

aytheon Senior Design Project Android Based Situational Awareness: Moving Map

Gate 5: Kickoff

September 19, 2012



Project Overview

Background: There are no current Raytheon non-web based mapping applications on an Android device.

CONOPS: (Concept of Operations) The application is intended for soldiers, law enforcement officers, or other personnel without access to the Internet. The application will be compatible with Android devices.

Key Assumptions:

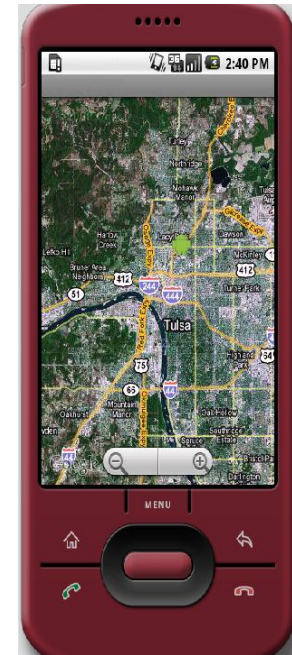
- Raytheon will provide one 10" Samsung Galaxy Tablet

Critical Success Factors:

- Selected a map engine by 9/26/2012
- Screen shots of existing applications by 9/26/2012, and ask for screen shots of all required maps layers

Buyoff Criteria:

- Final Release Demonstration for Raytheon Management
- Successful completion of all university project requirements



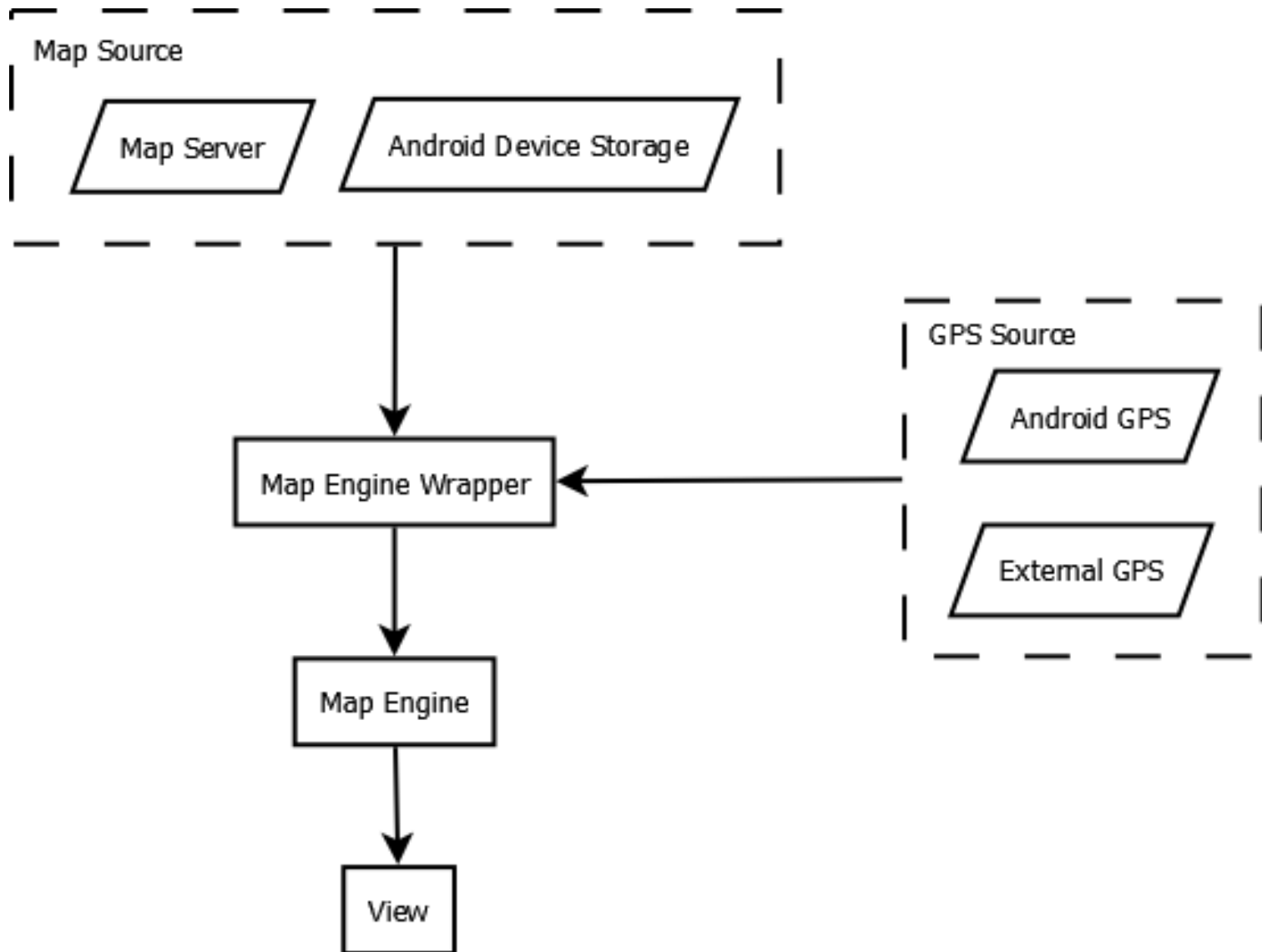
Deliverables:

