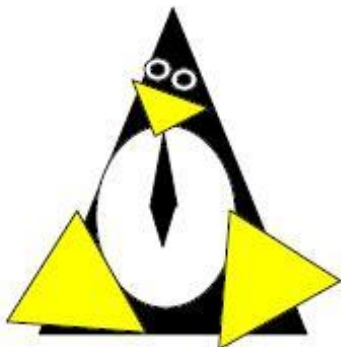


UPSTREAM

# Smack Hits Tizen Tizen Hits Back

Casey Schaufler



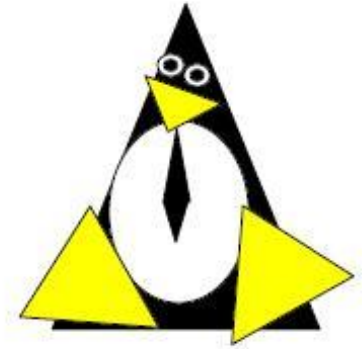
PARTICIPATE

CONTRIBUTE

MAINTAIN

**INTEL OPEN SOURCE  
TECHNOLOGY CENTER**

# Tizen the operating system Smack the security module



## People Have To Make Their Own Mistakes

Security domains based on installation package

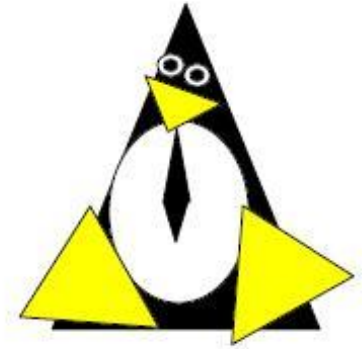
- Fine for 3<sup>rd</sup> party applications
- Not so great for coreutils

Turn security on late to make development easier

- It all falls apart when you turn it on
- Smack got blamed for *everything*

Tizen 3 fixing these issues

# What's New in Smack



Modify existing access rules

```
/sys/fs/smackfs/change-rule
```

IPv6 controls on the loopback interface

Mount option for making filesystem root transmuting

# What's Changed in Smack

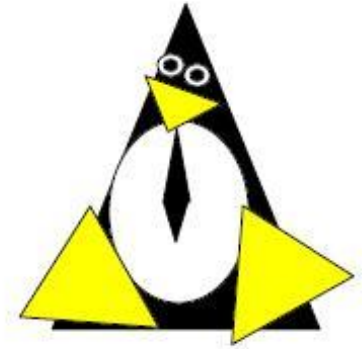
Mount point moved to `/sys/fs/smackfs`

Multiple rules per write in `load2`

- Delimited by newlines

- Significantly faster

Friendlier kernel configuration

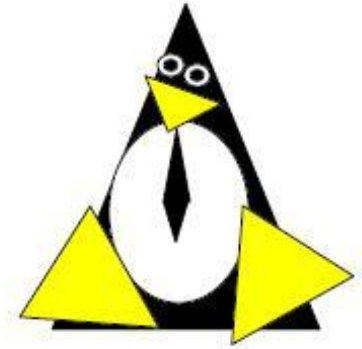


# What's Fixed in Smack

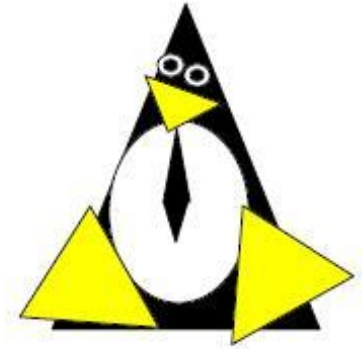
Rule list load performance

Access check performance

Several minor memory leaks



# What's Coming For Smack



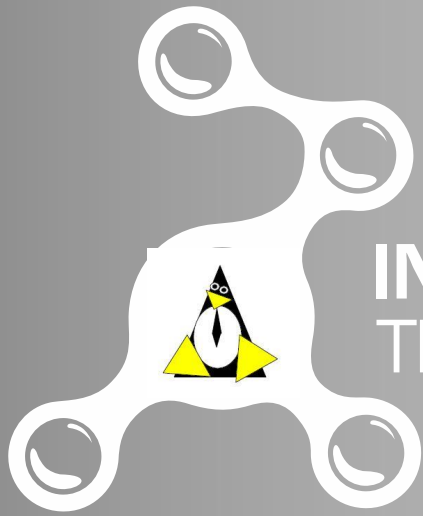
Tizen 3

Lock access mode

- Setting a read lock is a write operation
- Granting write access to allow read locks would be unfortunate

Support in systemd, dbus, wayland

Probably a surprise or two



**INTEL OPEN SOURCE  
TECHNOLOGY CENTER**

[casey.schaufler@intel.com](mailto:casey.schaufler@intel.com)  
[casey@schaufler-ca.com](mailto:casey@schaufler-ca.com)