Step By Step installation
FlexLM Floating License for CodeWarrior

V. Leynaert –FAE Freescale – Sept 2011

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This tutorial shows how to install FlexLM license server with floating license for the CW tools

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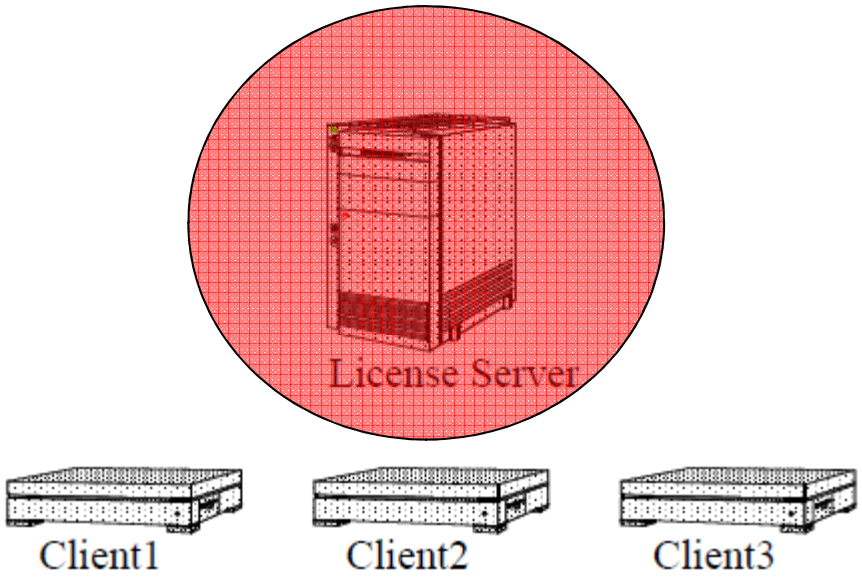
Installation on server side



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Download the License manager installers (for the server of license)

Currently it is on Freescale Web site
http://www.freescale.com/webapp/sps/site/overview.jsp?code=CW_LICENSE_FXDL_LMI
or
http://www.freescale.com/webapp/sps/site/overview.jsp?nodeId=0127262444119D11A0

Documentation about FlexLM software can be found at :

http://cache.freescale.com/files/soft_dev_tools/doc/user_guide/FLEXIMLICMNGTUG.pdf?fsrch=1&WT_TYPE=Users%20Guides&WT_VENDOR=FREESCALE&WT_FILE_FORMAT=pdf&WT_ASSET=Documentation&sr=7

FAQ

http://www.freescale.com/webapp/sps/site/overview.jsp?code=CW_LICENSE_FAQ&fsrch=1&sr=3

Install

Install the FLEXlm License Manager on your license server.
Depending on your privileges, this has to be done by the server administrator
Log as a user with enough privileges (e.g. Administrator).
Start the FLEXlm License Manager (lmtools.exe).

[NOTE]
The License Manager installation contains all the deamons you need for your license.
For example if you already have the FLEXlm license manager installed from another FLEXlm based product, you may only need the vendor daemon.
The vendor daemons will need to be installed on your license server machine.
Your license server administrator should be able to guide you regarding where these should be placed.
So if you need vendor Daemons they are located at:
http://www.freescale.com/webapp/sps/site/overview.jsp?nodeId=0127262444119D11A3

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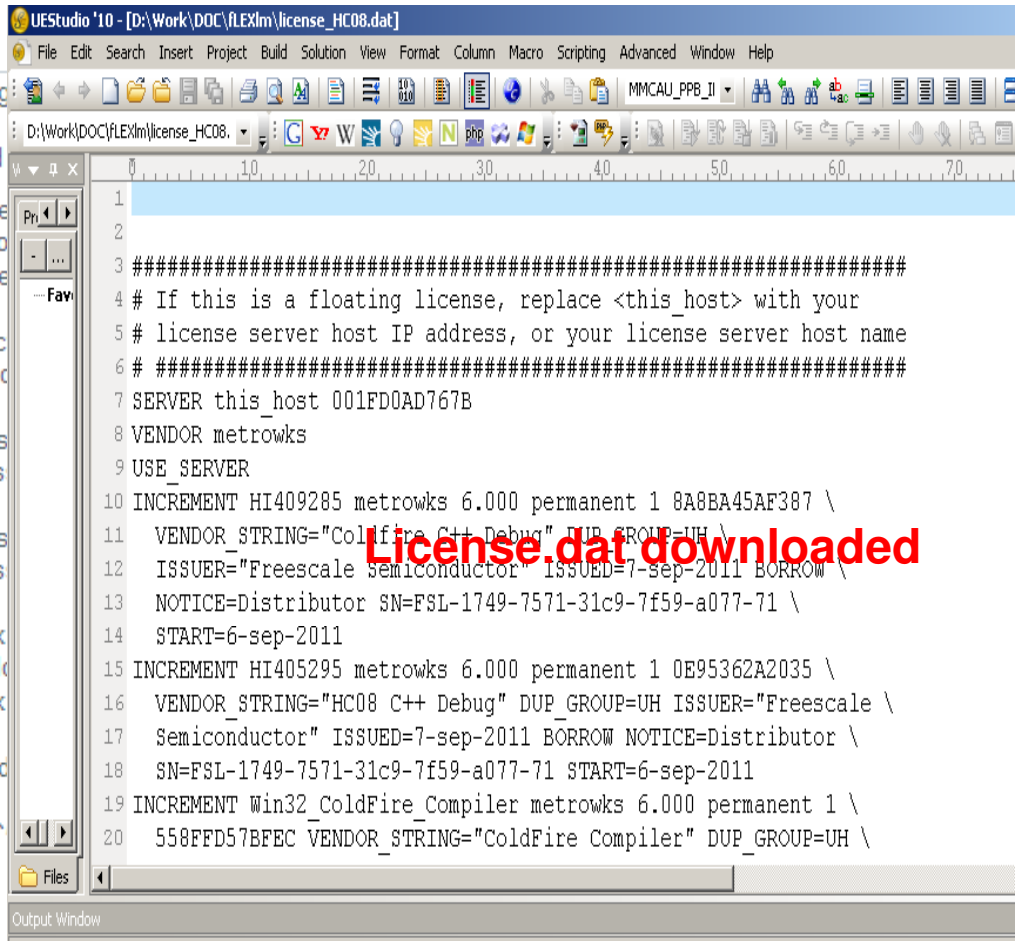
Products you are entitled to license:

Part Number	Version	Description
CWS-568-PRO-LX	8.30	CodeWarrior 56800/E Digital Sig Controllers - Standard Edition
CWS-68K-FLT	3.20	CodeWarrior for 68K Embedded
CWS-MCF-LLPLT-LX	2.20	CodeWarrior for ColdFire Archite Linux Platform Edition (Linux Ho
CWS-MCF-PROED-LX	720	CodeWarrior for ColdFire Archite Professional Edition
CWS-MCF-WLAPP-LX	2.40	Codewarrior for Coldfire Architec Linux Application Edition (Windo Hosted)
CWS-MCU-PROED-LX	10.10	CodeWarrior for Microcontrollers Hosted, Eclipse based) - Profes Edition
CWS-MCU-PROLH-LX	10.10	CodeWarrior for Microcontrollers Hosted, Eclipse based) - Profes Edition
CWS-MGT-LINWH-LX	9.00	CodeWarrior for mobileGT Linux Application Edition (Windows Ho
CWS-MGT-LLPLT-LX	9.00	CodeWarrior for mobileGT Linux Edition (Linux Hosted)
CWS-MGT-LX	9.00	CodeWarrior for mobileGT (Wind Hosted) - Professional Edition
CWS-MPC-5500P-LX	2.80	CodeWarrior for MPC55xx/MPC

MyFreescale/CodeWarrior licensing



License.dat downloaded

Pre-requisiste :

You need a license.dat file supplied by Freescale for use as a « floating license »
Log on Freescale website and go to your MyFreescale/CodeWarrior licensing to get the list of CW products you are licensed for.
2. Download one or several license.dat files related to the CW version you want to use (and rename with specific names to differentiate and remember the license file content)

