## Broadcast Receiver Network connectivity example

```
public void onReceive(Context context, Intent intent) {
 if (intent.getAction().equals("android.net.conn.CONNECTIVITY CHANGE")) {
     ConnectivityManager cm =
             (ConnectivityManager) context.getSystemService(Context.CONNECTIVITY SERVICE);
     NetworkInfo activeNetwork = cm.getActiveNetworkInfo();
     boolean isConnected = activeNetwork != null &&
             activeNetwork.isConnected();
     if (isConnected) {
         boolean isWiFi = activeNetwork.getType() == ConnectivityManager.TYPE WIFI;
         try {
             if (isWiFi) {
                 WifiManager mainWifi = (WifiManager) context.getSystemService(Context.WIFI SERVICE);
                 WifiInfo currentWifi = mainWifi.getConnectionInfo();
                 String name = currentWifi.getSSID();
                 String m = currentWifi.getMacAddress();
                //Toast.makeText(context, "connected to "+name, Toast.LENGTH LONG).show();
                 txt.setText("connected to " + name +". Mac@ is "+ m);
             } else if (activeNetwork.getType() == ConnectivityManager.TYPE MOBILE) {
                //Toast.makeText(context, "connected to 3G", Toast.LENGTH LONG).show();
                 txt.setText("Connected to 4G");
         } catch (Exception e) {
            //Toast.makeText(context, "Exception: "+e.getMessage(), Toast.LENGTH LONG).show();
             //e.printStackTrace();
     } else {
         //Toast.makeText(context, "Disconnected from network", Toast.LENGTH LONG).show();
```

You may need to add some permissions to the manifest file

```
<manifest xmlns:android="http://schemas.android.com/apk/res/android" package="com.example.android.wifidirect"</pre>
 android:versionCode="1" android:versionName="1.0">
<!-- runtime permission check API is on Android 6.0 or higher -->
<uses-sdk android:minSdkVersion="23" />
<uses-permission android:name="android.permission.ACCESS WIFI STATE" />
<uses-permission android:name="android.permission.CHANGE WIFI STATE" />
<uses-permission android:name="android.permission.CHANGE NETWORK STATE" />
<uses-permission android:name="android.permission.INTERNET" />
<uses-permission android:name="android.permission.ACCESS NETWORK STATE" />
<uses-permission android:name="android.permission.READ PHONE STATE" />
<uses-permission android:name="android.permission.WRITE EXTERNAL STORAGE" />
<uses-permission android:name="android.permission.ACCESS COARSE LOCATION" />
<receiver
    android:name=".NetworkReceiver"
    android:enabled="true"
    android:exported="true">
    <intent-filter>
      <action android:name="android.net.conn.CONNECTIVITY CHANGE" />
    </intent-filter>
</receiver>
```