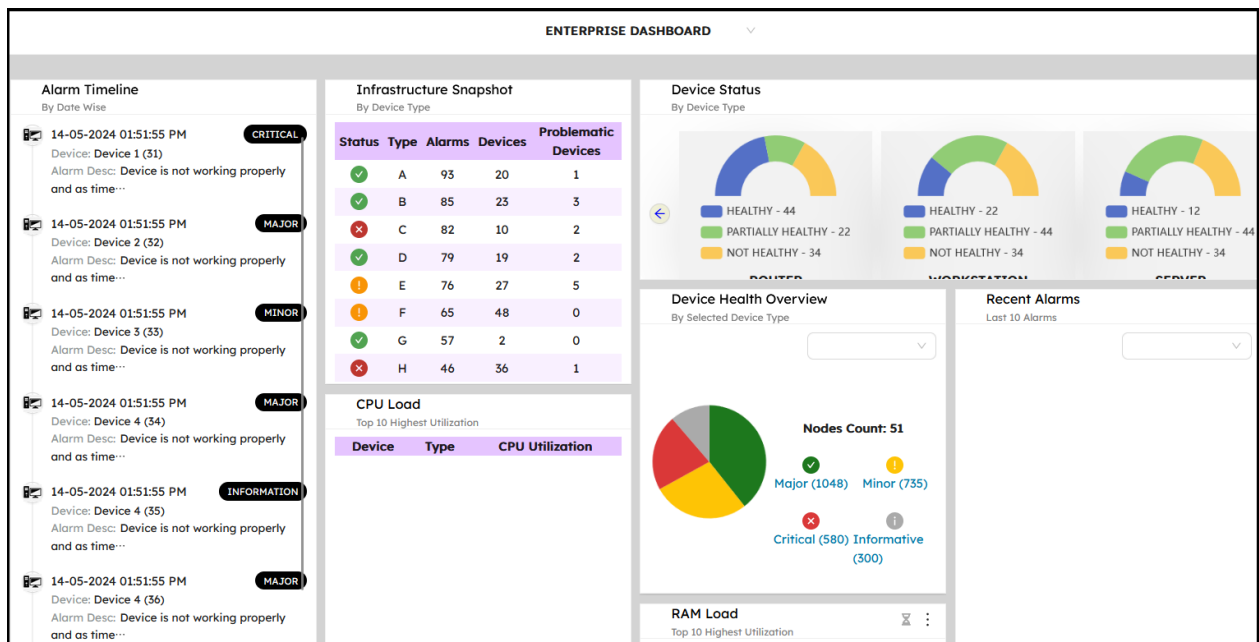


**Fig. 01: Enterprise Dashboard**

## 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.
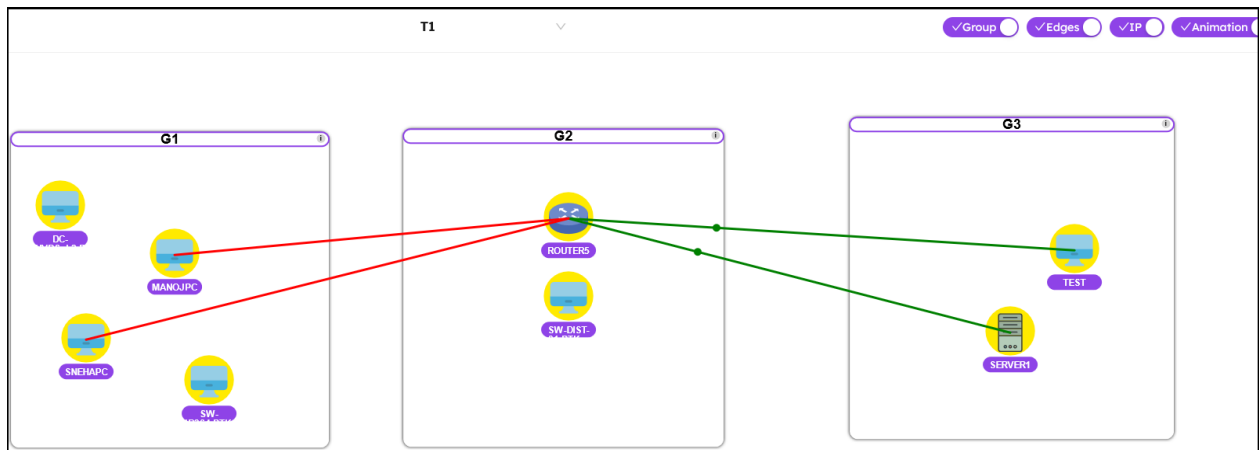


**Fig. 01: Topology**

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**.
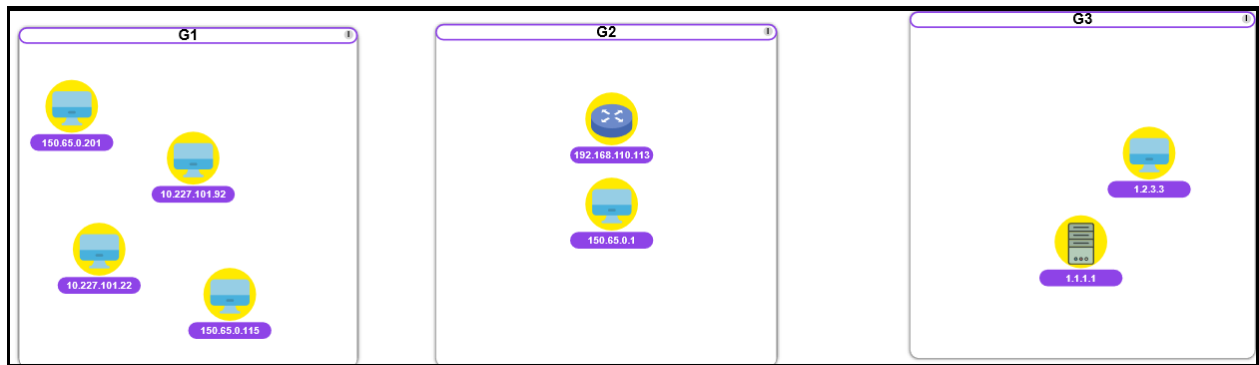
**Fig. 03: Grouped**

**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**.
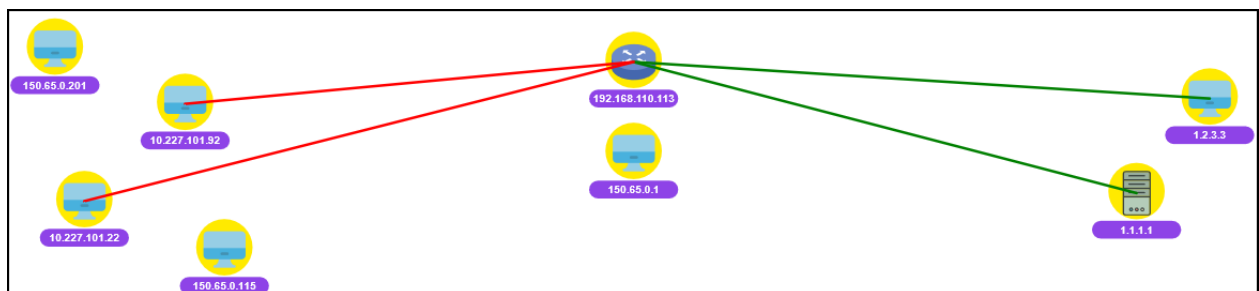


**Fig. 04: Edges**

**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).
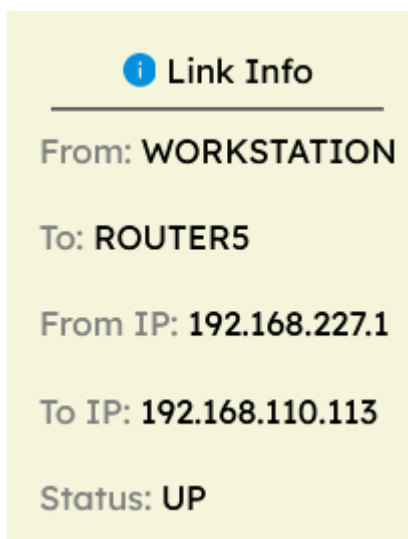


**Fig. 05: Link Info**

**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**
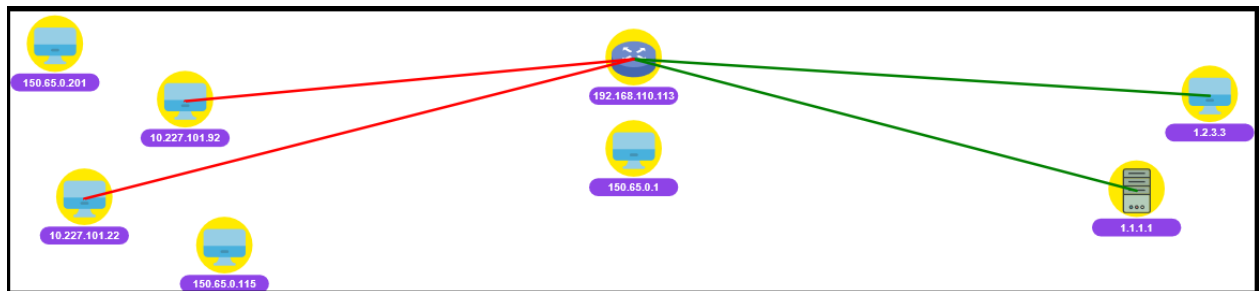
**4.) Animation:** It will display network animation.



