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BLP
Group Company

Temperature & Pressure Monitoring System

User Manual

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1. Introduction

1.1 Purpose

The purpose of this user manual is to guide users on how to effectively use the Temperature & Pressure Monitoring system Web Application for configuring the sensor and getting the data through configurator on an Android application. This application is designed to minimize manual writing and human errors, ensuring the smooth tyre health and driver safety.

1.2 Scope

The scope of this document covers:

- Explaining the features of the TPMS Application.
- Describing the activities of users.

2. Login



TYRE PRESSURE MONITORING SYSTEM

blp@blp.com

.....

Remember me [Forgot Password ?](#)

Sign In

Steps to Login

- 1. Enter URL:**
 - Open a web browser and enter the URL.
- 2. Enter Credentials:**
 - Enter your username in the 'User Name' field.
 - Enter your password in the 'Password' field.
- 3. Remember Me:**

- Check the "Remember me" checkbox if you want the browser to remember your credentials for future logins. This will allow the website homepage to load directly next time.
 - If you do not check the "Remember me" checkbox, the browser will not remember your credentials, and you will be prompted to log in again next time.
4. **Forget Password:**
- If you forget your password, click on the "Forget password" link. This functionality allows you to reset your password by following the instructions provided.
 - Click on forget password, and it will redirect to one more screen.
 - Enter the email in the email field.
 - Click submit.
 - The reset password link will come to the mail. Using that, reset the password.
5. **Sign In:**
- Click on the "Sign In" button. Upon successful login, you will be redirected to the portfolio page.

3. Dashboard

Purpose: The Dashboard provides an overview of Fleet List, Total Number of Vehicle, Total Tires, Total configured sensors, Total Normal Vehicle and Total Warning Vehicles. It allows users to monitor daily scans, it helps in visualizing scan trends and pending counts through various graphs and overview cards.

1. Sign In and Redirection

- After signing in, the user will be redirected to the dashboard page.

The screenshot displays the dashboard interface with the following components:

- Navigation Bar:** Includes links for Dashboard, Map, Monitor, Compare, Reports, Alerts, and a date/time display (15-Jul-2024 10:44:23 am).
- Search Bar:** Located at the top left.
- Fleet Card:** Shows details for fleet 'EJ-00-775', including 6 total sensors, driver name 'Arun', and contact number '8659953637'. Status is 'NORMAL'.
- Overview Cards:**
 - Total Vehicles: 1
 - Total Tyres: 6
 - Total Configured Sensors: 6
 - Total Normal Vehicles: 1
 - Total Warning Vehicles: 0
- Vehicle Details:**
 - Vehicle Type: 4 X 2 CONFIGURATION OF DUAL AXLE TRUCK – 6 WHEELER
 - Location: Haveli
 - Last Updated: 15/07/2024 08:40:40
 - Current Speed: 0 Kmph
- Tyre Health Monitor:**
 - FL (Front Left):** Sensor ID CD013639, Pressure 112 psi, Temperature 38 Deg C.
 - FR (Front Right):** Sensor ID CD023A2D, Pressure 108 psi, Temperature 38 Deg C.
 - RLO (Rear Left):** Sensor ID CD02392B, Pressure 115 psi, Temperature 30 Deg C.
 - RRI (Rear Right):** Sensor ID CD020F1E, Pressure 108 psi, Temperature 31 Deg C.

