

sonic-platform-common.git
sonic-platform-daemon.git

Sonic-OTN Work Group Discussion

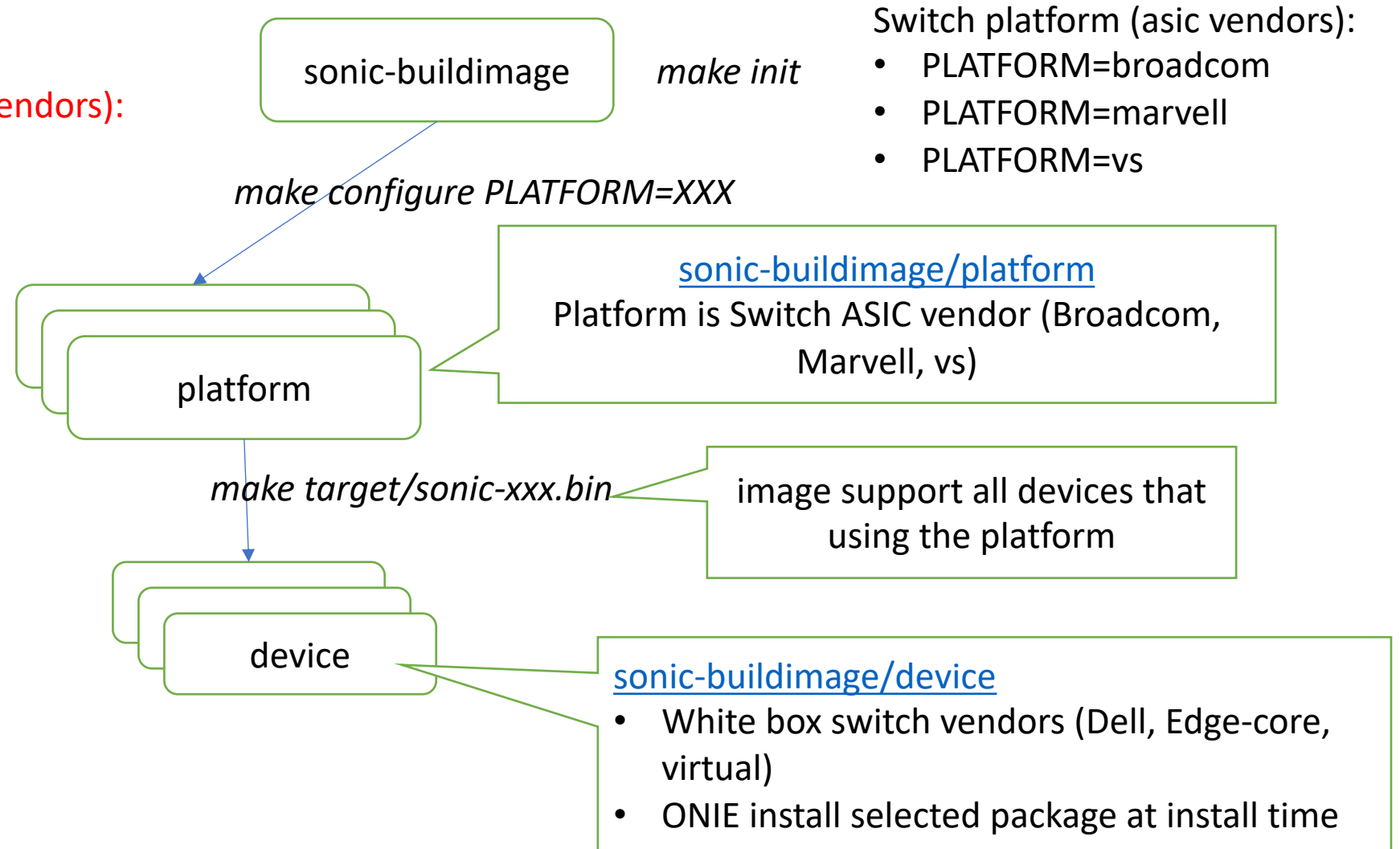
Sonic Generic Build Framework

New OTN platform (module vendors):

- PLATFORM=ot-accelink
- PLATFORM=ot-molex
- PLATFORM=ot-kvm

New OTN target images:

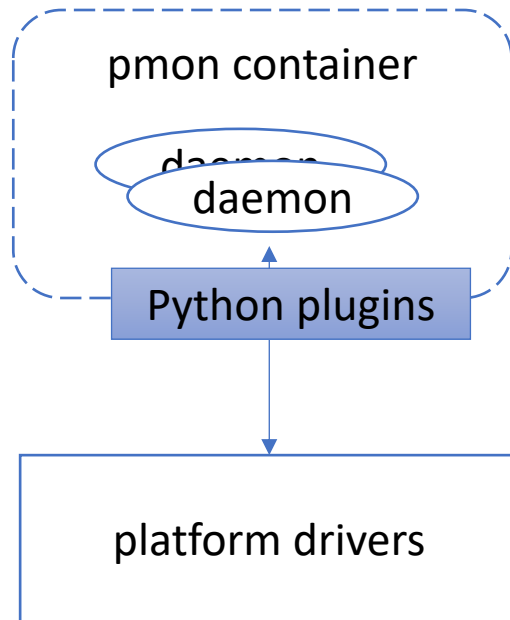
- sonic-ot-accelink.bin
- sonic-ot-molex.bin
- sonic-ot-kvm.img



Pmon and SyncD Features Division

Device-based Equipment Management (manufacture info, status, operations)

- Chassis, PSU, Fan, Thermal, LED, SFP
- Module (SC, LC), [module_base.py](#).
- Components (BIOS, FPGA, CPLD, **Optical modules**), [component_base.py](#)
- Admin-status, Restart, SW FW upgrade, hot pluggable



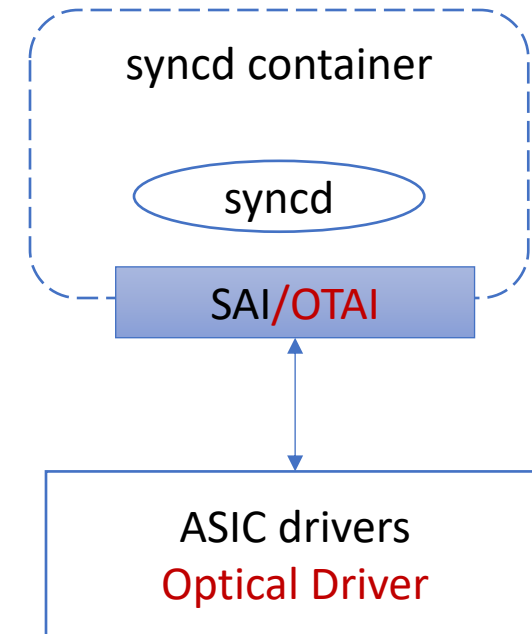
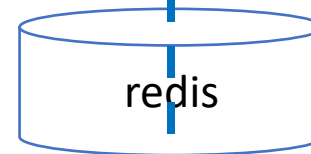
Platform/ASIC based Packet

Function:

- Switch, Port, Interface
- Forward, Routing
- ACL, QOS

OTN Function

- AMP, OPS, OCM, WSS, OTDR, VOA, OSC
- Port, Channels, Wave plan



Existing Sonic Pmon Object Hierarchies

- Platform: [new platform api.md](#)

- Chassis

- System EEPROM info
 - Reboot cause
 - Hardware watchdog
 - Environment sensors
 - LEDs
 - Power supply unit[0 .. p-1], Fan[0 .. f-1]
 - SFP cage[0 .. s-1]
 - Change event (hot-pluggable)
 - Module[0 .. m-1] (Line card, supervisor card, etc.)
 - System EEPROM info
 - Environment sensors
 - Front-panel LEDs
 - Power supply unit[0 .. p'-1]
 - Fan[0 .. f'-1]
 - SFP cage[0 .. s'-1]
 - Components[0 .. n]
 - Components[0 .. n]

Component:

- Name, description
- Firmware (versions, install, update etc.)

platform-common platform-daemon

Feedbacks

- Compatibility (code base and build time) with existing SONiC
 - Don't remove existing code, but add new code otn-pmon in platform-common and sonic-pmond on platform-daemon
- Still support existing SONiC design and give choice to vendors
 - Use ALI's proposal/implementation, implementing drivers in Thrift server
 - Or use existing platform code, only implementing the drivers in sonic/build-image. No change required for these two repos.
- Two PRs:
 - [restore deleted files in upstream repo \(sonic-net\) by jjin62 · Pull Request #3 · zhengweitang-zwt/sonic-platform-daemons · GitHub](#)
 - [restore deleted files in upstream repo \(sonic-net\) by jjin62 · Pull Request #4 · zhengweitang-zwt/sonic-platform-common · GitHub](#)

OTN Pmon Compatibility Proposal