**Fig. 07: Animation**

## Hierarchy

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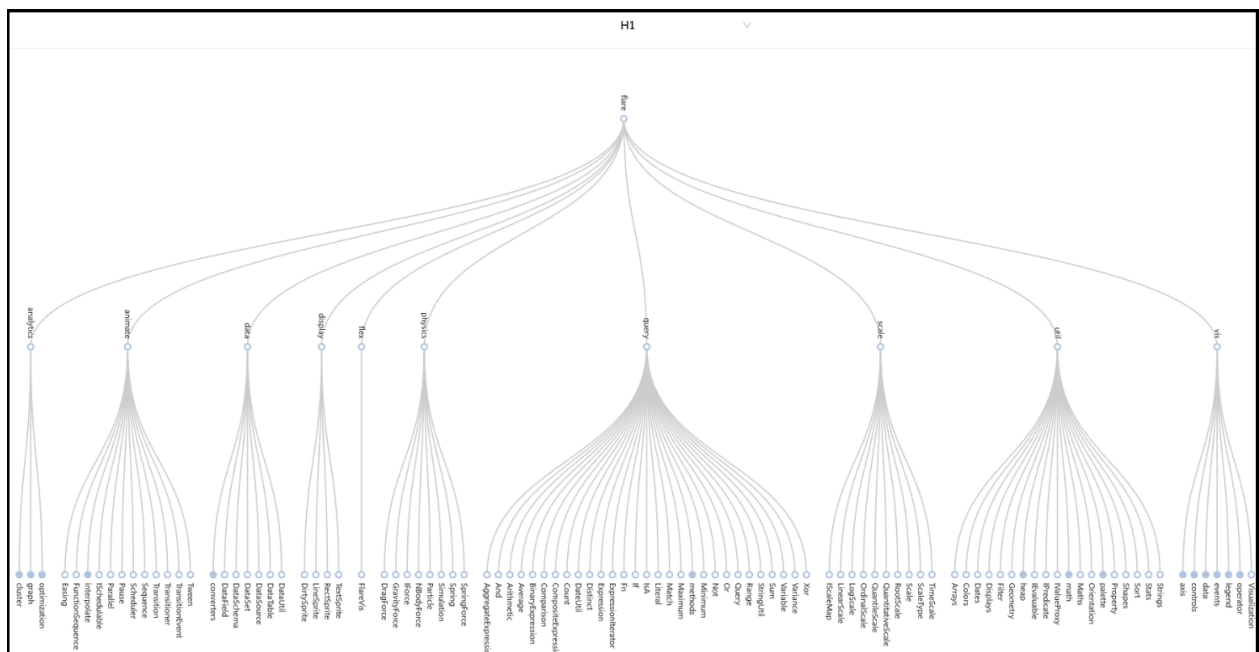


**Fig. 01: Hierarchy**

## Geomap

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

INDIA_MAP



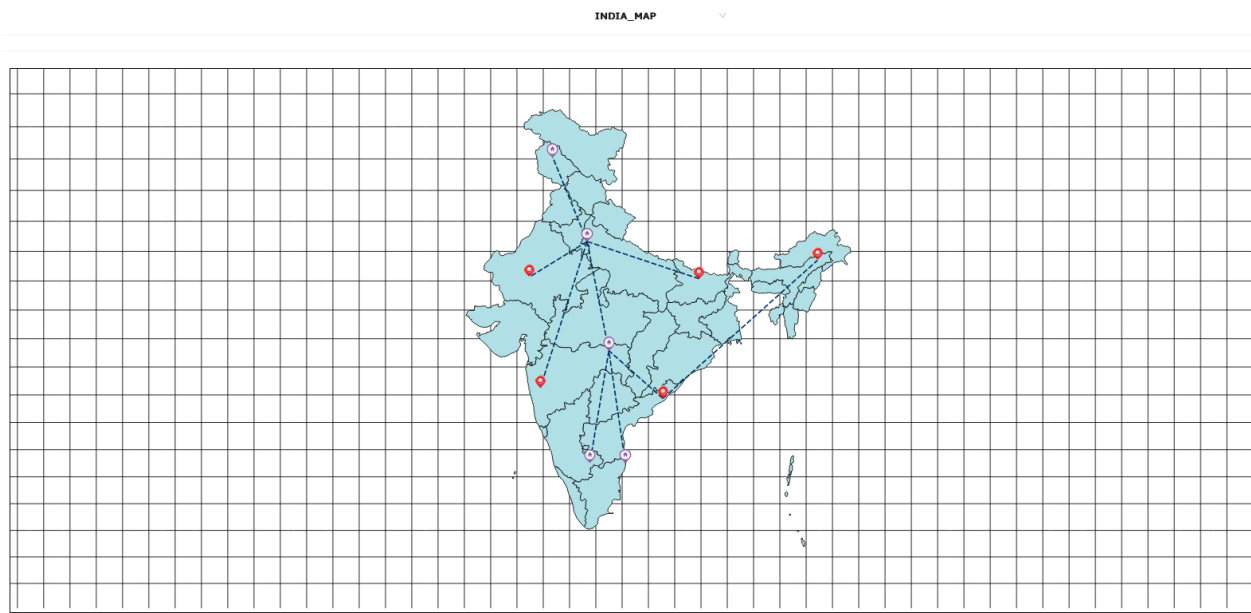**Fig. 01: Geomap**

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



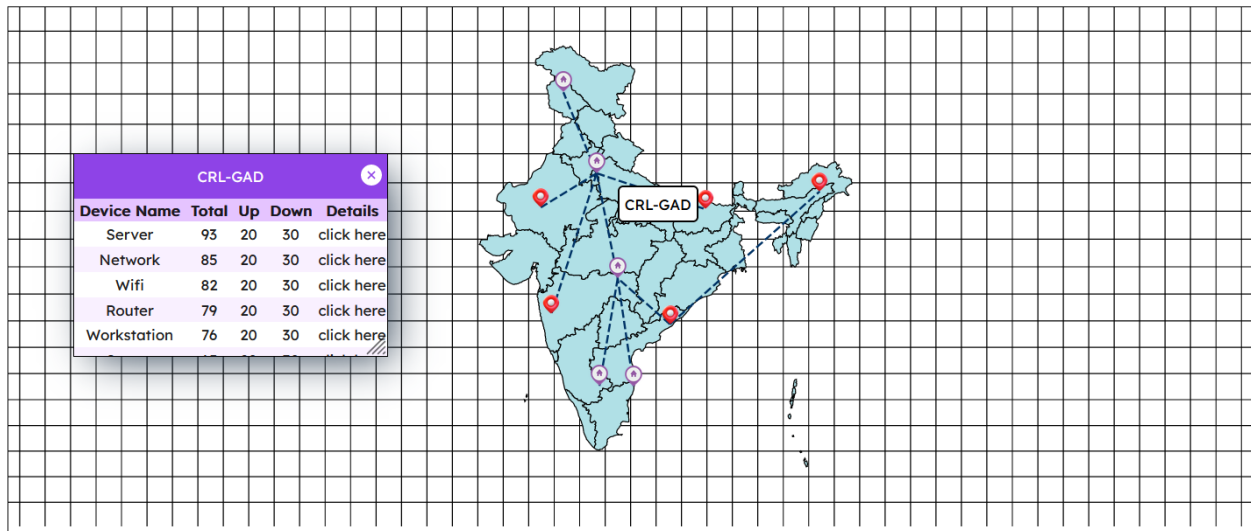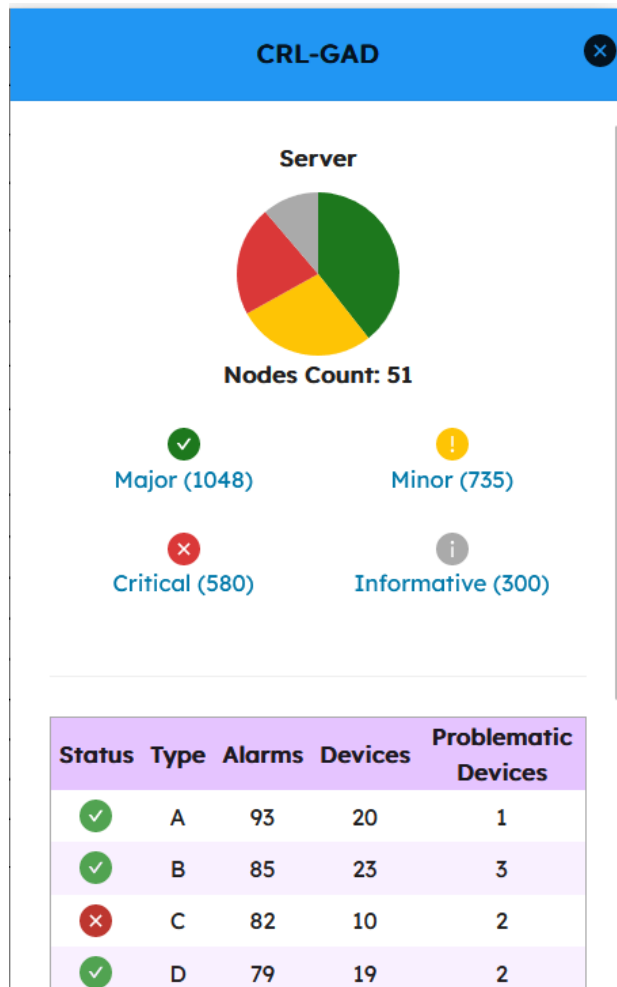| CRL-GAD | | | | |
|---|---|---|---|---|
| **Device Name** | **Total** | **Up** | **Down** | **Details** |
| Server | 93 | 20 | 30 | click here |
| Network | 85 | 20 | 30 | click here |
| Wifi | 82 | 20 | 30 | click here |
| Router | 79 | 20 | 30 | click here |
| Workstation | 76 | 20 | 30 | click here |