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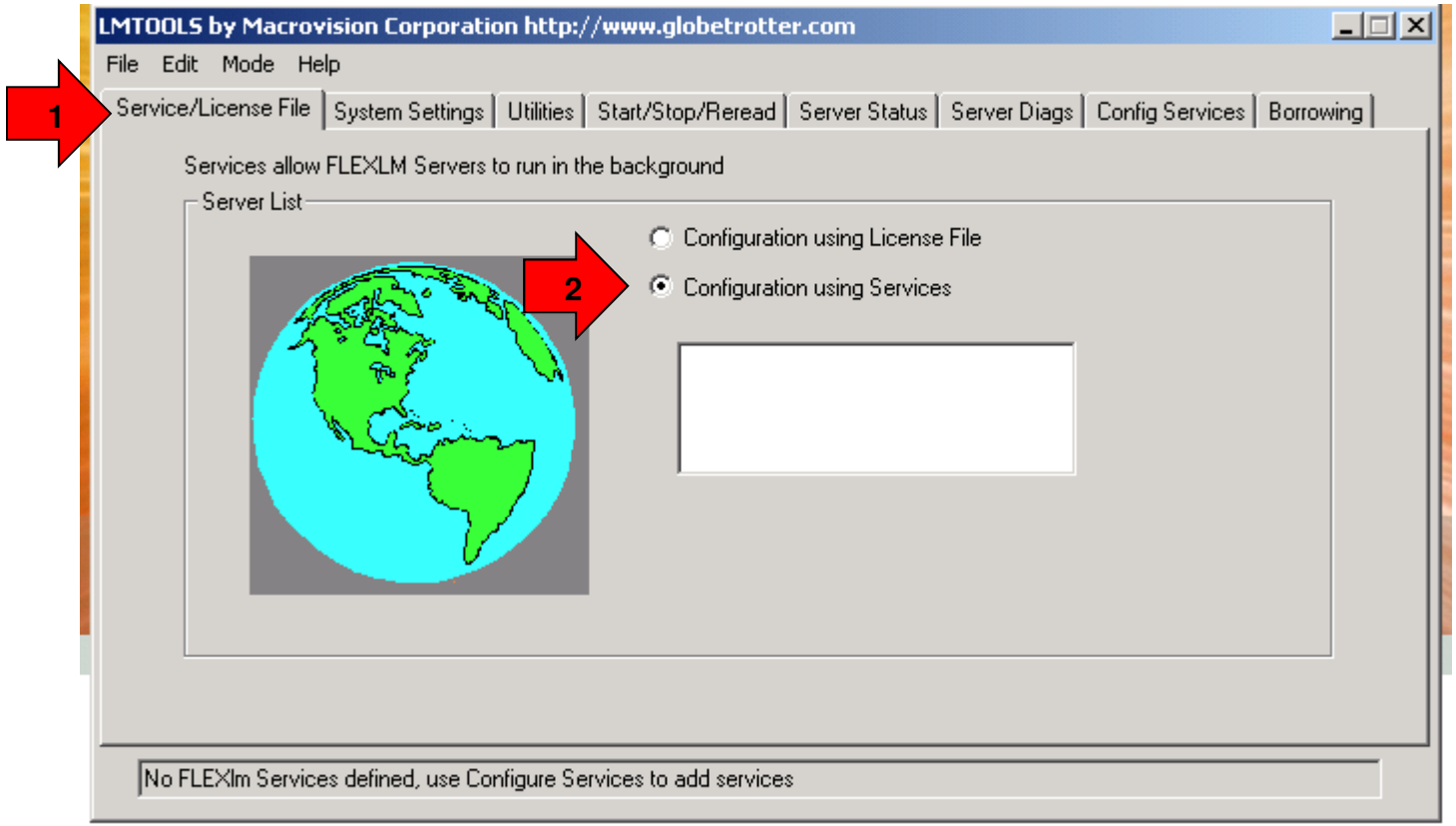

Start FlexLM license manager (lmtools.exe previouslty installed)

1 Select Tab Service/License file (1st Tab in the tool)
2.Check "Configuration using Services (for WIN XP/NT)

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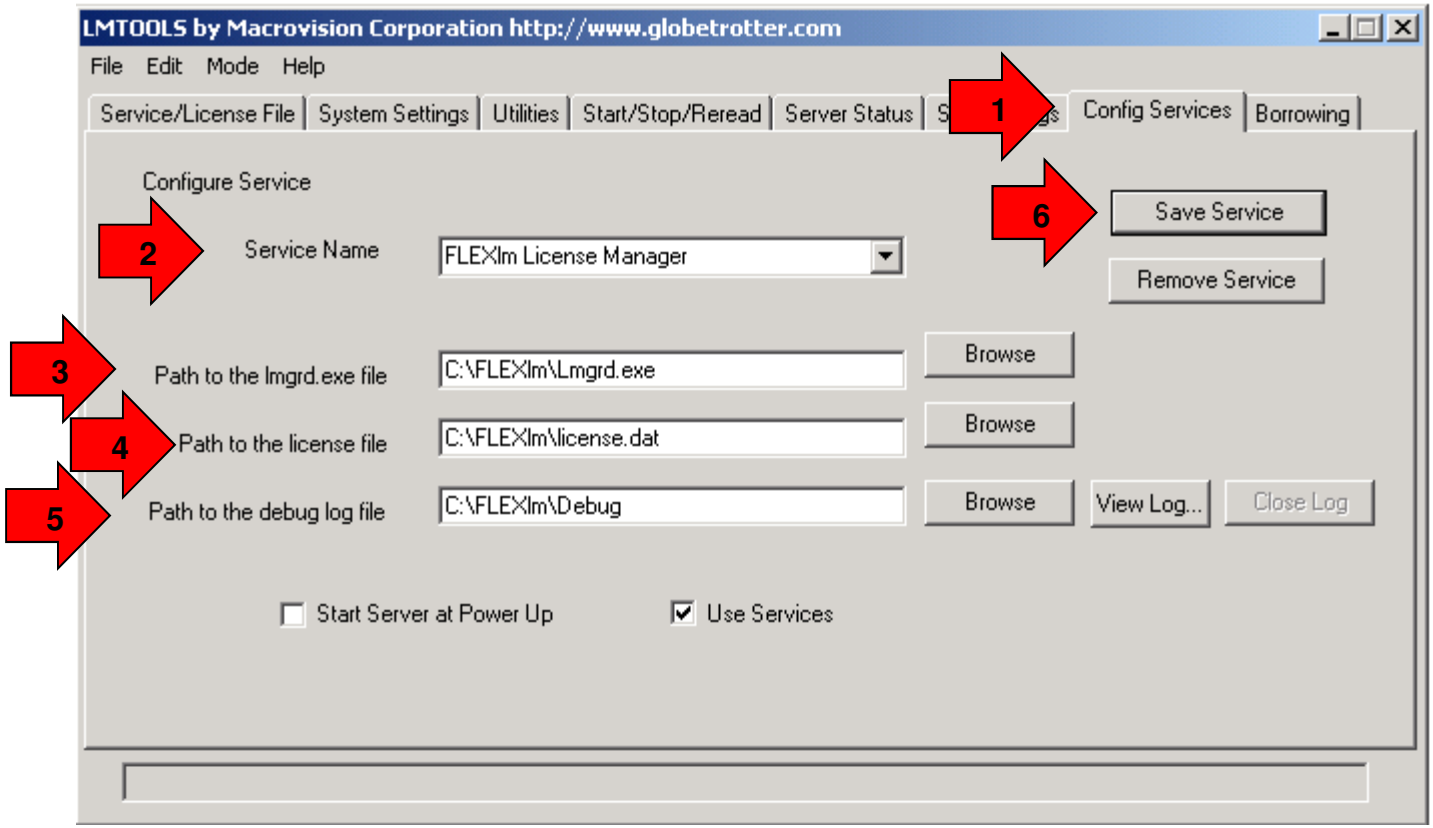

1. Choose the "Config Services" tab (7th tab in the tool's main window)
2. Type 'FLEXlm License Manager' or any other name (if the service is already used by a deamon) in the service name field
4. lmgrd.exe has to be 'lmgrd.exe' (in the Path where you installed FlexLM)
3. Locate your License File on the disk for example simply 'C:\FLEXlm\license.dat'.
Note : We will explain later how to build a licence.dat for several CW tools versions
4. Debug Log File can remain empty or you type a filename to have of FlexlM activity LOG
5. For WinNT/XP, check 'Use NT Services'
6. Click on save service