2. Tyre Health Monitor

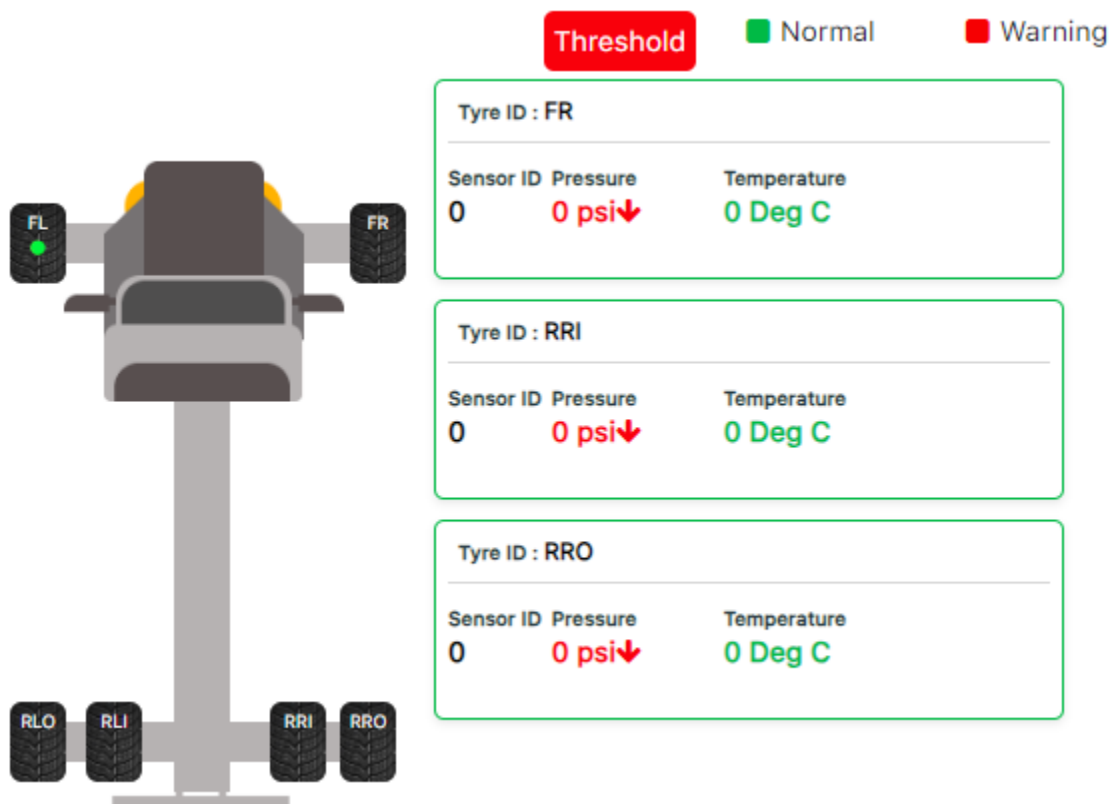
- The dashboard consists of 2 main section Fleet List and Tyre health Monitor.

3. Total Vehicle

- Displays the total count of Vehicles.
- Includes a search field to filter the fleet list.
- Lists all Fleet with specific details of tyres.

4. Tyre Details

- Each Tyre shows some specific details:
 - Type ID
 - Sensors ID
 - Pressure
 - Temperature



5. Threshold Button

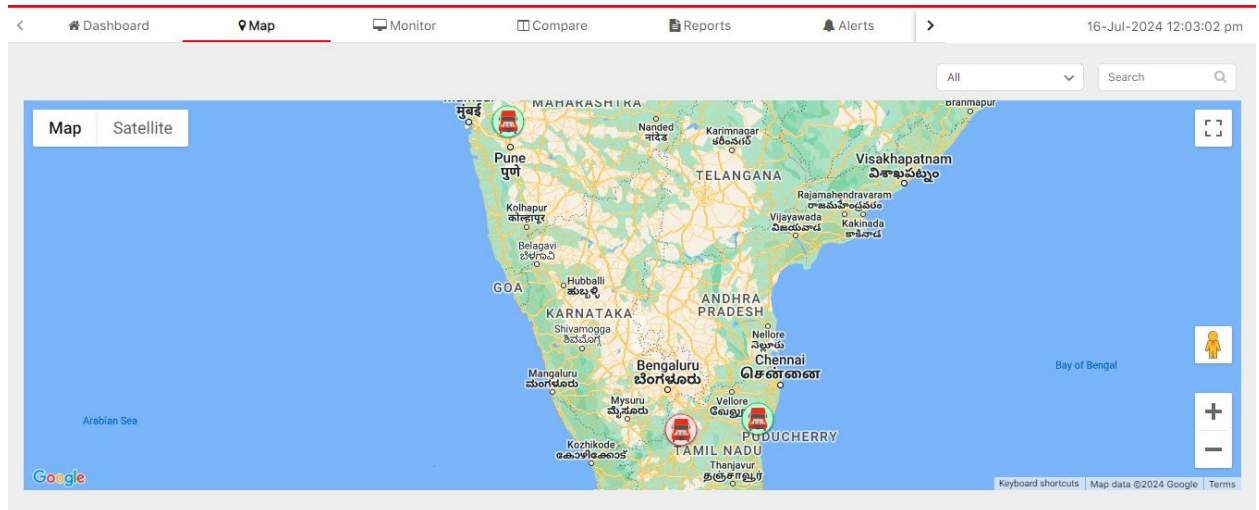
- We Can she the set threshold with details like Axle, Low Pressure, high pressure and High temperature

Based.

