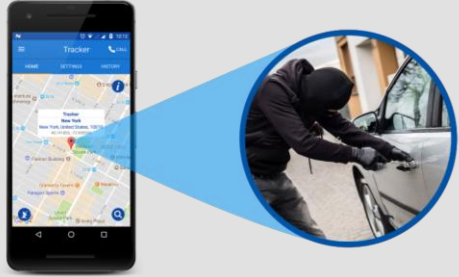




Android App for Vehicle tracking



Android App for Vehicle Tracking



A vehicle security system company needed a user friendly Android App to communicate with a tracker device installed in the vehicle and to receive timely alerts during an emergency or safety threats. It should allow the user to take actions while being away from the vehicle.

Results / Outcomes

- Delivered a low cost, user friendly Android app for remote vehicle tracking via GPS locations
- Communicates alerts and status via text messaging.
- Easy location identification of the car in vast parking lots
- Support a 3 way call to emergency services in case of theft situation
- Alerting emergency contacts automatically in case of emergency
- Complete test automation scripts to test the application in 12+ different OS/Phone combinations
- Privacy of the customer is not compromised, by not sharing the data to any servers



The System Description

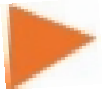
IMPLEMENTATION

- The tracking device is a microcontroller based system installed in to a vehicle with a cellular modem.
- The device communicating with owners' mobile app through text messaging and calls. This also can enter in to a 3 way call with 911 personnel in case of a theft situation.
- A configuration wizard has been developed as part of the mobile app which allows configuration of the tracker and alerts
- On detecting an alert condition like theft or towing, the tracker alerts the user via text messages.
- The app will create notification alarms depending on the type of message to alert the user with details location of the vehicle etc.
- The App has user friendly interface like alerts being displayed on map etc.
- In case of an emergency user can make a call to the tracker and based on users input tracker will connect to the nearest 911 emergency services for immediate action.