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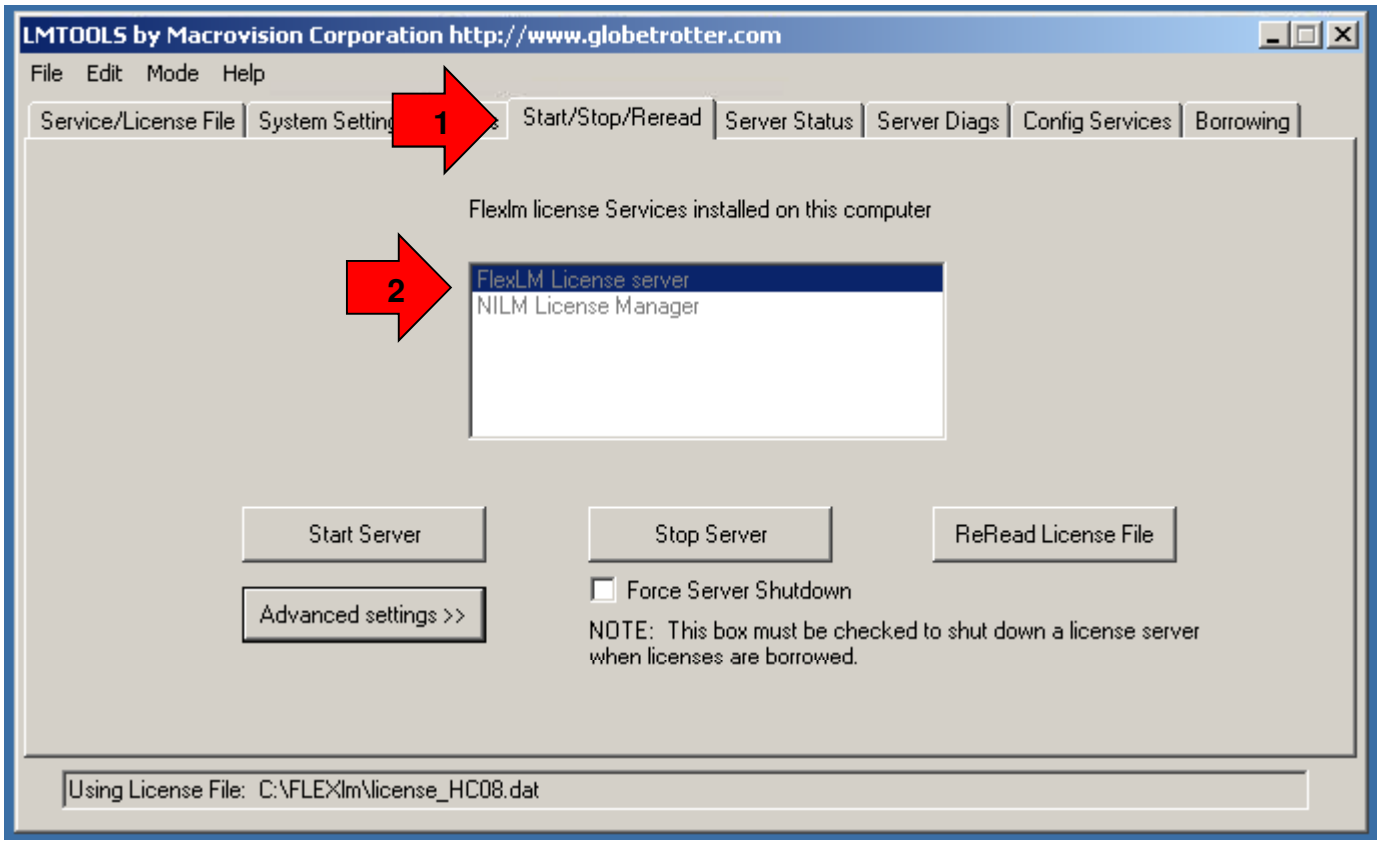

1. Choose the "Start/Stop/Reread" tab
2. You can see here the “FlexLM licence server” listed
Note : Other license servers are listed also here

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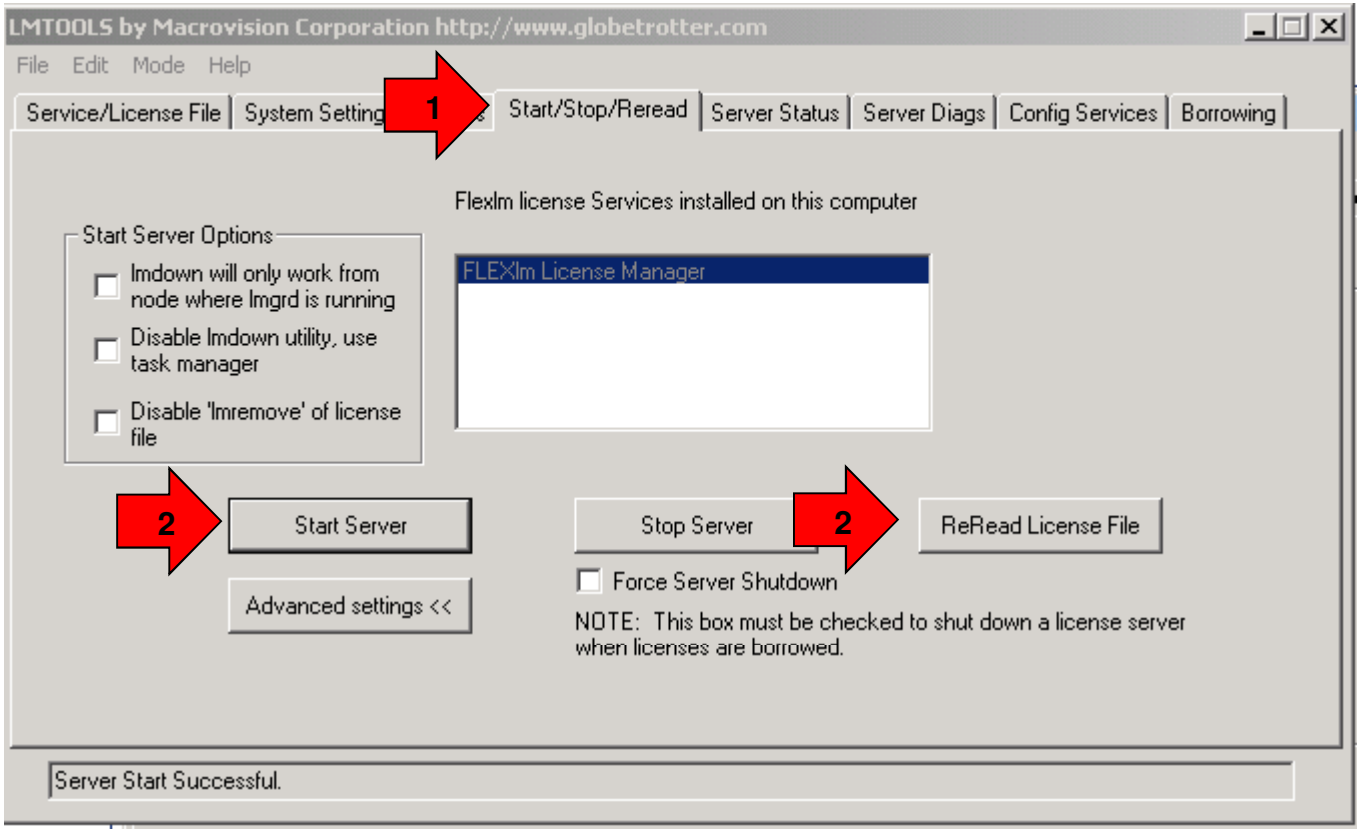

1. Choose the "Start/Stop/Reread" tab
2. You can now start the service clicking the 'Start' button.
3. Eventually you can ReRead license file (if you change/update the License file)

