



## 1 BASIC LICENSING SUPPORT

### 1.1 Overview

The following pages cover basic licensing support.

#### Network license server (network floating license) and local client machines.

**Requires license file and installation of license manager.  
Clients only require environment variable.**

New versions often require the latest version of the license manager.

#### Local machine (standalone unlimited).

**Requires only license file and an environment variable, no license manager installation.**

Same license file as from the self-service. Doesn't support remote access.

#### Dongle (local machine).

**Requires license file and dongle. Requires dongle driver installed (only MARINTEK requires installation of license manager).**

Marintek supports remote access, but not Sesam/Nauticus products.

### 1.2 Network license server (network floating license) and local client machines

**Requires license file and installation of license manager. Clients only require environment variable.**

New versions require the latest version of the license manager. If first time set up, simply **install the latest license manager (on 64 bit machine)**. The license file should typically be put in folder C:\Flexlm. this\_host is also a valid hostname.

Install license manager from NH package or Sesam DVD (from top level to include prerequisites), or download separately from: <https://projects.dnv.com/sesam/download/windows64/programs.html> (use sesam if requested for user and password).

If existing installation, then first check version, then upgrade if needed (see above).

If it is not working, send the following from the license server to us:

- C:\Flexlm\\*.lic files
- C:\Flexlm\dnvs.log file
- Start Flexlm tool (LMTTOOLS) and send us **output from Server Status and Server Diags** tabs.

If problem on the **client** side, send **screendump of error** in addition to the above.

The client machines require relevant system environment variable pointing to the license server, e.g.:

DNV Headquarters, Veritasveien 1, P.O.Box 300, 1322 Høvik, Norway. Tel: +47 67 57 99 00. [www.dnv.com](http://www.dnv.com)

```
DNVSLM_LICENSE_FILE = 2002@name-of-the-license-server
MARINTEK_LICENSE_FILE = 2002@name-of-the-license-server
MSC_LICENSE_FILE = 2002@name-of-the-license-server
SIMA_LICENSE_FILE = 2002@ name-of-the-license-server
```

How to set the system environment variable is described in:

[https://dnvds.lightning.force.com/lightning/r/Knowledge\\_\\_kav/ka00J000000g7niQAA/view](https://dnvds.lightning.force.com/lightning/r/Knowledge__kav/ka00J000000g7niQAA/view)

Note that firewall restrictions may limit the communication between server and client, and exceptions may have to be defined. Details about this can be found in the FAQ How to check firewall communication between Flexlm license server and client machine:

[https://dnvds.lightning.force.com/lightning/r/Knowledge\\_\\_kav/ka00J000000g7t7QAA/view](https://dnvds.lightning.force.com/lightning/r/Knowledge__kav/ka00J000000g7t7QAA/view)

Similar is also described in the license manager installation guide.

Example network floating license file:

```
dnvs_38BAF847D542_07.07.2021-07.23.20221231_network.lic - Notepad
File Edit Format View Help
## Start of DNV - Digital Solutions file
##
## Opportunity name: NH and SESAM - all programs (standalone) Self Service
## OrderId      : 0505-6990(S-03295)
## License type  : Network LAN
## Hostid       : 38BAF847D542
## Account Name  : DNV Høvik - Digital Solutions (Høvik, Norway)
## Contact       : Sanda Tomic (sanda.tomic@dnv.com)
## DNV owner     : Sanda Tomic (sanda.tomic@dnvgl.com)
## Generated    : 7/7/2021 7:23:13 AM by li.jun.lesley.yang@dnv.com
## Version      : 2.1.3.6
##
## Opportunities included:
#! 0505-6990(S-03295) 31-dec-2022                NH and SESAM - all programs (s
##
## This license file contains NETWORK (floating) licenses.
## This implies that this license file is valid to all
## computers on the same network as the server listed in
## the SERVER line below.
##
## This license file requires that the "License Service"
## is installed on the computer defined in the SERVER line
## below.
##
## Please do not edit this file as this may corrupt the
## contents of the file.
##
SERVER this_host 38BAF847D542 2002
USE_SERVER
VENDOR dnvs1m
#! -----
#! Opportunity orderid  : 0505-6990(S-03295)
#! Opportunity name     : NH and SESAM - all programs (standalone) Self Service
#! Opportunity stage    : Running Business
#! Opportunity type     : Annual Lease
#! -----
INCREMENT 3DBeam dnvs1m 2022.1231 31-dec-2022 120 SUPERSEDE \
DUP_GROUP=UH ISSUER=0505-6990(S-03295) ISSUED=07-jul-2021 \
BORROW=744 \

NOTICE=/s::0C10115D01099BF0D43829E180035FA8D8312F4966DE9CAAB8887AE2198FF2FD76D7B9647B7492E\
3D378AEC0293F2AD6755E20A0CC57 \
SN=000000001 SIGN=78DF0F5296C8
```