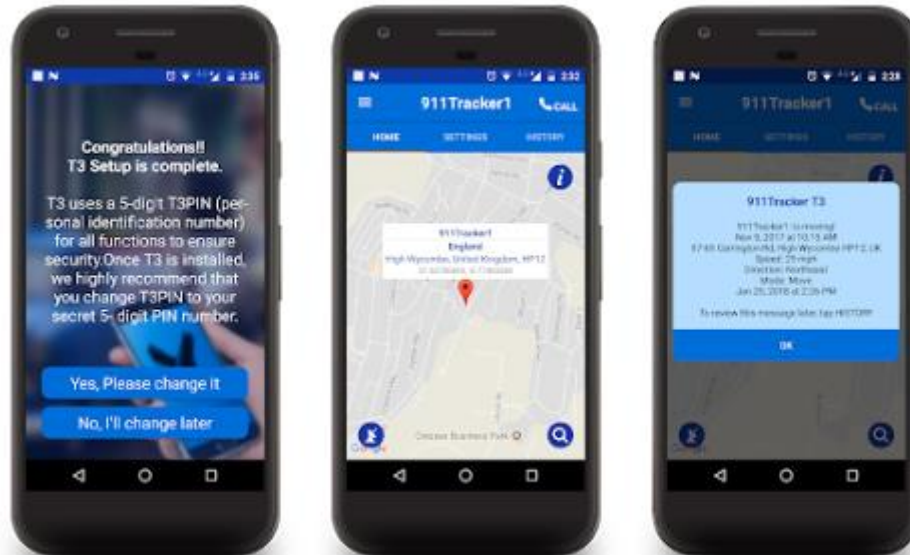
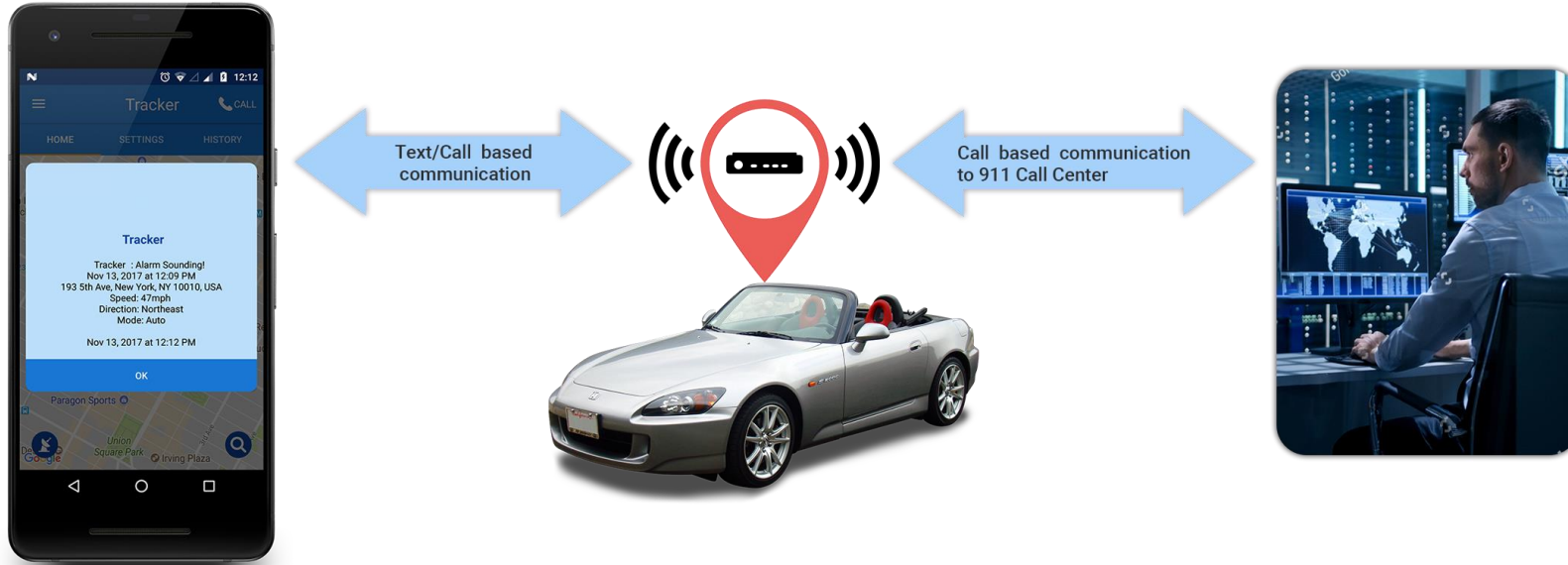
Mobile App Testing

- The application was tested using automation test scripts.
- Test script development was done using robot framework and Appium
- Test automation delivered benefits like:
 - Improved efficiency of testing by saving time
 - Enabled parallel execution on multiple devices like testing on 13 devices with different OS and vendor combinations.
 - Ease of incremental development since automation made regression testing easy





Work Flow Diagram



THANK YOU



For More Details, Let's Connect



Gadgeon Systems Inc.

881 Yosemite Way, Milpitas, CA 95035, USA

CONTACT - USA

Mani Ram - Vice President - Solutions and Technology

☎ +1-678-900-0874 | ✉ mani.ram@gadgeon.com

Gadgeon Smart Systems Pvt Ltd.

VI 405/E1, Fathima Tower, Maleppally Road, Thrikkakara PO,
Kochi, Kerala, PIN: 682021, India

CONTACT - INDIA

Hari Nair - CEO: +91 9895 01 58 80

☎ +91 989-501-5880 | ✉ hari.nair@gadgeon.com

Gadgeon Europe

Antwerpsesteenweg 124/54, 2630

Aartselaar, Belgium

☎ +32-475-233-947 | ✉ europe@gadgeon.com

✉ sales@gadgeon.com