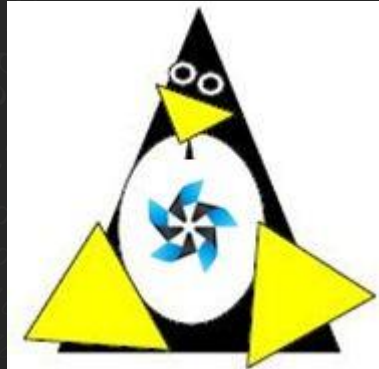
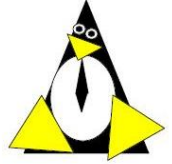


Smack Owns The Internet of Things

Casey Schaufler



OK, I made that up



Tizen is positioned for the IoT

Smack is very important to Tizen

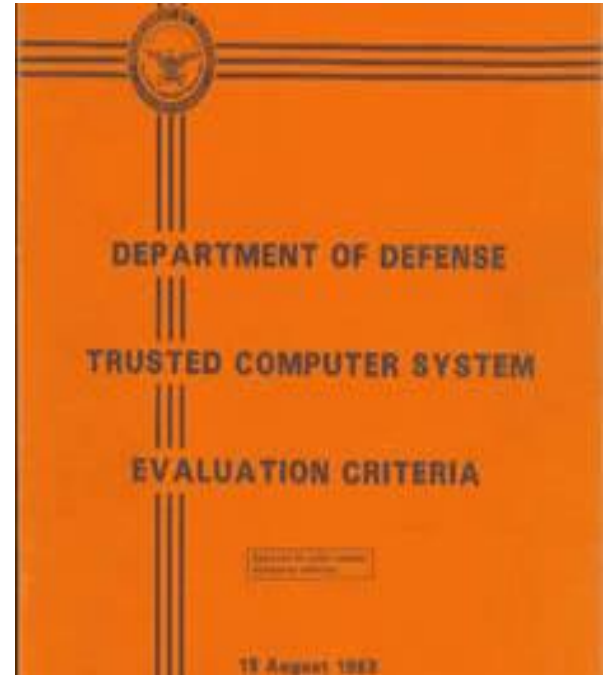


Lessons Learned From Tizen 2

No one knows what most software does

The Orange Book is out of print

Automated configuration is bad

