

Setting up Android Developer Environment

Here are the steps required to get you started on adding Bluetooth connectivity to your android applications.

- Downloading ADT Bundle – This will install eclipse and the Android SDK
- Integrating HTC Open Sense SDK – This will download and link the necessary libraries.
- Opening up QSK Sample – Build and compile the android Hello Bluetooth Client included in the Quick Start Kit
- Install and run the app on the device

Pre- Requisites
















- Make sure you have download the quick start kit and created a folder called 'Bluetooth' where you can store and maintain your downloads.
- You will need to download the JRE (Java Runtime Environment) to run eclipse and the SDK properly. You can download it from [here](#)
- Choose your Download, choose the .exe and check "Accept License Agreement"

Java Platform, Standard Edition		
Java SE 7u17 This release includes important security fixes. Oracle strongly recommends that all Java SE 7 users upgrade to this release. Learn more ▶	JDK DOWNLOAD ↓	JRE DOWNLOAD ↓
"What Java Do I Need?" You must have a copy of the JRE (Java Runtime Environment) on your system to run Java applications and applets. To develop Java applications and applets, you need the JDK (Java Development Kit), which includes the JRE.	JDK 7 Docs <ul style="list-style-type: none">▪ Installation Instructions▪ ReadMe▪ Release Notes▪ Oracle License▪ Java SE Products▪ Third Party Licenses▪ Certified System Configurations	JRE 7 Docs <ul style="list-style-type: none">▪ Installation Instructions▪ ReadMe▪ Release Notes▪ Oracle License▪ Java SE Products▪ Third Party Licenses▪ Certified System Configurations

Java SE Runtime Environment 7u17

You must accept the [Oracle Binary Code License Agreement for Java SE](#) to download this software.

☐ Accept License Agreement ☒ Decline License Agreement

Product / File Description	File Size	Download
Linux x86	54.71 MB	 jre-7u17-linux-i586.rpm
Linux x86	45.9 MB	 jre-7u17-linux-i586.tar.gz
Linux x64	52.85 MB	 jre-7u17-linux-x64.rpm
Linux x64	44.63 MB	 jre-7u17-linux-x64.tar.gz
Mac OS X x64	50.36 MB	 jre-7u17-macosx-x64.dmg
Mac OS X x64	46.68 MB	 jre-7u17-macosx-x64.tar.gz
Solaris x86	45.43 MB	 jre-7u17-solaris-i586.tar.gz
Solaris SPARC	48.73 MB	 jre-7u17-solaris-sparc.tar.gz
Solaris SPARC 64-bit	17.42 MB	 jre-7u17-solaris-sparcv9.tar.gz
Solaris x64	14.85 MB	 jre-7u17-solaris-x64.tar.gz
Windows x86 Online	0.86 MB	 jre-7u17-windows-i586-iftw.exe
Windows x86 Offline	30.06 MB	 jre-7u17-windows-i586.exe
Windows x86	39.77 MB	 jre-7u17-windows-i586.tar.gz
Windows x64	31.47 MB	 jre-7u17-windows-x64.exe
Windows x64	41.49 MB	 jre-7u17-windows-x64.tar.gz

Step 1: Downloading ADT Bundle

With a single download, the ADT Bundle includes everything you need to begin developing apps: [Download the SDK](#) (ADT bundle)