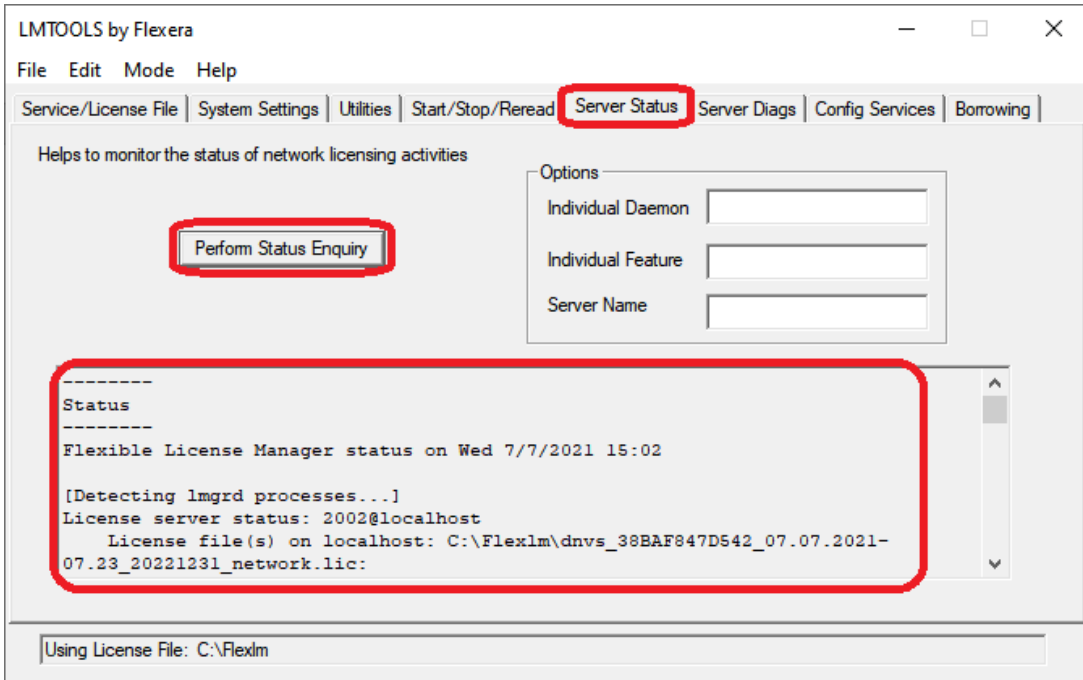


Example C:\Flexlm\dnvs.log file:

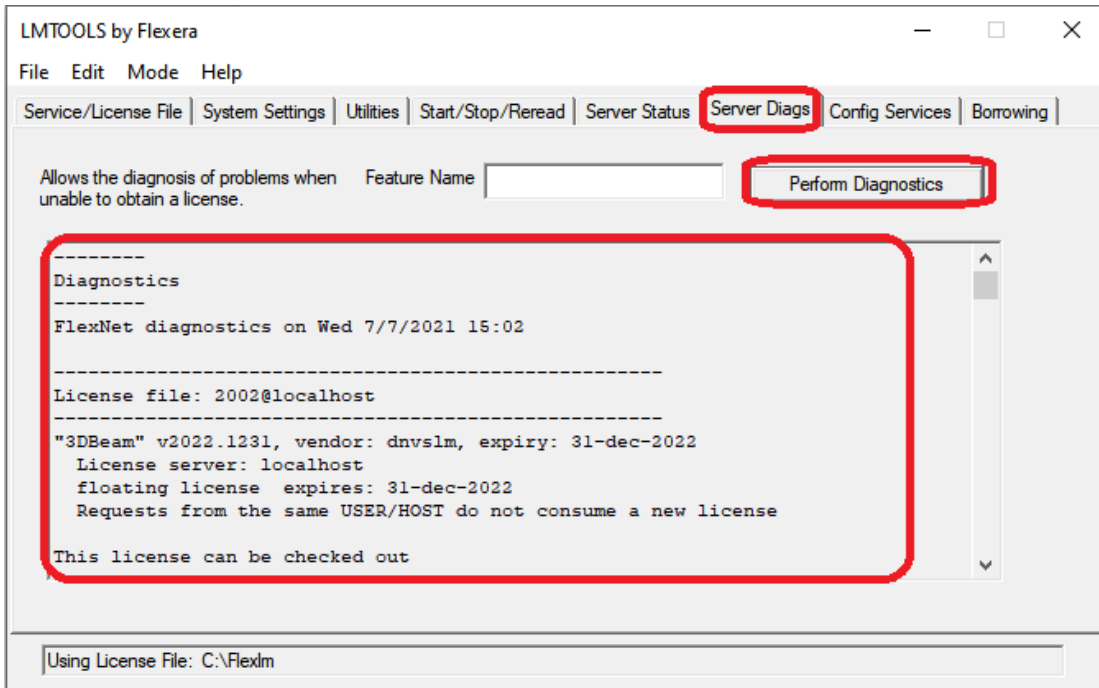
```
dnvs.log - Notepad
File Edit Format View Help
14:04:42 (lmgrd) World Wide Web: http://www.flexerasoftware.com
14:04:42 (lmgrd) License file(s): C:\Flexlm\dnvs_38BAF847D542_07.07.2021-07.23_20221231_network.lic
14:04:42 (lmgrd) lmgrd tcp-port 2002
14:04:42 (lmgrd) (@lmgrd-SLOG@) =====
14:04:42 (lmgrd) (@lmgrd-SLOG@) === LMGRD ===
14:04:42 (lmgrd) (@lmgrd-SLOG@) Start-Date: Wed Jul 07 2021 14:04:42 China Standard Time
14:04:42 (lmgrd) (@lmgrd-SLOG@) PID: 17800
14:04:42 (lmgrd) (@lmgrd-SLOG@) LMGRD Version: v11.17.0.0 build 264148 x64_n6 ( build 264148 (ipv6))
14:04:42 (lmgrd) (@lmgrd-SLOG@)
14:04:42 (lmgrd) (@lmgrd-SLOG@) === Network Info ===
14:04:42 (lmgrd) (@lmgrd-SLOG@) Listening port: 2002
14:04:42 (lmgrd) (@lmgrd-SLOG@)
14:04:42 (lmgrd) (@lmgrd-SLOG@) === Startup Info ===
14:04:42 (lmgrd) (@lmgrd-SLOG@) Is LS run as a service: Yes
14:04:42 (lmgrd) (@lmgrd-SLOG@) Server Configuration: Single Server
14:04:42 (lmgrd) (@lmgrd-SLOG@) Command-line options used at LS startup: -c C:\Flexlm -l C:\Flexlm\dnvs.log -z -s
14:04:42 (lmgrd) (@lmgrd-SLOG@) License file(s) used: C:\Flexlm\dnvs_38BAF847D542_07.07.2021-07.23_20221231_network.lic
14:04:42 (lmgrd) (@lmgrd-SLOG@) =====
14:04:42 (lmgrd) SLOG: FNPLS-INTERNAL-VL1-4096
14:04:42 (lmgrd) Starting vendor daemons ...
14:04:44 (lmgrd) Started dnvs1m (pid 17868)
14:04:44 (dnvs1m) FlexNet Licensing version v11.17.0.0 build 264148 x64_n6
14:04:44 (dnvs1m) SLOG: Summary LOG statistics is enabled.
14:04:44 (dnvs1m) SLOG: FNPLS-INTERNAL-CKPT1
14:04:44 (dnvs1m) SLOG: VM Status: 0
14:04:44 (dnvs1m) SLOG: FNPLS-INTERNAL-CKPT5
14:04:44 (dnvs1m) SLOG: TPM Status: 0
14:04:44 (dnvs1m) SLOG: FNPLS-INTERNAL-CKPT6
14:04:44 (dnvs1m) Server started on SHAL800221 for: 3DBeam
14:04:44 (dnvs1m) ANSS AxialVib Basic
14:04:44 (dnvs1m) CGUL CONCODE ControllablePitchMech
14:04:44 (dnvs1m) CrankshaftFatigue CSFAT CUTRES
14:04:44 (dnvs1m) DEEPC DEEPC__ANCH DEEPC__CASPER
14:04:44 (dnvs1m) DEEPC__CODE DEEPC__CPLD DEEPC__FATG
14:04:44 (dnvs1m) DEEPC__POST DEEPC__RISE DEEPC__CASPER
```

Alternative debugging using LMTTOOLS

Example LMTTOOLS - lmstat:



Example LMTTOOLS - lmdiag:



### 1.3 Local machine (standalone unlimited)

Requires only license file and an environment variable, no license manager installation.

Same type of license file as the self-service. No SERVER line.

No service running since there is no installation, thus no log file either.  
this\_host is also a valid hostname.

