Tools Information

Subtopics:

- How to use test_license_chechout tool
- Available FNE commands
- What is the difference between # connected clients and # connected tester clients in the FNE server viewer?
- How to receive license expiration notification via email?

- How to use test_license_checkout tool
- FNE Server Viewer Information: difference between connected client and connected tester client?
- How to receive license expiration notification via email?

How to use test_license_checkout tool

Prerequisite to run the tool on an FNE server:

FNE client SW (`v93000-fne-client-<version>` must be installed. You can run the tool without providing the path to the tool (available in the PATH variable and can be found for RHEL7 in `/usr/bin` as link and existing in `/usr/local/bin` and for RHEL9 in `/usr/bin`).

Which test_license_checkout parameters exist?

There are more parameters available. Please check with option -h the available parameters. Here only some parameters are listed.

`-h` : help

`-f <featureName>` : You have to provide the feature name of the license which shall be checked out. You have to take the feature name exactly as provided in the license file.

`-t <time>` : This is the time given in seconds how long the license shall be checked out. This is useful, if you can check in parallel on the license server, if the license is checked out on the correct license server.

`-v` : for the system serial number

`-u` : device / upstream owner

`-d` : for getting debug information

How to checkout SmarTest online license via `test_license_checkout`?

Example to checkout the online SmarTest_SOC license with dateversion 2020.06 and system serial number DE04600001:

/opt/hp93000/soc/.service/bin/test_license_checkout -f SmarTest_SOC/2020.06 -v DE04600001 -t 15

As date version you should use the master release date of the SmarTest version in use. Please check either the SmarTest release notes for the master release date.

With the command above you are checking out the license for 15 seconds (option -t 15).

How to checkout floating license with specified number via `test_license_checkout`?

Example for checking out a specified number of floating licenses like Digital_E8012_TIA:

```
/opt/hp93000/soc/.service/bin/test_license_checkout -f 3 Digital_E8012_TIA -t 10
```

Here 3 floating licenses of Digital_E8012_TIA will be tried to checkout for the duration of 10 seconds.

How to checkout S&S licenses via `test_license_checkout`?

You need to use quotes because of the special sign &:

```
/opt/hp93000/soc/.service/bin/test_license_checkout -f "S&S_Tools_Package" -t 0
```

How to checkout a license with device owner via `test_license_checkout` (only available for FNE client or on the FNE license server)?

With `fne-list-licenses` and option `--assetScale` you can check the device owner and the licenses of the asset scale bundle.

Example output:

```
$ fne-list-licenses --assetScale
```

Server: FNX-redundant dedcbfnefelic1new/dedcbfnefelic2new

\-URL: http://dedcbfnefelic1new.adv.advantest.com:7070/fne/bin/capability

```
100000 x Token_ADVANTEST_RD_WaferSort/1.0 starts 2019-05-02

           Locked to DeviceOwner=ADVANTEST_RD

           Content of AssetScale bundle:

              1 x ANALOG_E9723B_MEAS_4_8/1.0

            960 x Digital_E8012_1_50Mbps/1.0

            960 x Digital_E8012_100_200Mbps/1.0

            ...
```

Device owner in the `fne-list-licenses` is **ADVANTEST_RD**, which means that you need to run a test program which is locked to company ADVANTEST_RD. The token is **Token_ADVANTEST_RD_WaferSort.**

For `test_license_checkout` use option `-u`:

`-u <name>` : Set name of upstream / device owner

Example:

```
/opt/hp93000/soc/.service/bin/test_license_checkout -u ADVANTEST_RD -f Token_ADVANTEST_RD_WaferSort -t 0
```

The feature with option `-f` is used with the token name.

How to use debug option or SOCBU_DIAGNOSTICS with `test_license_checkout`?

If the checkout fails, please rerun the command with diagnostics enabled:

```
$ SOCBU_DIAGNOSTICS=7 /opt/hp93000/soc/.service/bin/test_license_checkout -f "S&S_Tools_Package" -t 0 > /tmp/lic-error.txt
```

How does a successful output with `test_license_checkout` look like?

`/opt/hp93000/soc/.service/bin/test_license_checkout -f "S&S_Tools_Package" -t 0`

Output:

```
Using FlexNetEmbedded 2021.05.0.279614 / subsystem 1.3 / built Nov  8 2021 15:34:51 (RPM)

Check out finished in 25ms for category tplf

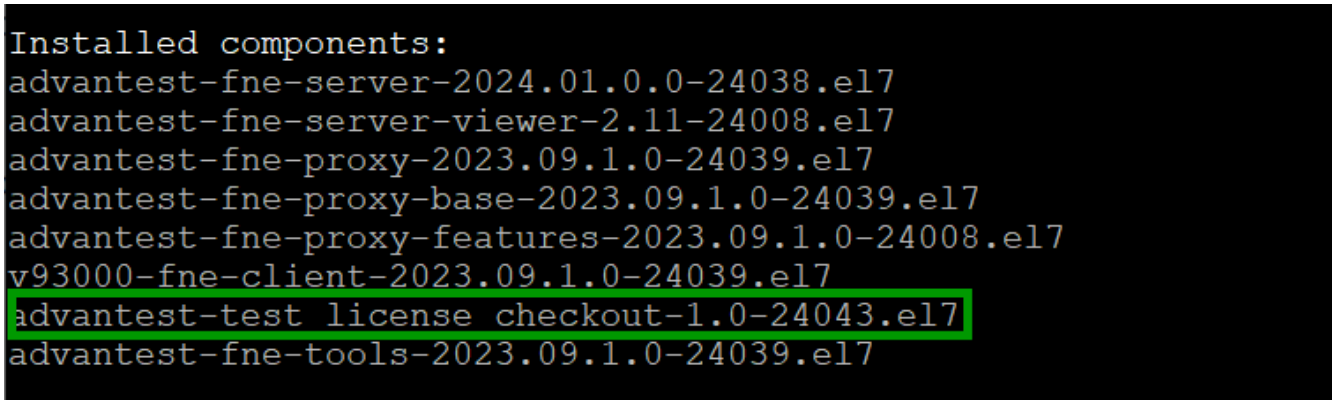
OK    1 x S&S_Tools_Package/1.0

Sleep for 0 seconds...
```

How to easily check the FNE server registration with `test_license_checkout`?

