



Configuring I-deas 12 Shared Licensing

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Shared licensing between I-deas 12 and NX4



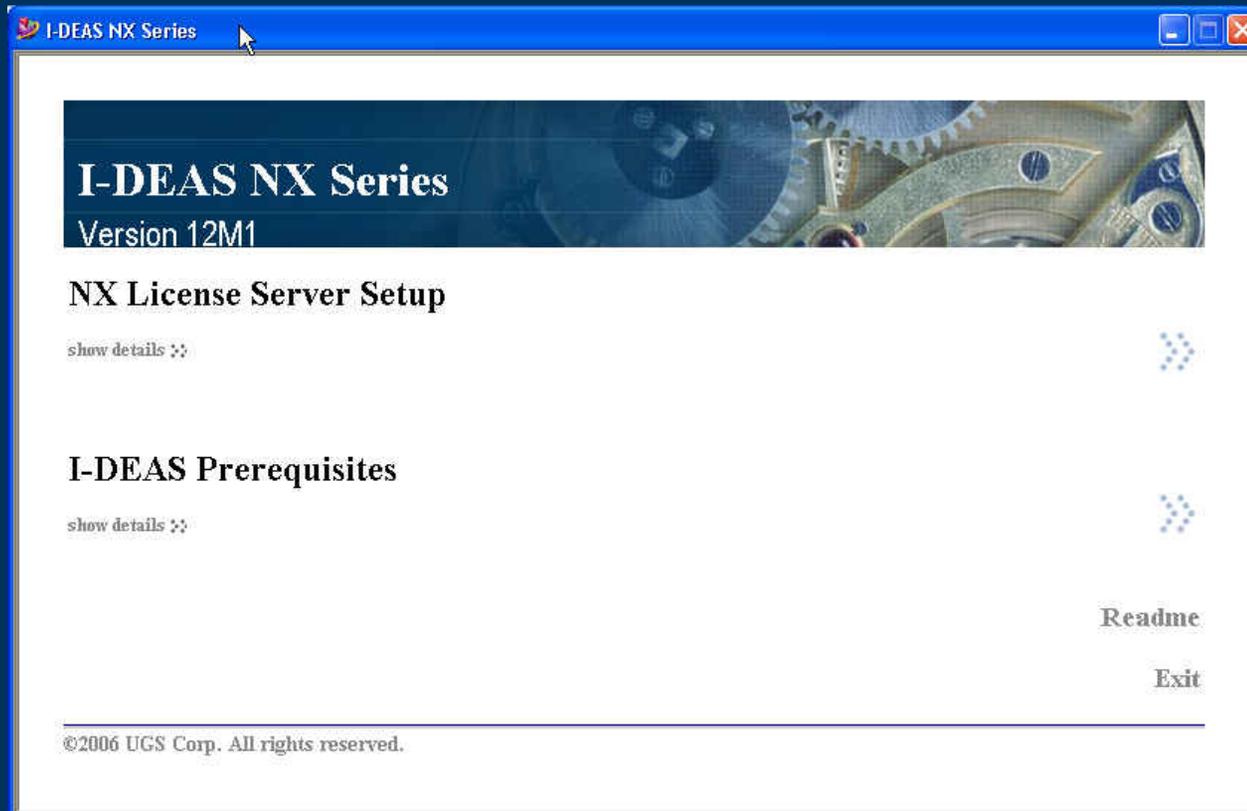
- ▶ With the release of Ideas12 the licensing was changed to allow the use of a common license service and license file. I-deas 12 and NX4 will share a license file between both applications. You will have the same number of licenses that you had previously and they can be used by either application.
- ▶ There will be a “UG NX 4.0 FLEXlm” service added during the installation. This is the shared service for both applications.



Installing the license on the server



- ▶ When the ideas12 disk is inserted it will autorun and bring up the installation GUI. Select the “NX License Server Setup”