Simply put the file in C:\Flexlm folder and set the system environment variable:

```
DNVSLM_LICENSE_FILE = C:\Flexlm  
MARINTEK_LICENSE_FILE = C:\Flexlm
```

Example standalone unlimited license:

```
dnvs_38BAF847D542_07.07.2021-07.11.20221231_standalone.lic - Notepad  
File Edit Format View Help  
### Start of DNV - Digital Solutions license file  
###  
## Opportunity name: NH and SESAM - all programs (standalone) Self Service  
## OrderId      : 0505-6990(S-03295)  
## License type : Standalone  
## Hostid       : 38BAF847D542  
## Account Name : DNV Høvik - Digital Solutions (Høvik, Norway)  
## Contact      : Sanda Tomic (sanda.tomic@dnv.com)  
## DNV owner    : Sanda Tomic (sanda.tomic@dnvgl.com)  
## Generated    : 7/7/2021 7:11:08 AM by li.jun.lesley.yang@dnv.com  
## Version      : 2.1.3.6  
##  
## Opportunities included:  
#! 0505-6990(S-03295) 31-dec-2022          NH and SESAM - all programs (s  
##  
## This license file contains STANDALONE UNLIMITED licenses.  
## This implies that this license file is valid only on the  
## computers that are listed in the HOSTID= fields in the  
## INCREMENT lines below.  
##  
## Please do not edit this file as this may corrupt the  
## contents of the file.  
##  
#! -----  
#! Opportunity orderid : 0505-6990(S-03295)  
#! Opportunity name    : NH and SESAM - all programs (standalone) Self Service  
#! Opportunity stage   : Running Business  
#! Opportunity type    : Annual Lease  
#! -----  
INCREMENT 3DBeam dnvslm 2022.1231 31-dec-2022 uncounted \  
HOSTID=38baf847d542 ISSUER=0505-6990(S-03295) \  
ISSUED=07-jul-2021 \  
  
NOTICE=/s::0EBF436ADF9E0929EF7E13461BAA5E27D929A84DC08A351287BCC058A0384A64185ED4584502E  
9AE76006E66776AF6D00F3AADFF4C \  
SN=000000001 SIGN=56414BD087BE
```

Need to copy or install license manager to run LMTTOOLS, but usually all needed info are found in the error message from the application.

## 1.4 Dongle (local machine)

**Requires license file and dongle. Requires dongle driver installed (only MARINTEK requires installation of license manager too).**

Other programs don't need installation of license manager. A dongle license is like a standalone license, but locked to the dongle instead of the machine physical address. A dongle may be used on many machines, but only one machine at a time.

Error message about **invalid host** indicates that dongle is **not recognized**. Check that dongle lamp is lit. If not recognized, first try to (re)install the dongle driver from:

[https://projects.dnv.com/sesam/download/windows64/DongleDriver64\\_111501\\_inst\\_w64.zip](https://projects.dnv.com/sesam/download/windows64/DongleDriver64_111501_inst_w64.zip)

Driver should be installed before mounting the dongle the first time (to avoid auto-installation of driver found on Windows update).

May try dongle in different USB port and only remove other dongles.

If still not recognized, try this local link to see if the dongle is recognized:

[http://localhost:1947/\\_int\\_/devices.html](http://localhost:1947/_int_/devices.html)

You may also install Flexlm and use LMTTOOLS to check that the dongle is recognized (or not). Dongle driver can also be installed together with Flexlm (check Install dongle driver option during installation) or from vendor site

[https://supportportal.gemalto.com/csm?id=kb\\_article\\_view&sysparm\\_article=KB0018319](https://supportportal.gemalto.com/csm?id=kb_article_view&sysparm_article=KB0018319)

