

BEACON ADVANCEMENTS



Beacon

 Connected

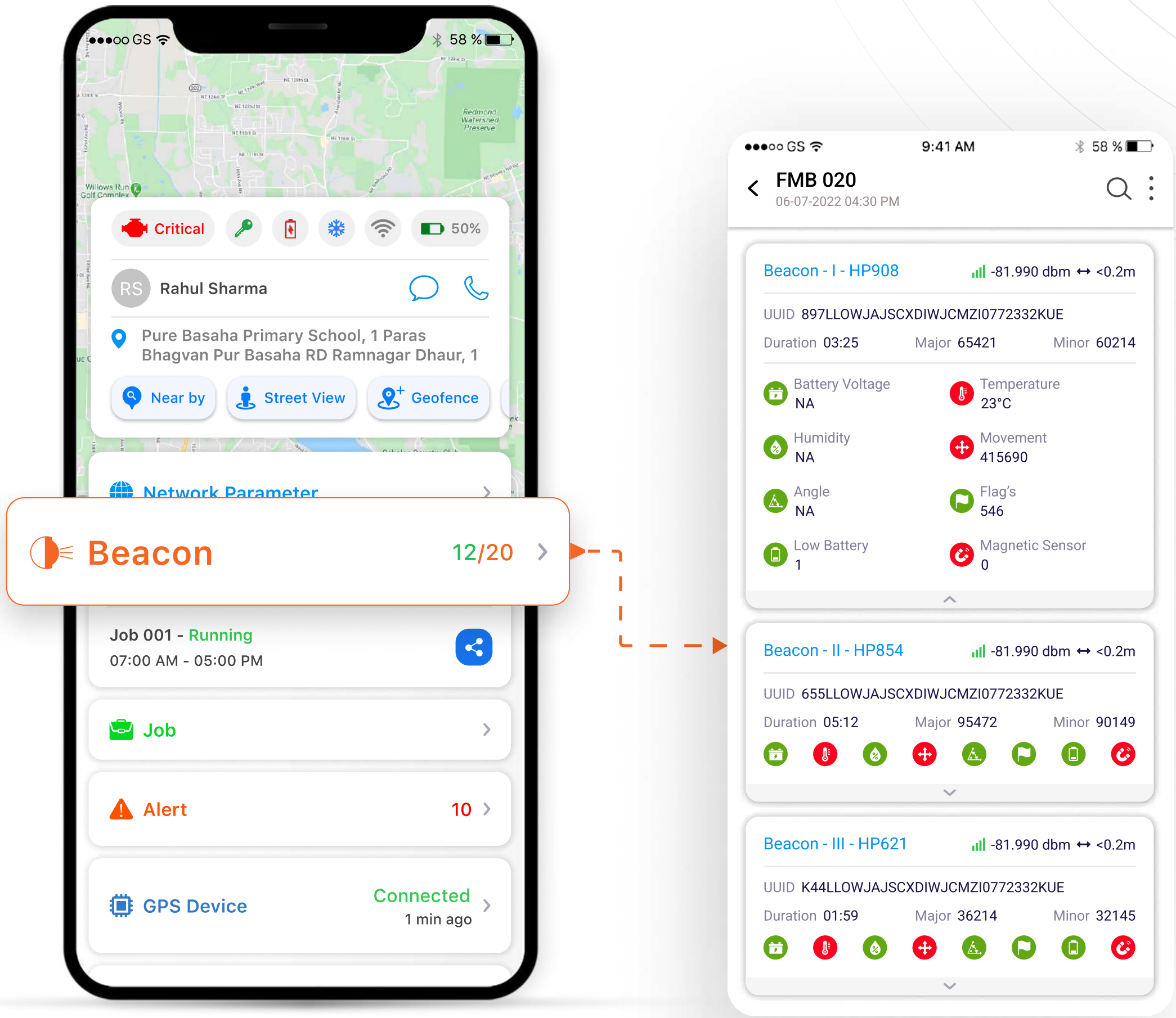
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Introduction

We highlight the synergy between fleet management software and beacon technology, demonstrating how this integration enhances efficiency and precision. Imagine real-time tracking that's accurate indoors and outdoors, with vehicles seamlessly transitioning between zones triggered by beacons.

Experience automated alerts, streamlined geofencing, and effortless navigation in complex indoor spaces. Harness data insights for smarter decisions and provide superior customer service through real-time notifications. Elevate security with beacon-enabled alerts, creating a safer fleet environment.

