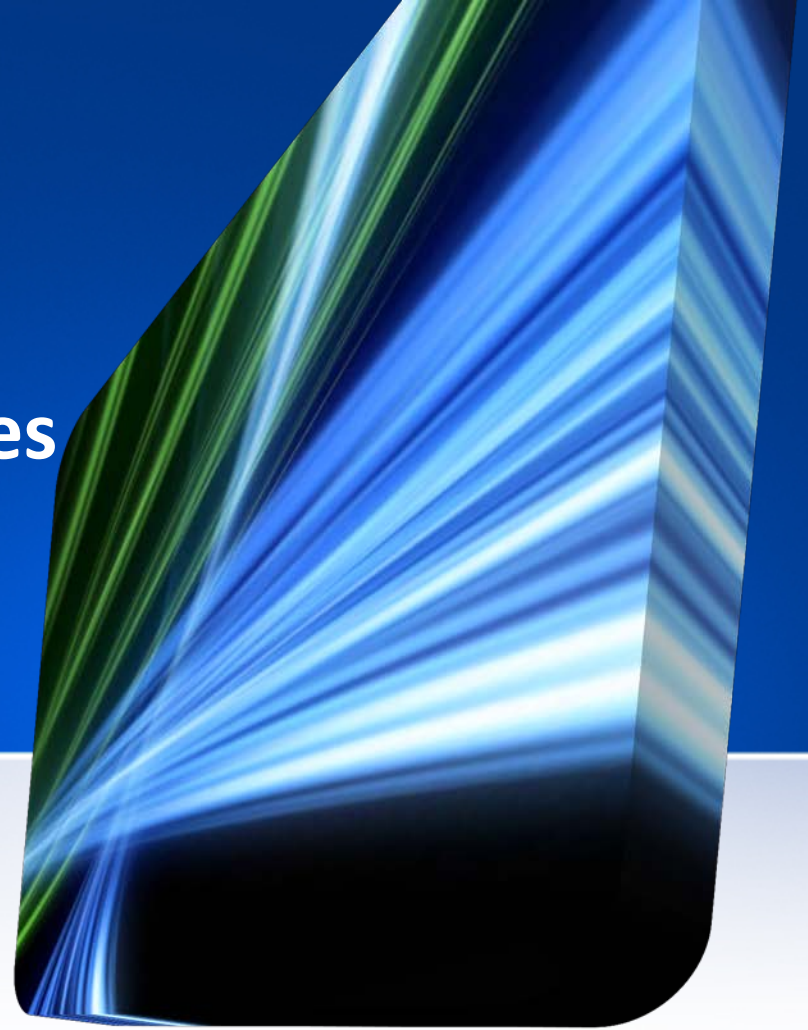


MOSES

Supporting Operation Modes on Smartphones

Giovanni Russello

University of Auckland



Mauro Conti

University of Padua

Bruno Crispo

University of Trento

Earlance Fernandes

Free University of
Amsterdam

Point to take



- The intro slide does not contain enough information to understand where the paper discussed in this presentation was published
- Clearly state the venue of the paper you are presenting

