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SELinux:How to add secure context(label) for a new file or modify secure context?

Solution Number	00030215

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

Language Key Words	selinux,SEAndroid,security

Detail Information

Solution Title	SELinux:How to add secure context(label) for a new file or modify secure context?

Solution Details	Question: How to add secure context(label) for a new file or modify secure context?
	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, file or folder in root, system or dev, need to add in
	      devices/qcom/sepolicy/common/file_contexts
	e.g.
	  /dev/block/bootdevice/by-name/ssd u:object_r:ssd_device:s0
	
	  To add a secure context for virtual mounted fs, like proc, sysfs, vfat etc, need to add in
	      devices/qcom/sepolicy/common/genfs_contexts
	
	 if it is a new device type, need to define in devices/qcom/sepolicy/common/device.te
	e.g.
	      type ssd_device, dev_type;
	 if it is a new file type, need to define in devices/qcom/sepolicy/common/file.te
	e.g.
	      type qmuxd_socket, file_type;
	
	 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 8936, AMSS 8939, AMSS 8974, AMSS 8974AB, AMSS8626, AMSS8909, AMSS8916, AMSS8926, AMSS8974AA, AMSS8974AC, AMSS8992, AMSS8994, AMSS8996, APQ8026, APQ8039