

Program Documentation: Mobile DYSWIS Spring 2012

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1. Minimum System Requirements

1.1. Mobile DYSWIS

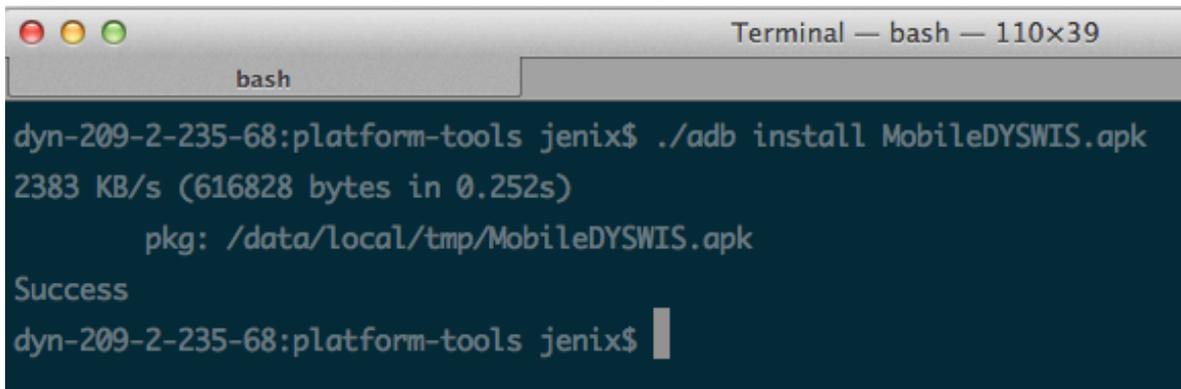
- Android 2.3.3 or newer version
- Bluetooth 2.0 or newer version

2. How to install the application

2.1. Install APK file

The Android application is packaged into the APK file. This APK file can be installed on the Android device by the 'adb' command in the terminal. (The 'adb' command is provided by the Android SDK.) (Figure 2.1)

Figure 2.1 - How to install the APK file of the mobile DYSWIS



2.2. Build and Install from the source files

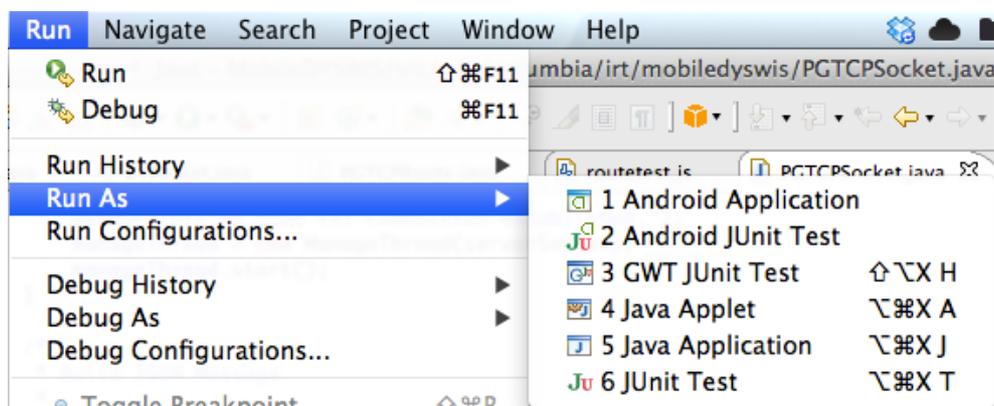


Figure 2.2 Build and run the mobile DYSWIS in Eclipse

First, open the mobile DYSWIS project in Eclipse. Select the 'Run' menu, and select 'Android Application' under the 'Run As' menu item.

3. How to run the application

3.1. Run the Desktop DYSWIS

Before running the mobile DYSWIS, check whether the desktop DYSWIS is running or not. The mobile DYSWIS requires the desktop DYSWIS to diagnose networks. In addition, the desktop DYSWIS should have the Bluetooth device, and support the Bluetooth stack 2.0 or newer version.

3.2. Run the Mobile DYSWIS

After launching the desktop DYSWIS, run the mobile DYSWIS.