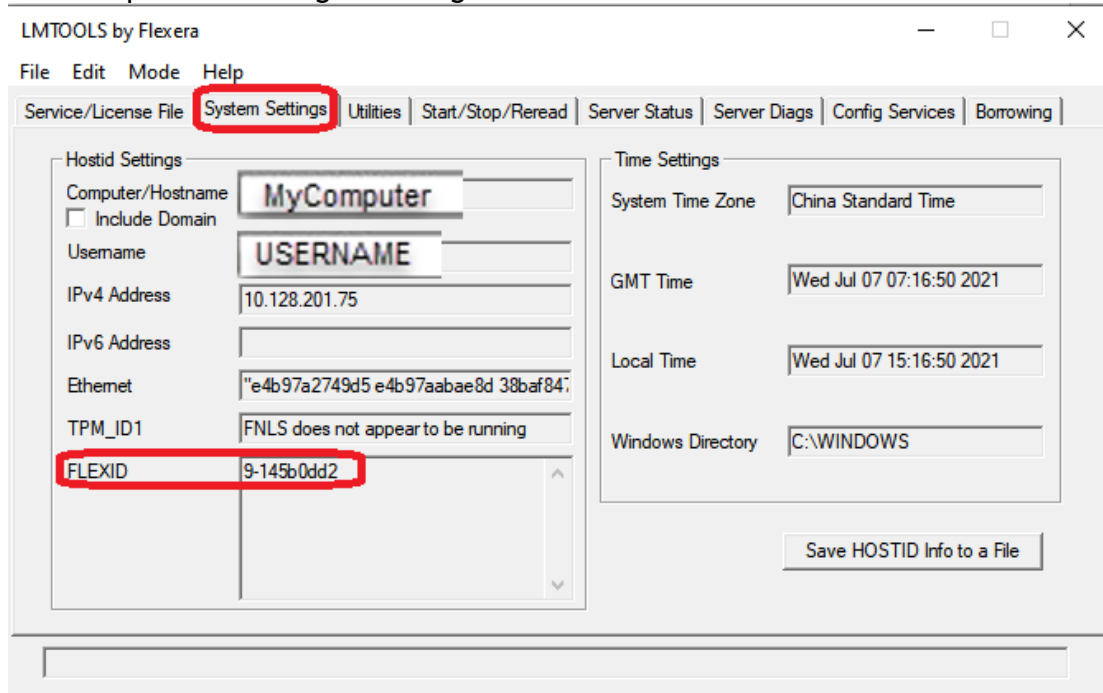
For **MARINTEK** dongles, check that the license manager is installed and that the service is running (check dnvs.log file). Dongle must be **mounted before restarting** service or rebooting. Use this\_host for server name, e.g. 2002@this\_host.

Relevant system environment variables:

```
DNVSLM_LICENSE_FILE = C:\Flexlm  
MARINTEK_LICENSE_FILE = 2002@this_host  
SIMA_LICENSE_FILE = 2002@this_host
```

Whilst most new program versions (possibly since 2016) has the new common licensing component that supports multiple dongles, programs built with the old licening (auxlib) component only supports one dongle mounted at the time.

- Example where dongle is recognized:



- Example dongle license file (standalone unlimited except MARINTEK programs):

dnvs\_FLEXID=9-145B0DD2\_07.07.2021-07.05.20221231.lic - Notepad

File Edit Format View Help

## Start of DNV - Digital Solutions license file

##

## Opportunity name: NH and SESAM - all programs (standalone) Self Service

## OrderId : 0505-6990(S-27843)

## License type : Dongle

## Hostid : FLEXID=9-145B0DD2

## Account Name : DNV Høvik - Digital Solutions (Høvik, Norway)

## Contact : Sanda Tomic (sanda.tomic@dnv.com)

## DNV owner : Sanda Tomic (sanda.tomic@dnvgl.com)

## Generated : 7/7/2021 7:05:35 AM by li.jun.lesley.yang@dnv.com

## Version : 2.1.3.6

##

## Opportunities included:

#! 0505-6990(S-27843) 31-dec-2022 NH and SESAM - all programs (s

##

## This license file contains **STANDALONE UNLIMITED** licenses.

## This implies that this license file is valid only on the

## computers that are listed in the HOSTID= fields in the

## INCREMENT lines below.

##

## Please do not edit this file as this may corrupt the

## contents of the file.

##

#! -----

#! Opportunity orderid : 0505-6990(S-27843)

#! Opportunity name : NH and SESAM - all programs (standalone) Self Service

#! Opportunity stage : Running Business

#! Opportunity type : Annual Lease

#!

INCREMENT 3DBeam dnvs1m **2022.1231** **31-dec-2022** **uncounted** \

HOSTID=FLEXID=9-145B0DD2 ISSUER=0505-6990(S-27843) \

ISSUED=07-jul-2021 \

## 1.5 Typical error message from new licensing component



Note especially the error message, feature/increment name, license path (=DNVSLM\_LICENSE\_FILE) and DISK\_SERIAL\_NUMBER (= available hostids), Flexlm version of application/licensing component and license version (=version/build date of application/program).

A list of error codes information may be searched in Google or similar, or also [https://community.flexera.com/t5/Flexera-Software-Community/ct-p/Flexera\\_Software\\_Community](https://community.flexera.com/t5/Flexera-Software-Community/ct-p/Flexera_Software_Community)

Author: Berg, Håkon; April 9<sup>th</sup>, 2020  
Updated: Li, Zheng Nan Anna; July 7<sup>th</sup>, 2021