App 1   App 2

User Interface

Policy Management

(1)

User Space

Android Permission Check Reference Monitor (First Defensive Line)

(2)   **(3)**   **(4)**

Reference Monitors (Second Defensive Line)

(1)-request is blocked by Android RM

(2)-returned data are blurred by our RMs

(3)-returned data pass through our RMs

(4)-request pass through Android RM, but blocked by our RMs

Accelerometer   Gyroscope

Android Platform

Kernel Space