**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**
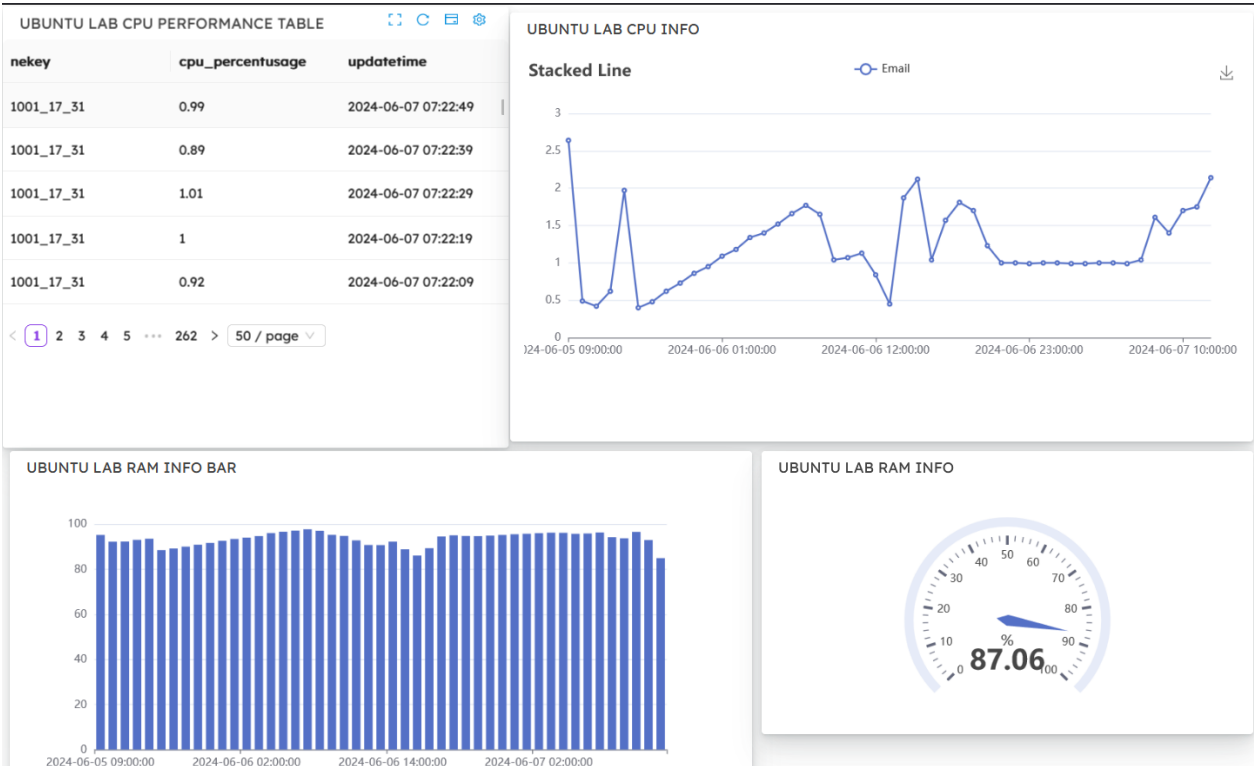
## Dashboard(Dynamic)

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

**Fig 01 : Widgets**

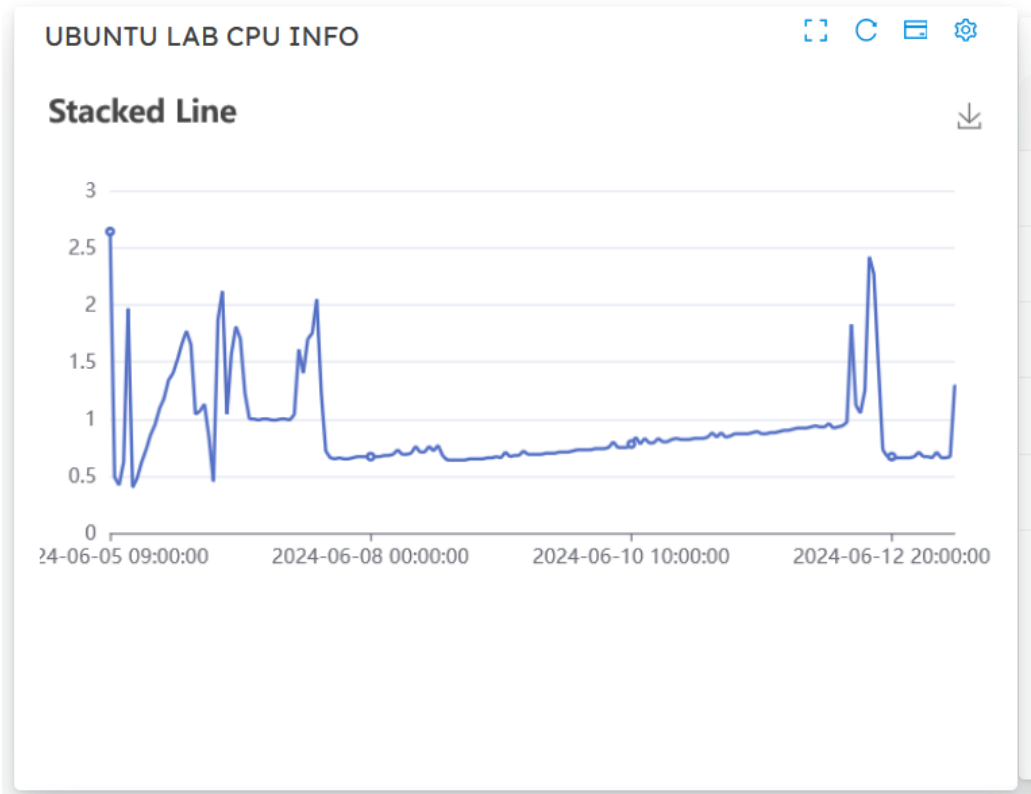**For example :**

**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.
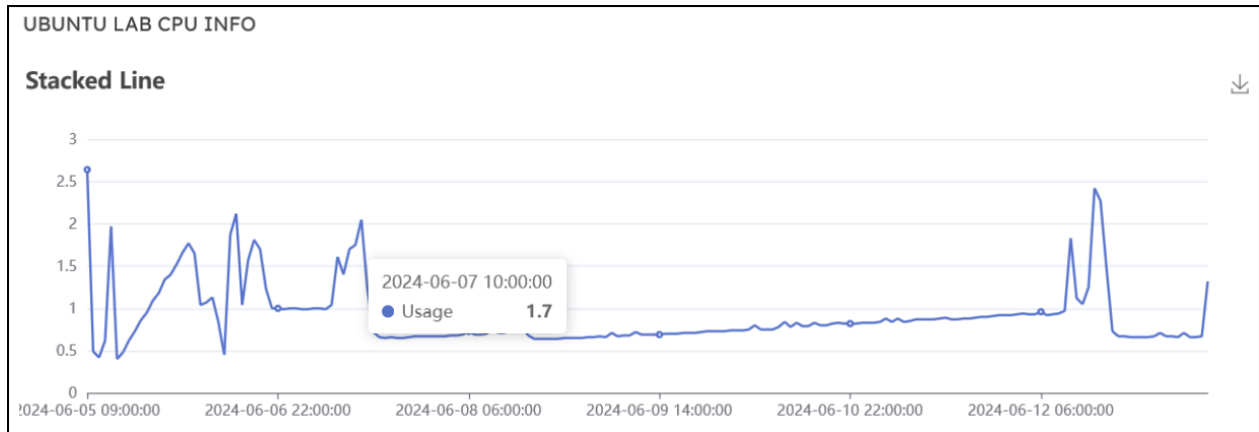

**Fig 04 : Full Screen**

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.
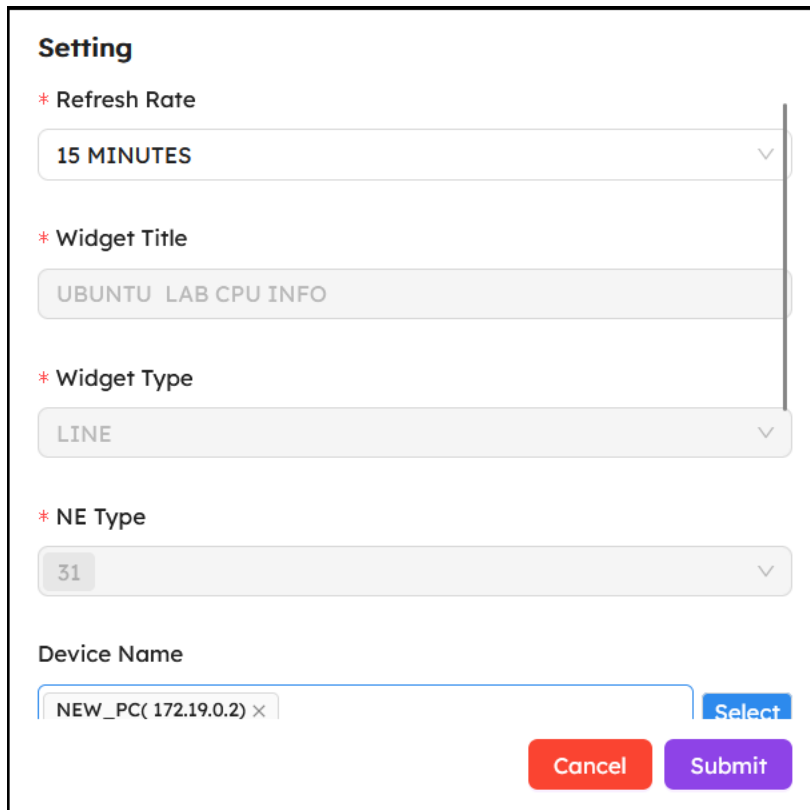


**Fig 05 : Tooltip(download)**

**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.
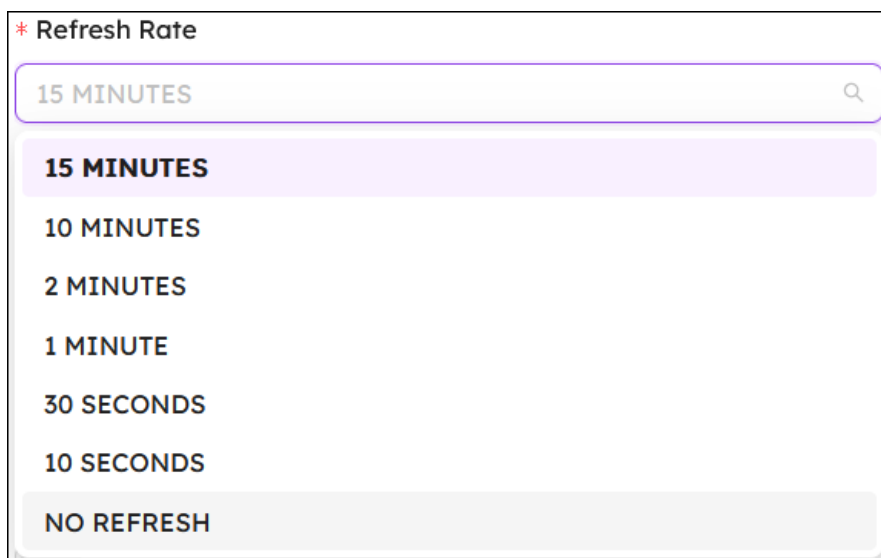
**Fig 06 : Setting**

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


**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 |
|---|---|---|---|---|
| ☐ | 1_15_31 | 150.65.21.106 | 31 | CDC_PC1 |
| ☐ | 1_11_31 | 150.65.21.215 | 31 | C2_Sec-VM |
| ☐ | 1001_18_31 | 1.1.1.13 | 31 | NEW_PC2 |
| ☐ | 1_8_31 | 150.65.21.212 | 31 | GIS_VM |
| ☐ | 1_1_31 | 150.65.21.43 | 31 | IPSS3 |
| ☐ | 1001_19_31 | 1.1.1.14 | 31 | NEW_PC3 |
| ☐ | 1_12_31 | 150.65.21.216 | 31 | GIS_SEC_VM |
| ☐ | 1_2_31 | 150.65.21.44 | 31 | IPSS4 |
| ☐ | 1_10_31 | 150.65.21.214 | 31 | NMS_VM |
| ☐ | 1_3_31 | 150.65.21.41 | 31 | IPSS1 |