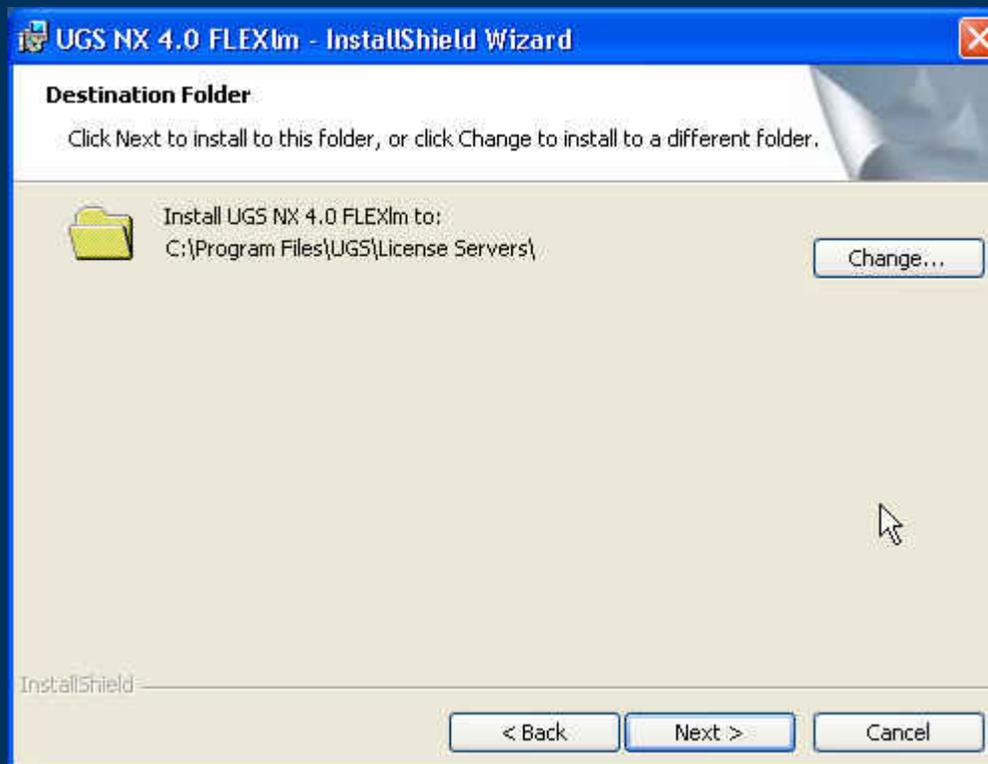




Installing the license on the server



- ▶ The install GUI will ask where you want to install the licensing to. It will default to the C:\Program Files folder. If you chose to put this in a different location to keep all of the licensing under a specific directory select the change button.

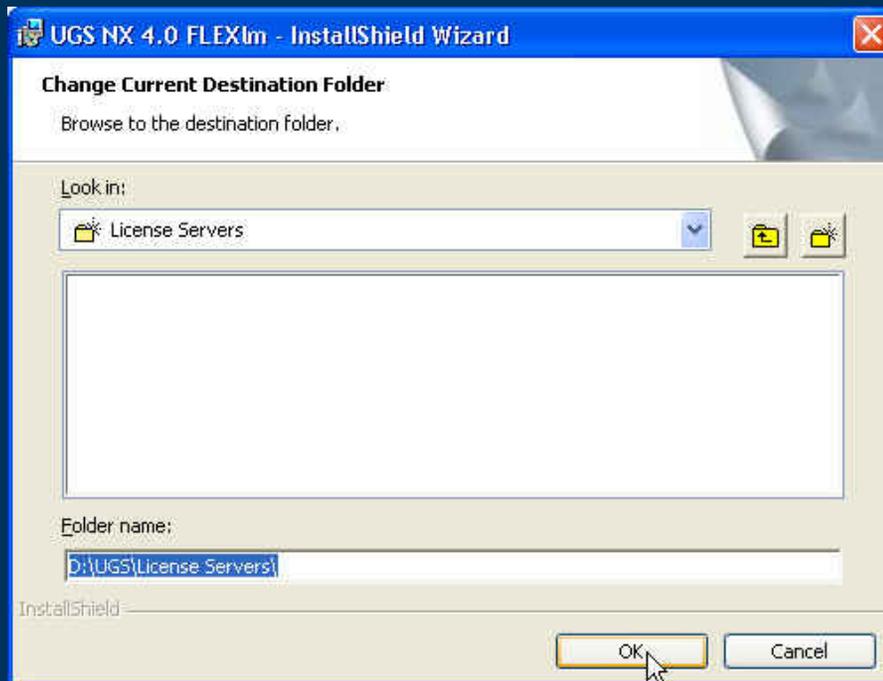




Installing the license on the server



- ▶ You can then select the location that you the files to go to. If you are using a central license server you may want to have all of the license application under one main directory to avoid confusion of finding the location when it is time to update the license files or to do maintenance. The example below shows the files be directed to the D:\UGS directory.

