

Cosmic Software Compiler Floating License

Quick Start Guide

(Windows 98/NT/2000/XP Host)

This document is intended to provide a quick guide to installation and setup for Cosmic Software floating licenses managed with Globetrotter's FLEXlm license management software. Detailed information on setup and configuration is provided in the flex_enduser.pdf file included on the product CD. (Click on "View FLEXlm User's Manual" on the Floating License Utilities page of the installation.

Cosmic Software compiler products are available in two licensing models as described below.

- 1) **Single CPU and Single User** – This type of license allows the compiler software to be installed on only one computer and used only by a single user physically using the licensed computer. Executing the compiler across a network is not allowed. This type of license is read directly by the compiler so no license manager software or services are needed.
- 2) **Concurrent Use or Floating Licenses** - This type of license allows the compiler software to be installed on any number of computers or network servers, but limits concurrent usage to the number of licenses purchased. This allows the greatest flexibility for part time or occasional users or where user's need access to the compiler on more than one computer on the same network. e.g. The user's office computer and a computer lab or test lab. This type of license is counted and requires the installation of the FLEXlm license manager software as described below. All floating licenses are checked out for a minimum of 10 minutes and same license reuse is set to same user on same workstation.

License Server

The first thing you need to do is choose a license server computer. This computer must have a TCP/IP connection to every computer that will execute the compiler software. It is recommended that the license manager be installed on a Windows NT 4/2000/XP server or workstation, but it may also be installed on a Windows 98 computer. (See Flex_enduser.pdf for details) Note, the Cosmic software may also execute on the license server, but it is not required and generally not recommended.

Installation of License server using Installshield installation

- 1) To install from product CD - Click on "Install Float License Utilities" from the "Floating License Utilities" Page of the CD installer and follow the on-screen instructions to install the FLEXlm license manager and utilities.

Manual Installation and configuration of License server from Zip file

- 1) To install and configure the FLEXlm license manager and Cosmic daemon manually. Unzip the license manager/daemon zip file into folder such that cosmic.exe, lmgrd.exe, lmtools.exe, lmutil.exe and the license file are together in a separate folder.

Configuration

The following steps will explain the steps you need to take in order to properly configure your license server and any nodes you wish to add.

Do you have any other FLEX-LM license managers installed on this computer? If no, continue with installation. **If yes, this may cause conflicts with your Cosmic Licenses please** See the section “Managing Licenses from Multiple Vendors” (chapter 3) in the “FLEXlm End Users Guide” before proceeding. Note: Globetrotter recommends that all FLEXlm server installations use the latest version of the license manager to avoid conflicts and compatibility issues.

- 1) Open LM Tools. Server/License should be the currently open tab. Select the radio button next to "Configure using Services" (Not available on Win 95/98/ME). You should see "Flex LM Service #1" (or another name if you saved it as something unique.
- 2) Click the "Configure Services" Tab. Change the service name if you wish.
- 3) Verify that lmgrd.exe and the license file paths are correct by BROWSING to their location.
- 4) Check "Use Services" and “Start Server at Power Up” to configure as a Windows service that will start automatically on a reboot. (Not available on Win 95/98/ME)
- 5) Save the service and click the "Start/Stop/Reread" Tab
- 6) Make sure the correct service is highlighted and click "Start Server" then "ReRead License File". Wait for the hourglass to disappear and a new message to pop up on the status bar on the bottom left of the window.
- 7) Once the license file was read correctly, click on the "Server Status" tab, select “Display Everything” and then click on the “Perform Status Enquiry” button. This should display all active servers and product features available for checkout.
- 8) On any machine that wishes to use the licensed software, open up the registry (Start->Run->Regedit) and browse to this key: **HKEY_LOCAL_MACHINE -> Software -> FLEX LM License Manager**
- 9) Look for the string **COSMIC_LICENSE_FILE** and make sure it points to the server @servername. if there is a port number specified in the license file, this should be added to the key as well using the format: <port number> @servername. If you want the compiler software to search multiple servers for a valid license key then the server names should be separated by semicolons (windows). e.g. First search server named “License2” port 27004 and then server named “License1” port 27002 . **COSMIC_LICENSE_FILE** key should equal – 27004@License2;27002@License1
- 10) If the key “**COSMIC_LICENSE_FILE**” does NOT exist then it should be created the first time the compiler is executed. E.g. File browse to your compiler's directory, open the examples folder and run “test.bat”. A FLEXlm Window should pop up. Select the Server option and enter the network name of the license sever computer. Test. bat should then complete without errors. If FLEXlm errors appear in the shell window repeat steps 1-10 and contact Cosmic Software technical support if the problem persists.