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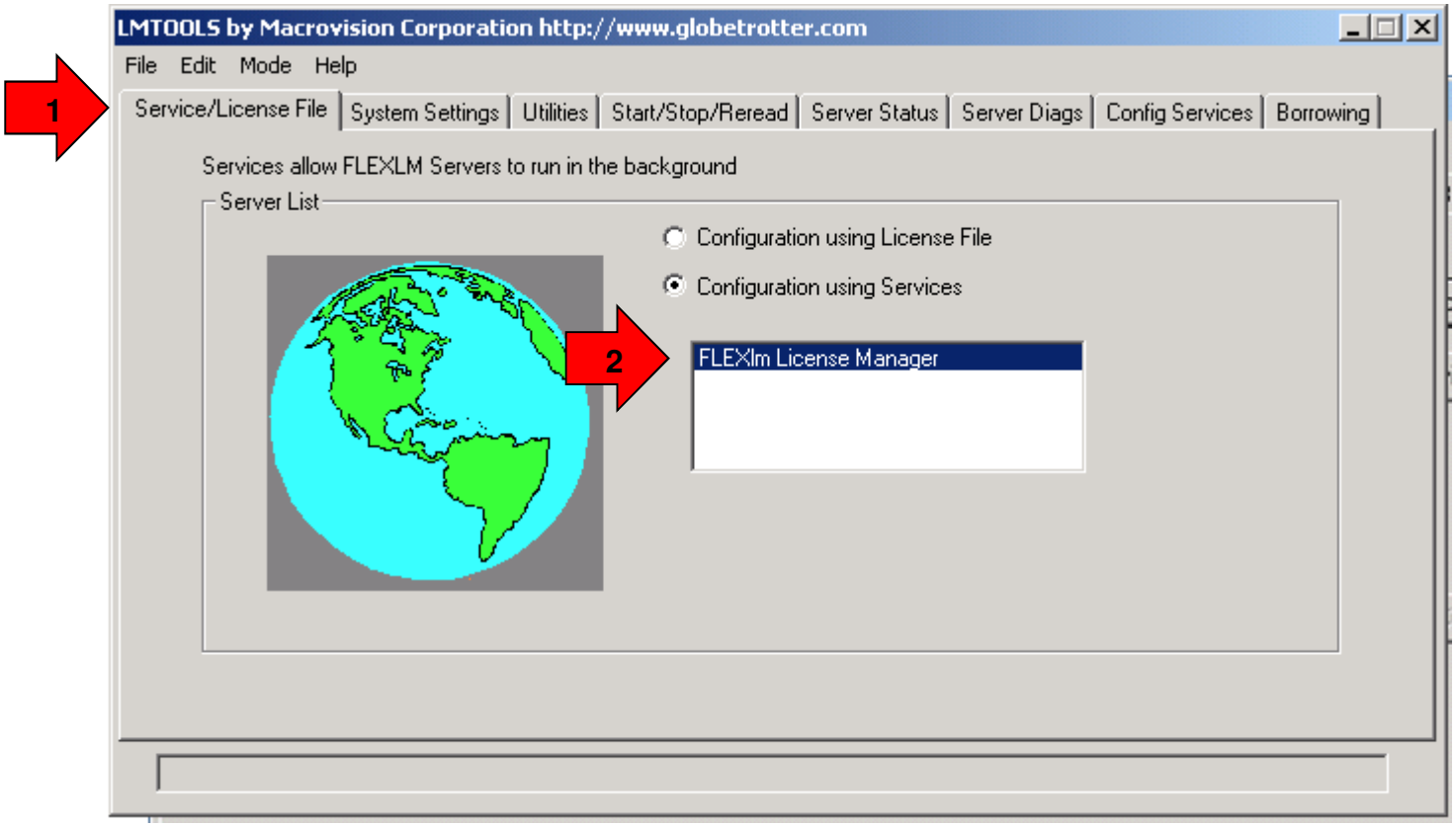

1 Select Tab Service/License file (1st Tab in the tool)
2. You can notice that the "FlexIm license Manager" is listed

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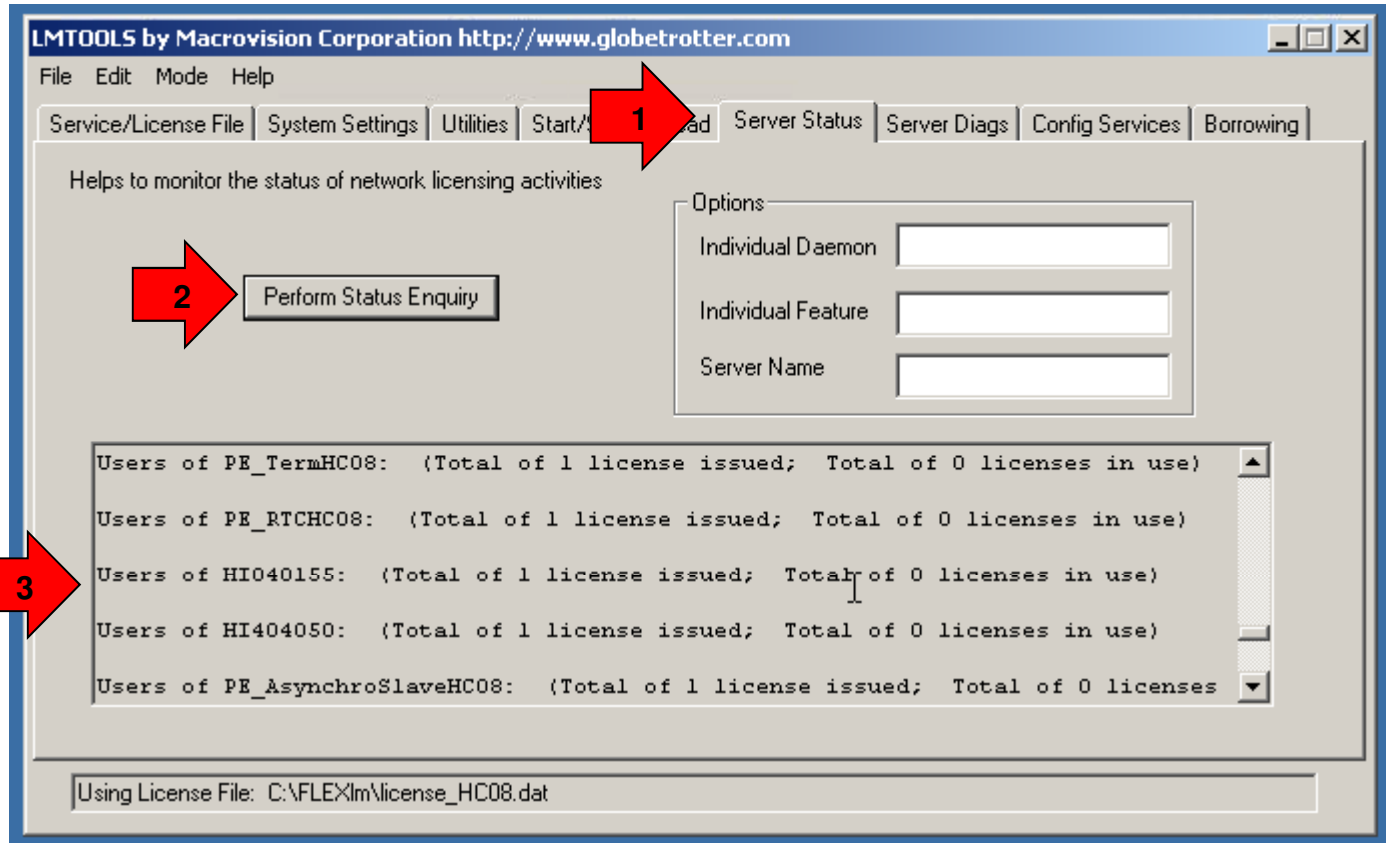

1. Choose the “Server status" tab (5th tab in the tool’s main window)
2. You can check that license information contained in license.dat had been correctly parsed and extracted by clicking “perform Status Enquiry”
3. In the Log windows you see the list of license availables

