

PULSTRAC

FLEET MANAGEMENT & MOBILE TRACKING

Fleet Tracking, Extended to Mobile

Extending an existing fleet management system into an Android and iOS app that lets customers track vehicles, review exceptions and replay routes.

01

Executive Summary

Aglo Technologies had developed a fleet management system and needed a mobile application that could extend fleet visibility to its customers. Pulstrac is that application: a mobile app that integrates into the Aglo fleet management system.

Aglo Technologies partnered with iSolve Mobility to assist with the development of an Android and iOS app on the Xamarin platform. The app integrates with Aglo's existing system through web services and lets customers track their fleet on a map, view exceptions and play back route activity.

The brief wasn't to build a standalone app. It was to extend a fleet management system that already existed, so customers could see their fleet from their phones.

This case study is a working example of how an existing system can be extended through a mobile app, giving customers map-based fleet visibility, exception tracking and route playback from Android and iOS devices.

2

platforms: Android and iOS, built on Xamarin

Map-based

fleet tracking for customers

Exceptions

on acceleration, low fuel, alerts and other data

Playback

of routes as an animated sequence of pins

02

The Business Problem

Aglo Technologies had an existing fleet management system and needed a mobile application that could extend fleet visibility to customers. The app had to integrate with that system through web services.

Beyond the surface-level ask of a mobile app, the solution had to:

- Integrate with the existing fleet management system through web services.
- Present fleet locations on a map.
- Show exceptions and alerts, including acceleration and low fuel.
- Let users review the route a driver took.
- Run on both Android and iOS.

Each requirement draws on the existing fleet management system, which makes the web services integration central to the whole solution.

03

Why This Was a Hard Problem to Solve Well

Putting pins on a map is not difficult. Extending an existing fleet management system to customers on Android and iOS — with exceptions, alerts and route playback — is a different kind of problem, and that difference is exactly where we add value.

Extending a system that already exists

The app had to integrate with Aglo's existing fleet management system through web services, so what customers see on mobile comes from the system itself.

Exceptions, not just locations

Customers needed more than a dot on a map. The app shows exceptions including acceleration, low fuel, alerts and other data, alongside the fleet's location.

Reviewing what happened on the road

Route playback lets users review the route a driver took, shown as an animated sequence of pins on a map.

Knowing that customers need to see what happened, not only where a vehicle is, is what turns location tracking into fleet visibility.

04

Our Role: From Problem to Platform

We partnered with Aglo Technologies to assist with the development of the Pulstrac app for Android and iOS on the Xamarin platform.

- Assisted with the development of the Android and iOS app on the Xamarin platform.
- Integrated the app with Aglo's existing fleet management system through web services.
- Supported fleet tracking on a map, exception and alert visibility, and route playback.

The Solution We Delivered

The result is a mobile app that gives Aglo's customers map-based fleet visibility, exception tracking and route playback from Android and iOS devices.

Fleet Tracking

Customers can track their fleet on a map.

Exceptions & Alerts

The app shows exceptions on acceleration and low fuel, alerts and other fleet data.

Route Playback

Users can play back a route using an animated sequence of pins on a map.

Platform capabilities at a glance

- Fleet tracking on a map.
- Exceptions on acceleration.
- Low fuel exceptions.
- Alerts.
- Other fleet data.
- Route playback.
- Animated route display using pins.
- Integration with the existing fleet management system through web services.

Technology Stack

Mobile App

Xamarin, for Android and iOS mobile app development.

Integration

Web services, connecting the app to the existing fleet management system.

Business Value Delivered

Mobile Fleet Visibility

- Customers have mobile access to fleet tracking and exception visibility.
- Users can see where their fleet is.
- The app extends Aglo's existing fleet management system to customers through web services integration.

Awareness of Exceptions

- Users can review alerts and exceptions in the app.
- Exceptions cover acceleration and low fuel, alongside other data.

Route Review

- Users can play back routes on a map.
- Playback shows the route as an animated sequence of pins.

08 · IN SUMMARY

Why It Matters

This project is a working example of how an existing fleet management system can be extended through a mobile app, giving customers map-based fleet visibility, exception tracking and route playback from Android and iOS devices.

- Integrating through web services lets a mobile app extend a system that already exists.
- Exceptions and alerts give customers more than location alone.
- Route playback lets users review the route a driver took.

If your organisation has a system that customers or staff need to reach from their phones, this is the kind of extension we build: integrated properly, engineered carefully, and delivered as an app people will actually use.

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