**BCIT COMP3908 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.

**Expected Project Completion:**

December 2012

**Requirements of solution:**

The application should include the following features:

* The application for the Sonim XP3340 Sentinel should be eligible to be downloadable through the Sonim "app store".
* The application should be able to toggle the Man Down feature of the XP3340 on and off.
* The application should automatically configure the red, yellow and green buttons on the Sonim phone to speak to the SafetyLine web application.
* The application should give the user a confirmation message whenever a message is sent to the SafetyLine web application.

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

* The Red Button
  + When the red button is pressed, it should display “Emergency Response Centre called” on the phone if the message was successfully sent to SafetyLine.
* 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.
* 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.
* ‘5’ Button
  + When the ‘5’ button is held down, the “Man-down” function will be toggled on or off with a message being displayed to notify the user.

**Project Deliverables:**

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