3.2.1. Connect the Bluetooth

Before starting the diagnostic modules, connect to the desktop DYSWIS via the Bluetooth first. By tapping the 'List Bluetooth Devices' button, you can start discovering the Bluetooth devices. (Figure 3.1)

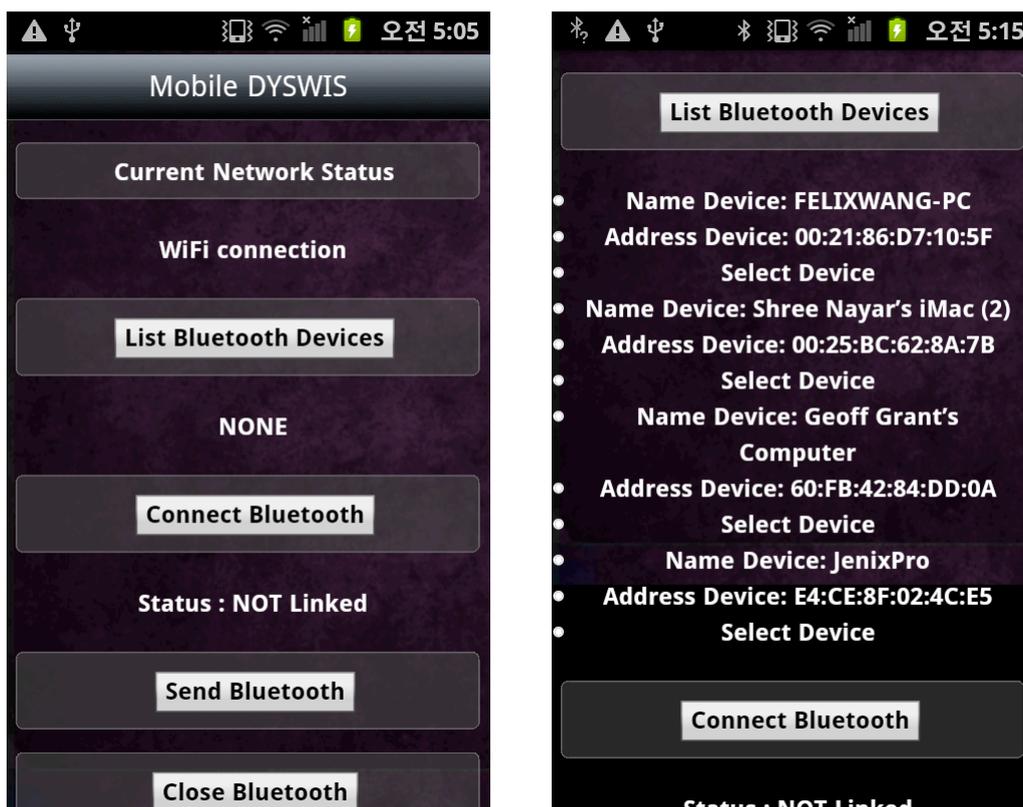


Figure 3.1 - Discovering the Bluetooth devices and connect

When the mobile DYSWIS gives the results, you can connect the machine by tapping the 'Select Device' button.

3.2.2. Run the diagnostic module

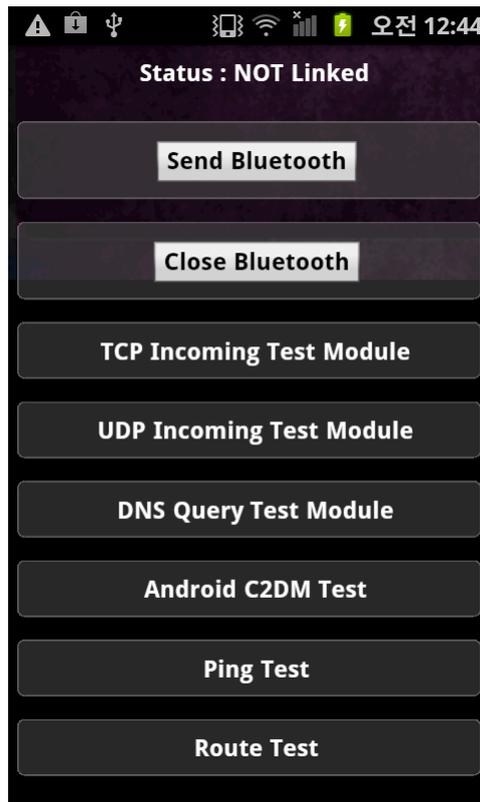


Figure 3.1 - The mobile DYSWIS's modules

Figure 3.1 shows the mobile DYSWIS modules. After making the Bluetooth connection, we can run each module by tapping the module button.

4. Additional Information

The mobile DYSWIS is the hybrid application, which is created with HTML5 and JavaScript. This is the list of what libraries the mobile DYSWIS uses

- WebView Framework for the Android
- PhoneGap 1.5.0
- JQuery Mobile 1.4.2

Program Documentation Revision History

Name	Date	Reason for Changes	Version
Jin Hyung Park	05/09/12	Initial Release	1.0