This brochure unveils the dynamic potential of beacon integration, setting the stage for a future of optimized fleet management.

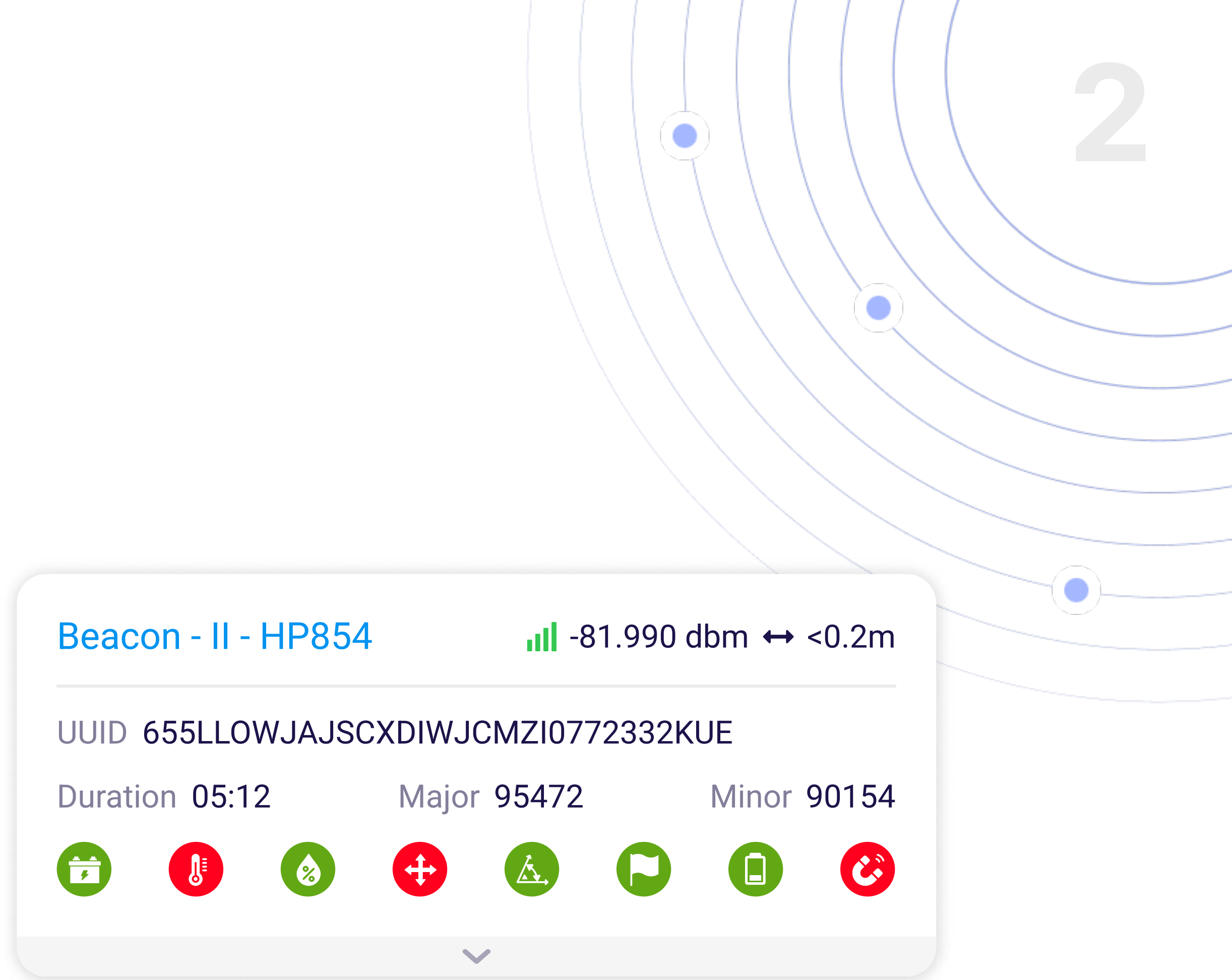


Range Detection

Offer your clients high level of accuracy towards fleet tracking and operations. Range detection allows precise proximity tracking of assets, vehicles, and personnel. It also enables real-time alerts and actions as they enter or exit the range of beacons.

Geofencing becomes more efficient by creating dynamic zones based on beacon ranges, triggering automated responses.

The integration enhances security measures, optimizes asset utilization, aids navigation in complex environments, and empowers data-driven decisions through historical data analysis.

