

Success Story

Reengineering an IoT-enabled fleet management platform for a UAE-based asset tracking solutions provider

Customer

Leading IoT
Solutions Provider

Country

UAE

Industry

Information &
Technology

About The Client

The client is a UAE-based leading provider of IoT solutions and systems integration for B2B customers. They focus on various sectors such as cargo security, fleet management, video telematics, temperature monitoring, etc. The company offers insights into asset activity and status, helping businesses track and monitor mobile and fixed assets globally.

Technology Stack



Business Situation

Providing real-time updates to the users was crucial for our client to maintain operational standards and ensure the security efficiency of their fleet management. However, our client faced significant challenges with their existing platform due to its lack of interactivity, advanced tracking capabilities, and the absence of advanced IoT devices.

The platform's inability to provide real-time shipment tracking, speed monitoring, and instant notifications limited the company's operational efficiency. This shortfall hampered their ability to monitor truck shipments, detect over-speeding, and receive real-time alerts and alarms.

The client sought a technology partner to transform their digital products. They required a partner to design and implement a user-friendly, feature-rich solution that could provide real-time insights and seamless tracking. Unthinkable Solutions was selected for its exceptional cost/value balance and expertise in IoT solutions development and integration.

The key requirements were to:

- ✓ Modernize the platform & introduce a range of new features to enhance user experience.
- ✓ Implement real-time tracking to provide immediate shipment updates, speed monitoring, and instant notifications.
- ✓ Improve UI/UX to ensure a seamless and intuitive user journey.
- ✓ Integrate advanced IoT devices to enhance tracking accuracy, improve data collection, and enable more sophisticated monitoring capabilities.
- ✓ Develop a robust admin portal to efficiently manage administrative tasks.

The Solution

To address the challenges faced by our client in managing their fleet effectively, we undertook a comprehensive overhaul of their existing IoT-enabled fleet management platform. The platform revamping procedure included business analysis, new product design, software architecture, software development, quality assurance, and implementation.

The key features we incorporated:

User Portal

Real-time view of assets: The feature provides users with a real-time view of all vehicles on the map, with icons that represent different vehicle types, by using IoT technology. This allows users to monitor truck shipments and detect over-speeding incidents.

Notifications: This feature allows users to set up and manage alerts for various events and conditions. Users can configure notifications for over-speeding, maintenance reminders, route deviations, and other critical events. This helps in proactive fleet management and improves overall operational efficiency.

Reports: This feature provides a robust tool for generating detailed reports on various aspects of fleet operations. Users can create custom reports to analyze data such as fuel consumption, maintenance history, driver performance, and asset utilization. Users can apply date and time filters to view data specific to those periods. These reports can be exported in different formats for further analysis and sharing. The insights derived from these reports assist in making informed decisions, optimizing resource allocation, and improving overall fleet performance.

Assets & sync driver: This feature provides a list of assets with their driver sync status (synced, not synced, and pending). Users can apply filters to view specific statuses.

Admin Portal:

Manage drivers: Administrators can add new drivers, update existing driver profiles, and track performance metrics. This includes monitoring driving behavior, logging hours of service, and ensuring compliance with safety regulations. The feature also allows for assigning drivers to specific vehicles or routes, optimizing fleet operation.

Manage users & groups: This feature allows administrators to create, modify, and delete user accounts and groups. Administrators can assign specific roles and permissions to users, ensuring each user has access to the appropriate features and data. This helps organize users based on their roles and responsibilities, enhancing security and operational efficiency.

By modernizing the platform and introducing a range of new features, we enabled real-time tracking, enhanced monitoring capabilities, and instant notifications. This allowed the client to effectively monitor truck shipments, detect over-speeding incidents, and receive timely alerts, thereby improving safety and compliance. The intuitive and interactive interface made it easier for users to navigate and utilize the platform, leading to increased user satisfaction and productivity. The robust reporting tools provided actionable insights, enabling informed decision-making and optimized resource allocation.

Our solution empowered the client to manage their fleet more effectively, resulting in reduced operational costs, improved asset utilization, and enhanced service delivery. This transformation has positioned the client as a more competitive player in the IoT solutions market, capable of delivering superior value to their customers.

The Impact

Is there a digital platform you want to build or take to the next level?

Setup a personalized consultation with our technology expert.

Let's Talk