< [1] 2  3  4  5  6  > 10 / page ∨

Submit

**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.
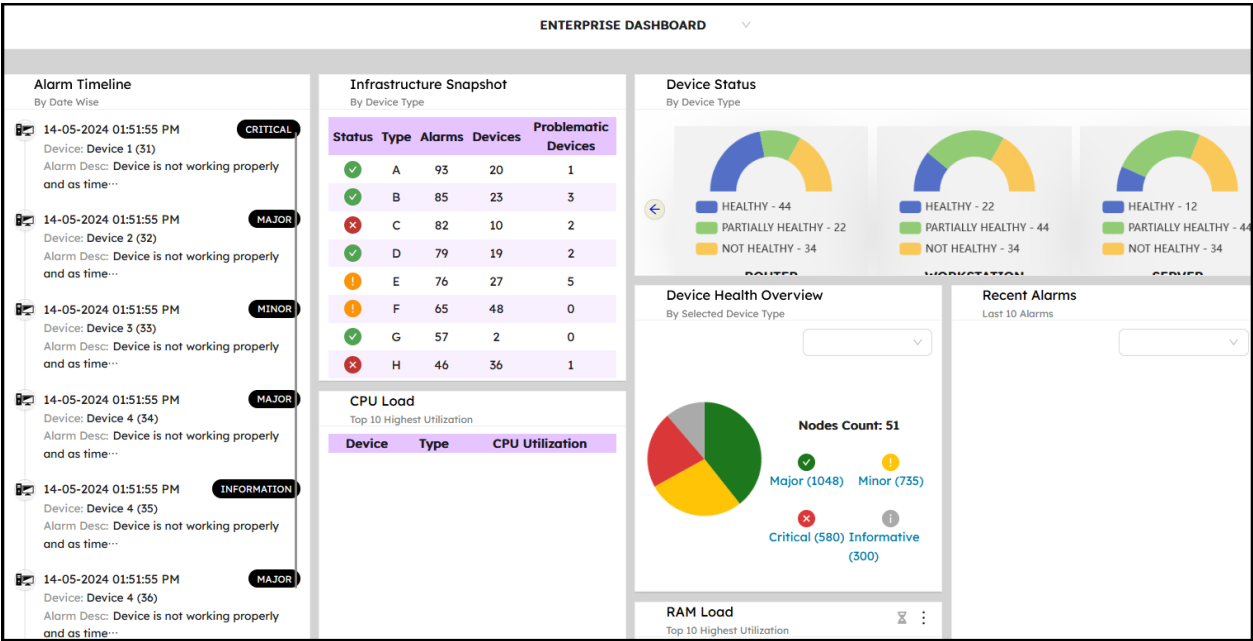
**Fig 01 : Enterprise Dashboard**

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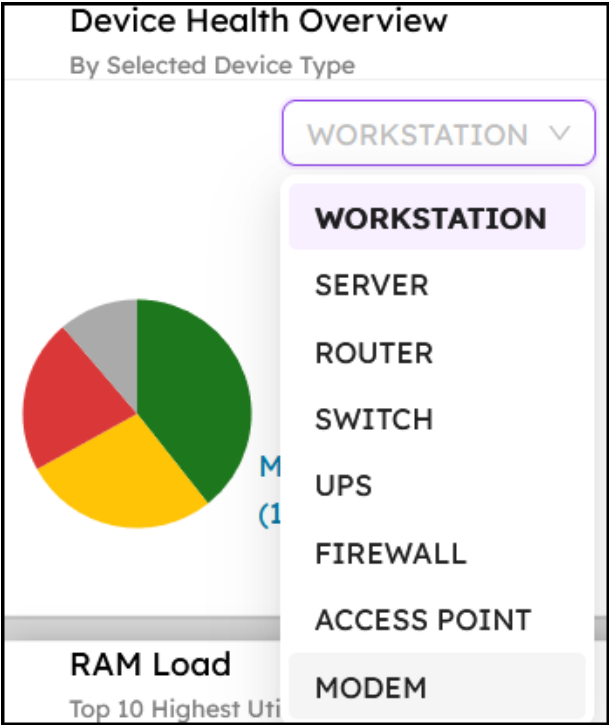


**Fig. 02 : Device Health Overview**

# 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.
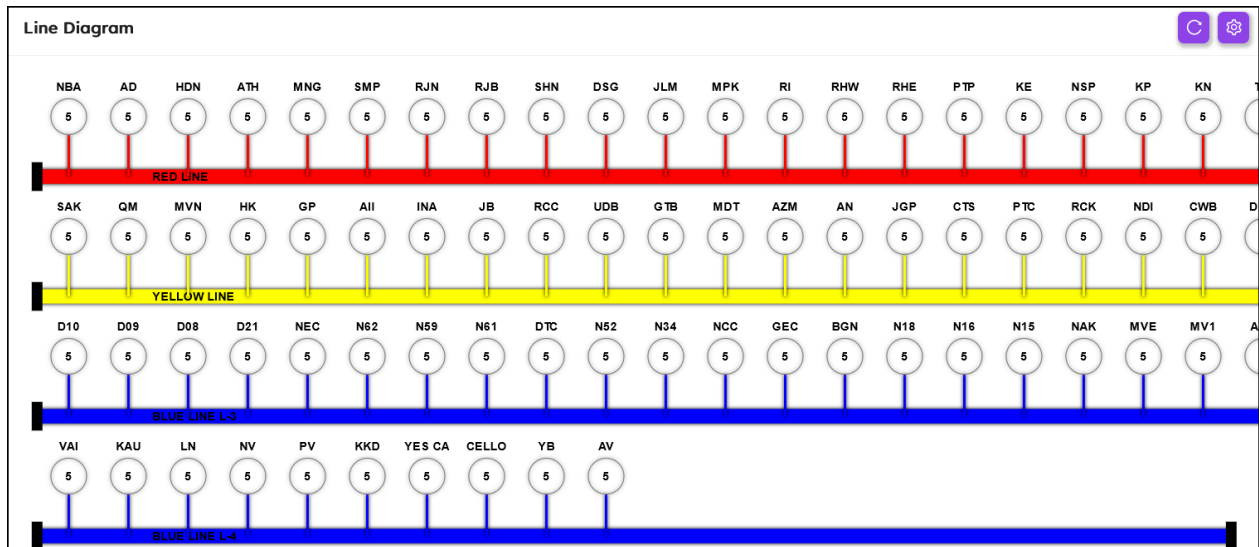
**Fig 01 : Line Diagram**

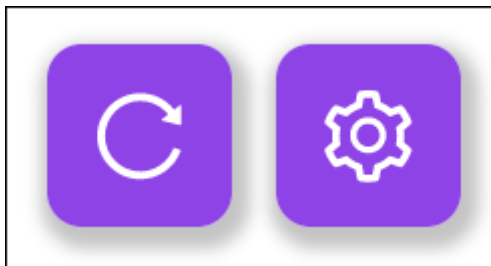Icons(tooltips) in the image below are used to reset view and display line settings.



**Fig 02 : Tooltip**

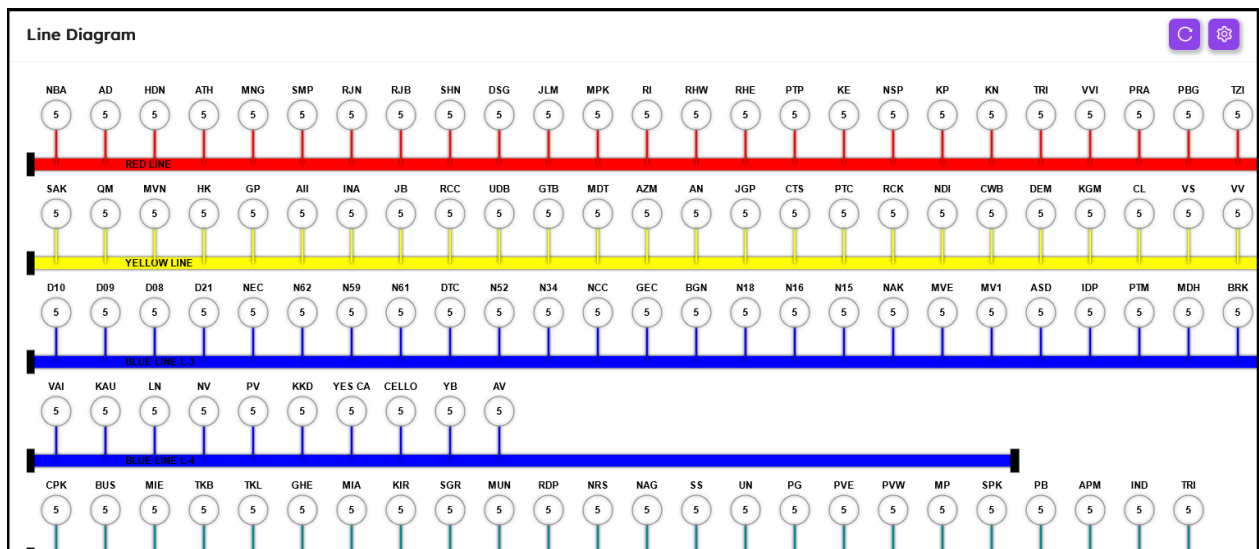1.) **Reset View :** It will reset the view of the line diagram as shown in image below.



**Fig 03 : Reset Line Diagram**

2.) **Line Setting** : It will display the all the lines visible and user can remove any of the lines.
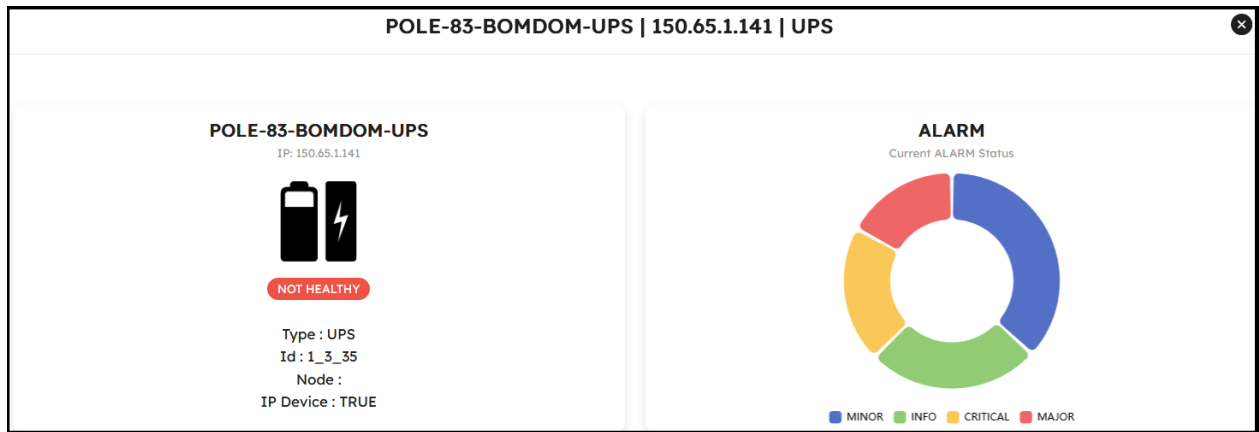
**Fig 04 : Line Setting**

## Device Dashboard

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



**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.



**Fig. 3 : Filter**

2.) **Card View :** It is used to display the device list into different forms as per the user.
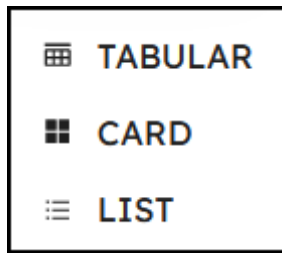
**Fig. 4 : Card View**