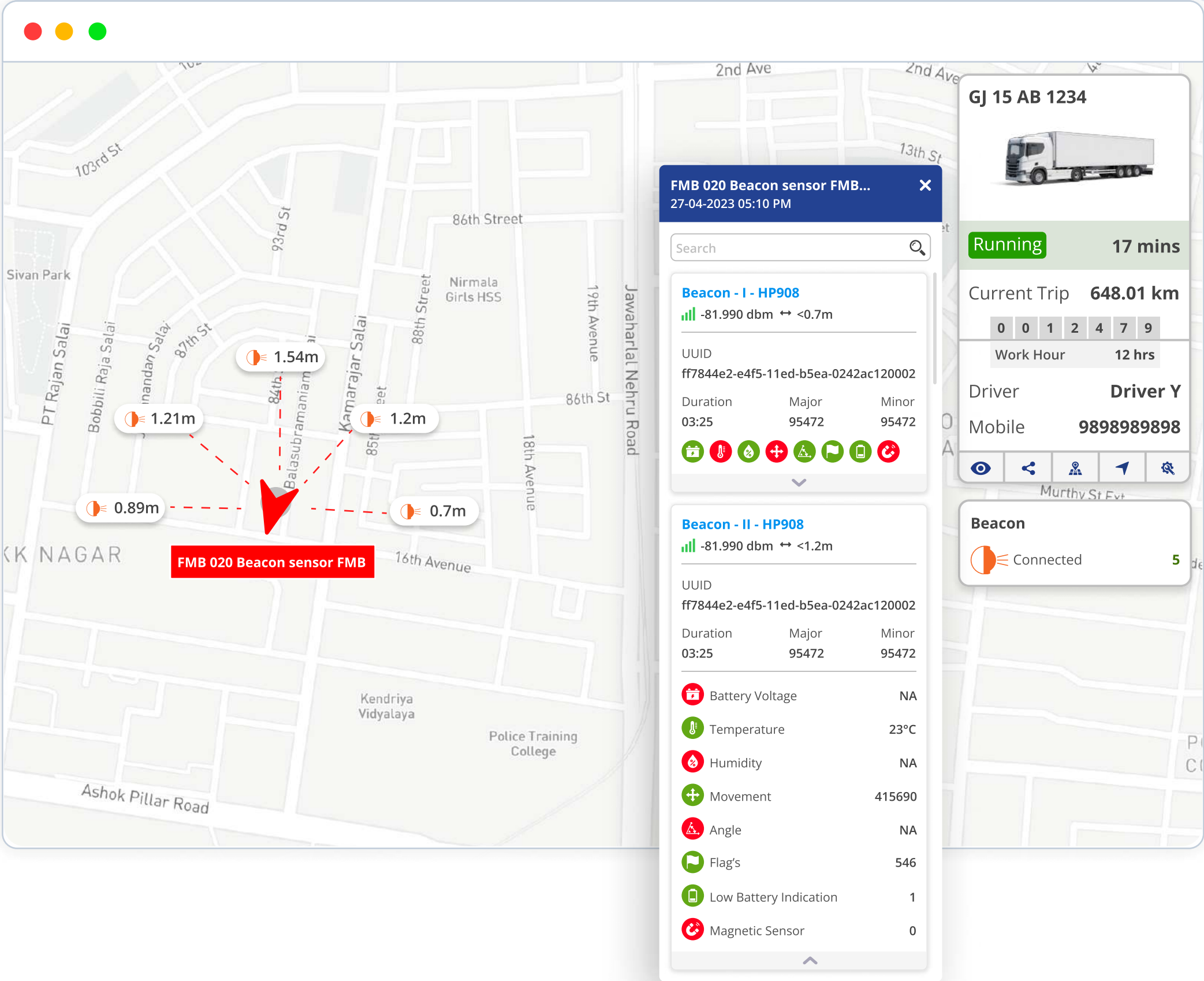


Asset Monitoring

Monitor and manage the real-time location, status, and movement of various assets concurrently. This comprehensive approach allows businesses to gain visibility and control over their assets, including equipment, inventory, and personnel.

The system enables geofencing to trigger alerts and automate actions based on predefined zones.

Asset monitoring solutions find applications across diverse industries. It delivers valuable insights and enabling data-driven decision-making for better asset management and operational success.



