The Android Init Language consists of five broad classes of statements: Actions, Commands, Services, Options, and Imports.

/init.rc is the primary .rc file and is loaded by the init executable at the beginning of its execution. It is responsible for the initial set up of the system.

Example :

service persist\_lockdown /vendor/bin/persist\_lockdown.sh

class late\_start

user root

group root

oneshot

disabled

class late\_start :

Core services are never shut down after starting. main services are shutdown and then restarted after the disk password is entered. late\_start services are not started until after /data has been decrypted and mounted.

oneshot

disabled

Change to ‘username’ before exec'ing this service. Currently defaults to root

oneshot

Do not restart the service when it exits.

Disabled:

This service will not automatically start with its class. It must be explicitly started by name or by interface name.

# Use of Diagnostic Mode

Enable Qualcomm Diagnostic Mode useful for changing the IMEI or repair baseband your phone using QPST or other tools. There are two ways to activate Diag Mode

PS20JB:/ # sh /vendor/bin/persist\_lockdown.sh

echo for auto script run

1

persist.sys.usb.config is

diag,adb

ent unlock bit 1 is 1

ent unlock bit 2 is 0

PS20JB:/ # sh /vendor/bin/persist\_lockdown.sh

echo for auto script run

none

persist.sys.usb.config is

diag,adb

ent unlock bit 1 is 0

SELinus errors and solutions

property\_contexts

sys.enterprise\_unlock u:object\_r:enterprise\_unlock\_exec:s0

property\_contexts

sys.enterprise\_unlock u:object\_r:qti\_init\_shell\_exec:s0

file.te

type enterprise\_unlock\_exec, exec\_type, vendor\_file\_type, file\_type;

init.te

set\_prop(qti\_init\_shell, sys.enterprise\_unlock\_prop)

\*\*\*

cd external/selinux/prebuilts/bin

vim text.log

copy the adv denied error in to above text.log file

and run

./audit2allow -p ../../../../out/target/product/helios/recovery/root/sepolicy< text.log

Will get one solution like below and copy in desired path

#============= qti\_init\_shell ==============

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

SElinux sysntax (examples)

sys.enterprise\_unlock u:object\_r:enterprise\_unlock\_exec:s0

allow qti\_init\_shell exported\_system\_radio\_prop : property\_service set;

allow source domain target type : class permission

[allow qti\_init\_shell  **qti\_init\_shell\_exec** : file { rx\_file\_perms entrypoint };](http://157.235.208.175:8080/source/xref/SDM660P-PL/LA.UM.7.2/LINUX/android/device/qcom/sepolicy/vendor/common/init_shell.te#12)

file.te

type type\_id [alias alias\_id] [, attribute\_id];

type enterprise\_unlock\_exec , exec\_type, vendor\_file\_type, file\_type;

type type id alias id attribute\_id

property\_contexts:

user:role:type[:range]

ro.symbol.hwconfig.overwrite u: object\_r: hw\_config\_prop: s0

path user role type range

S0 sensitivity unclassified

S1 sensitivity restricted

S2 sensitivity confidential

S3 sensitivity secret

file\_context:

/vendor/bin/persist\_lockdown.sh u: object\_r: qti\_init\_shell\_exec: s0

pathname\_regexp user role [file\_type] (range) opt\_security\_context

shall.te:

r\_dir\_file(shell, sysfs\_symbol\_keypad);

Hw\_config.te;

set\_prop(vendor\_init, exported\_fingerprint\_prop);

domain.te:

get\_prop({domain -untrusted\_app}, hw\_config\_prop)

system\_app.te:

allow system\_app vndk\_sp\_file:file { getattr open read execute};

example of enterprise lockdown

**vim** [**device/symbol/common**](https://gerrit.zebra.com/plugins/gitiles/ZEUS%2FCommon%2Fdevice%2Fsymbol%2Fcommon/+/d62961031999765987dd5cdda78d16ec74a1aa8e/)**/[sepolicy](https://gerrit.zebra.com/plugins/gitiles/ZEUS%2FCommon%2Fdevice%2Fsymbol%2Fcommon/+/d62961031999765987dd5cdda78d16ec74a1aa8e/sepolicy" \o "(gitiles))/file\_contexts**

#enterprise lock

/vendor/bin/persist\_lockdown.sh u:object\_r:qti\_init\_shell\_exec:s0

**Vim** [**device/symbol/common**](https://gerrit.zebra.com/plugins/gitiles/ZEUS%2FCommon%2Fdevice%2Fsymbol%2Fcommon/+/d62961031999765987dd5cdda78d16ec74a1aa8e/)**/[sepolicy](https://gerrit.zebra.com/plugins/gitiles/ZEUS%2FCommon%2Fdevice%2Fsymbol%2Fcommon/+/d62961031999765987dd5cdda78d16ec74a1aa8e/sepolicy" \o "(gitiles))/hw\_config.te**

allow qti\_init\_shell hw\_config\_prop:property\_service set;

**vim** [**device/symbol/common**](https://gerrit.zebra.com/plugins/gitiles/ZEUS%2FCommon%2Fdevice%2Fsymbol%2Fcommon/+/d62961031999765987dd5cdda78d16ec74a1aa8e/)**/[sepolicy](https://gerrit.zebra.com/plugins/gitiles/ZEUS%2FCommon%2Fdevice%2Fsymbol%2Fcommon/+/d62961031999765987dd5cdda78d16ec74a1aa8e/sepolicy" \o "(gitiles))/property\_contexts**

# enterprise lockdown

sys.enterprise\_unlock u:object\_r:hw\_config\_prop:s0

**vim** [**device/symbol/helios**](https://gerrit.zebra.com/plugins/gitiles/ZEUS%2FCommon%2Fdevice%2Fsymbol%2Fhelios/+/7eebc799c7dae95bd8b1d43ed940004e9ba2f170/)**/helios.mk**

#Post Enterprise Reset Lockdown

PRODUCT\_COPY\_FILES += \

device/symbol/helios/persist\_lockdown.sh:$(TARGET\_COPY\_OUT\_VENDOR)/bin/persist\_lockdown.sh

**vim** [**device/symbol/helios**](https://gerrit.zebra.com/plugins/gitiles/ZEUS%2FCommon%2Fdevice%2Fsymbol%2Fhelios/+/7eebc799c7dae95bd8b1d43ed940004e9ba2f170/)**/ init.target.rc**

service persist\_lockdown /vendor/bin/persist\_lockdown.sh

class late\_start

user root

group root

oneshot

**vim** [**device/symbol/helios**](https://gerrit.zebra.com/plugins/gitiles/ZEUS%2FCommon%2Fdevice%2Fsymbol%2Fhelios/+/7eebc799c7dae95bd8b1d43ed940004e9ba2f170/)**/ system.prop**

#Enterprise Lockdown

sys.enterprise\_unlock=1