



## Power Optimizations & Enhancements for Efficient GPS Tracking



### Background

- ◇ An Australia based company which develops advanced GPS tracking solutions, including vehicle tracking, fleet management, route planning & scheduling.
- ◇ GPS Tracking provides location, unlimited history, engine diagnostics, reports, real time alerts, routing and messaging.

### Challenge

- ◇ Clients' existing application was consuming a lot of power from the batteries and hence was draining it very quickly; app thus had to be power optimized.
- ◇ An optimized balance between accuracy of GPS data and battery life had to be found.
- ◇ Enhancements like Configurable cache options to cater need of various customers / Notification Center / Command Center was to be made on the existing product.

### Idea

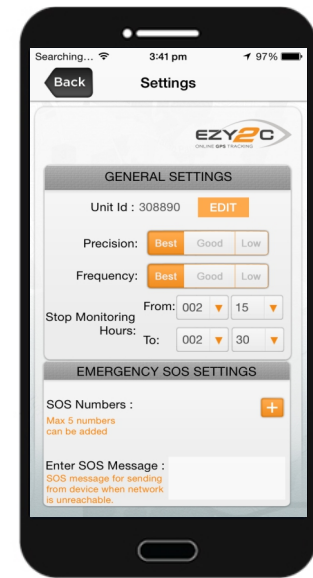
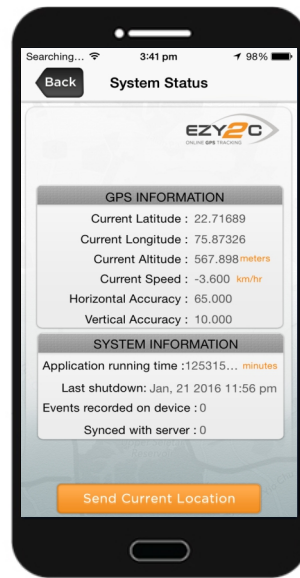
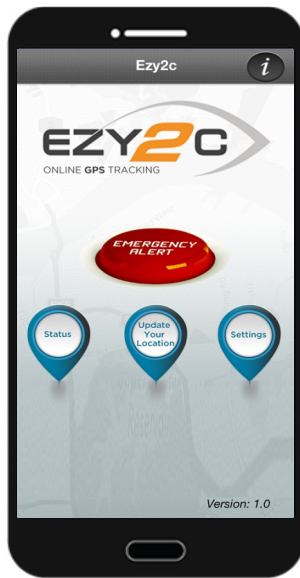
- ◇ Optimize the source code to consume less power, e.g. Ensuring lesser number of HTTP calls to backend in order to save battery life, fine tuning the accuracy of the GPS capture.
- ◇ Source code optimization loop / un-necessary code elimination was to be performed.

## Our Solution

- ◇ Increased the battery life after several rounds of code optimization specially from power consumption perspective.
- ◇ Enhanced the system with easy to set alerts enabling users to be notified of any activity outside of the Geo-Fencing.
- ◇ Provided the software with the ability to review vehicle utilization, fuel consumption pattern, daily usage and route selection.
- ◇ Provided alerts for Vehicle Swaying, Speeding, Harsh Braking, & Excessive idling.
- ◇ Enabled software with ability to send an SOS signal via email and / or SMS to a number of recipients in the event of an accident, breakdown or any dangerous situation.

## Technologies Used

- iOS SDK & Swift



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