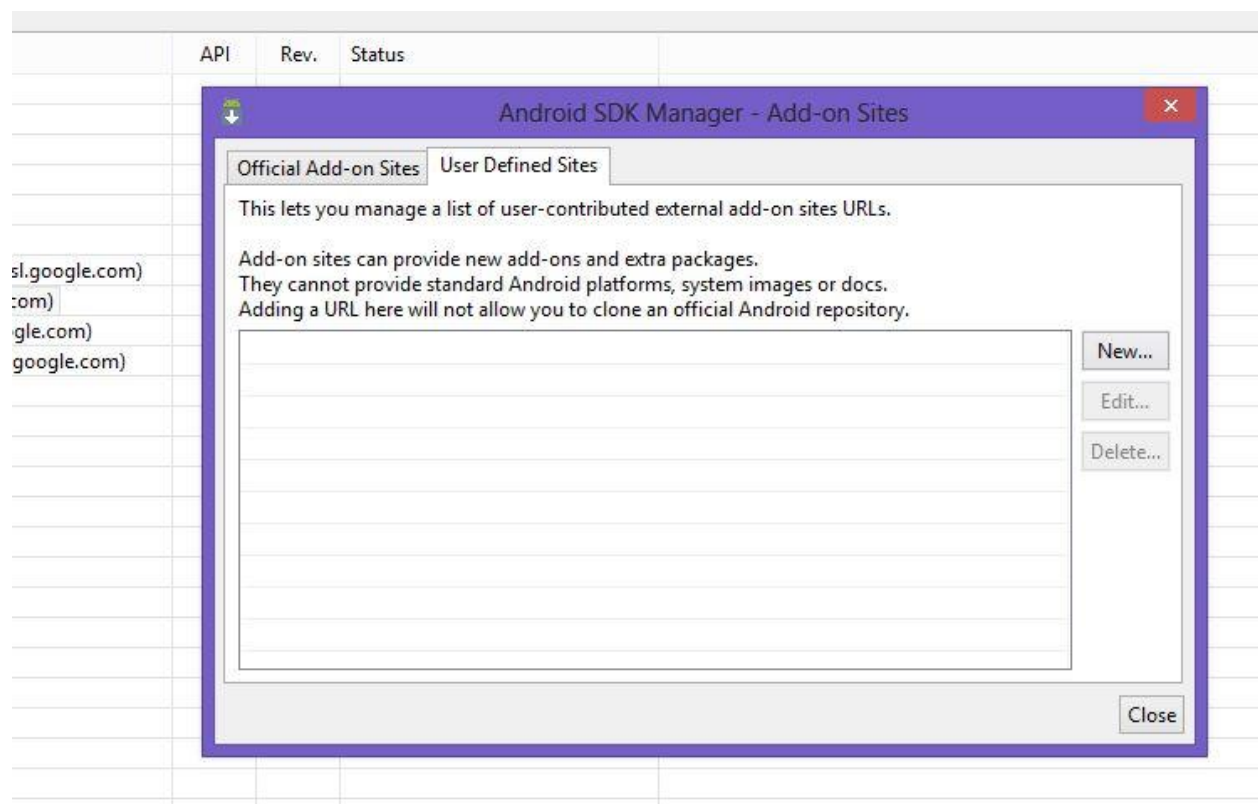
- Eclipse + ADT plugin
- Android SDK Tools
- Android Platform-tools
- The latest Android platform
- The latest Android system image for the emulator