**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.



**Fig. 6 : List**

## 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.



**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.
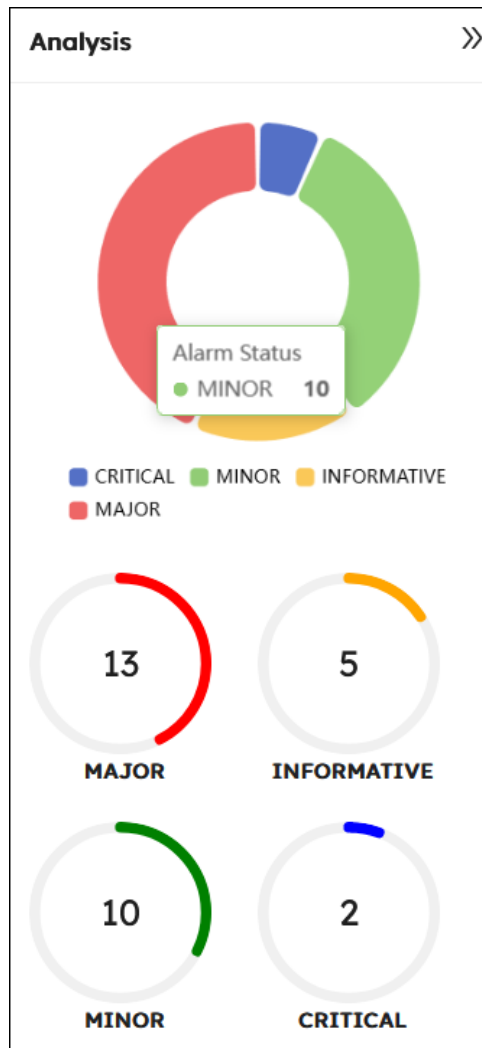


**Fig. 3 : Analysis**

## SysLog

## Configuration

This module has following Sub-Menus :

01. Dashboard(Dynamic)

## 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.
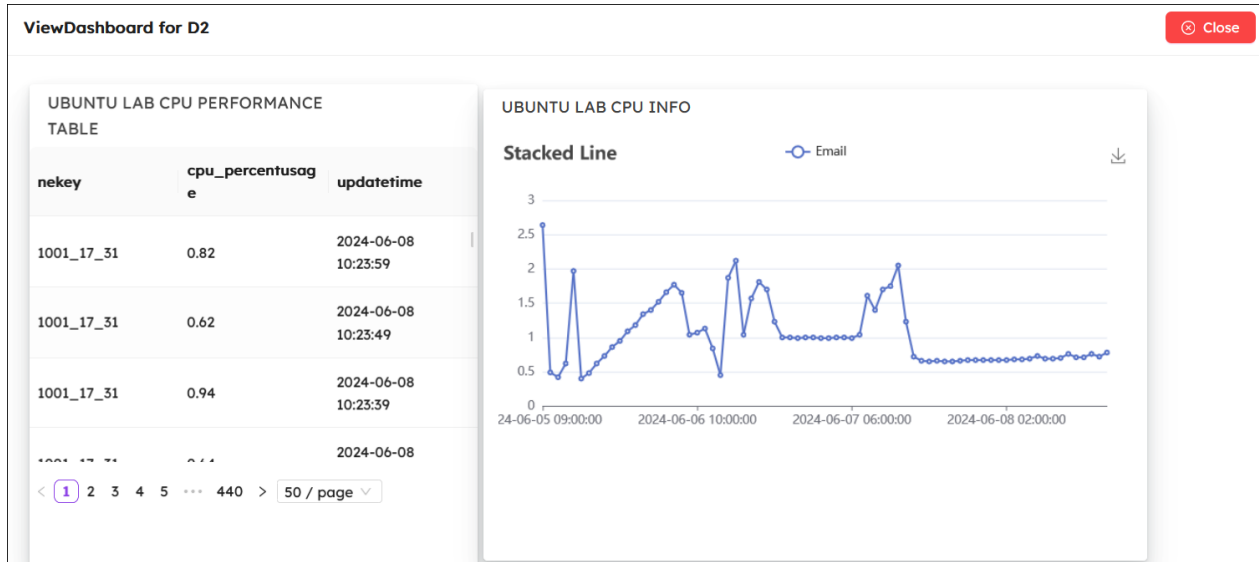


**Fig. 4 : View Dashboard**

**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.
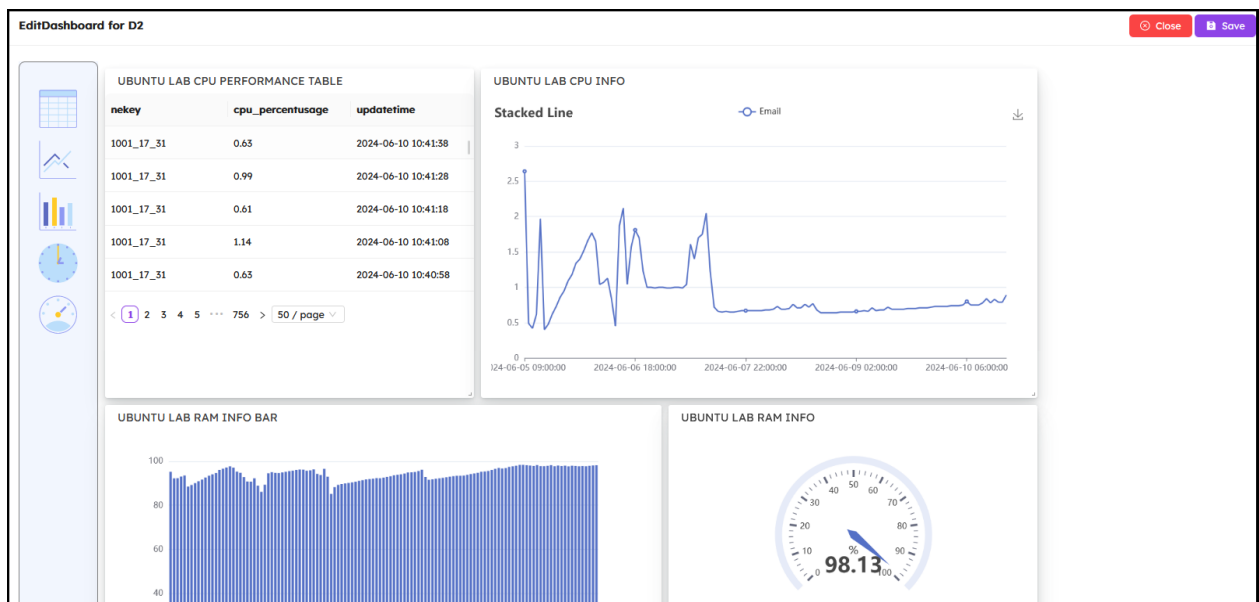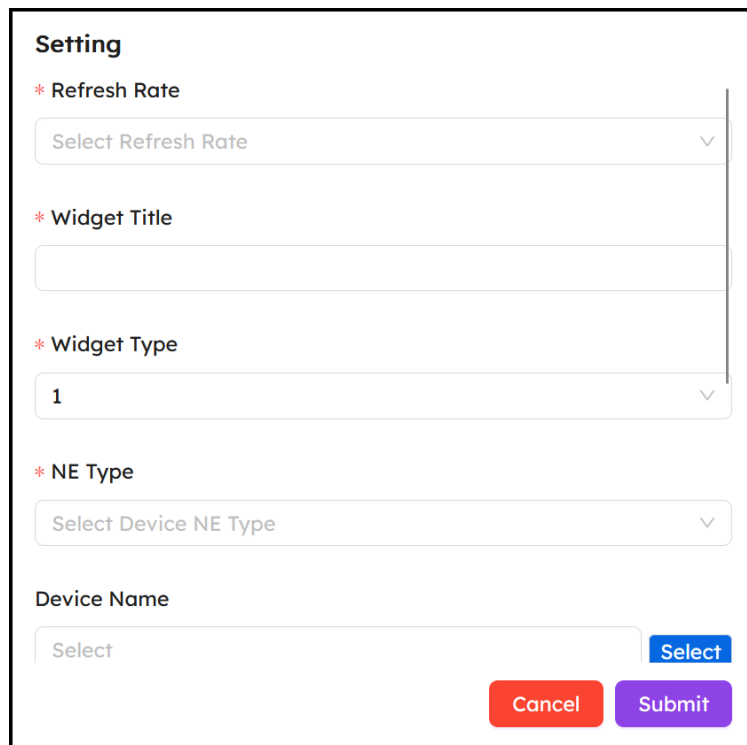


**Fig. 05 : EditDashboard**

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.

**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.

## 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.



**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.



**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.
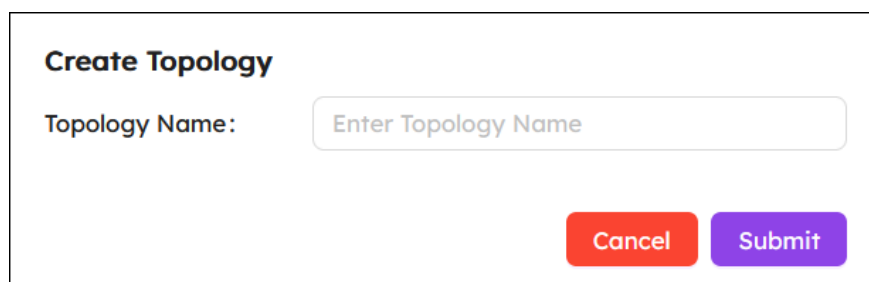**2.) Edit :** It is used to edit a topology.
**3.) Delete :** It is used to delete a topology.
**4.) Set Default :** It is used to set a topology as a default topology.