MOSES in a nutshell



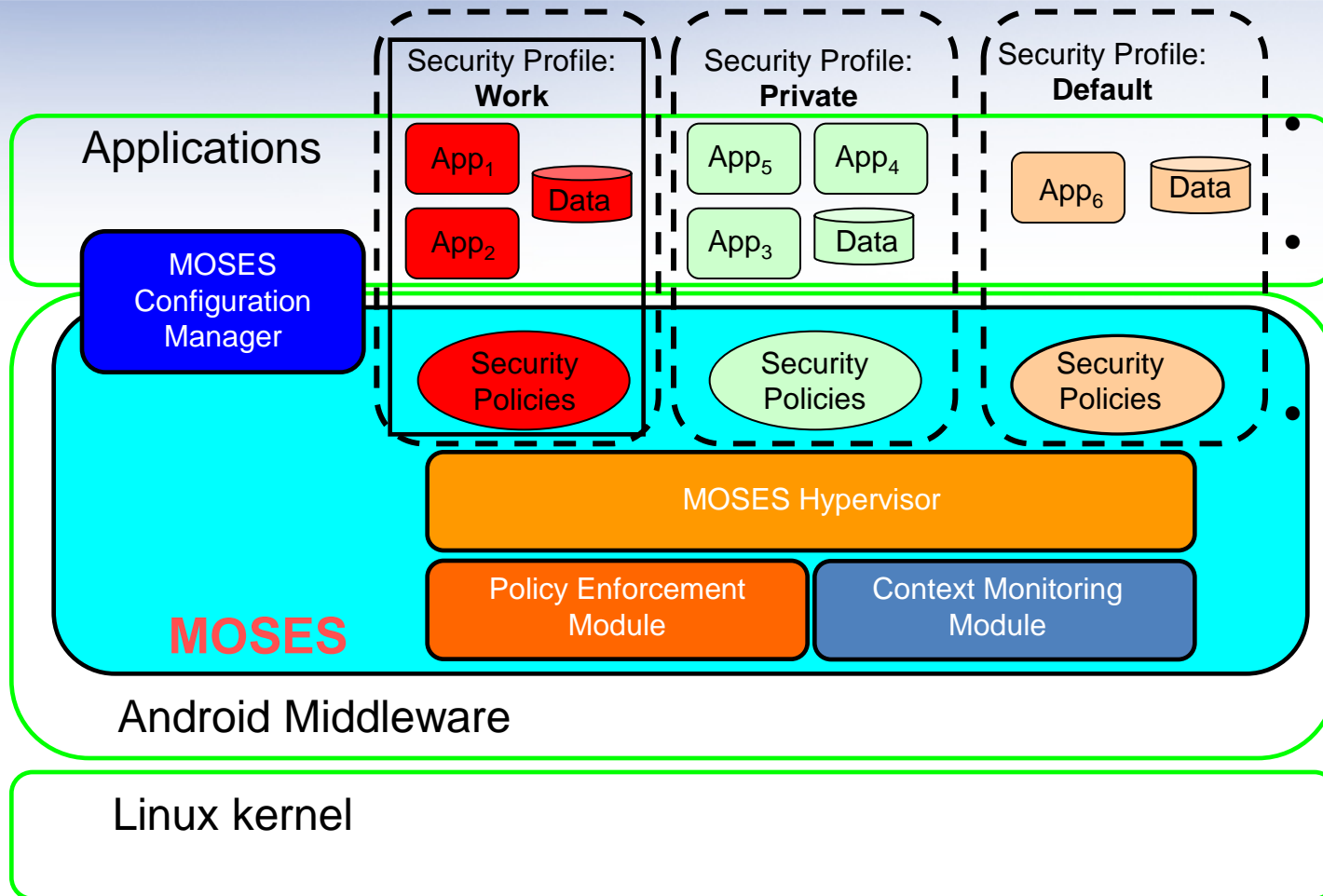
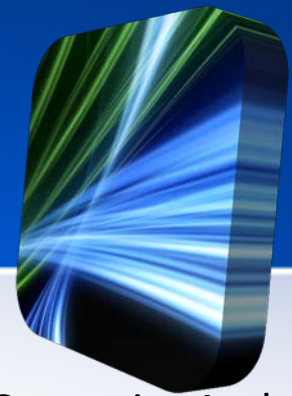
- Android security extensions
- Aim at Bring Your Own Device policy
- Support for distinct ***Security Profiles*** within a device
- A policy-based framework for Android to control the application behaviour
- ***Dynamic switching of Security Profiles based on sensed context***

Point to take



- On slide 3 I have put extra emphasis on the dynamic profile switch but I do not discuss it further

MOSES Architecture



- Overwrite Android permissions
- Data is tainted with labels using TaintDroid
- Extended the taint to include SP name

A Security Profile makes sure that:

- Applications access data within the same profile
- Applications-to-applications communications only within the same profile

