

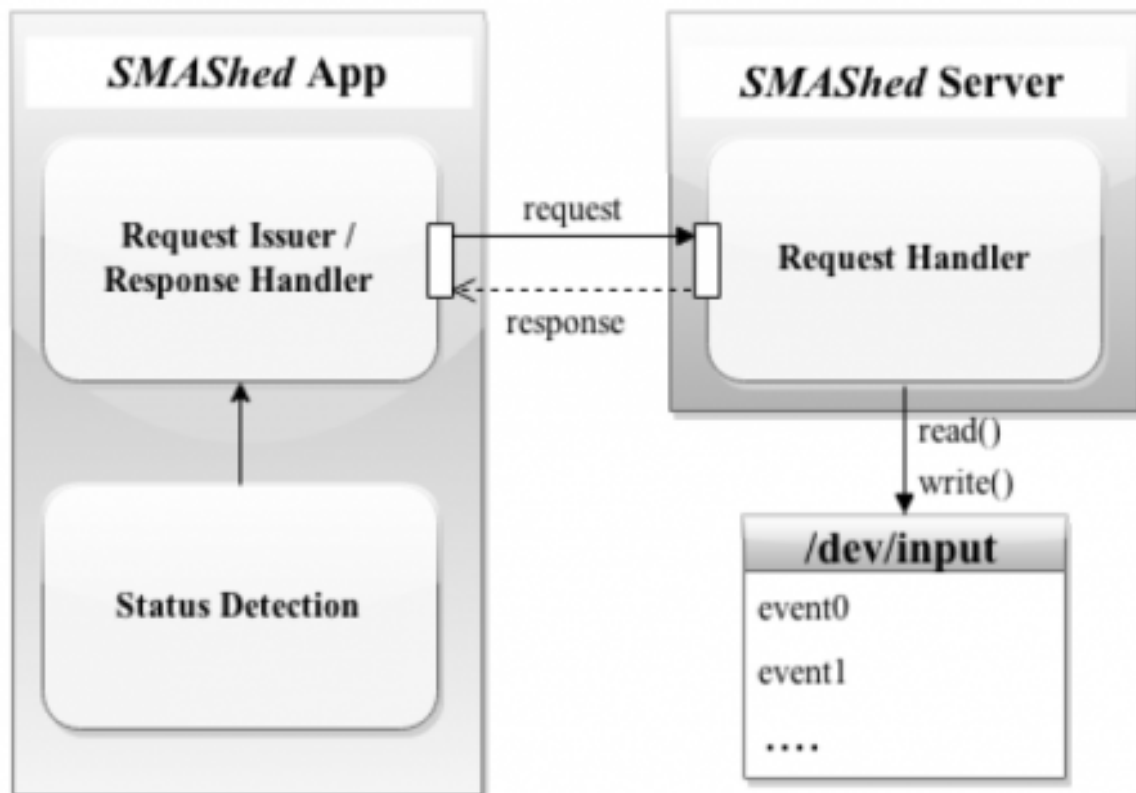
# SMASheD: Sniffing and Manipulating Android Sensor Data

MAR 18TH, 2016

## 摘要

- 现在的传感器的安全模型主要是限制APP能访问的传感器或者在安装的时候限制了相关的权限
- 作者发现，可以利用安卓手机（不需要ROOT）中ADB的，能够使得APP在只有访问网络的权限下，实施读取传感器数据、劫持点击、篡改传感器数据等攻击
- 作者根据上述问题，开发了一个合法的APP，能够正常的实施攻击。

## SMASheD



- Server:模拟了adb的命令getevent，sendevent

Listing 2: Sample output from running *getevent* for a single press release

```

[69934.435503] EV_ABS ABS_MT_TRACKING_ID 0000038d
[69934.435533] EV_KEY BTN_TOUCH DOWN
[69934.435564] EV_ABS ABS_MT_POSITION_X 000003b2
[69934.435564] EV_ABS ABS_MT_POSITION_Y 00000607
[69934.435595] EV_ABS ABS_MT_TOUCH_MAJOR 00000012
[69934.435595] EV_ABS ABS_MT_TOUCH_MINOR 00000009
[69934.435625] EV_ABS ABS_MT_WIDTH_MAJOR 00000002
[69934.435625] EV_ABS 003c ffffffff a6
[69934.435778] EV_SYN SYN_REPORT 00000000
[69934.452105] EV_ABS ABS_MT_TOUCH_MAJOR 00000024
[69934.452105] EV_ABS ABS_MT_TOUCH_MINOR 0000001b
[69934.452135] EV_ABS ABS_MT_WIDTH_MAJOR 00000008
[69934.452135] EV_ABS 003c ffffffff fd
[69934.452166] EV_SYN SYN_REPORT 00000000
[69934.462847] EV_ABS 003c 00000000
[69934.462877] EV_SYN SYN_REPORT 00000000
[69934.494371] EV_ABS ABS_MT_TRACKING_ID ffffffff
[69934.494402] EV_KEY BTN_TOUCH UP
[69934.494402] EV_SYN SYN_REPORT 00000000

```

# 攻击

- 嗅探屏幕的点击事件数据
- 点击劫持：在安装恶意APP的时候模拟点击安装、解锁、攻击一些已有的基于生物特征的安全
- 篡改其他的传感器：比如亮光的传感器