With a standard installation the `test_license_checkout` tool is available on the FNE license server (primary and if existing, failover). With `fne-status`, you can check if it is installed:

`Under installed components`



`fne-status` showing installed components

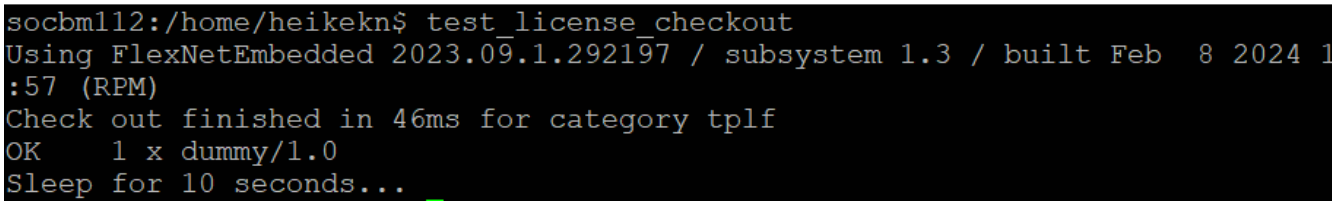
After registration of a new FNE license server you can easily check the license checkout of the dummy license which is available after a successful registration.

Just enter:

`test_license_checkout`

on the command line. Default feature is the dummy feature, so you do not need to enter anything.

Example with output:



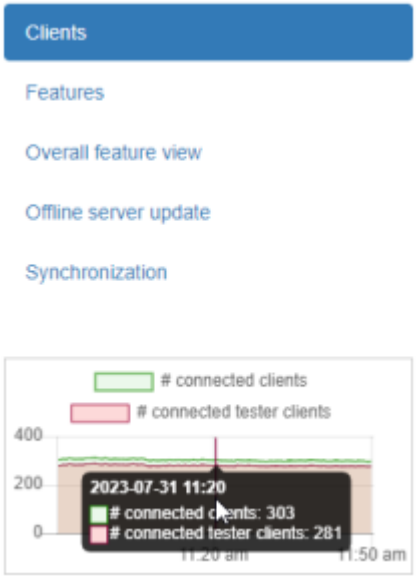
`test_license_checkout` checking out the dummy license

The dummy feature has been successfully checked out for 10 seconds (last two lines in the screenshot above).

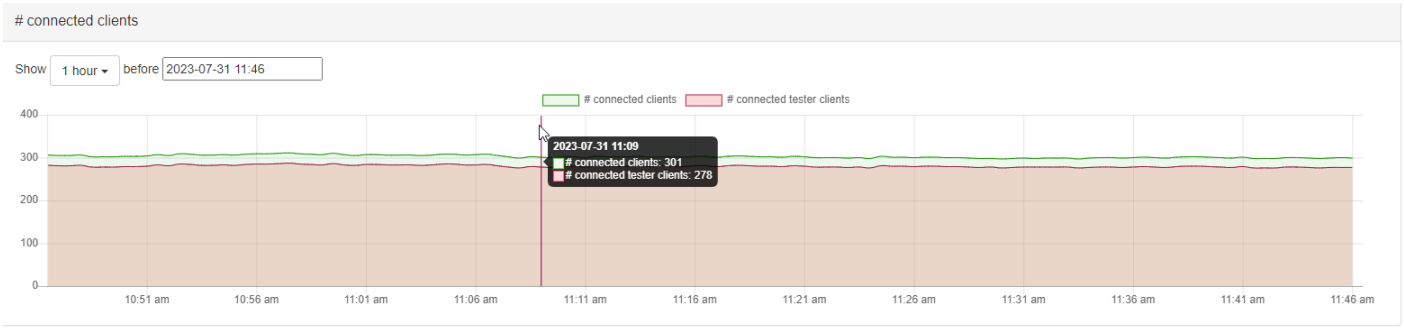
FNE Server Viewer Information: difference between connected client and connected tester client?

What is the difference between # connected clients and # connected tester clients in the FNE server viewer?

If you have a look at the left bar of the FNE server viewer then you have a small graph showing the # of connected clients and # of connected tester clients:



If you click on menu "Clients" you are getting a bigger presentation for this graph:



Meaning of

- **# connected tester clients**: shows the amount of **testers** that are connected to the server.
- **# connected clients**: shows the amount of **clients** connecting to the license server, this will be higher because of SmarTest 8. SmarTest 8 has two clients running on one tester, one is the called TPLF client and the other is the TOOLS client. TPLF handles the most important licenses, without them Smartest would stop right away. TOOLS are for example S&S Licenses, which are optional.

How to receive license expiration notification via email?

`fne-list-licenses --expires <expiration_date> | grep -q " x " && fne-list-licenses --expires <expiration_date> | mailx -s "Expiring licenses" <email_address>`

Example: **`fne-list-licenses --expires 100 | grep -q " x " && fne-list-licenses --expires 100 | mailx -s "Expiring licenses" abc@advantest.com`**

This is a feature-based expiration tracking script have to run in the server side. Unfortunately, we do not have a product-based expiration tracking script.