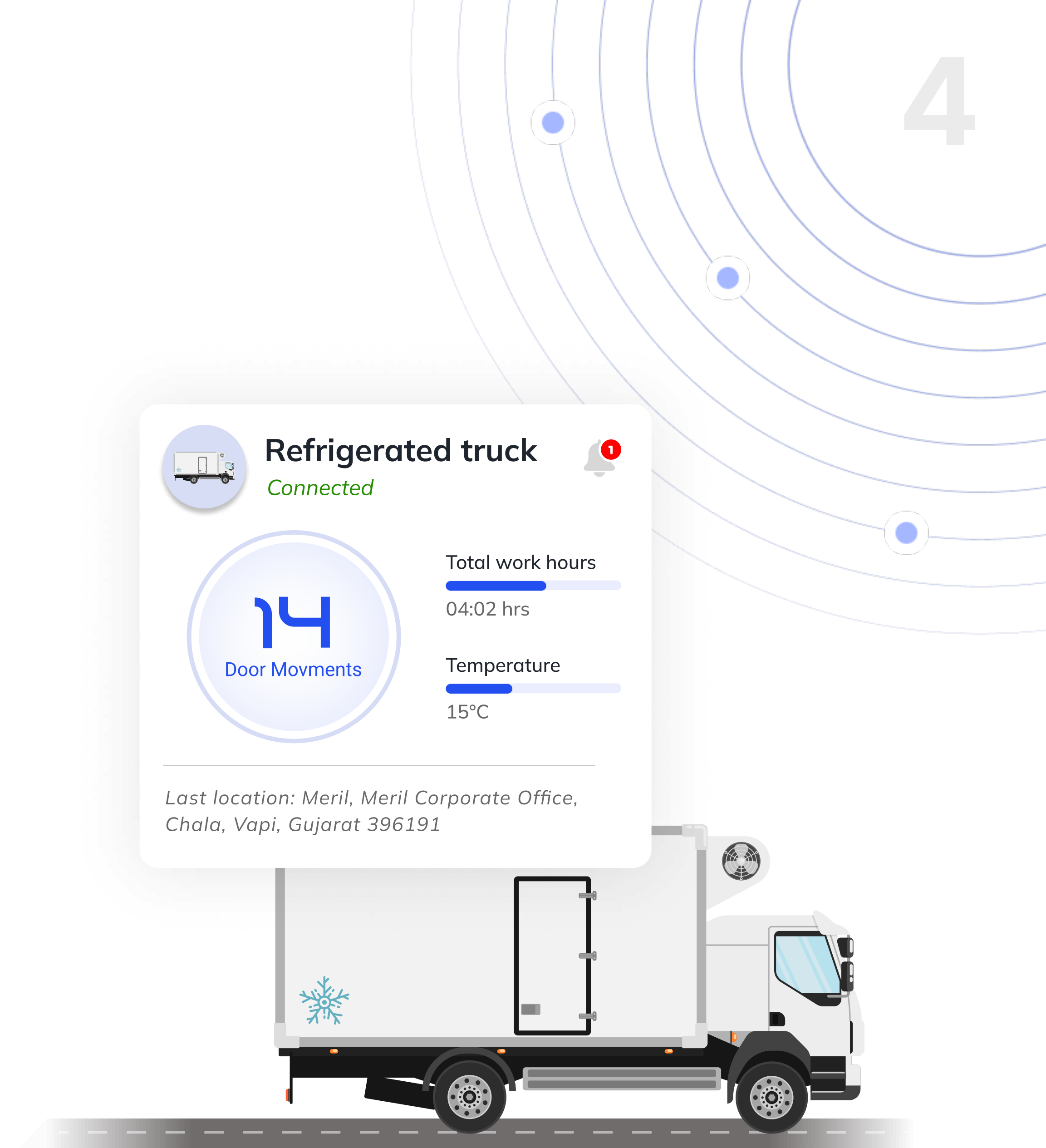
Motion Detection

The software captures and processes the motion data received from the beacons' built-in sensors which are connected wirelessly with GPS device through bluetooth. It analyzes changes in position, orientation, or acceleration to detect motion events.

Once motion is detected, the software triggers real-time responses based on predefined rules, such as sending notifications, activating devices, or initiating specific actions.

Additionally, the software applies contextual intelligence to differentiate between different types of motion and integrate with other systems for seamless workflows.

The software enables data analysis, providing insights into motion patterns and trends over time. Customizable configurations ensure the system's adaptability to different use cases and environments.



