Smack Owns The Internet of Things

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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

HTML5 Application

Native Application

User

System

Floor (“_”)

Write

Read

Additional restrictions may apply
Application Checks

Cynara

Smack/UID/Privilege Map

Application

Smack Label
UID

Service

Resource
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