Compiler Installation

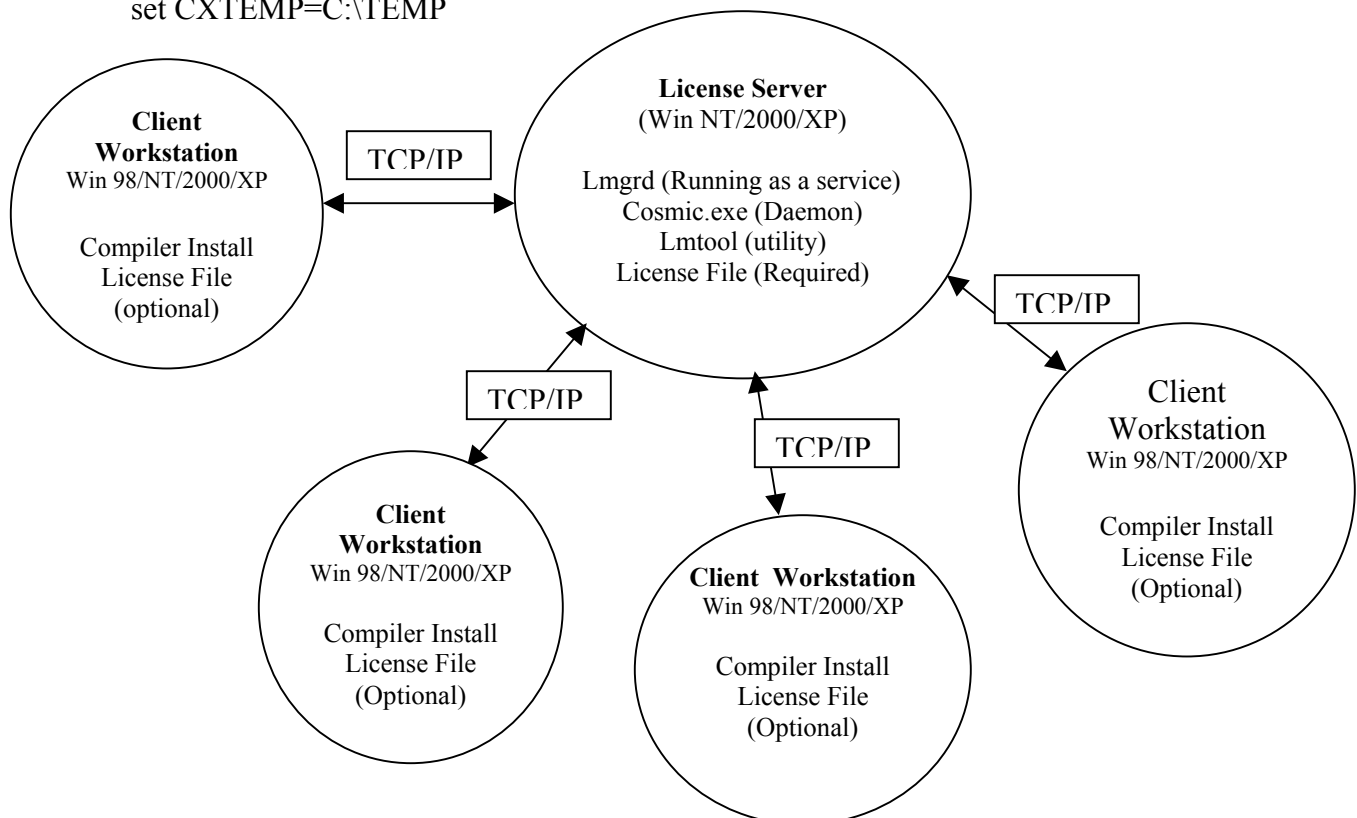
There are several possible scenarios for installation. The following examples describe two popular scenarios in some detail.

Example 1

License server is used to run only the license manager and compiler software runs locally on the network clients. Install license manager and utilities on the license server as described above and install the compiler on each of the client machines. This scenario is usually more efficient since the compiler runs on the client and there's only a small amount of network traffic in order to check licenses in and out of the server.

Installation and configuration on Client Workstations

- 1) Install the compiler on each client workstation and allow installation to add the compiler path to the client's execution path. See the compiler User's manual for details.
- 2) Copy the license file (license.lic) from the FLEXlm folder to the license sub folder in the compiler directory on the client
- 3) AND/OR set the environment variable or registry key "COSMIC_LICENSE_FILE" to "@server name" so the compiler can access the license manager over the network. Typically the Server name is the name that appears in network neighborhood on Win 98/NT/2000. If the registry key does not already exist the compiler should pop-up a FLEXlm window to allow you to create it. If the key already exists you should add the server name to the path. For more information please refer to the "FLEXlm End Users" manual "flex_enduser.pdf".
 - a. e.g. on PC if the license file server name is FS2 the command is:
set COSMIC_LICENSE_FILE=@FS2
 - b. For efficiency when compiling source files located on a network, you can set the compiler TEMP variable to a local temp folder for faster execution. See the compiler options section of the Cosmic Compiler User's manual for details.
e.g. on PC the command is:
set CXTEMP=C:\TEMP



Example 2

The License server is used to run both the license manager and compiler software. Install the license manager and utilities and the compiler on the license server. This scenario is usually more efficient for managing compiler versions and projects since there is only one compiler installation that is shared by all clients.

Installation and configuration on License server

- 4) Install the license manager, utilities and license file on the license server as described above.
- 5) Install the compiler on the license server.
- 6) Change access permissions on the compiler folder to allow read and execute access by clients workstations.

Installation and configuration on Client Workstations

- 1) On PC, create a network drive attached to the compiler installation on the license server.
- 2) Add the compiler executable folder to the workstations execution path.
- 3) Set environment variable "COSMIC_LICENSE_FILE" equal to the license server name.
 - a. e.g. on PC if the license file server name is FS2 the command is:
set COSMIC_LICENSE_FILE=@FS2
- 4) Set compiler TEMP variable to a local temp folder for faster compiler execution. See the compiler options section of the User's manual for details.
 - a. E.g. on PC the command is:
set CXTEMP=C:\TEMP