9. Download functionality of summery Report

- Based on the dropdown selections, we can download the report.

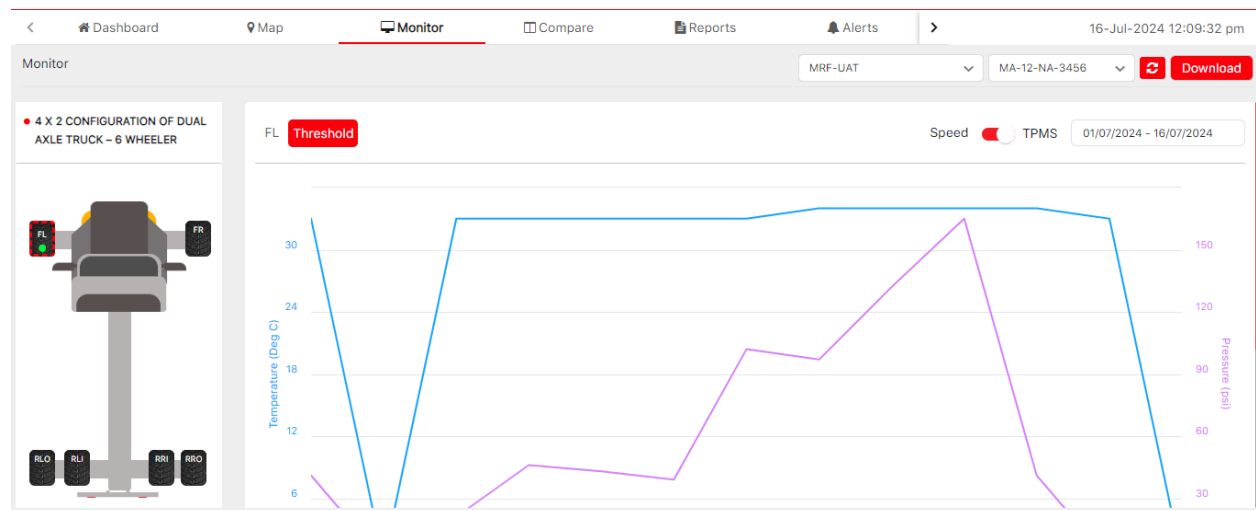
Map Page:



In this page we can access the map and location of Vehicle.

- We have a dropdown for Fleet.
- We can use search functionality as well.
- User can use Map view and satellite.

Monitor:

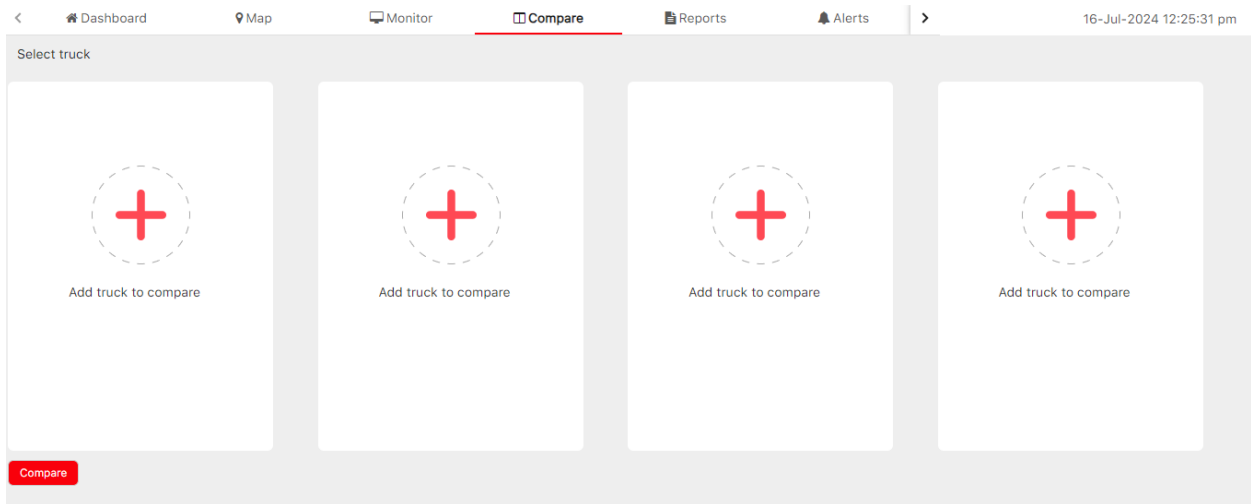


In this page we can configuration of the vehicle and sensor icon.

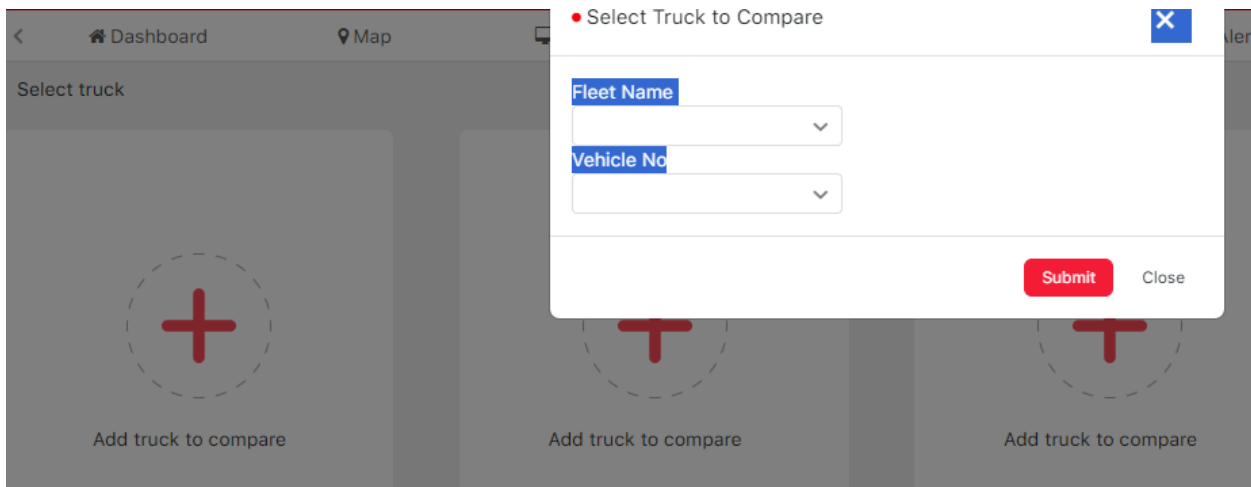
- We have radio button for enabling speed and TPMS.

- User can use timestamp for selecting the date range.
- User can see the threshold on clicking on threshold button.
- This graph Temperature and pressure.
- Selecting

13. Compare Screen:






Add Vehicle:



Compare

Selected Duration: 2024-07-16 00:00:00 - 2024-07-16 23:59:59

Pressure Temperature Speed Battery Voltage



No Data Found

We can add up to 4 vehicles for comparison. There is option to select fleet and vehicle number for comparison.

- We can see the temperature, pressure, Speed and battery.
- We have custom time selection option.
- We have download functionality.

4. Reports

[Dashboard](#)
[Map](#)
[Monitor](#)
[Compare](#)
[Reports](#)
[Alerts](#)
16-Jul-2024 01:46:17 pm

[Tyre Sensor Mapping](#)
[Alert Report](#)
[Offline Data](#)
All
All

[Download](#)