Instant Alerts

- **Geofence Alerts**
Geofence alerts are triggered when a vehicle or asset enters or exits a predefined geographical zone. These alerts help monitor when vehicles deviate from planned routes or enter unauthorized areas.
- **Proximity Alerts**
Proximity alerts are activated when a vehicle or asset comes within a certain distance of a specific beacon. These alerts are useful for tracking interactions with specific locations or assets.
- **Temperature Alerts**
These alerts can be sent when the monitored temperature goes outside predefined safe ranges. These alerts are crucial for temperature-sensitive cargo.
- **Battery Health Alerts**
Battery-powered beacons can generate alerts when their battery levels are low, ensuring continuous operation. These alerts help maintain the functionality of the beacon network.



Insightful Reports

- Beacon log summary report
These reports could provide insights into the connectivity status of beacons. They would indicate whether beacons are actively transmitting signals and if they are properly connected to the network or receiver. Connectivity reports help ensure the reliability of the beacon data.

Beacon Logs Detail							
	Company	Branch	Object	Imei No	Connections	Last Data Receive Time	Status
+	Telematics	Telematics	Rut10x	1000989098	5	19-06-2023 05:55:58 PM	[{"UUID": "FFFFFF...
-	Fleetrack	Fleetrack	FMB 020	350424064811134	3	19-06-2023 05:55:58 PM	[{"UUID": "FFFFFF...
Data Recive Time				Data String			
02-08-2023 07:47:50 PM				[{"UUID": "7cd9f4053753", "Angle": 0, "flags": 68, "signal": -68, "Battery": 0, "Humidity": 0, "Mo...			
10-08-2023 05:03:42 PM				[{"UUID": "7cd9f405314", "Angle": 0, "flags": 68, "signal": -64, "Battery": 0, "Humidity": 0, "Mov...			
10-08-2023 06:23:23 PM				[{"UUID": "7cd9f4053316", "Angle": 0, "flags": 68, "signal": -71 "Battery": 0, "Humidity": 0, "Mov...			
11-08-2023 04:16:44 PM				[{"UUID": "7cd9f4053901", "Angle": 0, "flags": 68, "signal": -61, "Battery": 0, "Humidity": 0, "Mo...			
+	Smartloco	Smartloco	FMB 020 eye sesnor	357073296312784	1	19-06-2023 05:55:58 PM	[{"UUID": "FFFFFF...

Construction Tools Tracking

Challenges

- Difficulty in tracking tool locations in large and chaotic environments.
- Time-consuming and inaccurate traditional tracking methods
- Theft is a major concern in the construction industry due to the expensive nature of tools.
- Accidents can occur if tools are not used properly or are misplaced.

Solution

- Real-time tool tracking enables instant visibility of tool locations within the job site, eliminating guesswork and saving time.
- Identifies and prevents unauthorized access attempts to tools through secure authentication methods.
- Continuous monitoring of tool movements identifies potential collision risks, promoting a safe working environment.

Results

- Minimizes accidents by monitoring tool movements and detecting potential hazards.
- Real-time tracking streamlines tool location, and reduces downtime



Waste Containers Tracking

Challenges

- Overfilled waste containers pose a nuisance and health hazard.
- Stolen waste containers increase costs for waste management companies.
- Suboptimal collection routes lead to higher operational costs.

Solution

- Real-time monitoring of waste container locations.
- Ensuring timely collections, preventing overflow and detecting container temperature
- Immediate alerts for waste container movement beyond designated zones or theft attempts

Results

- Beacon prevents illegal dumping by tracking container locations and identifying high-risk areas.
- Streamline waste collection and operational expenses.



Temperature and Humidity in Pharma Logistics

Challenges

- Fluctuations in temperature can lead to product damage and compromise quality.
- Manual temperature logging is time-consuming and prone to errors.
- Some temperature-sensitive materials may be located in remote or hard-to-reach areas.

Solution

- Realtime temperature tracking of products or materials, provided instant alerts when safe limits are exceeded.
- Automated temperature data logging, eliminated manual errors and ensured accurate records.
- Ease of accessing temperature data from any location with internet connectivity, increasing accessibility and ease of monitoring.

Results

- Streamlines temperature record-keeping, reducing errors and simplifying compliance procedures.
- Remote accessibility, enhanced operational efficiency and response times.

UT250 Reefer Activity		
Sensor	Temperature	Humidity
BLE 1	15 °C	45%RHT
BLE 2	18 °C	58%RHT
BLE 3	28 °C	41%RHT
BLE 4	12 °C	52%RHT



High Temperature : 28°C

Sensor : BLE 1
Vehicle : UT250 Reefer
Time : 10-05-2023 01:24

Our software is designed to be **flexible, scalable, and customizable**.
We understand that every business is unique, and we work closely with our customers to ensure that our solutions are tailored to meet their specific needs.

Thank you!



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