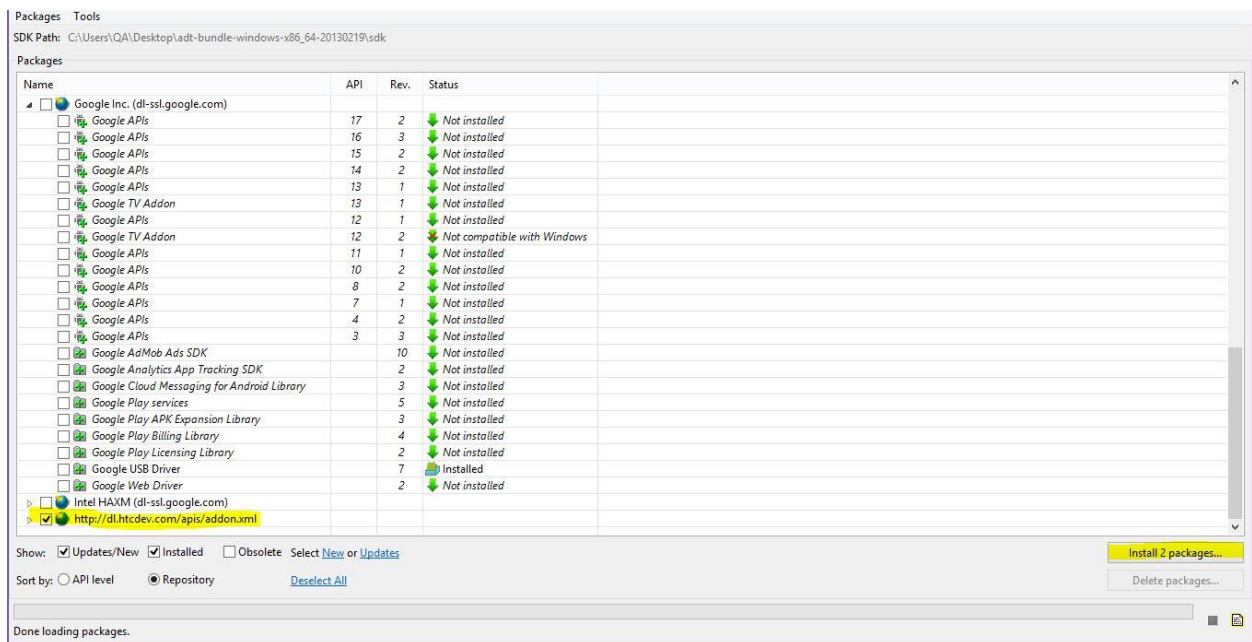
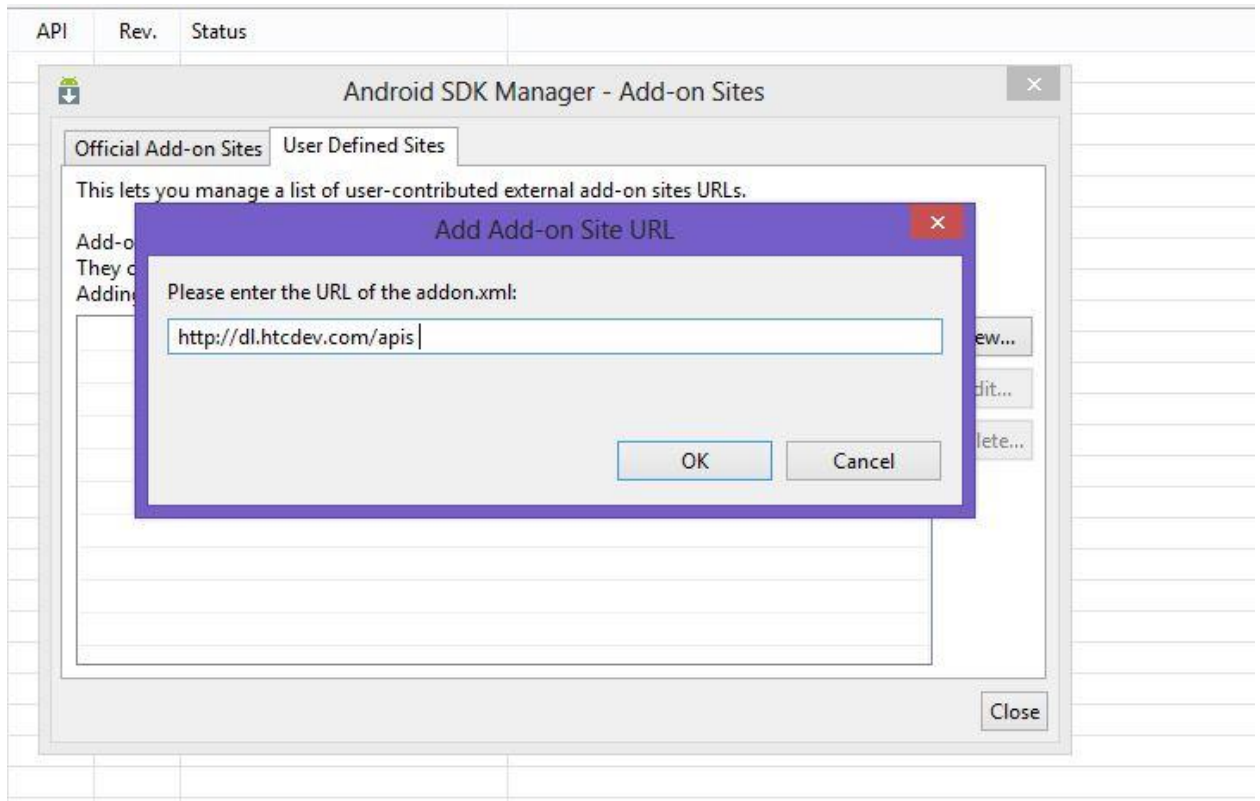


