**BCIT COMP4908 Project**

**Tsunami Solutions Ltd. SafetyLine Sonim Rugged Phone Application**  
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**Project Overview:**

The SafetyLine service offered by Tsunami Solutions is a package that helps monitors the status of people who work alone in Canada and is currently available for work with Android, iPhone and BlackBerry phones. Although the Sonim XP3340 can currently be configured to work with SafetyLine software, the interface is very basic as there are no prompts or messages if the user successfully contacts SafetyLine. The purpose of this project is to make an application coded in Java ME for the Sonim phone to make this process more user friendly. This will allow Tsunami Solutions to offer a better solution for rugged phone users and tap into an additional market area.

We are building off of and improving an existing project to meet more of these goals. Ideally this will included integrating more phone-specific features.

**Expected Project Completion:**

May 2013

**Requirements of solution:**

The application should include the following features:

* The Application should display intelligence messages when it is active, telling the user what it’s doing and when, as well as notifying him of any errors.
* The Application should be able to connect to a central server to update when its user verifies his safety.

The application should include the following features contingent on time and hardware availability:

* The application should automatically configure the yellow and green buttons on the Sonim phone to speak to the SafetyLine web application.
* The application should be able to use the Sonim Accelerometer and GPS features for enhanced safety.

**Details of what each button should do:**

* The Yellow Button
  + When the yellow button is pressed, it should display “Check-in complete” on the phone if the message was successfully sent to SafetyLine.
  + If the user is not yet logged in, it should instead login and activate the monitoring server for that user.
* Green Button
  + When the green button is held down, it should display “Signed off” on the phone if the message was successfully sent to SafetyLine.

**Project Deliverables:**

* Application source code and build instructions
* Test plans and test results
* User manual for application
* Application demo