Android.bp:

Google introduced Soong build system the replacement of old makefile system.

1. ninja is the new build tools for aosp, which using \*.ninja to work;
2. for the legacy Android.mk, kati is applied to transform Androd.mk to \*.ninja;
3. google is now using Android.bp file to describe module compile details, which is also transformed to \*.ninja by blueprint/soong;
4. after all Android.mk is rewrite to Android.bp, kati will be removed, and we will have blueprint/soong/ninja only;

SELinux :

https://www.all-things-android.com/content/debugging-se-android-avc-messages

* in any .te file we can add the allow qti\_init\_shell hw\_config\_prop:property\_service set;

AVC denial errors :

[ 57% 6785/11802] build out/target/product/helios/obj/ETC/precompiled\_sepolicy\_intermediates/precompiled\_sepolicy

FAILED: out/target/product/helios/obj/ETC/precompiled\_sepolicy\_intermediates/precompiled\_sepolicy

/bin/bash -c "out/host/linux-x86/bin/secilc -m -M true -G -c 30 out/target/product/helios/obj/ETC/plat\_sepolicy.cil\_intermediates/plat\_sepolicy.cil out/target/product/helios/obj/ETC/28.0.cil\_intermediates/28.0.cil out/target/product/helios/obj/ETC/plat\_pub\_versioned.cil\_intermediates/plat\_pub\_versioned.cil out/target/product/helios/obj/ETC/vendor\_sepolicy.cil\_intermediates/vendor\_sepolicy.cil -o out/target/product/helios/obj/ETC/precompiled\_sepolicy\_intermediates/precompiled\_sepolicy -f /dev/null"

neverallow check failed at out/target/product/helios/obj/ETC/plat\_pub\_versioned.cil\_intermediates/plat\_pub\_versioned.cil:7080

(neverallow base\_typeattr\_262\_28\_0 base\_typeattr\_263\_28\_0 (property\_service (set)))

<root>

allow at out/target/product/helios/obj/ETC/vendor\_sepolicy.cil\_intermediates/vendor\_sepolicy.cil:9454

(allow qti\_init\_shell system\_prop\_28\_0 (property\_service (set)))

neverallow check failed at out/target/product/helios/obj/ETC/plat\_sepolicy.cil\_intermediates/plat\_sepolicy.cil:9963 from system/sepolicy/public/property.te:154

(neverallow base\_typeattr\_262 base\_typeattr\_263 (property\_service (set)))

<root>

allow at out/target/product/helios/obj/ETC/vendor\_sepolicy.cil\_intermediates/vendor\_sepolicy.cil:9454

(allow qti\_init\_shell system\_prop\_28\_0 (property\_service (set)))

Failed to generate binary

Failed to build policydb

[ 57% 6786/11802] target Executable: wpa\_supplicant (out/target/product/helios/obj/EXECUTABLES/wpa\_supplicant\_intermediates/LINKED/wpa\_supplicant)

[ 57% 6787/11802] target SharedLib: libmmcamera2\_cpp\_module\_32 (out/target/product/helios/obj\_arm/SHARED\_LIBRARIES/libmmcamera2\_cpp\_module\_intermediates/LINKED/libmmcamera2\_cpp\_module.so)

[ 57% 6788/11802] target SharedLib: libmmcamera2\_imglib\_modules\_32 (out/target/product/helios/obj\_arm/SHARED\_LIBRARIES/libmmcamera2\_imglib\_modules\_intermediates/LINKED/libmmcamera2\_imglib\_modules.so)

ninja: build stopped: subcommand failed.

14:14:51 ninja failed with: exit status 1

neverallow check failed at out/target/product/helios/obj/ETC/plat\_sepolicy.cil\_intermediates/plat\_sepolicy.cil:9963 from system/sepolicy/public/property.te:154

(neverallow base\_typeattr\_262 base\_typeattr\_263 (property\_service (set)))

<root>

allow at out/target/product/helios/obj/ETC/vendor\_sepolicy.cil\_intermediates/vendor\_sepolicy.cil:9539

(allow qti\_init\_shell exported\_system\_prop\_28\_0 (property\_service (set)))

Failed to generate binary

allow qti\_init\_shell enterprise\_prop:property\_service set;

FAILED: out/target/product/helios/obj/ETC/sepolicy.recovery\_intermediates/sepolicy

/bin/bash -c "(ASAN\_OPTIONS=detect\_leaks=0 out/host/linux-x86/bin/checkpolicy -M -c 30 -o out/target/product/helios/obj/ETC/sepolicy.recovery\_intermediates/sepolicy.tmp out/target/product/helios/obj/ETC/sepolicy.recovery\_intermediates/sepolicy.recovery.conf ) && (out/host/linux-x86/bin/sepolicy-analyze out/target/product/helios/obj/ETC/sepolicy.recovery\_intermediates/sepolicy.tmp permissive > out/target/product/helios/obj/ETC/sepolicy.recovery\_intermediates/sepolicy.permissivedomains ) && (if [ \"eng\" = \"user\" -a -s out/target/product/helios/obj/ETC/sepolicy.recovery\_intermediates/sepolicy.permissivedomains ]; then echo \"==========\" 1>&2; echo \"ERROR: permissive domains not allowed in user builds\" 1>&2; echo \"List of invalid domains:\" 1>&2; cat out/target/product/helios/obj/ETC/sepolicy.recovery\_intermediates/sepolicy.permissivedomains 1>&2; exit 1; fi ) && (mv out/target/product/helios/obj/ETC/sepolicy.recovery\_intermediates/sepolicy.tmp out/target/product/helios/obj/ETC/sepolicy.recovery\_intermediates/sepolicy )"

device/symbol/common/sepolicy/vendor\_init.te:5:ERROR 'unknown type enterprise\_prop' at token ';' on line 82852:

allow qti\_init\_shell enterprise\_prop:property\_service set;

checkpolicy: error(s) encountered while parsing configuration

FAILED: out/target/product/helios/obj/ETC/sepolicy\_neverallows\_intermediates/sepolicy\_neverallows

/bin/bash -c "(rm -f out/target/product/helios/obj/ETC/sepolicy\_neverallows\_intermediates/sepolicy\_neverallows ) && (ASAN\_OPTIONS=detect\_leaks=0 out/host/linux-x86/bin/checkpolicy -M -c 30 -o out/target/product/helios/obj/ETC/sepolicy\_neverallows\_intermediates/sepolicy\_neverallows out/target/product/helios/obj/ETC/sepolicy\_neverallows\_intermediates/policy.conf )"

device/symbol/common/sepolicy/system\_app.te:68:ERROR 'unknown type enterprise\_prop' at token ';' on line 76569:

allow qti\_init\_shell enterprise\_prop:property\_service set;

# enterprise unlock