**PLATFORM IDENTIFICATION**

we analyze security against the services that limits allowance only to the registered platforms for their users, of which core technology is called designated platform solution and it has been deployed in several critical services such as on-line banking, financial transactions and so on ...

Platform identification means to find the OS information when there are multiple OS to run on single processor then based on OS information which OS user wants to run in that OS user application will execute.

**Step 1:**

In qemu to print logs in secure side we need to do some modifications in config.mk file which is present in optee\_os/mk/ config.mk change following macros according levels

CFG\_TEE\_CORE\_LOG\_LEVEL ?= 1

CFG\_TEE\_TA\_LOG\_LEVEL ?= 1

to

CFG\_TEE\_CORE\_LOG\_LEVEL ?= 4

CFG\_TEE\_TA\_LOG\_LEVEL ?= 4

# Log levels for the TEE core. Defines which core messages are displayed

# on the secure console. Disabling core log (level set to 0) also disables

# logs from the TAs.

# 0: none

# 1: error

# 2: error + warning

# 3: error + warning + debug

# 4: error + warning + debug + flow

**Step 2:**

In qemu if we need os information then add platform\_information\_structure.c file to library(libutee) which is present in qemu/optee\_os/lib/libutee. Now add our file name to sub.mk file in same directory(libutee), add a header file to include folder present in libutee folder which contain information about the platform related structure declaration and function declarations.

**Step 3:**

If we want platform information we need to call the macro related to optee which is declared in header.h as PLAT\_OPTEE . Call this macro as follows in initialization context function

os\_info\_structure\_t \*os =PLAT\_OPTEE;

IMSG("os->os\_name =%s",os->os\_name);

IMSG("os->os\_apiversion =%s",os->os\_apiversion);

IMSG("os->os\_version =%s",os->os\_version);

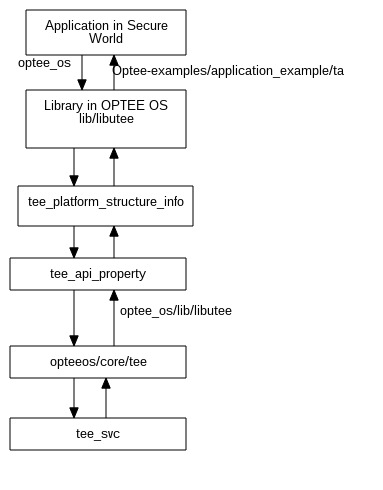
IMSG("os->os\_provider =%s",os->os\_provider);

include header.h in the application

**step 4:**

After building when we run our application in teminal it will give some logs in secure world terminal of QEMU . In that logs we will get the OS information as of calling .

FLOWCHAT OF PLATFORM IDENTIFICATIONS:

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