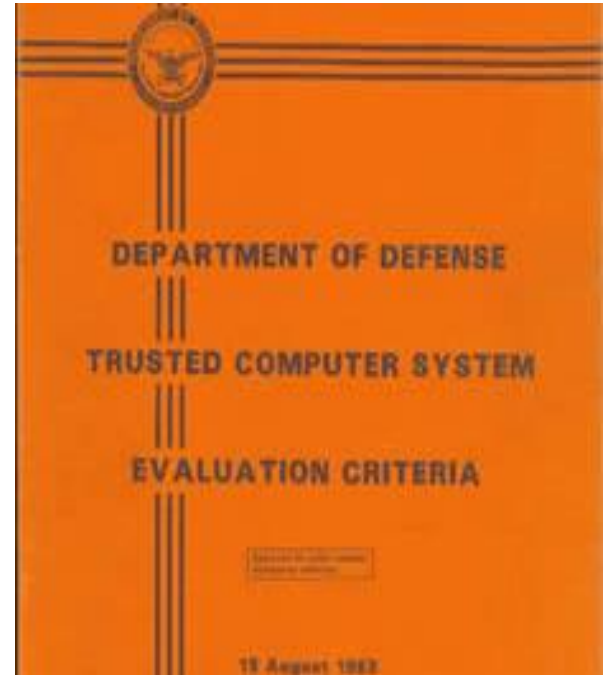


Corrections Made In Tizen 3

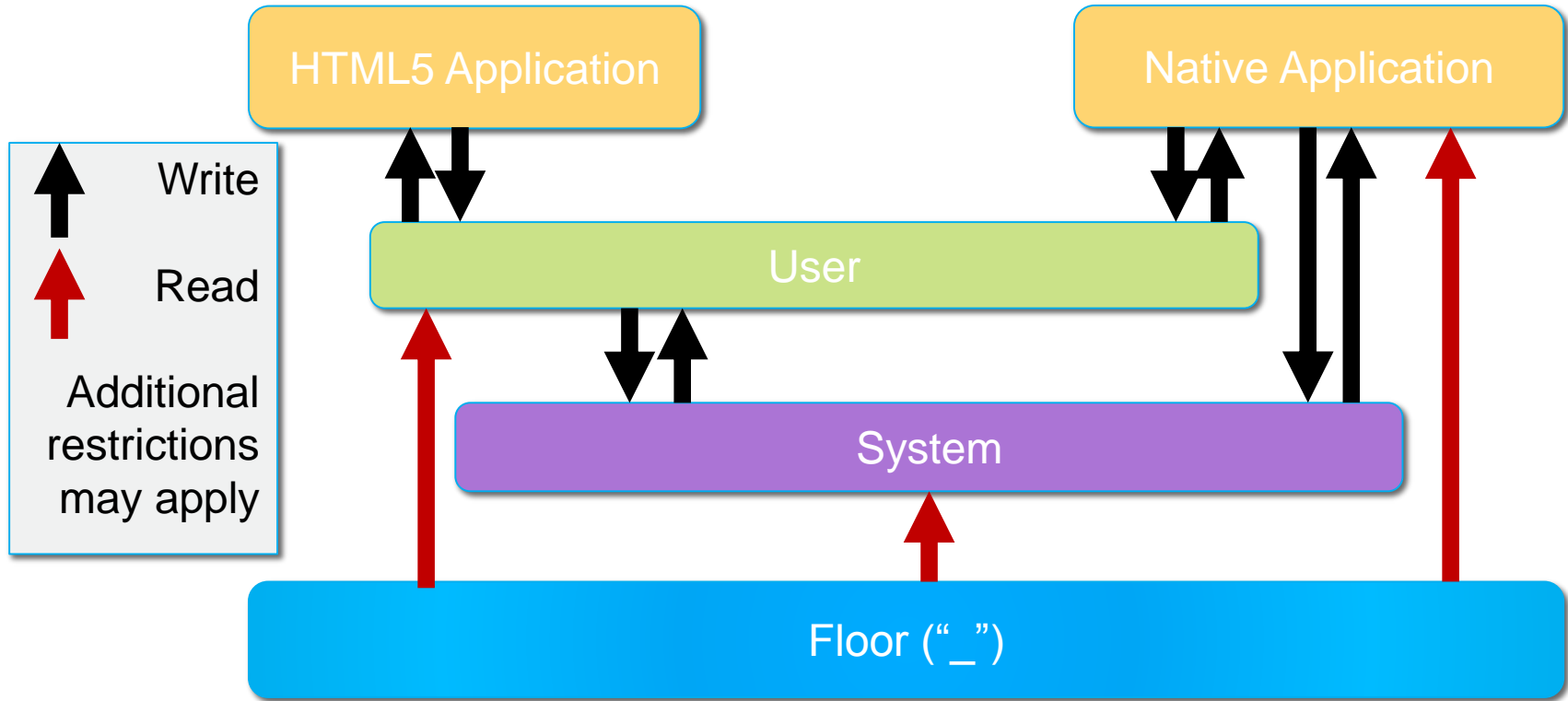
Coarse grained security domains

Application privilege based controls

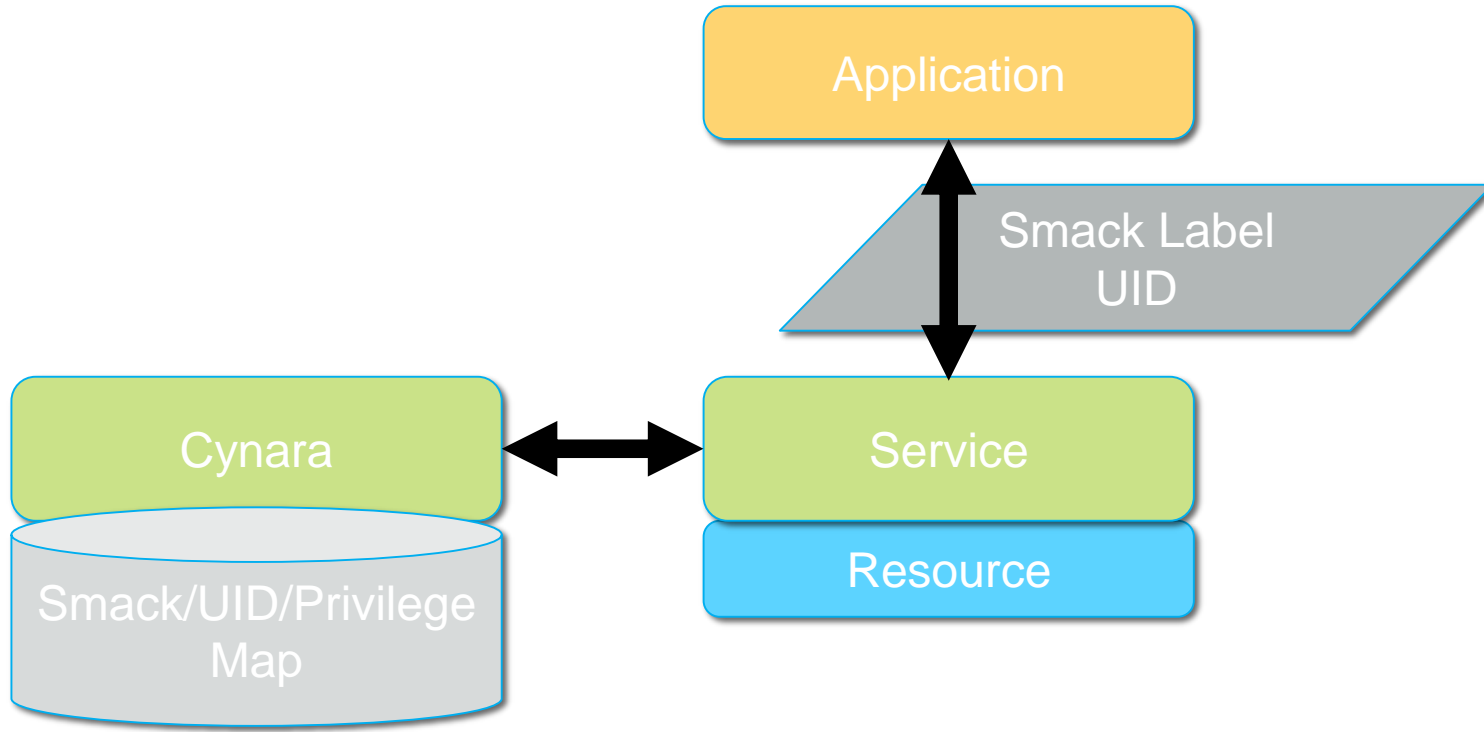
Explicit, designed configuration



Tizen Three Domain Security



Application Checks



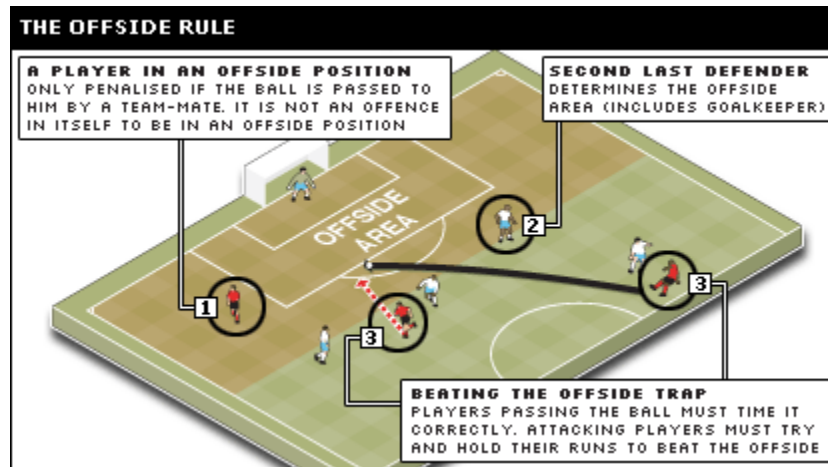
Explicit Security Configuration

Systemd startup labels

