

# Step By Step installation FlexLM Floating License for CodeWarrior



# V. Leynaert – FAE Freescale – Sept 2011

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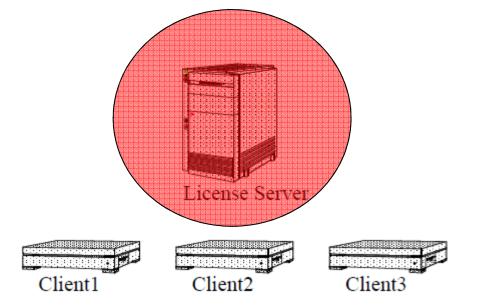
1

# 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?nodeld=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\_TYP E=Users%20Guides&WT\_VENDOR=FREESCALE&WT\_FILE\_FORMAT=pdf&WT\_ASSET=Documentation&sr =7

## <u>FAQ</u>

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

### <u>Install</u>

Install the FLEXIm 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 FLEXIm License Manager (Imtools.exe).

### [NOTE]

The License Manager installation contains all the deamons you need for your license.

For example if you already have the FLEXIm license manager installed from another FLEXIm 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?nodeld=0127262444119D11A3

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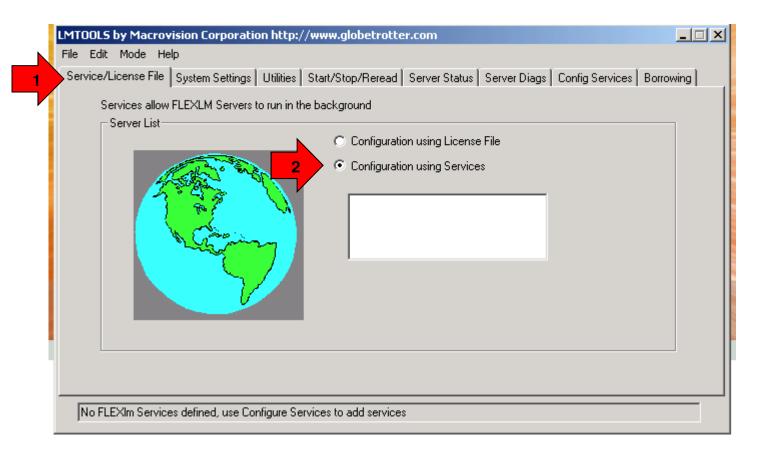


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		Description	📀 File Edit Search Insert Project Build Solution View Format Column Macro Scripting Advanced Window Help
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	0.00	Application Edition (Windows Ho	·
CWS-MGT-LLPLT-LX	9.00	CodeWarrior for mobileGT Linux	
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CWS-MGT-LX	9.00	CodeWarrior for mobileGT (Wind Hosted) - Professional Edition	· ·
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### 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)



# Start FlexLM license manager (Imtools.exe previouslty installed)

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

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File Edit Mode Help	on Corporation http://www.globetrotter.com	
Configure Service	6	Config Services Borrowing
2 Service N Path to the Imgrd.ex	Browse	Remove Service
4 Path to the licens		
Path to the debug lo	a file C:\FLEXIm\Debug Browse	View Log Close Log

1. Choose the "Config Services" tab (7<sup>th</sup> tab in the tool's main window)

2. Type 'FLEXIm License Manager' or any other name (if the service is already used by a deamon) in the service name field

4. Imgrd.exe has to be 'Imgrd.exe' (in the Path where you installed FlexLM)

3. Locate your License File on the disk for example simply 'C:\FLEXIm\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 FlexIm activity LOG
- 5. For WinNT/XP, check 'Use NT Services'
- 6. Click on save service

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LMTOOLS by Macrovision Corporation http://www	v.globetrotter.com
File Edit Mode Help Service/License File System Setting	Stop/Reread Server Status Server Diags Config Services Borrowing
FlexLM Lic	ise Services installed on this computer i <del>ense server</del> nse Manager
Start Server Advanced settings >>	Stop Server   ReRead License File     Force Server Shutdown   NOTE: This box must be checked to shut down a license server when licenses are borrowed.
Using License File: C:\FLEXIm\license_HC08.dat	

