Milestone 1

Android Based Situational Awareness: Moving Map

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Contents

Changes (based off Git commits)

Date	Description
13 September 2012	Document started
13 September 2012	Initial work on document

1 Functional Requirements

1.1 General

1.1.1 Android Moving Map shall provide the ability to pan the map by a dragging gesture

1.1.2 Android Moving Map shall provide the ability to zoom using double tap, pinch gestures, or using an on-screen button

1.1.3 Android Moving Map shall display map tiles that are either stored on the device or provided by a local server

1.1.4 Android Moving Map shall display other relevant information supplied by a local server

1.1.5 Android Moving Map shall georeference the location of the device

2 Non-functional Requirements

2.1 General

2.1.1 Android Moving Map shall run on Android platforms running at least version 3.0 (Honeycomb)

2.1.2 Android Moving Map shall be able to receive GPS data from a local server or the device

2.1.3 Android Moving Map shall display properly on either mobile phones or tablets

3 Questions

3.1 Should the orientation be north up or heading up or should we include both? If so what should the default be?

3.2 What is the "other relevant information" that will be displayed on the map?

3.3 Will we have to display multiple types of map tiles (i.e. satellite or street)?

3.4 Will we have any control/knowledge in how map tile data is sent to the device (i.e. filetype and format)?

3.5 Can we get sample map data from Raytheon?

3.6 What will be the restrictions on zoom level, since it alters how many tiles need to be stored on the device?

3.7 When/how should the device pull map tile data from the server?

3.8 Does the view follow the user as he/she travels?

3.9 Does the server have connection to the Internet?

3.10 What ways should the device connect to the server?

3.11 Will there be any views aside from the map?

3.12 What happens if the connection is lost?

3.13 What happens when connection is regained?

3.14 How is the connection initially established?

3.15 Should we disable the device from turning off the display?

3.16 What happens during/after a critical error with the device?

3.17 Can this be an open source project, as we may run into GPL licensing issues?

3.18 Who is maintaining code after the project finishes?

3.19 Who is going to be using the system?

3.20 What existing functionality needs to be carried over?