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Managing AVDs with AVD Manager

The AVD Manager is an easy to use user interface to manage your AVD (Android Virtual Device) configurations. An AVD is a device configuration for the Android emulator that allows you to model different configurations of Android-

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powered devices. When you start the AVD Manager in Eclipse or run the android tool on the command line, you will see the AVD Manager as shown in figure 1:

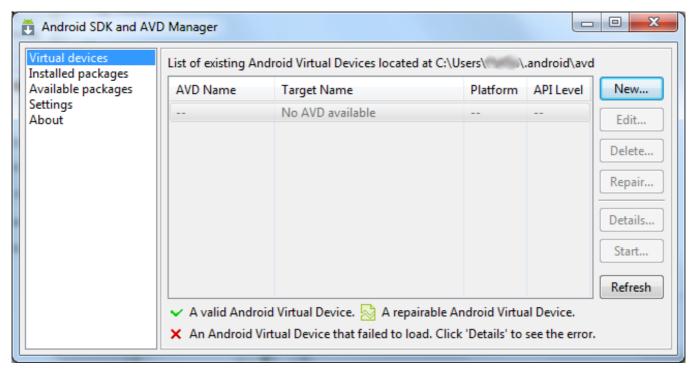


Figure 1. Screenshot of the AVD Manager.

From the main screen, you can create, delete, repair and start AVDs as well as see the details of each AVD.

Creating an AVD

You can create as many AVDs as you would like to test on. It is recommended that you test your applications on all API levels higher than the target API level for your application.

To create an AVD:

- 1. Start the AVD Manager:
 - In Eclipse: select **Window > Android SDK and AVD Manager**, or click the Android SDK and AVD Manager icon in the Eclipse toolbar.
 - In other IDEs: Navigate to your SDK's tools/ directory and execute the android tool with no arguments.
- 2. In the *Virtual Devices* panel, you'll see a list of existing AVDs. Click **New** to create a new AVD. The **Create New AVD** dialog appears.

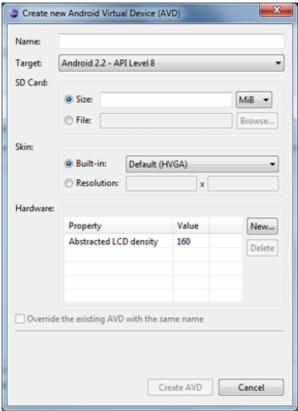


Figure 2. Screenshot of the Create AVD window

3. Fill in the details for the AVD.

Give it a name, a platform target, an SD card size, and a skin (HVGA is default). You can also add specific hardware features of the emulated device by clicking the **New...** button and selecting the feature. For a list of hardware features, see <u>Hardware options</u>.

Note: Be sure to define a target for your AVD that satisfies your application's Build Target (the AVD platform target must have an API Level equal to or greater than the API Level that your application compiles against).

4. Click Create AVD.

Your AVD is now ready and you can either close the SDK and AVD Manager, create more AVDs, or launch an emulator with the AVD by selecting a device and clicking **Start**.

Hardware options

If you are creating a new AVD, you can specify the following hardware options for the AVD to emulate:

mount of physical RAM on the device, in bytes. Default value is "96". Therefore is a touch screen or not on the period bytes. Default value is "yes". Therefore is a trackball on the device. Default s "yes".	hw.ramSize hw.touchScreen hw.trackBall
Default value is "yes". ner there is a trackball on the device. Default	
	hw.trackBall
ner the device has a QWERTY keyboard. t value is "yes".	hw.keyboard
ner the device has DPad keys. Default value is	hw.dPad
	hw.gsmModem
	t value is "yes". Her the device has DPad keys. Default value is the device has a GSM modem in the device. It value is "yes".

Camera support	Whether the device has a camera. Default value is "no".	hw.camera
Maximum horizontal camera pixels	Default value is "640".	hw.camera.maxHorizontalPixels
Maximum vertical camera pixels	Default value is "480".	hw.camera.maxVerticalPixels
GPS support	Whether there is a GPS in the device. Default value is "yes".	hw.gps
Battery support	Whether the device can run on a battery. Default value is "yes".	hw.battery
Accelerometer	Whether there is an accelerometer in the device. Default value is "yes".	hw.accelerometer
Audio recording support	Whether the device can record audio. Default value is "yes".	hw.audioInput
Audio playback support	Whether the device can play audio. Default value is "yes".	hw.audioOutput
SD Card support	Whether the device supports insertion/removal of virtual SD Cards. Default value is "yes".	hw.sdCard
Cache partition support	Whether we use a /cache partition on the device. Default value is "yes".	disk.cachePartition
Cache partition size	Default value is "66MB".	disk.cachePartition.size
Abstracted LCD density	Sets the generalized density characteristic used by the AVD's screen. Default value is "160".	hw.lcd.density
Trackball support	Whether there is a trackball present.	hw.trackBall

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