# 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

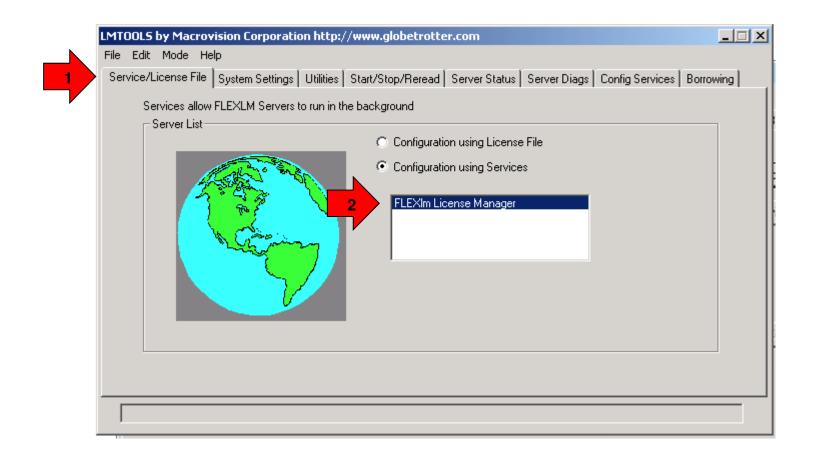
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LMTOOLS by Macrovision Corporation http://www.globetrotter.com
Service/License File   System Setting 1 Start/Stop/Reread   Server Status   Server Diags   Config Services   Borrowing
Start Server Options   FlexIm license Services installed on this computer     Indown will only work from node where Imgrd is running   FLEXIm License Manager     Disable Indown utility, use task manager   FLEXIm License Manager
Disable 'Imremove' of license file Start Server Advanced settings << Stop Server Stop Server Stop Server ReRead License File Force Server Shutdown NOTE: This box must be checked to shut down a license server when licenses are borrowed.
Server Start Successful.

- 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)





# Select Tab Service/License file (1<sup>st</sup> Tab in the tool) You can notice that the "FlexIm license Manager" is listed

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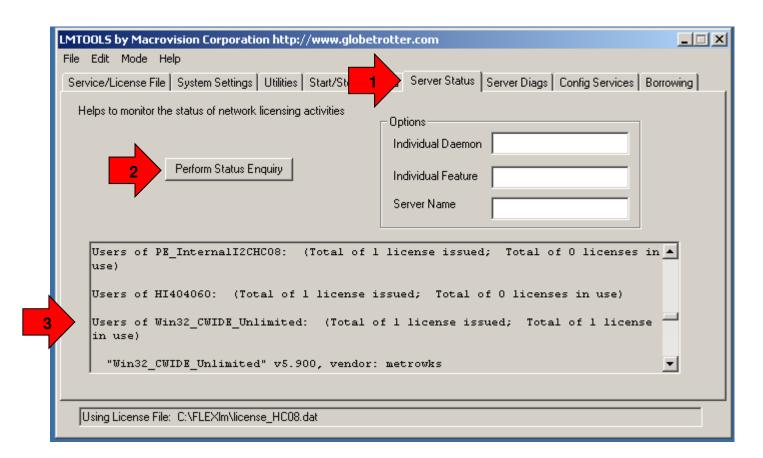
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	Options
	Individual Daemon
2 Perform Status Enquiry	
	Individual Feature
	Server Name
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Users of PE BTCHC08: (Total of 1 licen	nse issued; Total of O licenses in use)
Users of HI040155: (Total of 1 license	issued; Total of O licenses in use)
Users of HI404050: (Total of 1 license	issued: Total of O licenses in use)
Users of PE_AsynchroSlaveHCO8: (Total	of l license issued; Total of O licenses 💌

1. Choose the "Server status" tab (5<sup>th</sup> 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 (5<sup>th</sup> 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



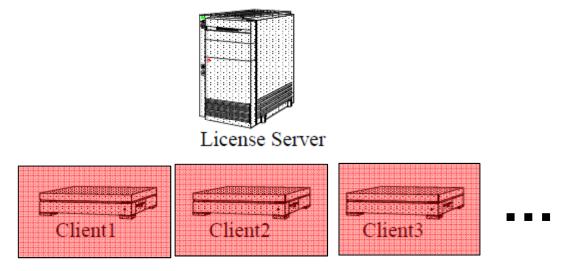
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	FLEXID				<u> </u>	Windows Di	irectory	C:\WIN	IDOWS	
					T		Save	HOSTI	D Infotoa File	