Fleet Details	Vehicle Number	Vehicle Type	Tyre Position	Sensor ID	Tyre Serial No	Tyre Make	Tyre Model	Configured Date & Time
UAT	MA-12-NA-3456	4 X 2 CONFIGURATION OF DUAL AXLE TRUCK – 6 WHEELER	FL	CD012D43	124	TVS	34g34	04/07/2024 15:14:14
UAT	MA-12-NA-3456	4 X 2 CONFIGURATION OF DUAL AXLE TRUCK – 6 WHEELER	FR	NA	NA	NA	NA	NA
UAT	MA-12-NA-3456	4 X 2 CONFIGURATION OF DUAL AXLE TRUCK – 6 WHEELER	RLO	NA	NA	NA	NA	NA
UAT	MA-12-NA-3456	4 X 2 CONFIGURATION OF DUAL AXLE TRUCK – 6 WHEELER	RLI	NA	NA	NA	NA	NA
UAT	MA-12-NA-3456	4 X 2 CONFIGURATION OF DUAL AXLE TRUCK – 6 WHEELER	RRI	NA	NA	NA	NA	NA
UAT	MA-12-NA-3456	4 X 2 CONFIGURATION OF DUAL AXLE TRUCK – 6 WHEELER	RRO	NA	NA	NA	NA	NA
Motors	EJ-00-775	4 X 2 CONFIGURATION OF DUAL AXLE TRUCK – 6 WHEELER	FL	CD013639	70490272024	MRF	S1 F4 PLUS	18/06/2024 17:06:08
Motors	EJ-00-775	4 X 2 CONFIGURATION OF DUAL AXLE TRUCK – 6 WHEELER	FR	CD023A2D	70043842124	MRF	S1 F4 PLUS	18/06/2024 16:16:04

[1](#)
[2](#)

Purpose: The Report page contain Tyre Sensors mapping, Alert Report , Offline Data dropdown of Fleet, drop down of Vehicle numbers, search functionality and download functionality.

1. Navigation to tyre Sensor Mapping

- Click on the **Tyre Sensor Mapping** tab to be redirected to the **Tyre Sensor Mapping** page.

[Dashboard](#)
[Map](#)
[Monitor](#)
[Compare](#)
[Reports](#)
[Alerts](#)
16-Jul-2024 01:46:17 pm

[Tyre Sensor Mapping](#)
[Alert Report](#)
[Offline Data](#)
All
All

[Download](#)

Fleet Details	Vehicle Number	Vehicle Type	Tyre Position	Sensor ID	Tyre Serial No	Tyre Make	Tyre Model	Configured Date & Time
UAT	MA-12-NA-3456	4 X 2 CONFIGURATION OF DUAL AXLE TRUCK – 6 WHEELER	FL	CD012D43	124	TVS	34g34	04/07/2024 15:14:14
UAT	MA-12-NA-3456	4 X 2 CONFIGURATION OF DUAL AXLE TRUCK – 6 WHEELER	FR	NA	NA	NA	NA	NA
UAT	MA-12-NA-3456	4 X 2 CONFIGURATION OF DUAL AXLE TRUCK – 6 WHEELER	RLO	NA	NA	NA	NA	NA
UAT	MA-12-NA-3456	4 X 2 CONFIGURATION OF DUAL AXLE TRUCK – 6 WHEELER	RLI	NA	NA	NA	NA	NA
UAT	MA-12-NA-3456	4 X 2 CONFIGURATION OF DUAL AXLE TRUCK – 6 WHEELER	RRI	NA	NA	NA	NA	NA
UAT	MA-12-NA-3456	4 X 2 CONFIGURATION OF DUAL AXLE TRUCK – 6 WHEELER	RRO	NA	NA	NA	NA	NA
Motors	EJ-00-775	4 X 2 CONFIGURATION OF DUAL AXLE TRUCK – 6 WHEELER	FL	CD013639	70490272024	MRF	S1 F4 PLUS	18/06/2024 17:06:08
Motors	EJ-00-775	4 X 2 CONFIGURATION OF DUAL AXLE TRUCK – 6 WHEELER	FR	CD023A2D	70043842124	MRF	S1 F4 PLUS	18/06/2024 16:16:04

[1](#)
[2](#)

2. Alert Report:

Tyre Sensor Mapping **Alert Report** Offline Data 16/07/2024 - 16/07/2024 All All Search Download