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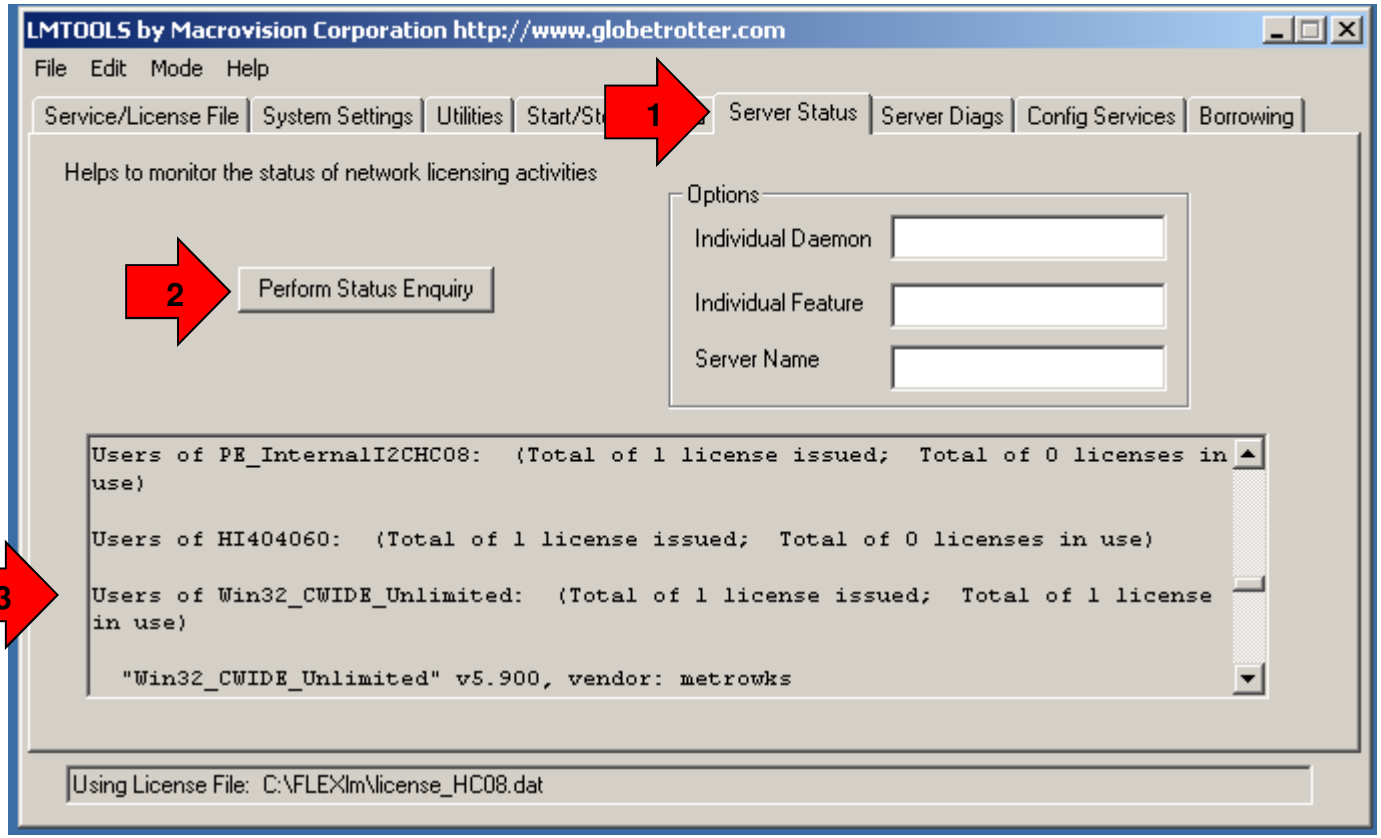

You can monitor license used in real time

1. **Choose the “Server status" tab (5th tab in the tool’s main window)**
2. **In the Log windows you can see for example that on one license is available and is used by a client**

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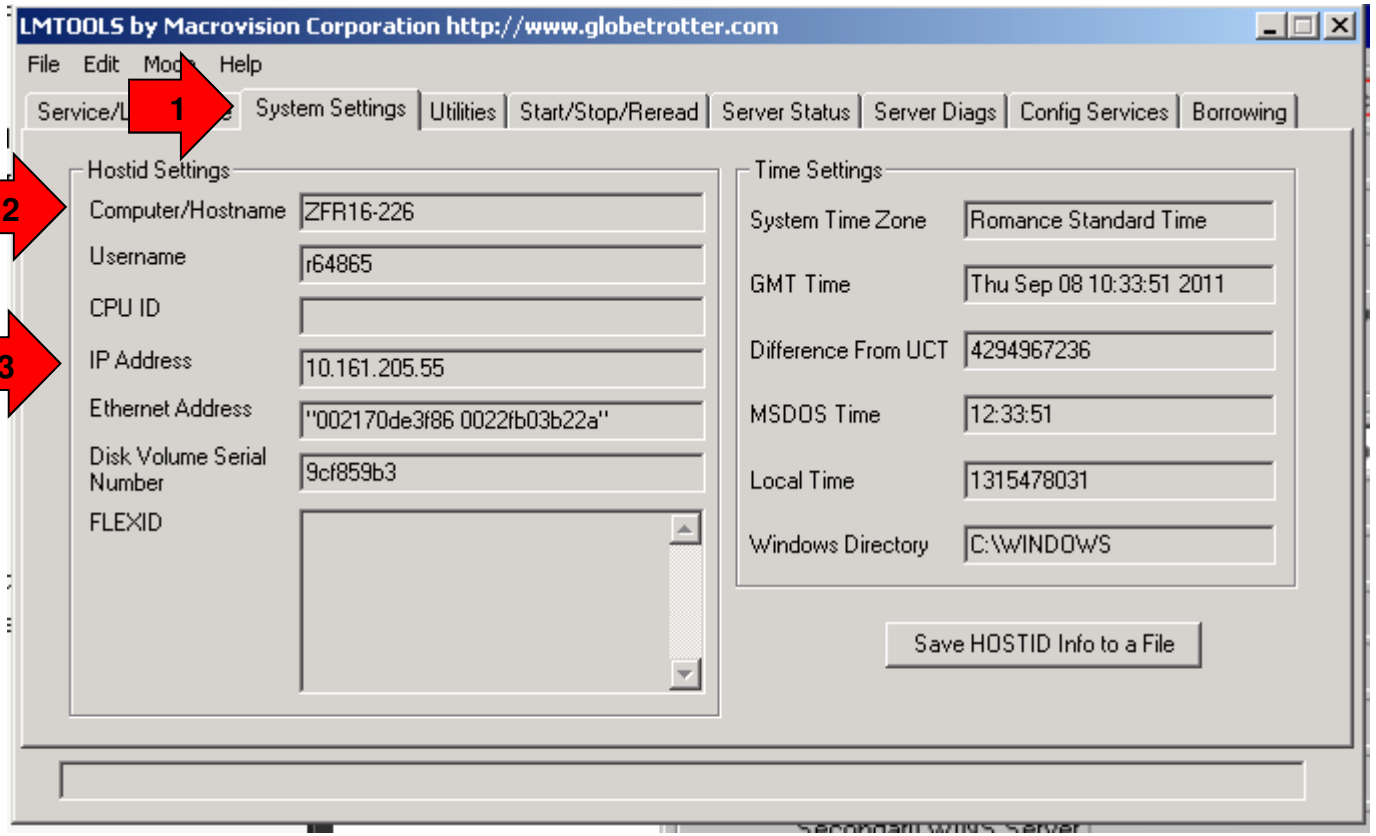

Before QUIT the FlexLM server interface utility
Note or Save the details of the server name or ip address

1. **Choose the “System settings" tab (3rd tab in the tool’s main window)**
2. **In the windows you see the Hostname of the server**
3. **Or you see the IP address**