- Program Documentation (Schedule, etc.)
- Requirements/Architecture
- System Design
- Source Code/Executables
- Demonstrations

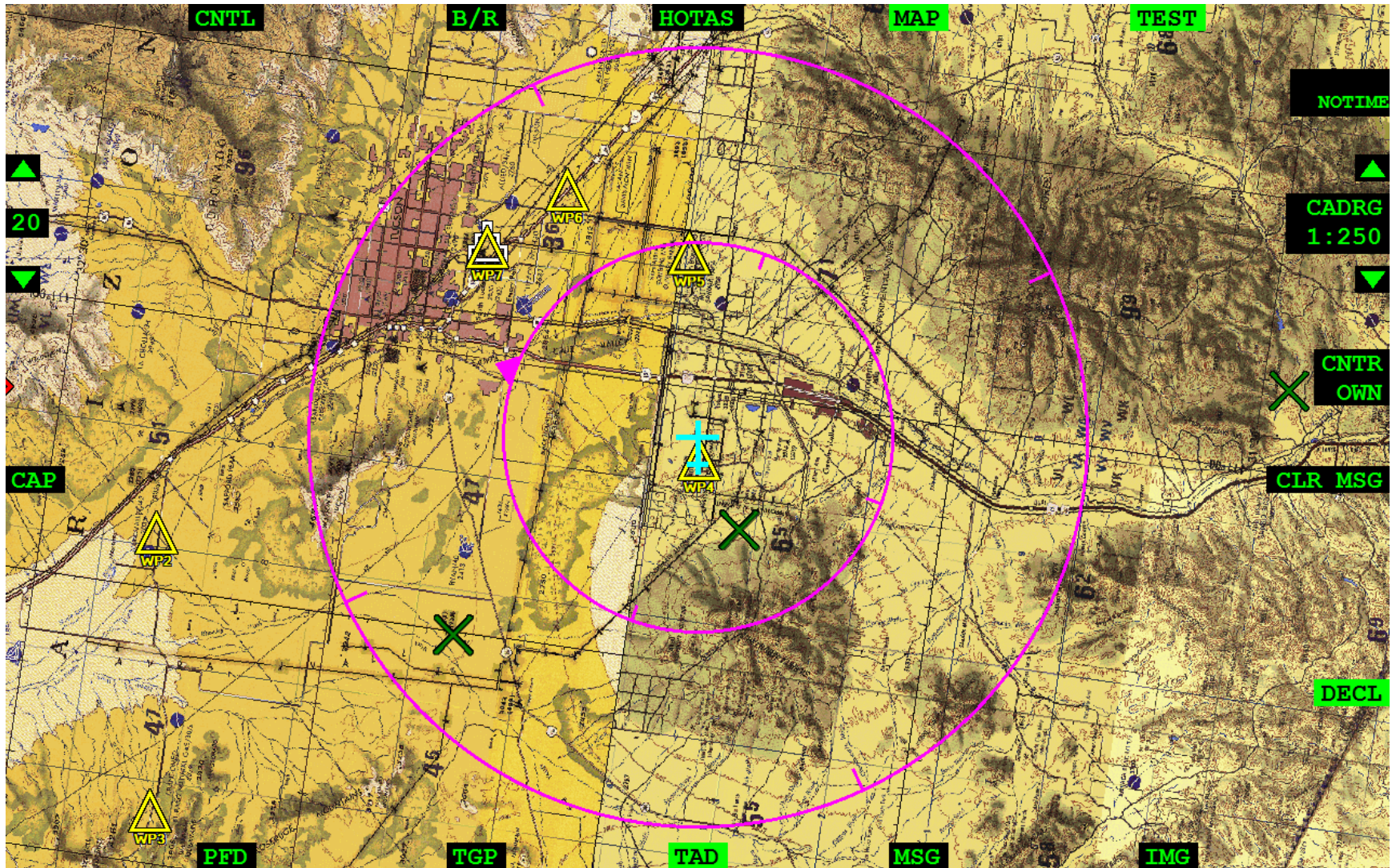
Next Milestone:

System Reqs. Review (SRR) – 3 Oct 2012

High Level Architecture



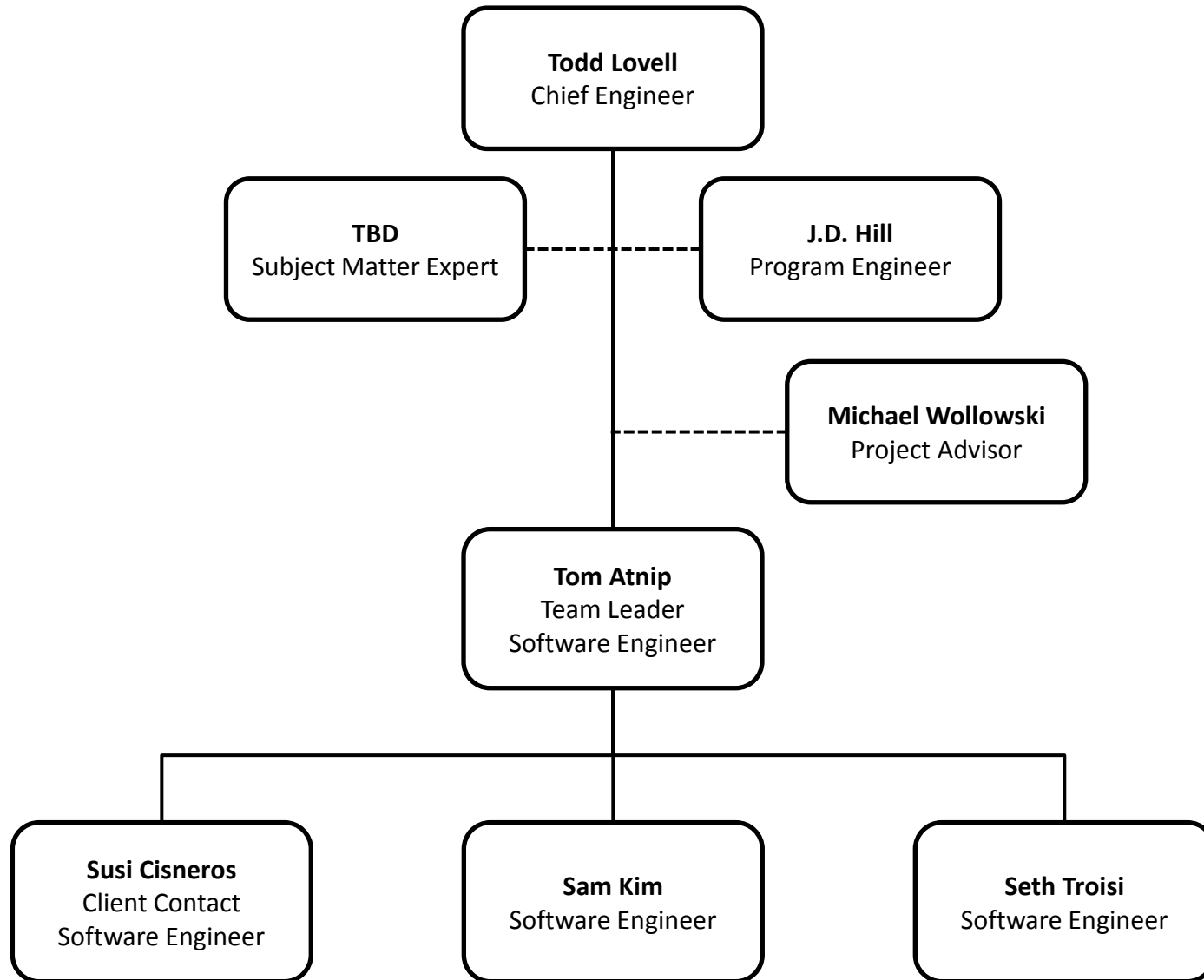
Existing Situational Awareness Software



Project Schedule & Milestones

- System Requirements Review: September 26th
- Preliminary Design Review: October 31st
- Alpha Release: December 19th
- Beta Release: February 6th
- Critical Design Review: February 6th
- Test Readiness Review: March 20th
- Final Release: April 17th
- Expo/Out brief: May 22nd

Project Team



Assumptions, Risks, & Opportunities

- Risks
 - Find a mapping engine that supports Raytheon's map format
- Assumptions
 - There exists a mapping tool that provides the ability to perform basic functionality (e.g. panning, zooming)
 - Libraries for pulling mapping information from local server (e.g. Wifi, USB)
- Opportunities
 - Google's mapping engine may provide many required features