



SAFERIDE

OpenSentry

SafeRide open source security project (AGL)



Current AGL Security Status

- AGL security is based on Tizen security:
 - Mandatory Access Control (SMACK)
 - Application Privilege Management and Enforcement via Cynara
 - System hardening recommendations.
 - Others (??)

The Problem

- The previous list contain static solutions that give a solution to security issues we are aware as of today.
- Problem:
 - Difficult to configure and manage.
 - In the security world we need to give a solution to unknown issues as well.
 - How to do that?

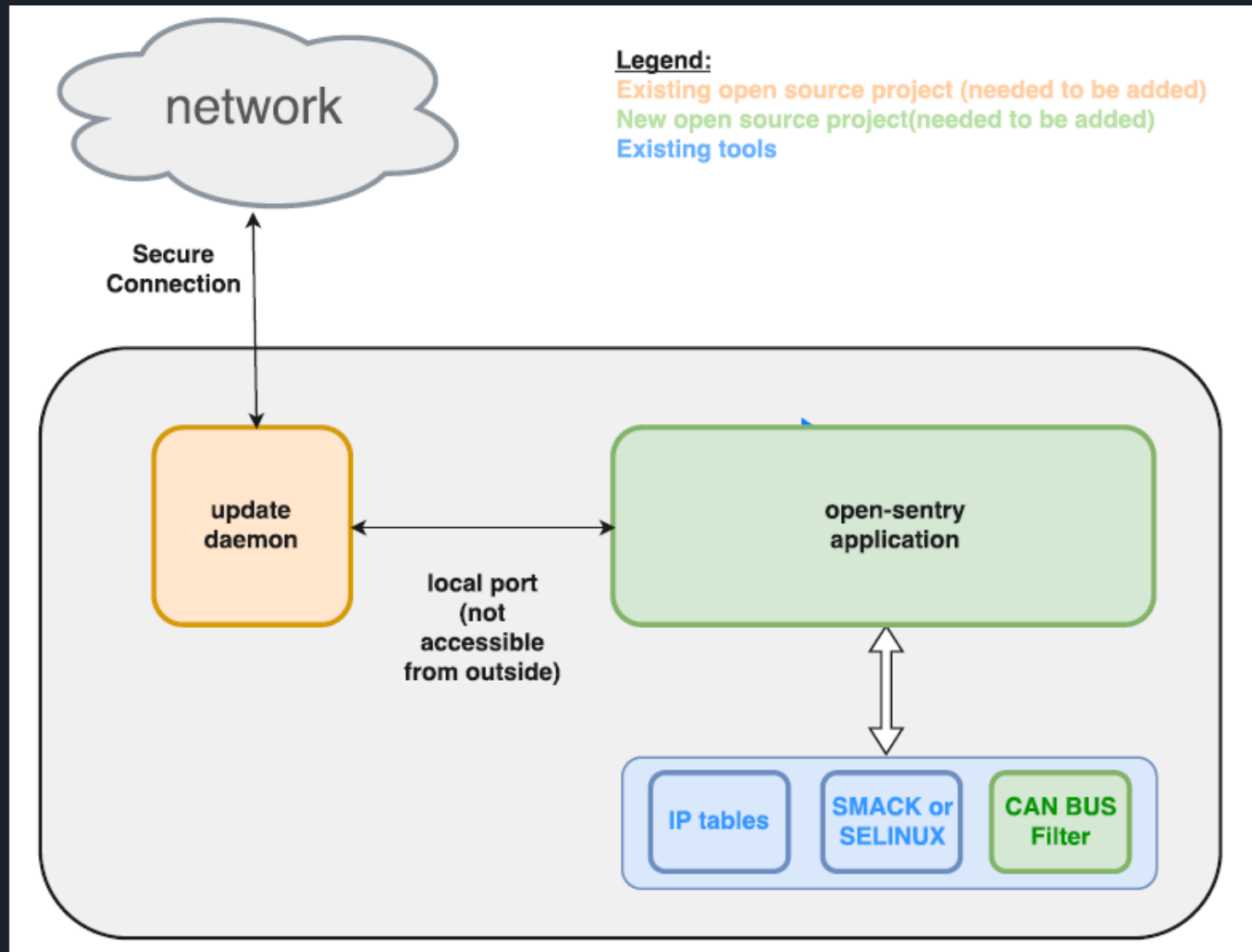
Enhancement Proposal

- SafeRide propose to enhance AGL security solution by adding a new feature to the AGL Yocto Layer (can be a standalone layer as well) that will provide Security Control and Monitoring:
 - Control: Remote control of security policy. Add/Remove/Modify security rules.
 - Monitoring: Remote monitoring of system behavior.

