

Android Bluetooth

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Android Versions

Android was release in version 1.0 without the Bluetooth support. The API was yanked out of the final release at the last minute. The reason was that the development team felt they didn't have the time to complete it properly and didn't want to commit to half-fast API.

Android Versions

Android 2.0 (SDK level 5) finally brings the official support for the Bluetooth. It is offered via `android.bluetooth` package.

Note that the emulator still doesn't support Bluetooth emulation.

Access to Bluetooth

The main access to Bluetooth is done via the **BluetoothAdapter**. The adapter, returned via **getDefaultAdapter()** static method, offers access to various devices.

```
BluetoothAdapter bluetoothAdapter;
```

```
bluetoothAdapter =
```

```
BluetoothAdapter.getDefaultAdapter();
```

Discover devices

The `startDiscovery()` method on the adapter will start the discovery of other discoverable devices. It is a synchronous call that can take some time to complete.

```
bluetoothAdapter.startDiscovery();
```

List devices (1)

To get the list of all the devices that have been paired with the local device, use:

`bluetoothAdapter.getBondedDevices()`.

```
set<BluetoothDevice> device =  
    bluetoothAdapter.getBondedDevices();
```

List devices (2)

```
onReceive(Context context, Intent intent) {  
    // TODO Auto-generated method stub  
    if(BluetoothDevice.ACTION_FOUND.equals(intent.getAction())) {  
        BluetoothDevice device =  
            intent.getParcelableExtra(BluetoothDevice.EXTRA_DEVICE);  
        btArrayAdapter.add(device.getName() + "\n" +  
            device.getAddress());  
    }  
}
```

onReceive needs:

- Register a BroadcastReceiver to be run in the main activity thread. The *receiver* will be called with any broadcast Intent that matches *filter*, in the main application thread.
- registerReceiver(ActionFoundReceiver,
new IntentFilter(BluetoothDevice.ACTION_FOUND));

**public Intent registerReceiver (BroadcastReceiver
receiver, IntentFilter filter)**

In manifest add

```
<uses-permission  
    android:name="android.permission.BLUETOOTH" />
```

```
<uses-permission  
    android:name="android.permission.BLUETOOTH_ADMIN" />  
</application>
```