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SELinux:How to add a new device node's secure context and its policy

Solution Number 00030433

Please Note:

If Qualcomm documentation is referenced in this solution, your access to it is based on your company's

Language Key Words

Detail Information

Solution Title SELinux:How to add a new device node's secure context and its policy

Solution Details Question: How to add a new device node's secure context and its policy?

Answer:

Android baseline sepolicy file is stored at external/sepolicy/

Qualcomm related sepolicy file is stored in devices/qcom/sepolicy/common/
the two folder file will be merged together

To add a context for a device node,

devices/qcom/sepolicy/common/file_contexts

e.g.

/dev/rtc0

u:object_r:rtc_device:s0

if it is a new device type, need to define in devices/qcom/sepolicy/common/device.te

e.g.

type rtc_device, dev_type;

then your own app that use this device need have a domain type and executable file context defined,

e.g.

in file_contexts

/system/bin/time_daemon

u:object_r:time_daemon_exec:s0

define a new domain type and executable file in the related policy file:

time_daemon.te:

type time_daemon, domain;

type time_daemon_exec, exec_type, file_type;

allow time_daemon rtc_device:chr_file { open read ioctl };

after modify, need to rebuild boot.img, then the file will be updated to ramdisk /file_contexts

if the file is in system image, then also need to rebuild system.img and download.

Then the new file context can be seen by ls -Z

for quickly recreate a system.img, use -S to specify file_contexts file with mkae_ext4fs command.

e.g.:

make_ext4fs -s -S out/target/product/msm8974/root/file_contexts -l 1073741824 -a system

out/target/product/msm8974/obj/PACKAGING/systemimage_intermediates/system.img

out/target/product/msm8974/system

Applicable Products

AMSS 8928, AMSS 8939, AMSS 8974, AMSS 8974AB, AMSS8610, AMSS8909, AMSS8916, AMSS8926, AMSS8994