## 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.
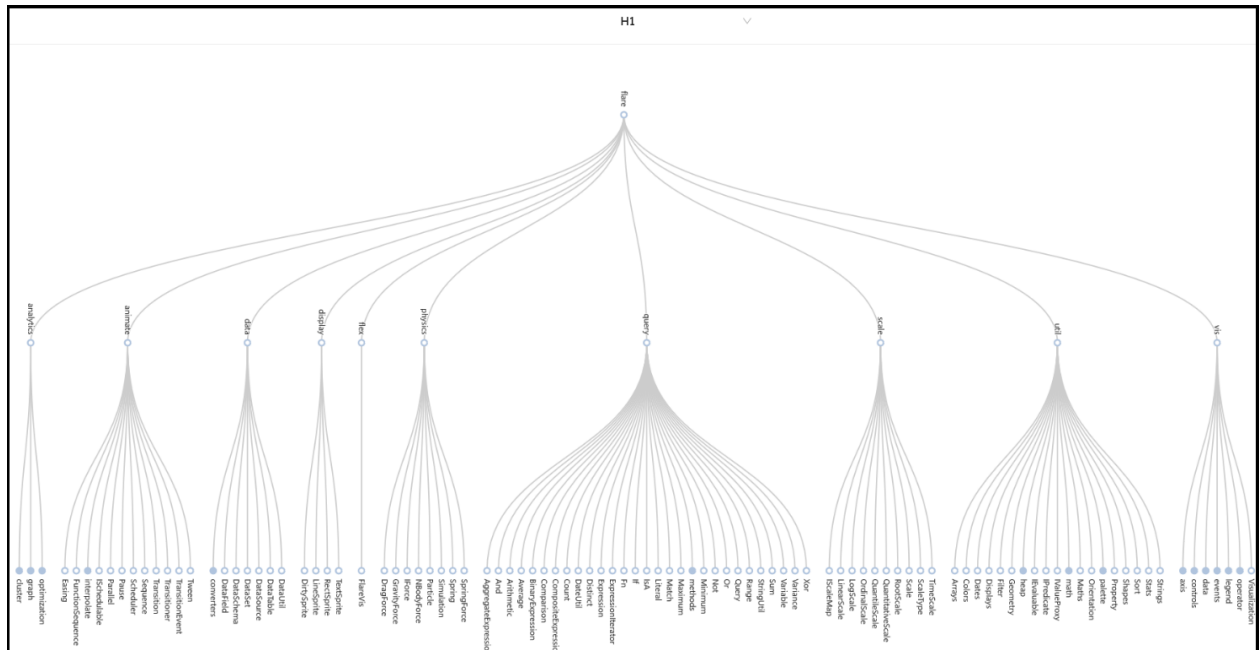


**Fig 02 : Create Hierarchy**

**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.



**Add Hierarchy**

Hierarchy Type:

LEFT_TO_RIGHT

BOTTOM_TO_TOP

RIGHT_TO_LEFT

LEFT_TO_RIGHT_STRAIGHT

RADIAL

TOP_TO_BOTTOM
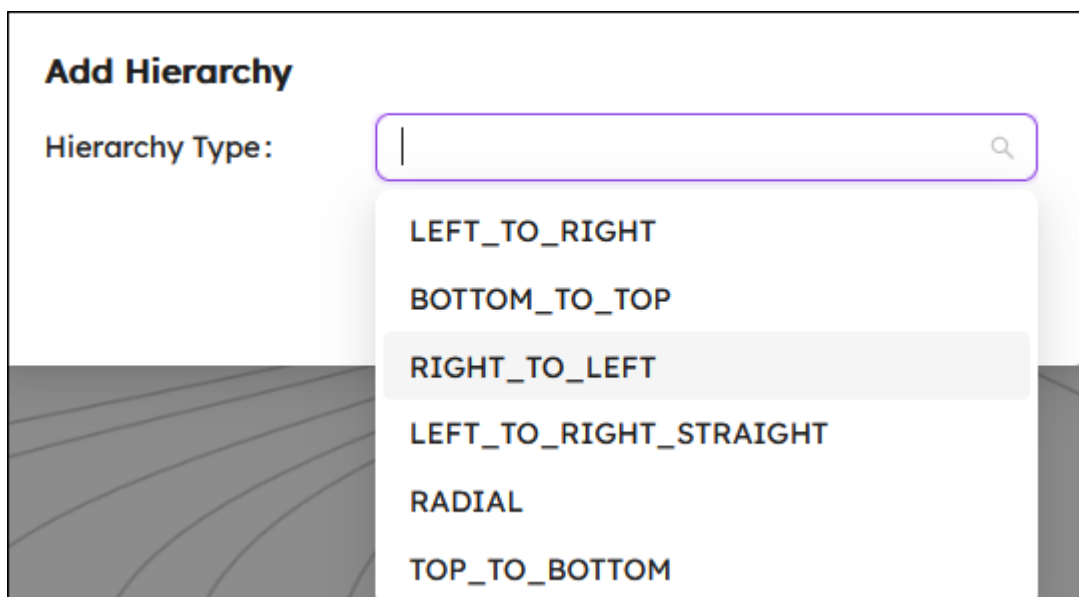
**Fig. 06 : Add Hierarchy**

**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.

## 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 : Tootip**

**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.
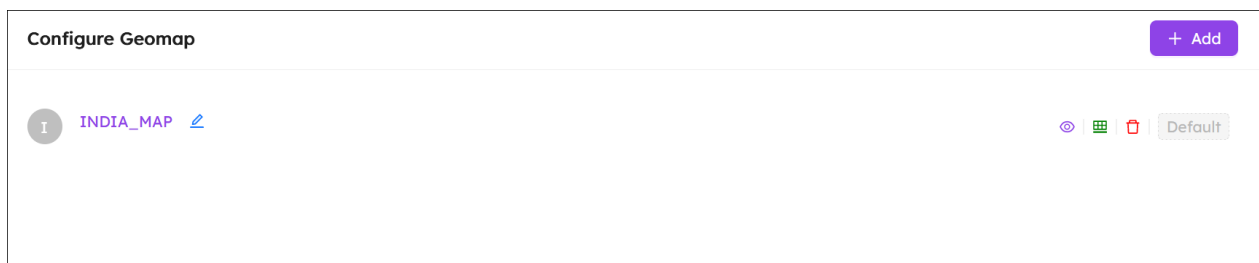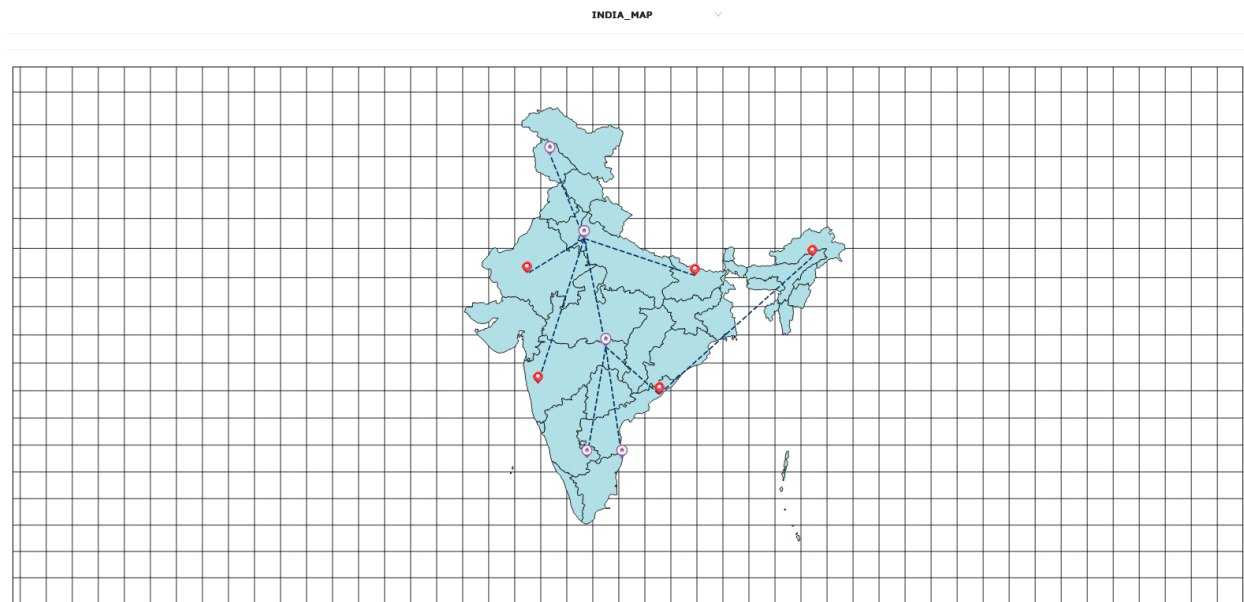


