

## Selinux Common issue and related fix for android O and later

### 1. AVC about the IOCTL

```

Logs:
    avc: denied { ioctl } for pid=1102 comm="time_daemon"

    path="socket:[24846]" dev="sockfs" ino=24846 ioctlcmd=
c304

    scontext=u:r:time_daemon:s0 tcontext=u:r:time_daemon:s0

```

```

Related fix:
    allow ioctl on the socket

```

```

+allow time_daemon self:socket ioctl;

```

//allow whitelisted ioctl. Pls check the `ioctl_defines` and `ioctl_macros` file for more info on [msm\\_sock\\_ipc\\_ioctls](#)

```

+allowxperm time_daemon self:socket ioctl msm_sock_ipc_ioctls;

```

### 2. AVC about the dac\_override

Logs:

```

te-client-abc: type=1400 audit(0.0:225): avc: denied { dac_override } for uid=0 capability=1 scontext
=u:r:thermal-engine:s0 tcontext=u:r:thermal-engine:s0

```

```

tclass=capability permissive=0

```

Note: system/core/sepolicy have rules neverallow dac\_override for these process.

Reason:

dac\_override it related user and group permission, it want to skip the MAC check.

Fix solution:

related service didn't have add in the related group,  
 so it is refused when try to access the related resource which belongs the related group.  
 try to find what resources what to access, then add the related group.

for this issue, thermal-engine lost the system group, fix after add the systme group in \*.rc file

3.AVC about platform/priv\_app try to access sysfs

Logs:

```
android.systemui: type=1400 audit(0.0:23): avc: denied { open } for path="/sys/devices/soc/c178000.i2c/i2c-4/4-0070/input/input1/stylus_mode"
```

```
dev="sysfs" ino=34404 scontext=u:r:platform_app:s0:c512,c768 tcontext=u:object_r:sysfs_t2m_settings:s0 tclass=file permissive=0
```

Fix solution:

```
+type sysfs_t2m_settings, sysfs_type, fs_type, mltrustedobject;
```

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