Documented list of labels

Documented set of access rules

Map of filesystem labeling



New In Smack

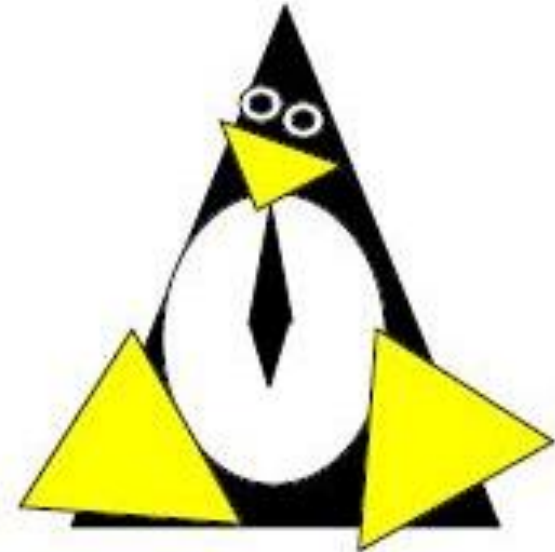
Application support

Systemd

Crosswalk

Lock access mode

Ptrace modes



Coming In Smack

Bring-up access mode

Subject Object rwxatlb

Reports access granted by the rule

Better granularity than permissive mode

Lots more application work

Maybe kdbus