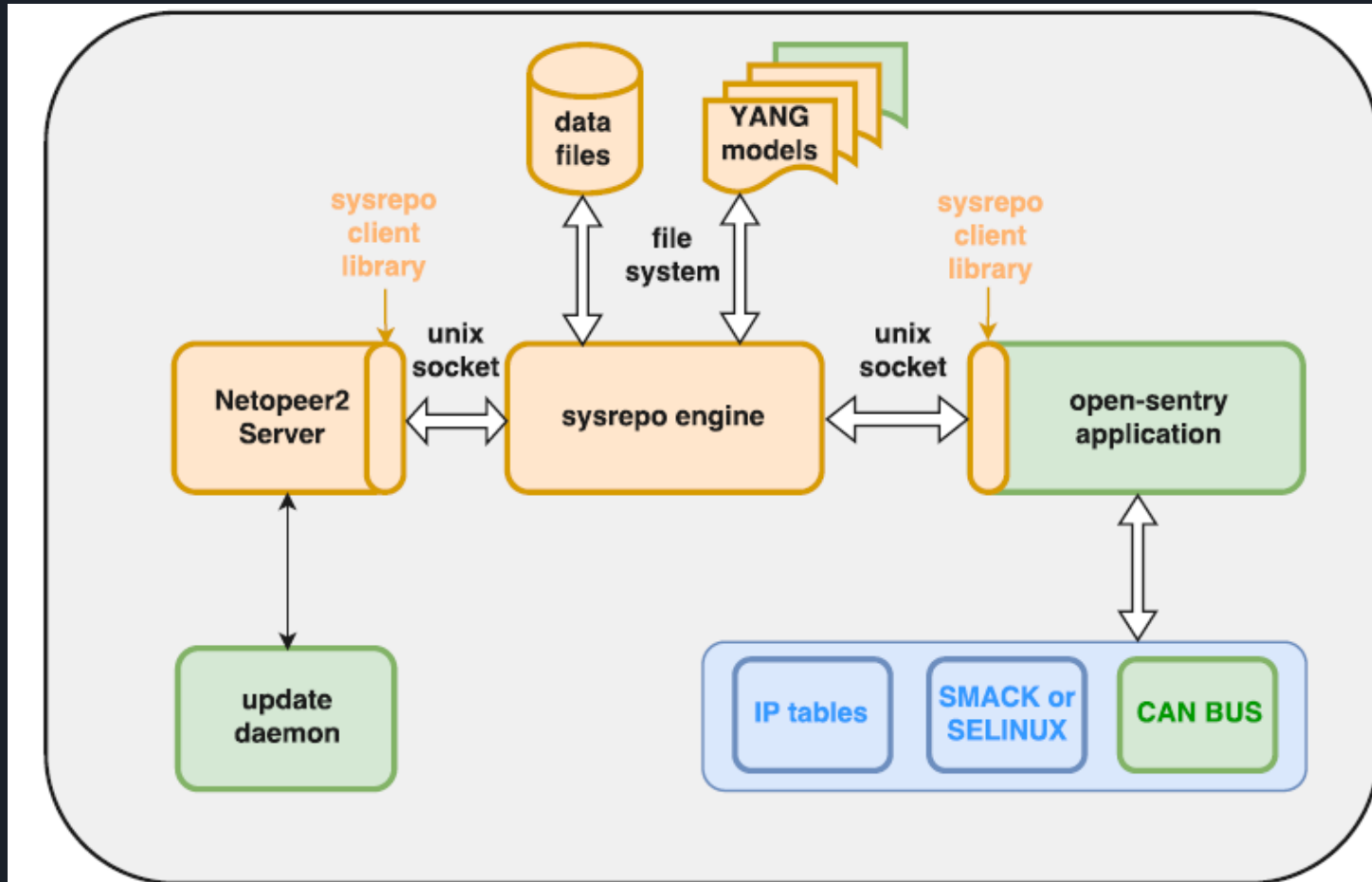
Benefits

- OpenSentry will provide a unified and easy to use interface to various the security tools (consolidation). Can be used during development and production phases.
- OpenSentry will allow to monitor security breaches by collecting behavioral logs and uploading them to the cloud.
- OpenSentry will allow to apply virtual patches in case a breach was detected (analysis of collected data).

Architecture



Deep Dive



Legend:

Existing open source project (needed to be added)

New open source project(needed to be added)

Existing tools

Summary

- Questions?



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