**Fig. 04 : View Geomap**

**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.



**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.

## 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.
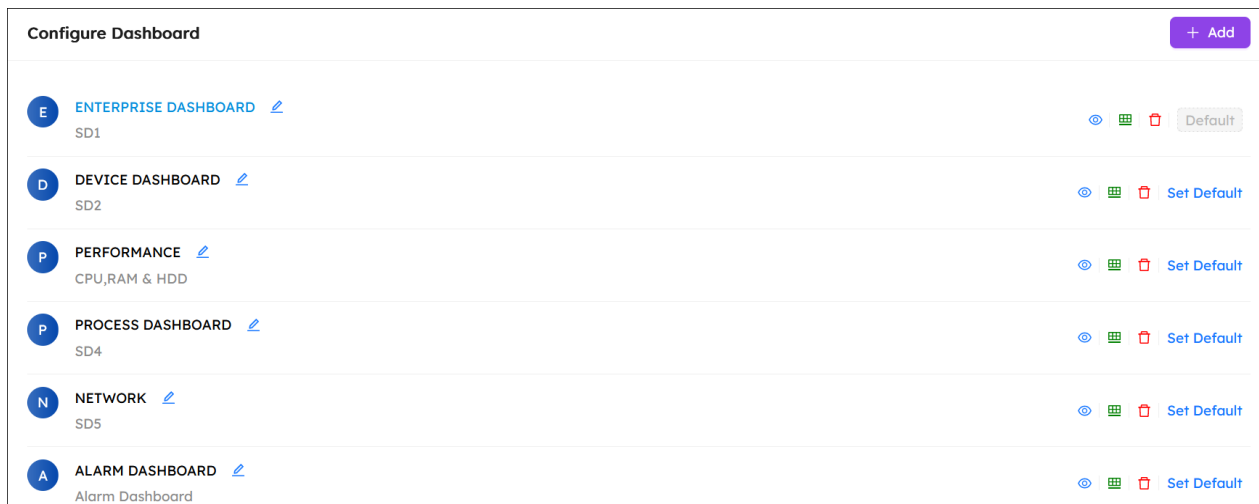


**Fig. 01 : Configure Dashboard**

**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.



**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.
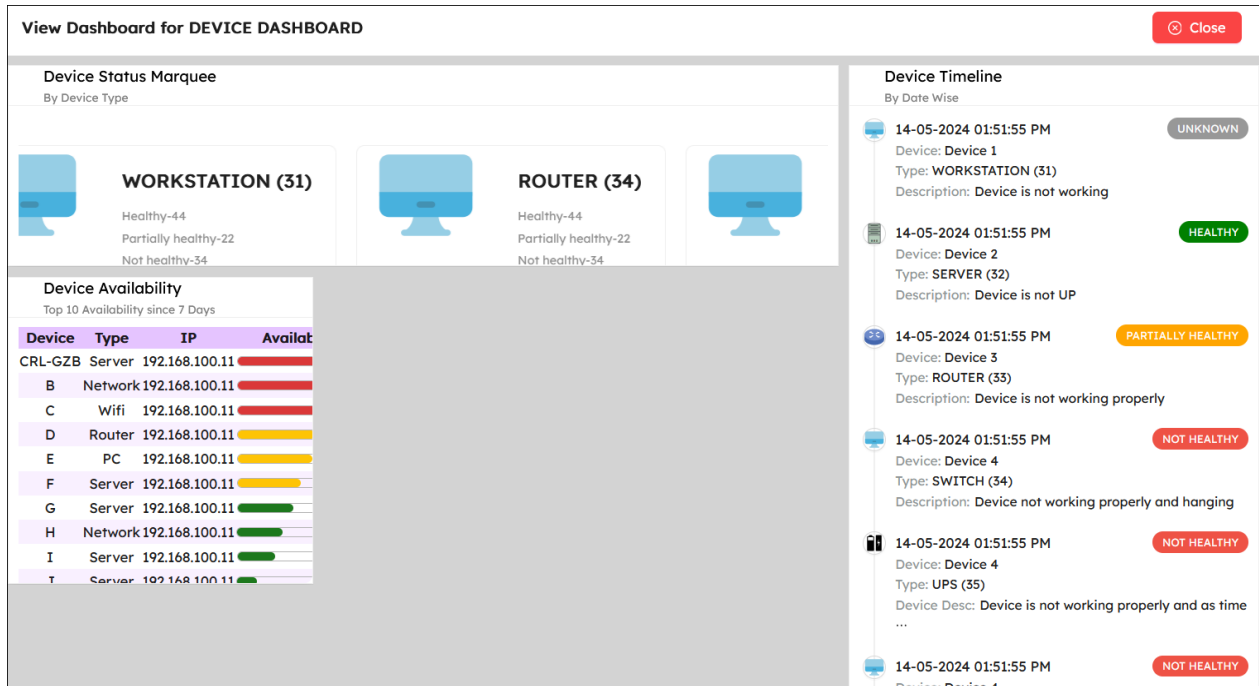


**Fig. 04 : View Dashboard for DEVICE DASHBOARD**

**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.

**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.
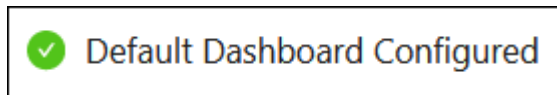


**Fig 08 : Alert Message**

## 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.

| 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.


**Fig. 05 : Edit Device**

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

## 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.



**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.



**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.
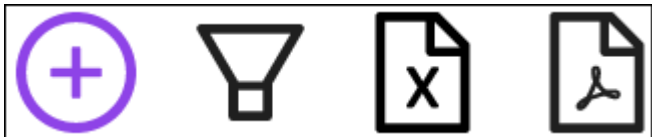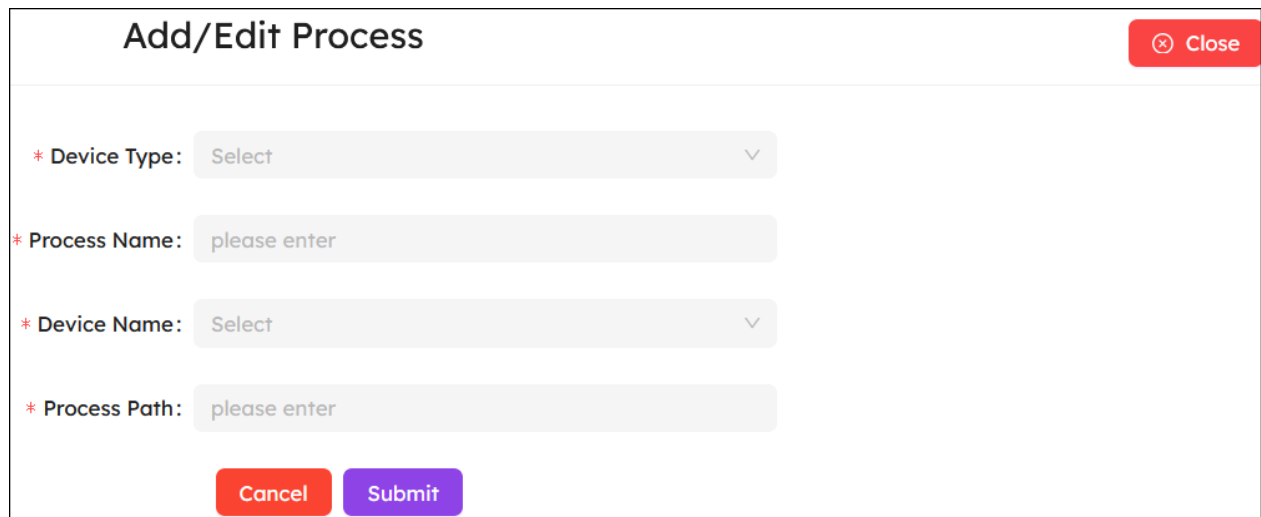


**Fig. 02 : Tooltip**

**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.
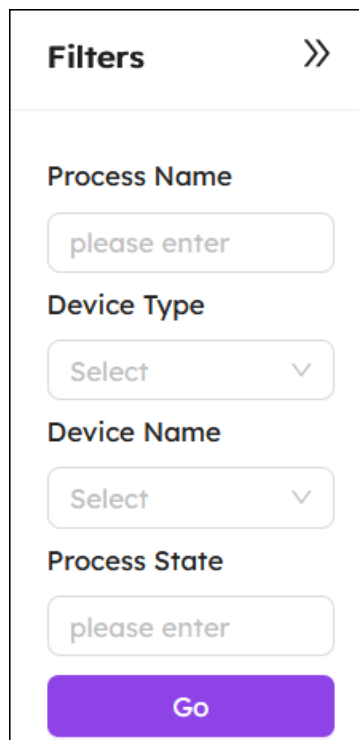
**Fig. 03 : Add/Edit Process**

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


**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).

## 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.



**Fig. 03 : Add/Edit Process**

**2.) Filter :** It is used to display the list of snmp profiles 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).

## 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 tempate.

| Template Name | Linked To | Action |
|---|---|---|
| b | — | |
| ededede | — | |
| Data | — | |
| TESTEMPLATE | — | |
| 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/ mannual. On upload, user can upload a template. By mannual, 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).

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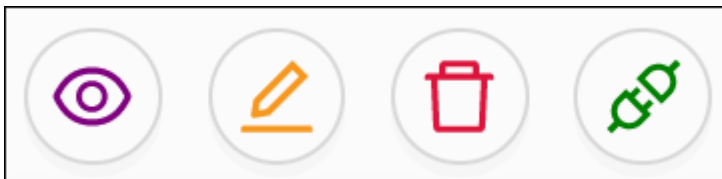


**Fig. 05 : Tooltip**

**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.

| OID | Description | Syntax | Interpretation | Unit |
|---|---|---|---|---|
| .1. | operationalStatus | INTEGRE | 1(up), 2(down) | s |

⊗ Close

‹ 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:    * Description:    * Syntax: ∨

* Data Type: ∨    * Interpretation:    * Unit: ?

Add

| 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.
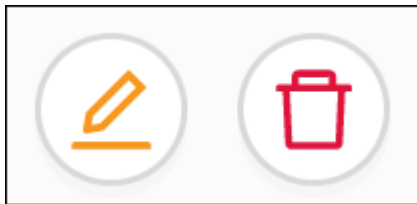


**Fig. 08 : Tooltip**

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

* OID: .1.    * Description: operationalStatus    * Syntax: INTEGRE ∨

* Data Type: ∨    * Interpretation: 1(up), 2(down)    * Unit: s ?

Add

**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**

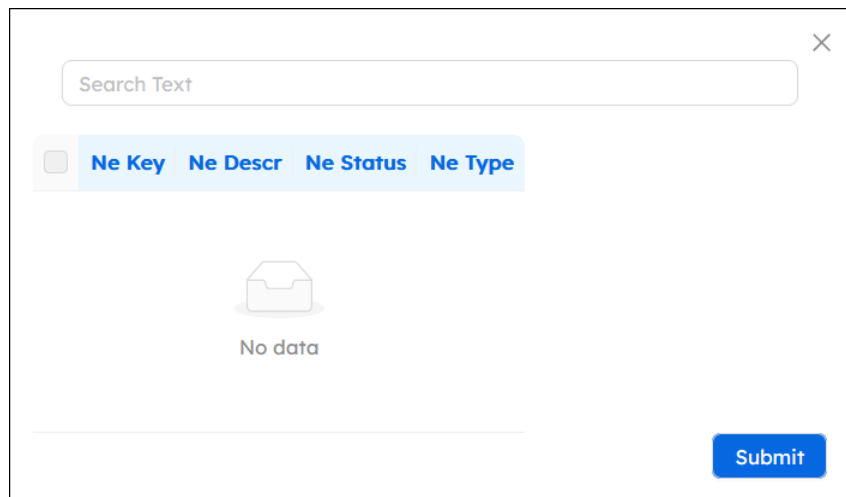To link a device with template user has to select from the list and then submit.


**Fig. 11 : Template List**

# General

## General Settings

## 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).
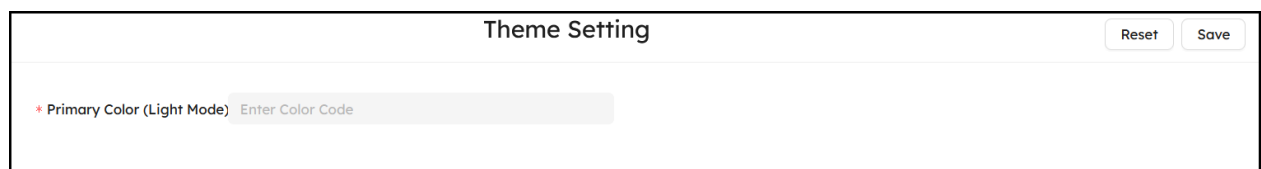

**Fig. 01 : Theme Setting**

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

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

## Patch Monitoring

# User Management

This module has following Sub-Menus :

01. Users
02. Profile
03. System Role
04. Change Password

## 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:
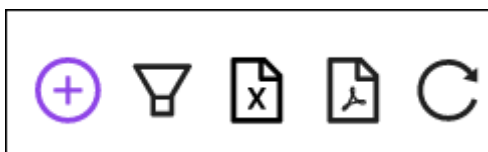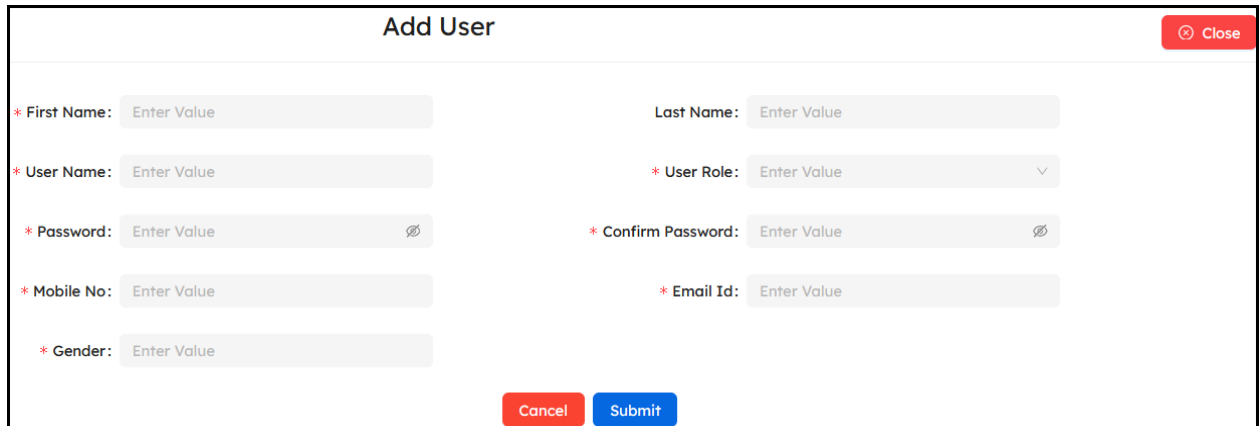