Step 2: Integrating HTC Open sense SDK

To download the SDK from within the Android SDK manager, follow the steps below:

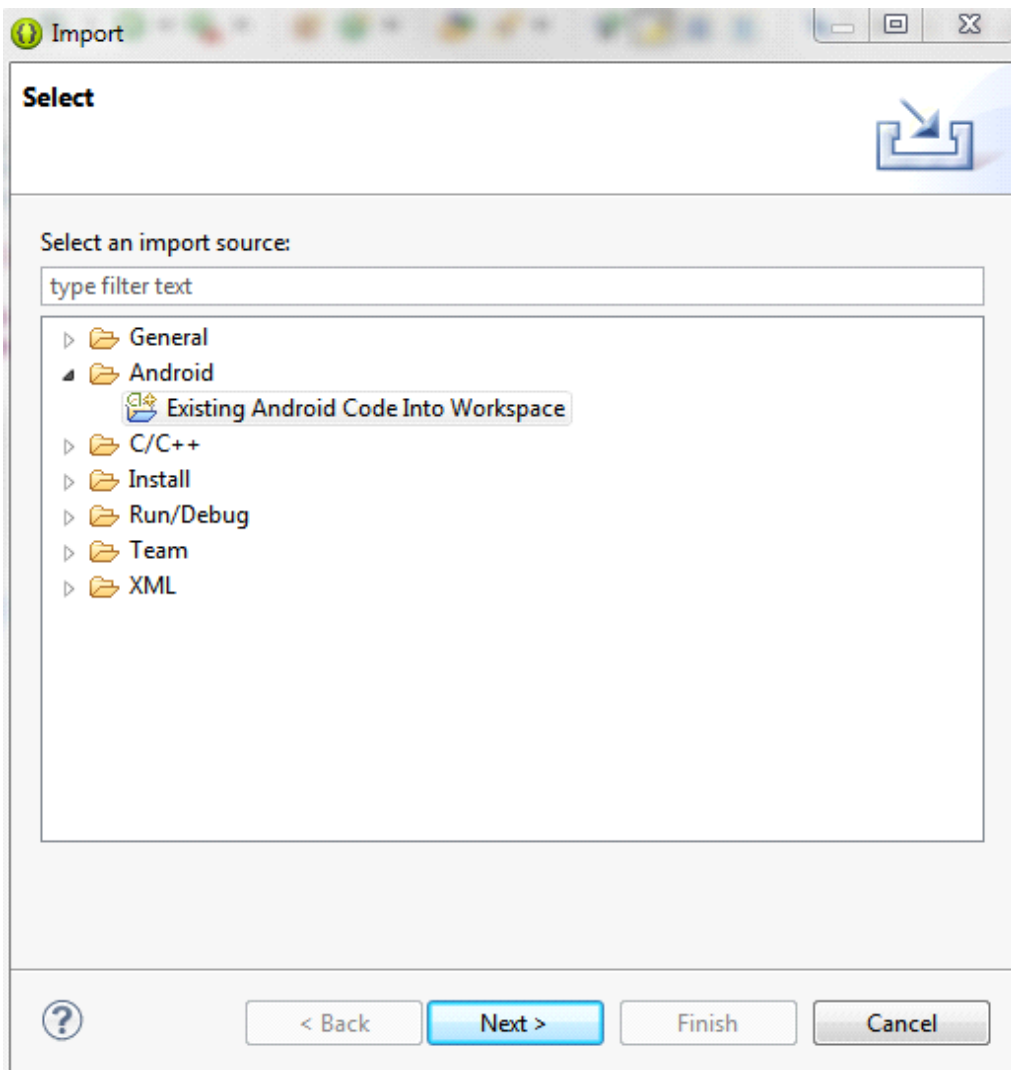
- Launch the Android SDK Manager (Eclipse menu: window->Android SDK Manager)
- Select Tools -> 'Manage Add on Site'
- Select 'User Defined Sites'
- Click New.
- When prompted for the Add-on URL, please provide the following URL:
<http://dl.htcdev.com/apis>
- After Pressing Close. Click Repository in the SDK Manager, and Scroll down to the Broadcom URL above, check and install that one package.






