## Android Open Accessory Device Configuration

1. Establish a UsbManager variable

```
manager = (UsbManager) getSystemService(Context.USB SERVICE);
```

- 2. Detect connected accessories
  - a. Option 1: Intent filter Automatically queries user for a compatible app to handle the intent, which grants permission until the accessory is detached, unless the app is set to launch by default.

Snippet from accessory filter.xml

b. Option 2: Enumerate connected accessories – Explicitly request permission for accessories

3. Open accessory and setup input/output streams

```
fileDescriptor = manager.openAccessory(accessory);
if ( fileDescriptor != null ) {
    this.accessory = accessory;
    FileDescriptor fd = fileDescriptor.getFileDescriptor();
    inputStream = new FileInputStream(fd);
    outputStream = new FileOutputStream(fd);
}
```