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 (3<sup>rd</sup> 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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Art Number     Version     Description       VS-568-PRO-LX     8.30     CodeWarrior 56800/E Digital Signal Controllers - Standard Edition     Image: Controllers - Standard Edition       VS-68K-FLT     3.20     CodeWarrior for 68K Embedded Systems     Image: Controllers - Standard Edition	Get License
Controllers - Standard Edition VS-68K-FLT 3.20 CodeWarrior for 68K Embedded Systems	Get License
	Get License
VS-MCF-LLPLT-LX 2.20 CodeWarrior for ColdFire Architectures Linux Platform Edition (Linux Hosted	Get License
VS-MCF-PROED-LX 720 CodeWarrior for ColdFire Archite 3 Professional Edition	Get License
VS-MCF-WLAPP-LX 2.40 Codewarrior for Coldfire Architectures - Linux Application Edition (Windows Hosted)	Get License
VS-MCU-PROED-LX 10.10 CodeWarrior for Microcontrollers (Windows Hosted, Eclipse based) - Professional Edition	Get License
VS-MCU-PROLH-LX 10.10 CodeWarrior for Microcontrollers (Linux Hosted, Eclipse based) - Professional Edition	Get License
VS-MGT-LINWH-LX 9.00 CodeWarrior for mobileGT Linux Application Edition (Windows Hosted)	Get License
VS-MGT-LLPLT-LX 9.00 CodeWarrior for mobileGT Linux Platform Edition (Linux Hosted)	Get License
VS-MGT-LX 9.00 CodeWarrior for mobileGT (Windows Hosted) - Professional Edition	Get License
	Oct License

### if not done already or not supplied directly by server administrator

Products you are ontitled to license:

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

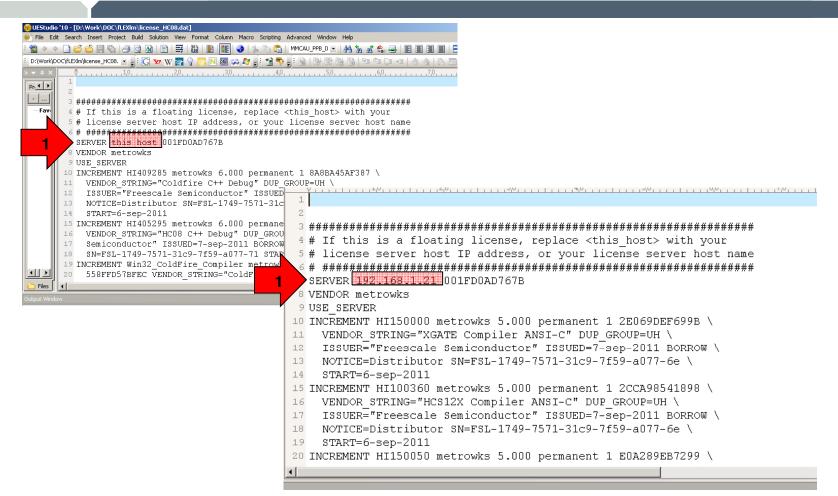
2. Download each file license.dat and rename with a specific name to remember the license file content

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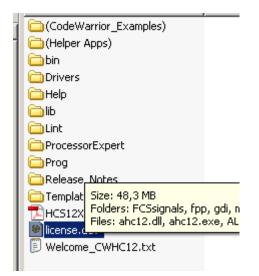
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1. Edit the license.dat file (this is the same as used on server side)

# 2. Replace « this\_host » by ip adress or Host name on your network



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

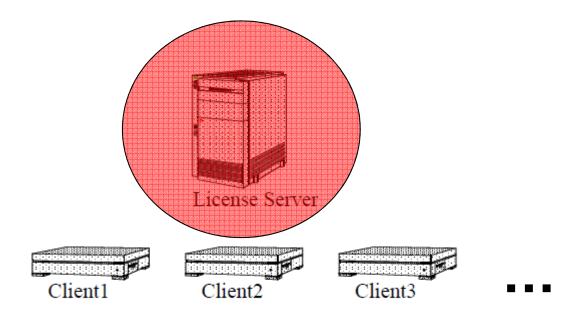
# Start CodeWarrior and it is DONE !!!