**Fig. 02 : Tooltip**

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.
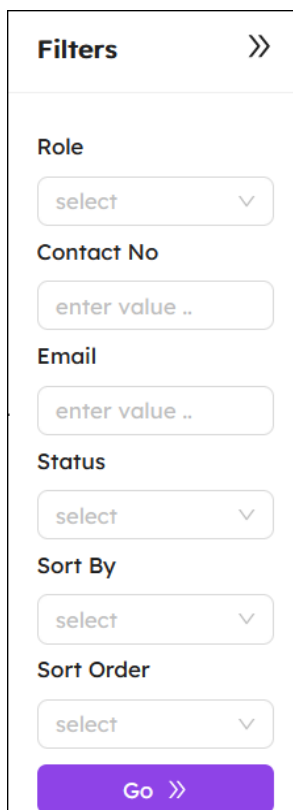5.) **Reload :** To reload the list of the users.

**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.



**Fig. 03 : Add User**

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



**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.

## 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.

## 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 :**



**Fig. 02 : Main**

**2.) Configuration :**

| Sub Menu | Read | Write |
|---|---|---|
| 🔵 Dashboard(Custom) | ⊙ | ⊙ |
| ⠙ Topology | ⊙ | ⊙ |
| ⬦ Hierarchical | ⊙ | ⊙ |
| 🌐 Geomap | ⊙ | ⊙ |
| 📊 Dashboard(Static) | ⊙ | ⊙ |
| 🖥 Device | ⊙ | ⊙ |
| 🗔 Device Type | ⊙ | ⊙ |
| ⚙ Threshold | ⊙ | ⊙ |
| 🔄 Process | ⊙ | ⊙ |
| ≣ SNMP | ⊙ | ⊙ |
| ▦ MIB | ⊙ | ⊙ |
| 🔶 General | ⊙ | ⊙ |
| 📋 configuration.ui_builder | ⊙ | ⊙ |
| 🖥 Patch Monitoring | ⊙ | ⊙ |

**Fig. 03 : Configuration**

## 3.) User Management :

| Sub Menu | Read | Write |
|---|---|---|
| 👥 Users | ⊙ | ⊙ |
| 👤 Profile | ⊙ | 🟣 |
| 📝 System Role | ⊙ | ⊙ |
| 🔒 Change Password | ⊙ | 🟣 |

**Fig. 04 : User Management**

## 4.) Report :

| Sub Menu | Read | Write |
|---|---|---|
| 📄 Alarm | ⊙ | ⊙ |
| ▤ Process | ⊙ | ⊙ |
| 👤 Login | ⊙ | ⊙ |
| 🗔 Device | ⊙ | ⊙ |
| 📕 Event | ⊙ | ⊙ |

**Fig. 05 : Report**

## 5.) Help :

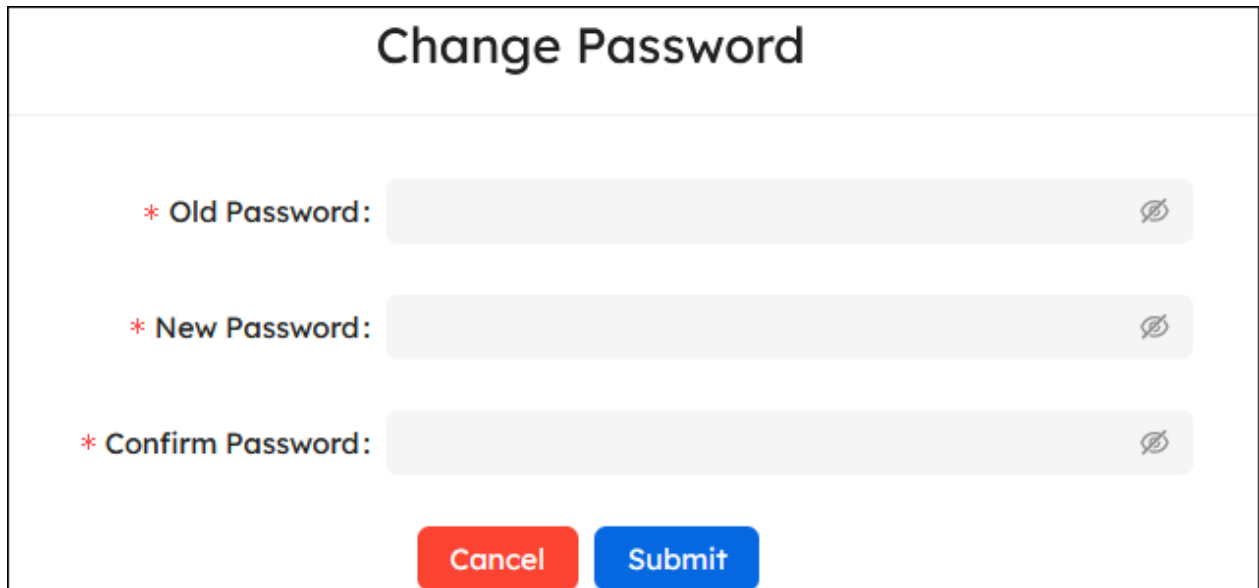| Sub Menu | Read | Write |
|---|---|---|
| 📋 About Us | ⊙ | ⊙ |
| 🔍 Manual | ⊙ | ⊙ |

**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.



**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.
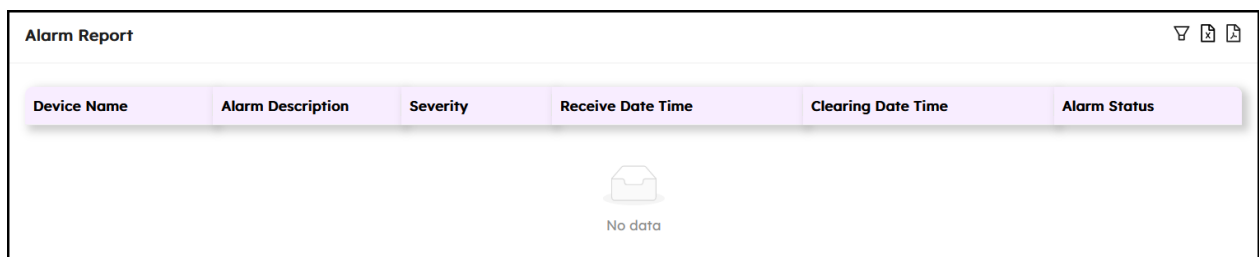
# Report

This module has following Sub-Menus :

01. Alarm
02. Application
03. Login
04. Device
05. Event

## 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**.
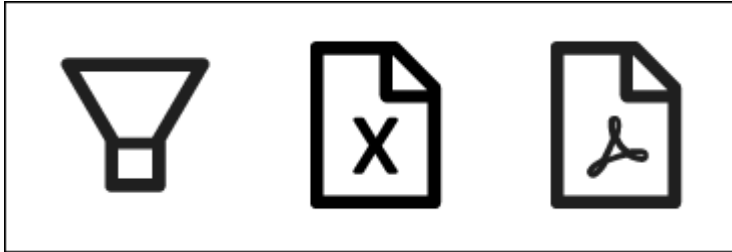


**Fig. 01 : Alarm Report**

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.


**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**.



**Fig. 01 : Process Report**

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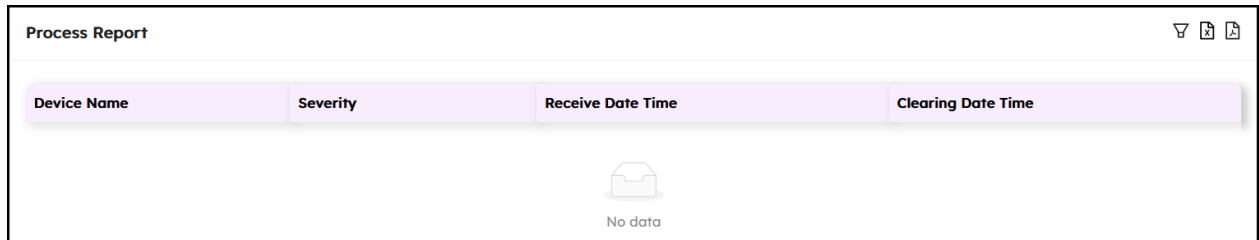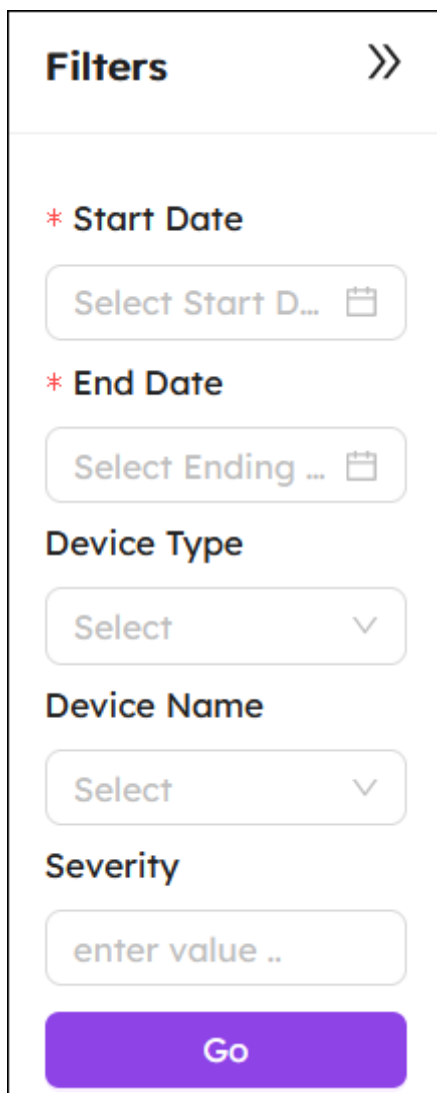


**Fig. 02 : Filters**

**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.



**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 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).

# Event

# Help

This module has following Sub-Menus :

01. About Us
02. Manual

## About Us

## Manual

## About Us