Fleet Details	Vehicle Number	Tyre Position	Alert Description	Actual Value	Threshold Value	Start Time	Updated Time	Alert Age	Alert Type
	NL-01-AB-7785	1FR	High Temperature Warning - 1FR	64	60.006	16/07/2024 08:31:00	16/07/2024 13:49:00	5 hr 18 Mins	High Temperature
	NL-01-AB-7785	1FL	High Temperature Warning - 1FL	61	60.006	16/07/2024 08:15:00	16/07/2024 11:36:00	3 hr 21 Mins	High Temperature
	NL-01-AB-7785	1FL	High Temperature Warning - 1FL	61	60.006	16/07/2024 11:44:00	16/07/2024 13:49:00	2 hr 5 Mins	High Temperature
	NL-01-AB-7785	1FR	Low Pressure Warning - 1FR	139	140	16/07/2024 12:00:00	16/07/2024 12:07:00	0 hr 7 Mins	Low Pressure
	NL-01-AB-7785	FA-RO	Low Pressure Warning - FA-RO	177	180	16/07/2024 13:43:01	16/07/2024 13:48:00	0 hr 5 Mins	Low Pressure
	NL-01-AB-7785	1FL	Low Pressure Warning - 1FL	139	140	16/07/2024 11:31:00	16/07/2024 12:16:00	0 hr 45 Mins	Low Pressure
	NL-01-AB-7785	1FR	High Pressure Warning - 1FR	144	142	16/07/2024 09:53:00	16/07/2024 10:37:00	0 hr 44 Mins	High Pressure
	NL-01-AB-7785	D1-LO	Low Pressure Warning - D1-LO	179	180	16/07/2024 11:33:00	16/07/2024 12:17:00	0 hr 44 Mins	Low Pressure

< 1 2 >

3. Offline Data

< Dashboard Map Monitor Compare **Reports** Alerts > 16-Jul-2024 01:50:54 pm

Tyre Sensor Mapping Alert Report **Offline Data** 16/07/2024 - 16/07/2024 All Search Upload File

No Alert Report Details Available!!!

4. Alert Screen

- The table includes the following columns:
 - **Fleet Detail**
 - **Vehicle Number**
 - **Tyre Position**
 - **Alert Description**
 - **Actual Value**
 - **Threshold Value**
 - **Start Time**
 - **Updated Time**

- Alert Age
- Alert type
- Average speed
- Total KMS
- Location
- Status
- Action

5. User Actions

- The **search** functionality can be used for searching the element.
- The **Action** column contains:
 - **View Icon:** Allows to view the vehicle details.

Alert Data ×

Tyre Health Monitor

Vehicle No: NL-01-AB-7785

Tyre ID	Sensor ID	Pressure	Temperature
1FL	CD011739	139 psi	64 Deg C
1FR	CD023341	140 psi	65 Deg C
D1-LO	CD012C31	179 psi	45 Deg C
D1-RI	CD013737	168 psi	45 Deg C
D1-LI	CD020816	178 psi	47 Deg C
D1-RO	CD01363D	170 psi	47 Deg C
FA-LO	CD021813	177 psi	45 Deg C
FA-RI	CD013C36	170 psi	46 Deg C
FA-LI	CD020F16	176 psi	48 Deg C
FA-RO	CD011532	178 psi	48 Deg C

6. Fleet Management:

Monitor Compare Reports Alerts **Fleet Management** Vehicle 16-Jul-2024 02:02:44 pm

Drivers Threshold Users MRF-UAT Search + Assign Driver + Add Driver Download

Driver Name	Fleet Details	Vehicle Number	Driver License	Vehicle Type	Contact Number	Date & Time	Action
Venkatesh	MRF-UAT	NL-01-AB-7785	LCS456	6 X 2 CONFIGURATION OF MULTI AXLE TRUCK - 10 WHEELER	9488794007	27/06/2024 12:09:37	

- Click on the **Add Driver** button to open a popup screen.

Assign Driver X

Driver Name*

Assign Vehicle*

Save Close

- In the popup screen, fill in the required details:
 - Assign driver
 - Driver Name
 - Assign Vehicle
- Click on save to save the filled item.

Pagination is available to navigate through different pages of the user list.

7. Add Driver

Click on the **Add Driver** tab to be redirected to the device management page.

Add New Driver X

Driver Name *

Driver License *

Contact Number *

Save Close

- In the popup screen, fill in the required details:
 - Driver Name
 - Driver License
 - Contact Number

Download functionality is available to download the fleet details.