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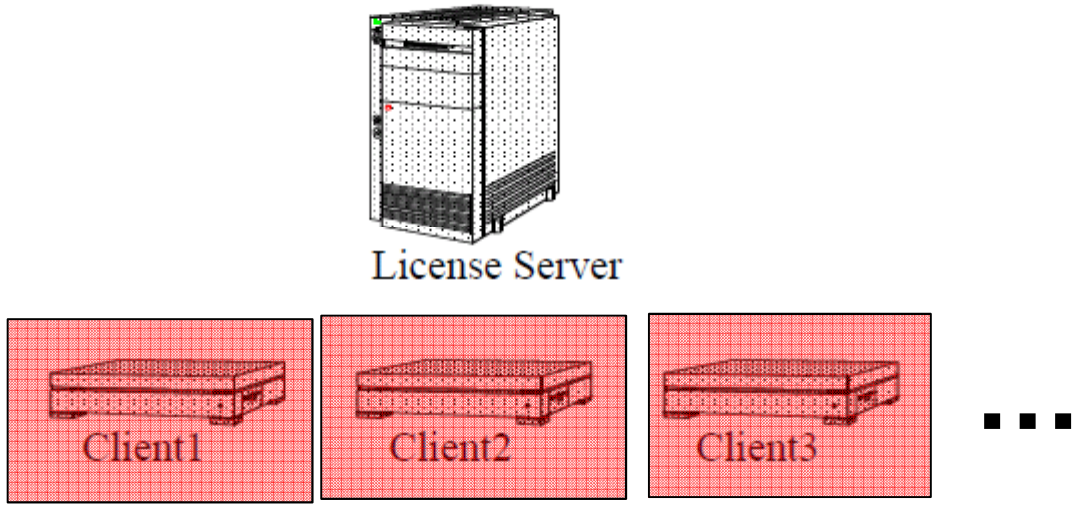
Installation on client side



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if not done already or not supplied directly by server administrator
You need to download one or several files « license.dat » from Freescale
Download only the one related to the CW version you use (MCU 8 bits, 16 bits…)

1. Log on Freescale website and go to your MyFreescale/CodeWarrior licensing to get the list of product you are licensed for
2. Download each file license.dat and rename with a specific name to remember the license file content

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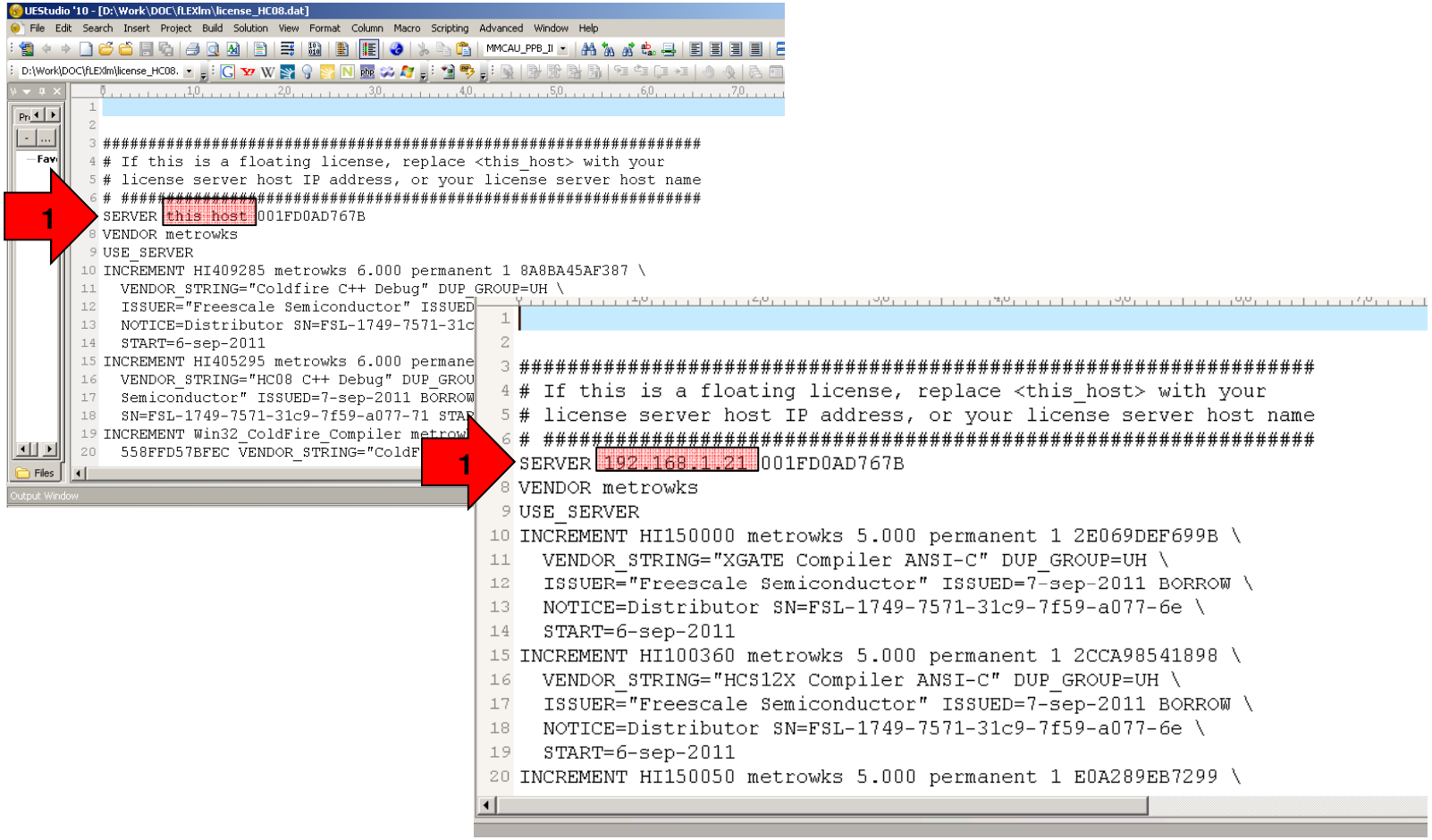

1. Edit the license.dat file (this is the same as used on server side)

2. Replace « this_host » by ip adress or Host name on your network

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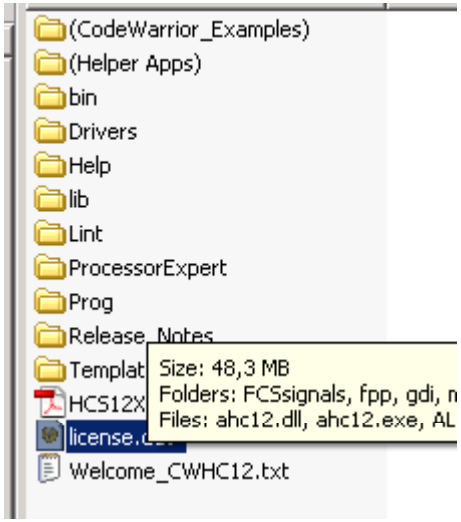

1. **Save the file where in the code warrior installation is installed**

Note : For each code warrior you need to replace the current license.dat by the proper license.dat with network reference to the license server

Start CodeWarrior and it is DONE !!!

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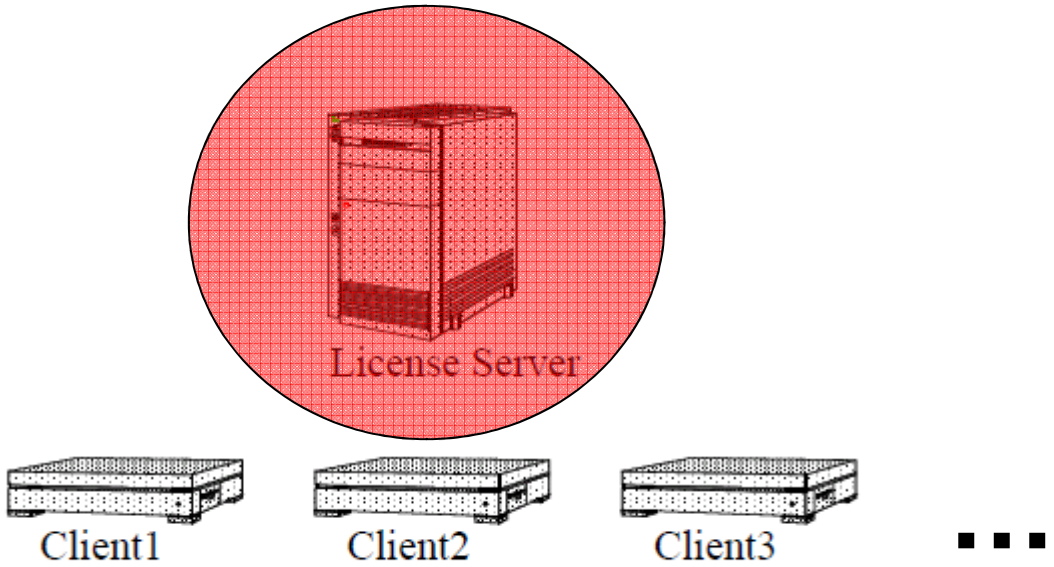
Addendum