Step 3: Opening up QSK Sample


- Open up Eclipse
- Import Project (File->Import) and select Android (Existing Android code into workspace)
- Browse to the download QuickStartKit\SourceCode_HelloBluetooth\android_HelloBluetoothClient, select 'HelloBLE' and finish
- Open up properties of the project and check 'Open Bluetooth Low-Energy API' to Project Build Target. Then Click "Apply".
- Add External JAR file (point to the <<adt-bundle-windows\sdk\add-ons\addon-open_bluetooth_low-energy_api-broadcom-10\libs\com.broadcom.bt.le.jar).
- Build the project (Project->Build)





Import Projects

Select a directory to search for existing Android projects



Root Directory: C:\Users\QA\Desktop\BLEQuickStartKit

Browse...

Projects:

Project to Import	New Project Name
<input checked="" type="checkbox"/> BLEQuickStartKit\SourceCode_H...	HelloBLE

Select All

Deselect All

Refresh


☐ Copy projects into workspace

Working sets

☐ Add project to working sets

Working sets:

Select...

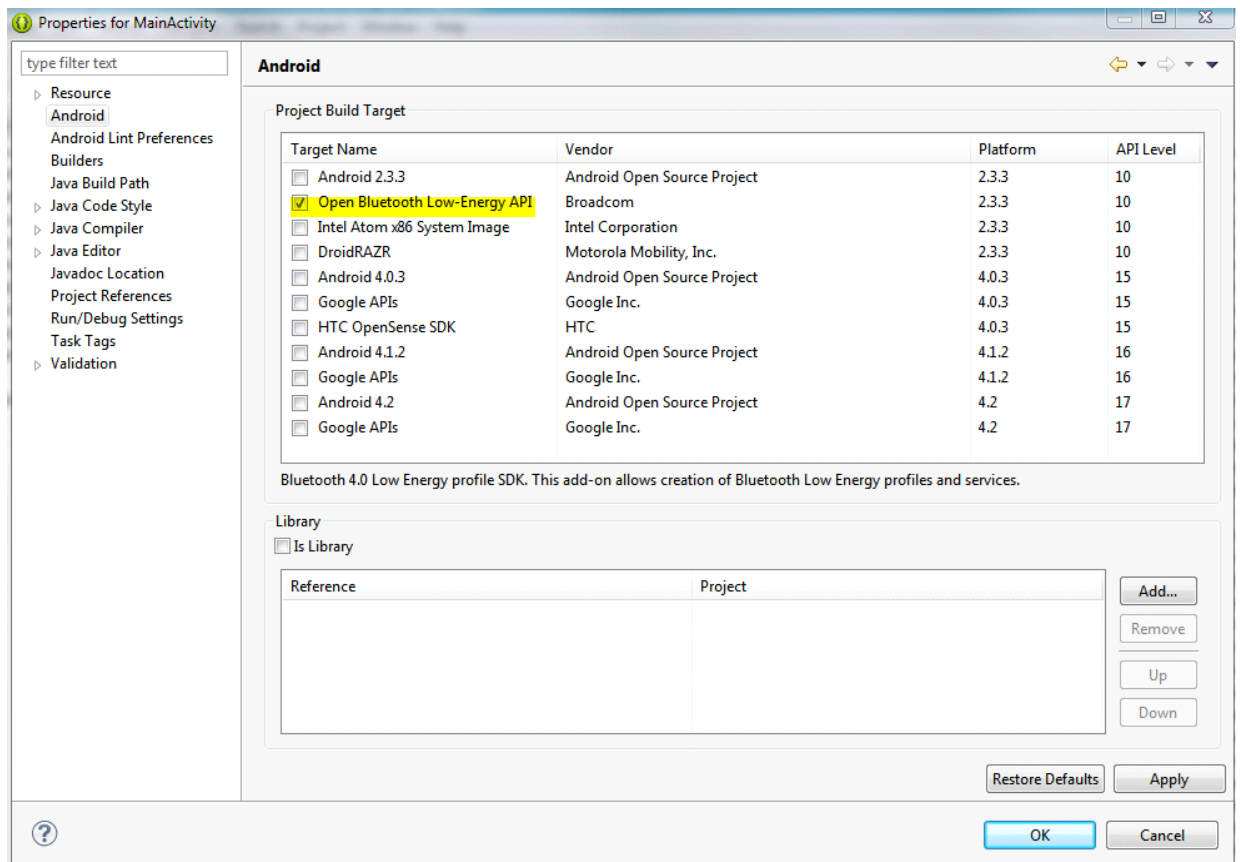


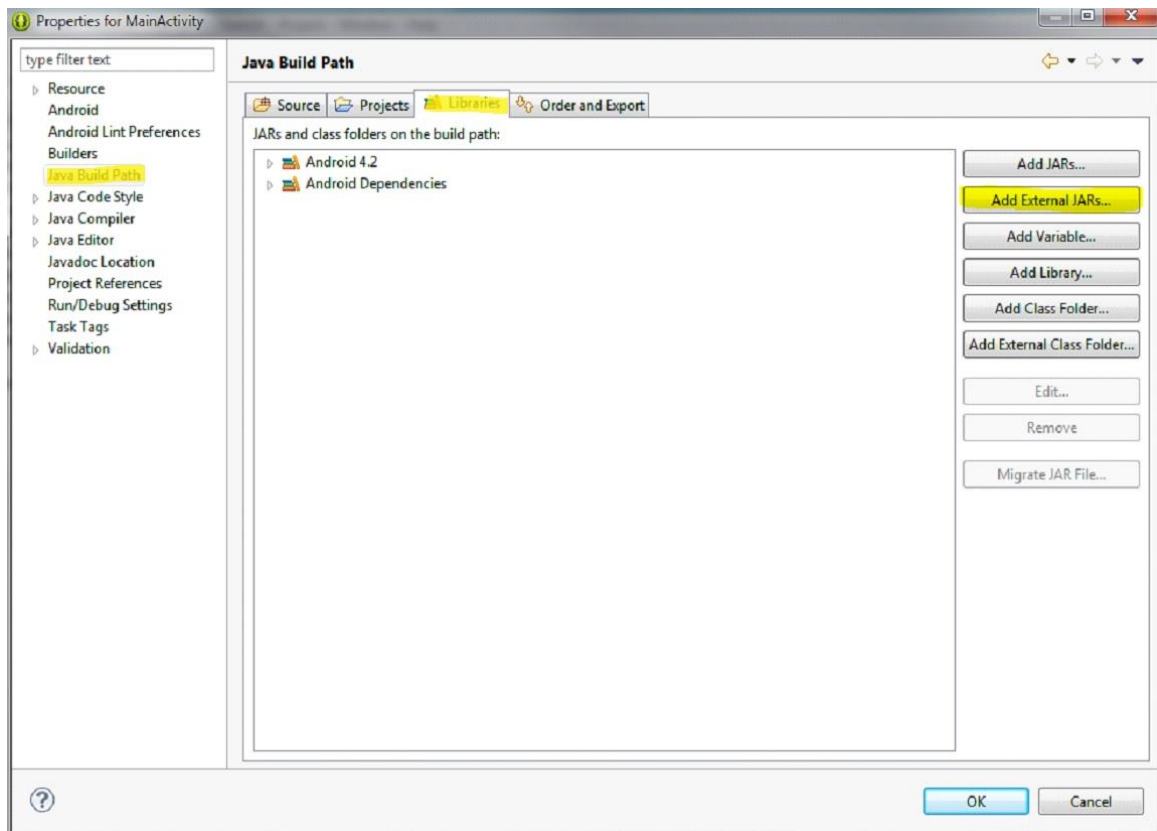
< Back

Next >

Finish

Cancel





Step 4: Installing the App on the Device

- Attach your device (this was tested with HTC One X+). Make sure you turn on the Developer options (Settings->Developer Options)
- Install the app on the phone by pressing Ctrl+F11