



# Operation: RM

## Radio Modem App

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## Our Client

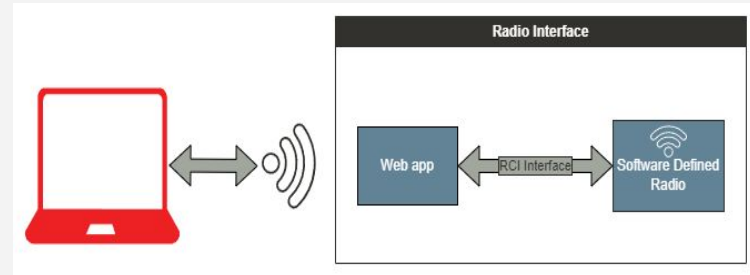
- What is General Dynamics Mission Systems?
  - Defense contractor specializing in the development of mission-critical products and systems
  - Supports solutions for land, sea, air, space, and cyber
- GDMS has developed and supports many technologies/programs you may be familiar with, including
  - Bluefin Robotics
  - Rescue 21
  - GPS III

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## Current Workflow and Problem

- Currently Implemented Control Method:
  - HTML web app hosted on radio
- Problem:
  - Not user friendly
  - User may not have access to a computer
  - No camera integration





## Solution

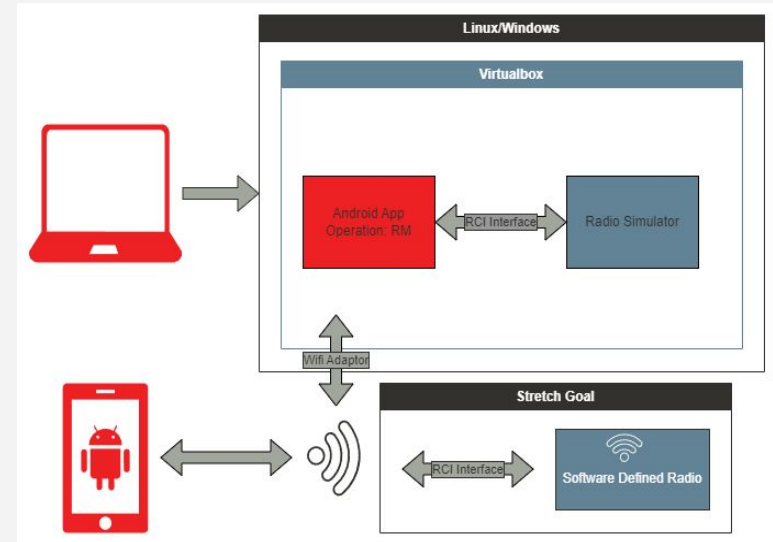
- Radio/Control Integration
- Camera/Audio Integration
- File Sharing/Transmission
- File Validation
- Email Queue





# Development Plan

- Use provided radio modem simulator to connect with the android app
  - Radio modem simulator source code in C
  - Run in Virtualbox on a Ubuntu system
- Develop the android app
- Connect radio modem simulator with the android app
- Weekly meetings with the client going over our schedule and what we are currently doing





## Closing

- Working with General Dynamics Mission Systems in developing technologies to assist the defense, public safety, and intelligence communities
- Developing an android application to interact with a radio modem
  - Will facilitate not only a better user experience, but also allow for more efficient tactical communication