How to combine licenses of several CW tools on server side



Detailed presentation is :

http://www.freescale.com/webapp/sps/site/overview.jsp?nodeId=015210272624448523#FLOATCOMPANY

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```
#####################################################################
# If this is a floating license, replace <this_host> with your
# license server host IP address, or your license server host name
# ###################################################################
SERVER this_host 001FD0AD767B
VENDOR metrowks
USE_SERVER
INCREMENT HI409285 metrowks 6.000 permanent 1 8A8BA45AF387 \
  VENDOR_STRING="Coldfire C++ Debug" DUP_GROUP=UH \
  ISSUER="Freescale Semiconductor" ISSUED=7-sep-2011 BORROW \
  NOTICE=Distributor SN=FSL-1749-7571-31c9-7f59-a077-71 \
  START=6-sep-2011
INCREMENT HI405295 metrowks 6.000 permanent 1 0E95362A2035 \
  VENDOR_STRING="HC08 C++ Debug" DUP_GROUP=UH ISSUER="Freescale \
  Semiconductor" ISSUED=7-sep-2011 BORROW NOTICE=Distributor \
  SN=FSL-1749-7571-31c9-7f59-a077-71 START=6-sep-2011
INCREMENT Win32_ColdFire_Compiler metrowks 6.000 permanent 1 \
  558FFD57BFEC VENDOR_STRING="ColdFire Compiler" DUP_GROUP=UH \
  ISSUER="Freescale Semiconductor" ISSUED=7-sep-2011 BORROW \
  NOTICE=Distributor SN=FSL-1749-7571-31c9-7f59-a077-71 \
  START=6-sep-2011
INCREMENT PE_InternalI2CHC08 metrowks 1.000 permanent 1 57447579F196
  VENDOR_STRING="098762ED6302E6B50E8DF2881843452F, Internal I2C \
  Communication Interface" DUP_GROUP=UH ISSUER="Freescale \
  Semiconductor" ISSUED=7-sep-2011 BORROW NOTICE=Distributor \
  SN=FSL-1749-7571-31c9-7f59-a077-71 START=6-sep-2011
INCREMENT HI404060 metrowks 6.000 permanent 1 853D19E20CD4 \
  VENDOR_STRING="Session Recorder and Player" DUP_GROUP=UH \
  ISSUER="Freescale Semiconductor" ISSUED=7-sep-2011 BORROW \
```

1

2

```
#####################################################################
# If this is a floating license, replace <this_host> with your
# license server host IP address, or your license server host name
# ###################################################################
SERVER this_host 001FD0AD767B
VENDOR metrowks
USE_SERVER
INCREMENT HI409285 metrowks 6.000 permanent 1 8A8BA45AF387 \
  VENDOR_STRING="Coldfire C++ Debug" DUP_GROUP=UH \
  ISSUER="Freescale Semiconductor" ISSUED=7-sep-2011 BORROW \
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  Semiconductor" ISSUED=7-sep-2011 BORROW NOTICE=Distributor \
  SN=FSL-1749-7571-31c9-7f59-a077-71 START=6-sep-2011
INCREMENT HI404060 metrowks 6.000 permanent 1 853D19E20CD4 \
  VENDOR_STRING="Session Recorder and Player" DUP_GROUP=UH \
  ISSUER="Freescale Semiconductor" ISSUED=7-sep-2011 BORROW \
```

▪ ▪ ▪

Here we will described and example how to support 2 CW tool version on the server of licenses
You 2 license.dat supplied by Freescale for each of the CW tool versions
Download these from Freescale website (if not done already)
So we have

1. **One file we named « license_HC08.dat » (for 8 bits series of MCU, classic IDE)**
2. **Second file we name « license.S12.dat » (for A6 bits series of MCU, classic IDE)**

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```
#####################################################################
# If this is a floating license, replace <this_host> with your
# license server host IP address, or your license server host name
# #####################################################################
SERVER this_host 001FD0AD767B
VENDOR metrowks
USE_SERVER
INCREMENT HI409285 metrowks 6.000 permanent 1 8A8BA45AF387 \
  VENDOR_STRING="Coldfire C++ Debug" DUP_GROUP=UH \
  ISSUER="Freescale Semiconductor" ISSUED=7-sep-2011 BORROW \
  NOTICE=Distributor SN=FSL-1749-7571-31c9-7f59-a077-71 \
  START=6-sep-2011
INCREMENT HI405295 metrowks 6.000 permanent 1 0E95362A2035 \
  VENDOR_STRING="HC08 C++ Debug" DUP_GROUP=UH ISSUER="Freescale \
  Semiconductor" ISSUED=7-sep-2011 BORROW NOTICE=Distributor \
  SN=FSL-1749-7571-31c9-7f59-a077-71 START=6-sep-2011
INCREMENT Win32_ColdFire_Compiler metrowks 6.000 permanent 1 \
  558FFD57BFEC VENDOR_STRING="ColdFire Compiler" DUP_GROUP=UH \
  ISSUER="Freescale Semiconductor" ISSUED=7-sep-2011 BORROW \
  NOTICE=Distributor SN=FSL-1749-7571-31c9-7f59-a077-71 \
  START=6-sep-2011
INCREMENT PE_InternalI2CHC08 metrowks 1.000 permanent 1 57447579F196
  VENDOR_STRING="098762ED6302E6B50E8DF2881843452F, Internal I2C \
  Communication Interface" DUP_GROUP=UH ISSUER="Freescale \
  Semiconductor" ISSUED=7-sep-2011 BORROW NOTICE=Distributor \
  SN=FSL-1749-7571-31c9-7f59-a077-71 START=6-sep-2011
INCREMENT HI404060 metrowks 6.000 permanent 1 853D19E20CD4 \
  VENDOR_STRING="Session Recorder and Player" DUP_GROUP=UH \
  ISSUER="Freescale Semiconductor" ISSUED=7-sep-2011 BORROW \
```

1

2

COPY

3

Paste

1. Edit « license_HC08.dat », replace « this_host » by server host name or ip address and SaveAs with name « license.dat »
2. Edit file « license_HC12.dat » and Copy all content starting with first line named « INCREMENT » until the end of the file
3. Edit « license.dat » previously save & Paste the content after the last line of the file
4. Then save the new « license.dat » file with additionnal content

