IP Radio

About us:

The Volvo Group is one of the world's leading manufacturers of trucks, buses, construction equipment and marine and industrial engines under the leading brands Volvo, Renault Trucks, Mack, UD Trucks, Eicher, SDLG, Terex Trucks, Prevost, Nova Bus, UD Bus, Sunwin Bus and Volvo Penta.

Volvo Group Trucks Technology provides Volvo Group Trucks and Business Area's with state-of-the-art research, cutting-edge engineering, product planning and purchasing services, as well as aftermarket product support.

Background

Communication is important in most truck drivers' day-to-day work. It might be communicating with the person coordinating deliveries of goods, communicating with people at a construction site or social interaction with colleagues during a long haul mission.

Objective

The goal of this project is to develop an app that makes it easy and convenient for the driver to talk to colleagues in the working environment. We have described the basic functionality below as two user stories:

"As a driver I want to talk to my colleagues in the vicinity without having to make a call"

- The functionality should be more that of a traditional radio than telephony or IP-telephony (e.g. Skype). In other words it should be just to press a button and start talking.
- The driver could register to groups or networks where within the group "calls" always are accepted without the driver having to accept it.
- The groups/networks can also be based on locale/site

"As a driver I want to be able to select whom to talk to by selecting a vehicle in a map view"

- The app could include sharing position between vehicles and show the vehicles on a map view.

Project Details

The user stories shall be implemented as an App for Android. We believe that the work is suitable for 3-4 students. The software should be developed using agile methods where the group will be responsible for implementing user stories and a Volvo representative will be responsible for the user stories and prioritizing the backlog.

At this point there is no proposal from Volvo for a continuation in the form of a bachelor thesis, but we are open for suggestions if ideas for a thesis or internship arise during the project.

Group size: 3-4 students
Prerequisites: Android programming, Agile development, some knowledge of interaction design is preferable but not strictly required.

Requirement: All documentation must be written in English.
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