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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?nodeld=0152102 72624448523#FLOATCOMPANY

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#### # If this is a floating license, replace <this host> with your # If this is a floating license, replace <this host> with your # license server host IP address, or your license server host name # license server host IP address, or your license server host name SERVER this host 001FD0AD767B SERVER this host 001FD0AD767B VENDOR metrowks VENDOR metrowks USE SERVER USE SERVER INCREMENT HI409285 metrowks 6.000 permanent 1 8A8BA45AF387 \ INCREMENT HI409285 metrowks 6.000 permanent 1 8A8BA45AF387 \ VENDOR STRING="Coldfire C++ Debug" DUP GROUP=UH \ VENNOR STRING="Coldfire C++ Debug" DUP GROUP=UH \ ISSUER="Freescale Semiconductor" ISSUED=7-sep-2011 BORROW \ ="Freescale Semiconductor" ISSUED=7-sep-2011 BORROW \ NOTICE=Distributor SN=FSL-1749-7571-31c9-7f59-a077-71 \ Distributor SN=FSL-1749-7571-31c9-7f59-a077-71 \ START=6-sep-2011 -6-sep-2011 INCREMENT HI405295 metrowks 6.000 permanent 1 0E95362A2035 \ INCREMENT HI405295 metrowks 6.000 permanent 1 0E95362A2035 \ VENDOR STRING="HC08 C++ Debug" DUP GROUP=UH ISSUER="Freescale \ VENDOR STRING="HC08 C++ Debug" DUP GROUP=UH ISSUER="Freescale \ Semiconductor" ISSUED=7-sep-2011 BORROW NOTICE=Distributor \ Semiconductor" ISSUED=7-sep-2011 BORROW NOTICE=Distributor \ SN=FSL-1749-7571-31c9-7f59-a077-71 START=6-sep-2011 SN=FSL-1749-7571-31c9-7f59-a077-71 START=6-sep-2011 INCREMENT Win32 ColdFire Compiler metrowks 6.000 permanent 1 \ INCREMENT Win32 ColdFire Compiler metrowks 6.000 permanent 1 \ 558FFD57BFEC VENDOR STRING="ColdFire Compiler" DUP GROUP=UH \ 558FFD57BFEC VENDOR STRING="ColdFire Compiler" DUP GROUP=UH \ ISSUER="Freescale Semiconductor" ISSUED=7-sep-2011 BORROW \ ISSUER="Freescale Semiconductor" ISSUED=7-sep-2011 BORROW \ NOTICE=Distributor SN=FSL-1749-7571-31c9-7f59-a077-71 \ NOTICE=Distributor SN=FSL-1749-7571-31c9-7f59-a077-71 \ START=6-sep-2011 START=6-sep-2011 INCREMENT PE InternalI2CHC08 metrowks 1.000 permanent 1 57447579F196 INCREMENT PE InternalI2CHC08 metrowks 1.000 permanent 1 57447579F196 VENDOR STRING="098762ED6302E6B50E8DF2881843452F, Internal I2C \ VENDOR STRING="098762ED6302E6B50E8DF2881843452F, Internal I2C \