8 Vehicle Management:

Vehicle Type	Vehicle Number	Assigned to	Repeater Quantity	MCU Serial Number	Vehicle Status
4 X 2 CONFIGURATION OF DUAL AXLE TRUCK – 6 WHEELER	MA-12-NA-3456	UAT	1	240504306	NORMAL
4 X 2 CONFIGURATION OF DUAL AXLE TRUCK – 6 WHEELER	EJ-00-775	Motors	1	211100555	NORMAL

- The table includes the following columns:
 - Vehicle Type

- **Vehicle Number**
- **Assigned to**
- **Repeater quantity**
- **MCU Serial Number**
- **Vehicle Status**

- **Add Vehicle:**

Click on Save button to save the items entered.

User Actions

- The **search** functionality can used for searching the element.
- The **Action** column contains:
 - **Edit Icon:** Allows to view the vehicle details.
 - **Delete:** Allows to delete the vehicle Details

Master Data:

This section is only available for super admin: Here we have certain list:

Fleet list:

SI.No	Fleet Name	Configured Time	Configured By	Action
1	UAT	15/05/2024 11:53:20	SuperAdmin	
2	Motors	18/06/2024 12:05:29	SuperAdmin	

User Actions

- The **Action** column contains:
 - **Edit Icon:** Allows to view the vehicle details.

- **Delete:** Allows to delete the vehicle Details
- **Add Fleet Name :** Allows you to add new fleet

Tyre Make:

SI.No	Tyre Make	Configured Time	Configured By	Action
1		18/03/2024 12:36:25		

User Actions

- The **Action** column contains:
 - **Edit Icon:** Allows to view the vehicle details.
 - **Delete:** Allows to delete the vehicle Details
 - **Add Tyre Make:** Allows you to add new fleet

Tyre Model:

SI.No	Tyre Model	Tyre Make	Configured Time	Configured By	Action
1	70*65		13/05/2024 16:35:24		

User Actions

- The **Action** column contains:
 - **Edit Icon:** Allows to view the vehicle details.
 - **Delete:** Allows to delete the vehicle Details
 - **Add Tyre Make:** Allows you to add new fleet

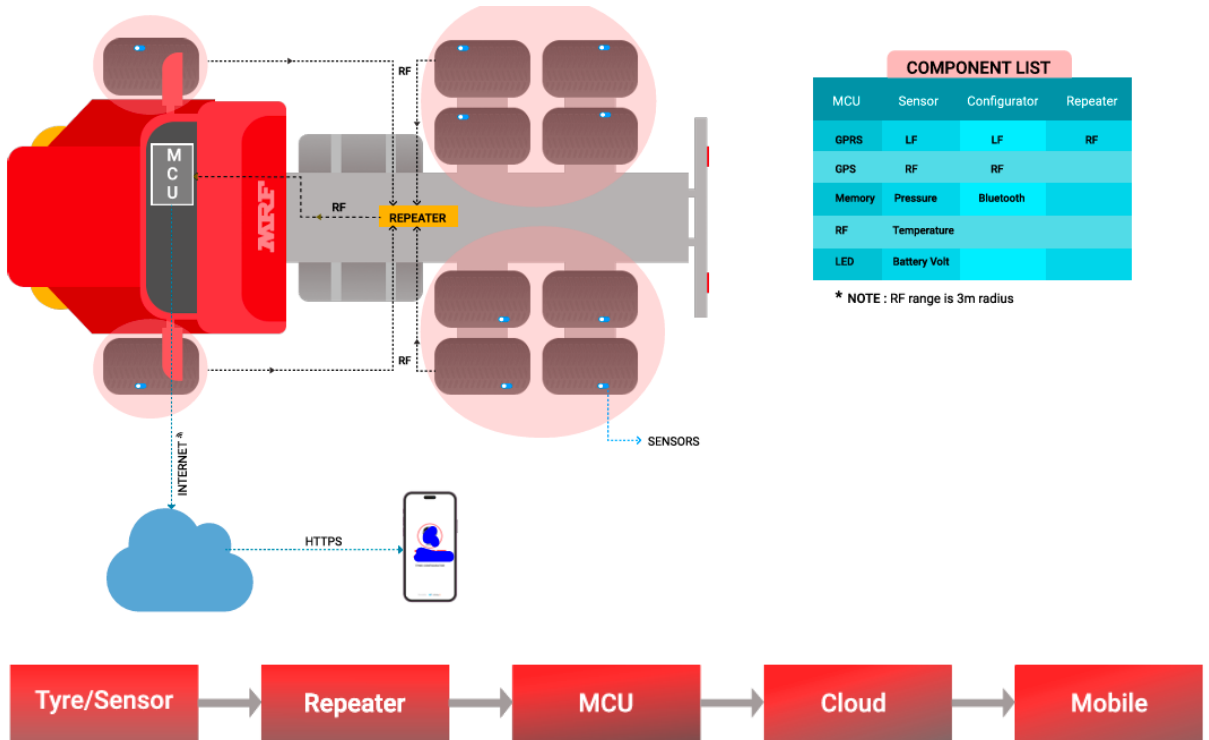
Specification:

Parameter	Specification
Temperature	40 Deg C

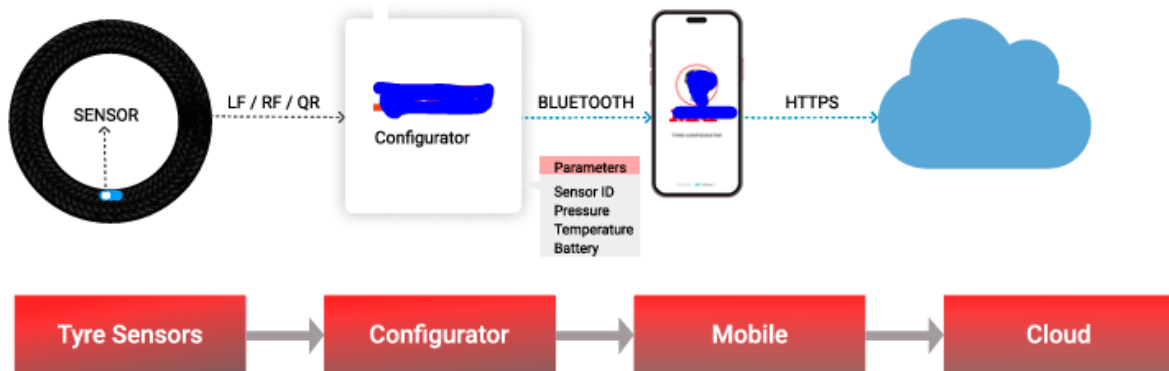
User Actions

- The **Action** column contains:
 - **Edit Icon:** Allows to view the vehicle details.
 - **Delete:** Allows to delete the vehicle Details
 - **Add Tyre Make:** Allows you to add new fleet

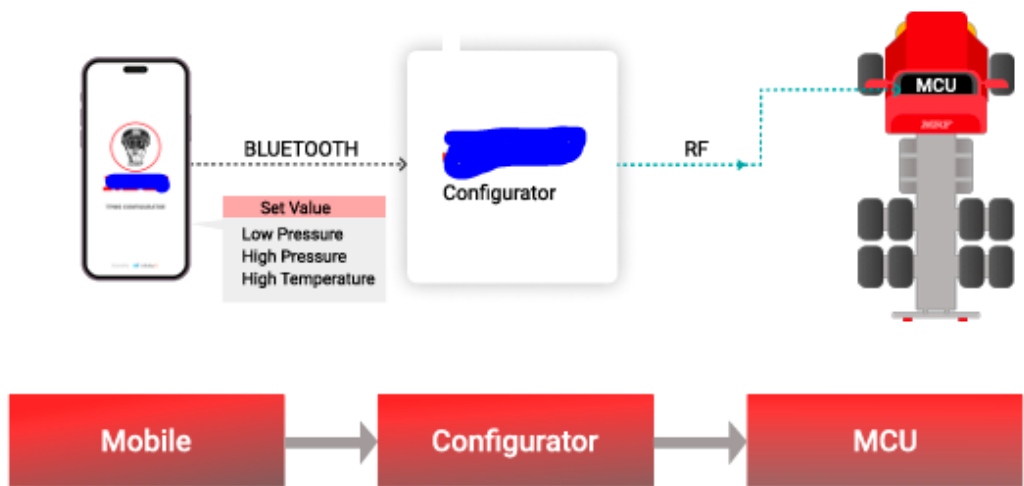
Data Flow diagram



Configurator



Set Parameters On MCU



.....Thank You.....