You have merged the 2 license information from the 2 files into one single file

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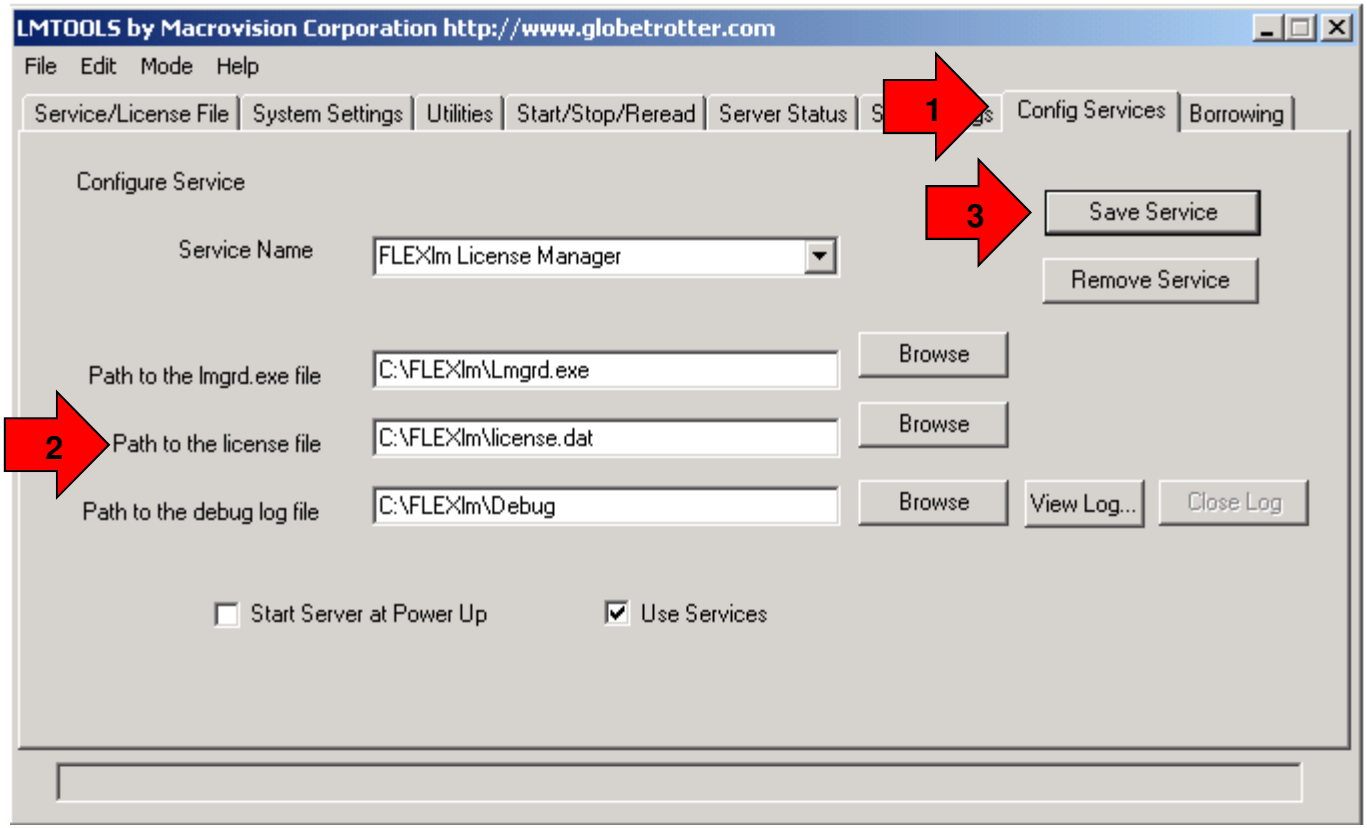

On the server open the flexLM manager

1. **Choose the "Config Services" tab (7th tab in the tool's main window)**
2. **Locate the "freshly" created License File on the disk (new merged "license.dat")**
3. **Click on save service**

[NOTE]

It might be necessary to STOP and RESTART the FlexLM service so that update information Of the license.dat is read or just ReRead the license file

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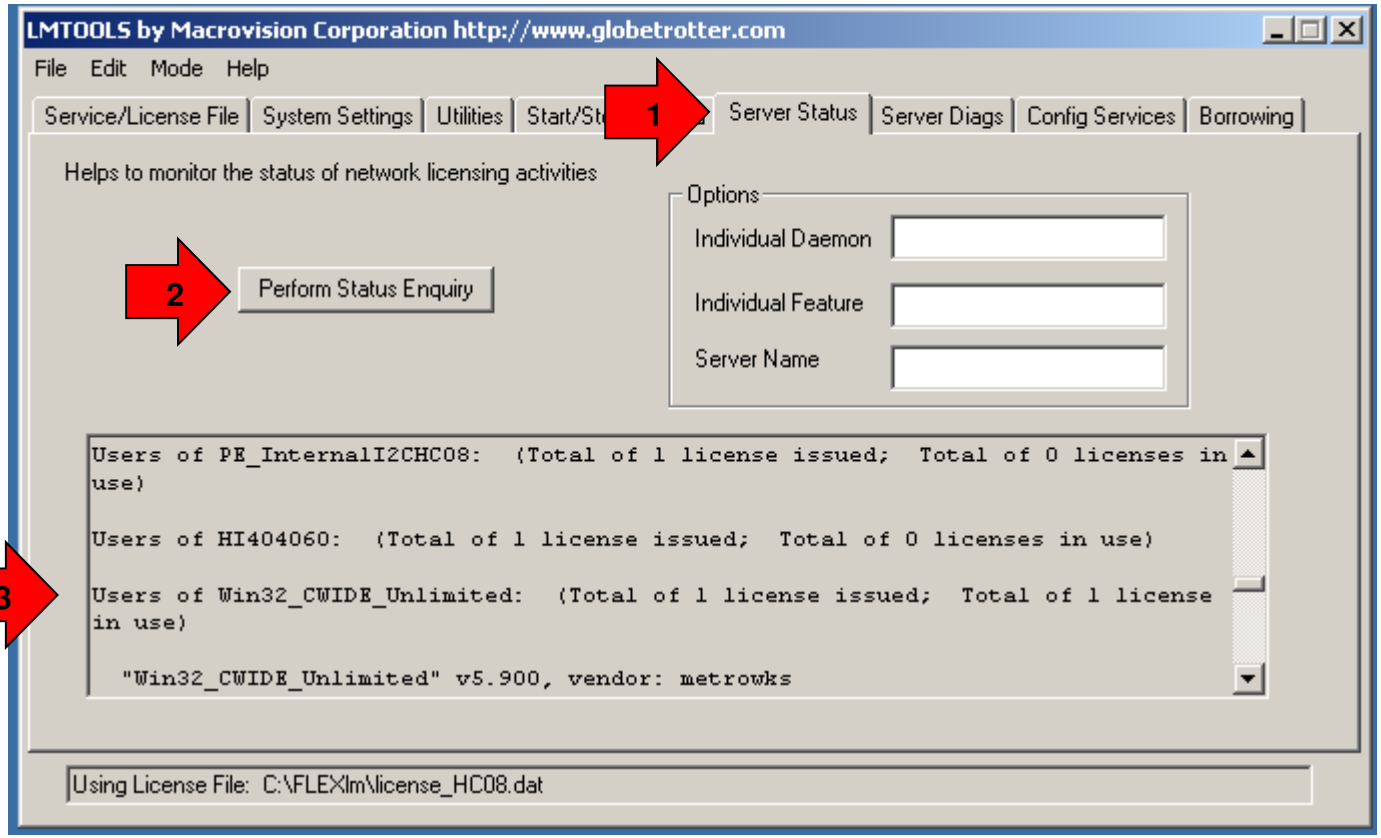

You can check that new list of licenses availables had be added and is listed

1. **Choose the “Server status" tab (5th tab in the tool’s main window)**
2. **In the Log windows you see that on one license available on is used by a client**

In our example you could check taht both licenses for HC08 and HC12 are availables

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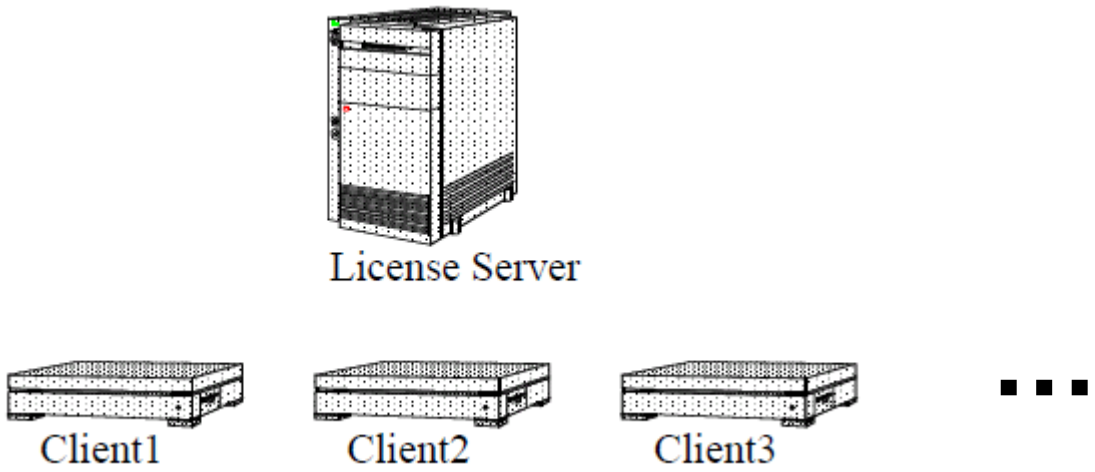
Combined licenses of several CW tool



Do not forget to install license_HC08.dat and licenses_HC12.dat both renamed into license.dat onto **each client & CW installed directory** (with IP address or Hostname of the server)

This operation could be repeated by adding other license information from other CW tool & merging license.dat in order to build one unique license.dat used by the server

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