Point to take

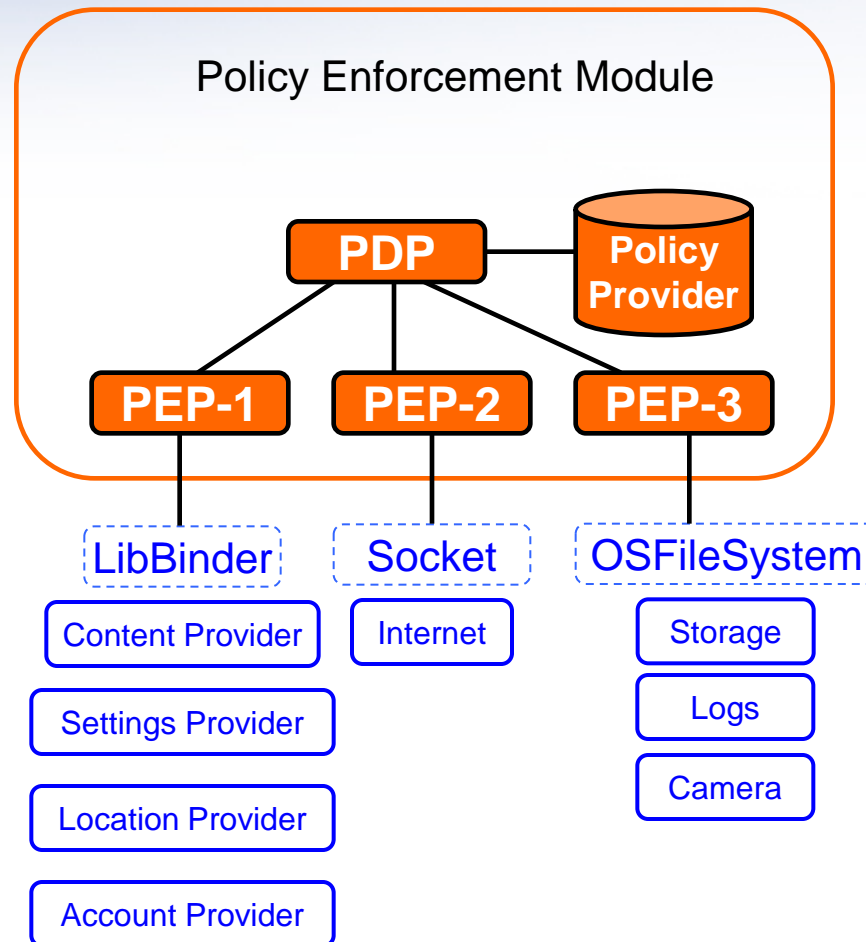


- Slide 5 has too much information
 - Figures and text do not always go together
- Better have one slide extra that overloading your audience

Policy Enforcement Module



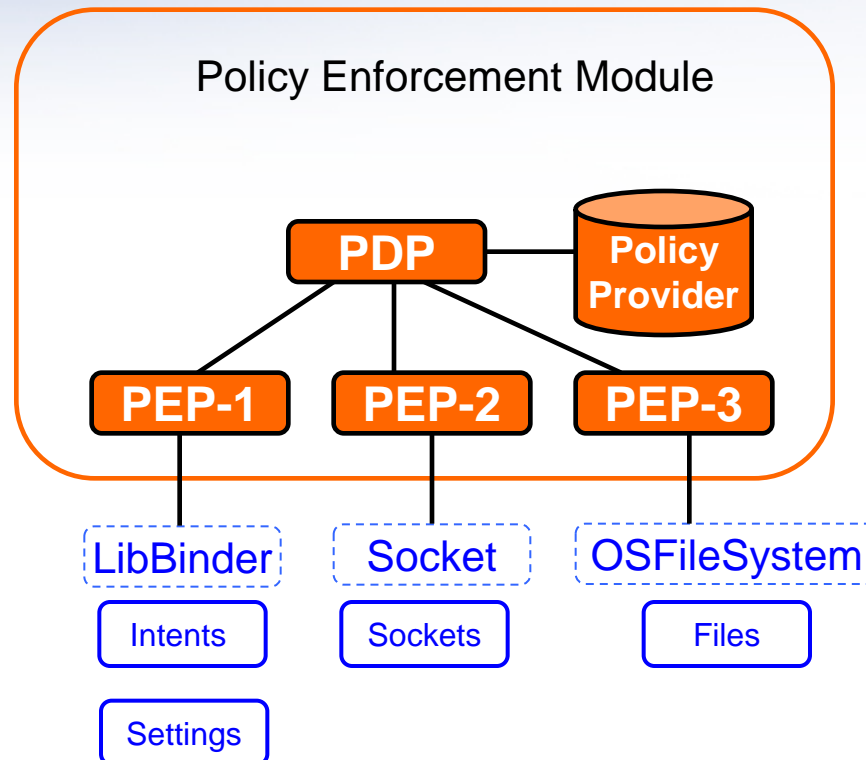
Application to data & resources



Policy Enforcement Module



Application to Application



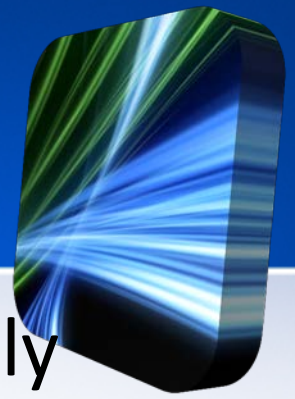
Policy Examples



```
P1: allow to CorpApp Send on Internet
with scope ``Work``
perform
    sendOnlyTo( ``www.smartinc.com`` )
```

```
P2: allow to CorpApp Read on ANY
with scope ``Work``
while location.isActual( ``COMMUTING`` )
and !ANY.level( ``VerySensitive`` )
```

Criticism



- Does the dynamic SP switch helps or is only annoying?
- Who define the context? And what about conflicts?

Point to take



- My criticism is based on a notion that I do not have explained in the presentation
- In this way, it will be quite difficult for your audience to tune in and provide some useful feedback/questions

Questions?