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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 # If this is a floating license, replace <this host> with your # license server host IP address, or your license server host name # license server host IP address, or your license server host name SERVER this host 001FD0AD767B SERVER this host 001FD0AD767B VENDOR metrowks VENOR metrowks USE SERVER RVER INCREMENT HI409285 metrowks 6.000 permanent 1 8A8BA45AF387 \ 2NT HI409285 metrowks 6.000 permanent 1 8A8BA45AF387 \ NDOR STRING="Coldfire C++ Debug" DUP GROUP=UH \ VENDOR STRING="Coldfire C++ Debug" DUP GROUP=UH \ ISSUER="Freescale Semiconductor" ISSUED=7-sep-2011 BORROW \ ISSUER="Freescale Semiconductor" ISSUED=7-sep-2011 BORROW \ NOTICE=Distributor SN=FSL-1749-7571-31c9-7f59-a077-71 \ NOTICE=Distributor SN=FSL-1749-7571-31c9-7f59-a077-71 \ START=6-sep-2011 START=6-sep-2011 INCREMENT HI405295 metrowks 6.000 permanent 1 0E95362A2035 \ INCREMENT HI405295 metrowks 6.000 permanent 1 0E95362A2035 \ VENDOR STRING="HC08 C++ Debug" DUP GROUP=UH ISSUER="Freescale \ VENDOR STRING="HC08 C++ Debug" DUP GROUP=UH ISSUER="Freescale \ Semiconductor" ISSUED=7-sep-2011 BORROW NOTICE=Distributor \ Semiconductor" ISSUED=7-sep-2011 BORROW NOTICE=Distributor \ SN=FSL-1749-7571-31c9-7f59-a077-71 START=6-sep-2011 SN=FSL-1749-7571-31c9-7f59-a077-71 START=6-sep-2011 NCREMENT Win32 ColdFire Compiler metrowks 6.000 permanent 1 \ INCREMENT Win32 ColdFire Compiler metrowks 6.000 permanent 1 \ 558FFD57BFEC VENDOR STRING="ColdFire Compiler" DUP GROUP=UH \ 558FFD57BFEC VENDOR STRING="ColdFire Compiler" DUP GROUP=UH \ ISSUER="Freescale Semicon upp PyUED=7-sep-2011 BORROW \ NOTICE=Distributor SN=FSL-1749-7571-31c9-7f59-a077-71 \ ISSUER="Freescale Semiconductor" ISSUED=7-sep-2011 BORROW \ NOTICE=Distributor SN=FSL-1749-7571-31c9-7f59-a077-71 \ START=6-sep-2011 START=6-sep-2011 NCREMENT PE InternalI2CHC08 metrowks 1.000 permanent 1 57447579F196 INCREMENT PE InternalI2CHC08 metrowks 1.000 permanent 1 57447579F196 VENDOR STRING="098762ED6302E6B50E8DF2881843452F, Internal I2C \ VENDOR STRING="098762ED6302E6B50E8DF2881843452F, Internal I2C \ Communication Interface" DUP GROUP=UH ISSUER="Freescale \ Communication Interface" DUP GROUP=UH ISSUER="Freescale \ Semiconductor" ISSUED=7-sep-2011 BORROW NOTICE=Distributor \ Semiconductor" ISSUED=7-sep-2011 BORROW NOTICE=Distributor \ SN=FSL-1749-7571-31c9-7f59-a077-71 START=6-sep-2011 SN=FSL-1749-7571-31c9-7f59-a077-71 START=6-sep-2011 NCREMENT HI404060 metrowks 6.000 permanent 1 853D19E20CD4 \ INCREMENT HI404060 metrowks 6.000 permanent 1 853D19E20CD4 \ VENDOR STRING="Session Recorder and Player" DUP GROUP=UH \ VENDOR STRING="Session Recorder and Player" DUP GROUP=UH \ ISSUER="Freescale Semiconductor" ISSUED=7-sep-2011 BORROW \ ISSUER="Freescale Semiconductor" ISSUED=7-sep-2011 BORROW \ NORTOR Distriction and Dot 17/0 2531 01-0 2550 -022 24 1 NOWIGE Distuibutes ON EGT 1240 2521 21-0 2550 -022

- 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

20

- 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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	pration http://www.globetrotter.com	
	tings Utilities Start/Stop/Reread Server Status	S 1 S Config Services Borrowing
Configure Service Service Name	FLEXIm License Manager	3 Save Service Remove Service
Path to the Imgrd.exe file 2 Path to the license file	C:\FLEXIm\Lmgrd.exe	Browse
Path to the debug log file	C:\FLEXIm\Debug	Browse View Log Close Log
☐ Start Serve	at Power Up 🔽 Use Services	

On the server open the flexLM manager

- 1. Choose the "Config Services" tab (7<sup>th</sup> 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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File Edit Mode H	ovision Corporation http://www.g Help	lobetrotter.com
Service/License File	e   System Settings   Utilities   Start/St	Server Status Server Diags Config Services Borrowing
Helps to monitor ti	he status of network licensing activities	
		Options
		Individual Daemon
2	Perform Status Enquiry	Individual Feature
		Server Name
Users of P	E_InternalI2CHC08: (Total	of l license issued; Total of O licenses in 🔺
use)		
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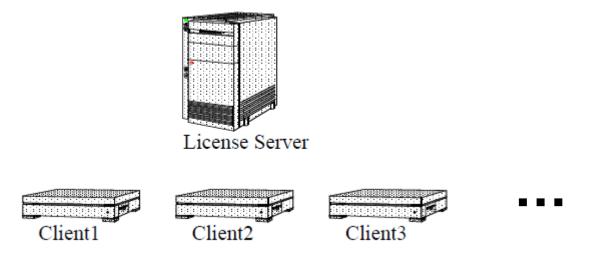
You can check that new list of licenses availables had be added and is listed

- 1. Choose the "Server status" tab (5<sup>th</sup> 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 <u>each client & CW installed directory</u> (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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