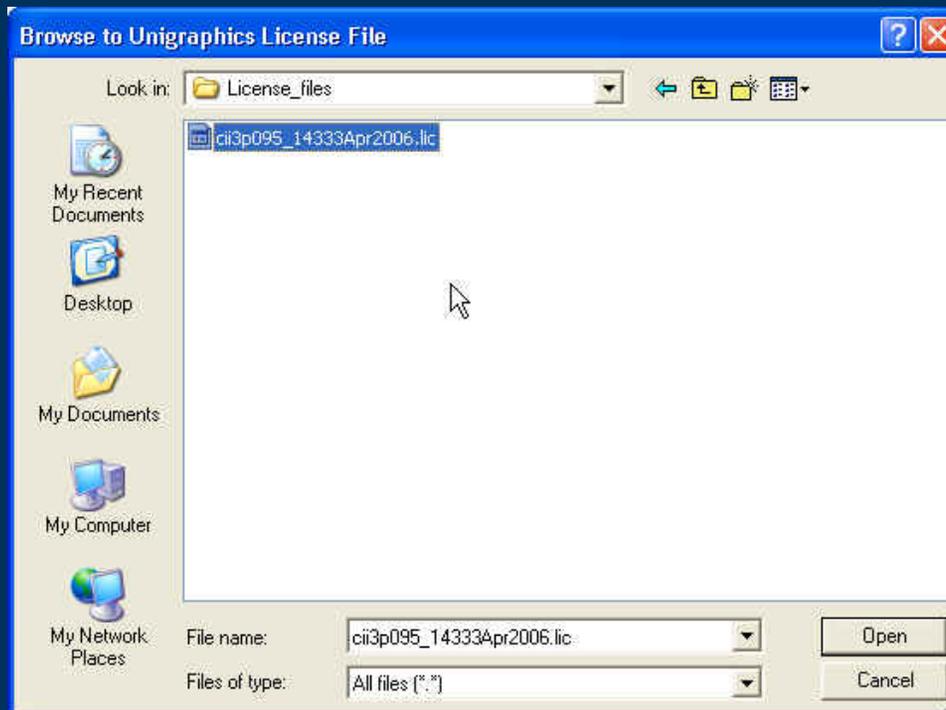




Installing the license on the server



- ▶ You should have received a license file from your CSR or from the UGS web site <http://www2.ugs.com/Support/LicenseManagement> . When the installer asks for the license file point it to the directory that contains the file and locate the file.
- ▶ Select Browse and locate your license file.

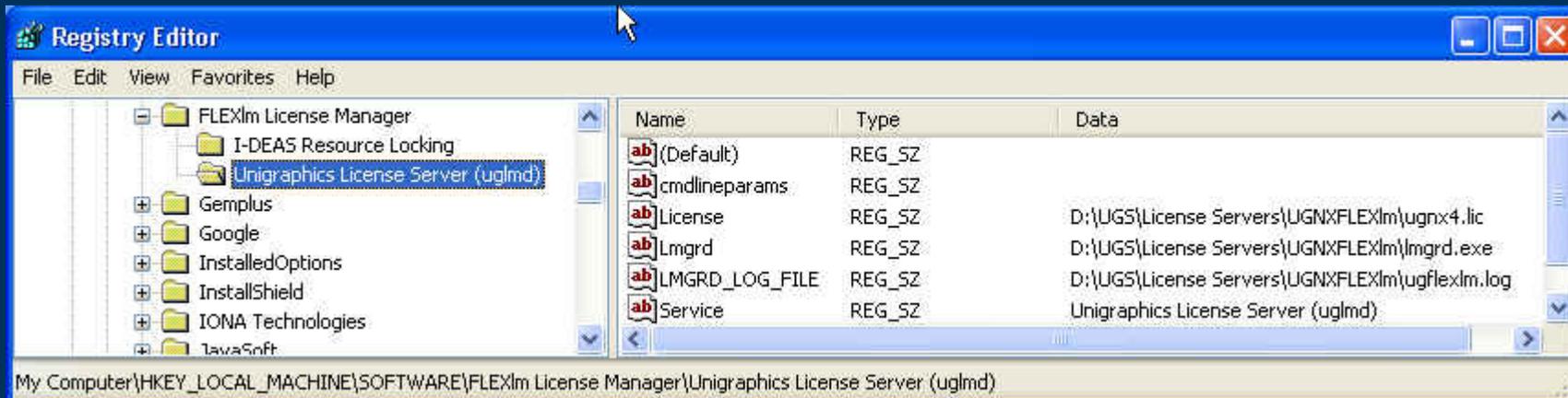




Installing the license on the server



- ▶ Once you have located the license file you can select next to all of the following screens and it will install the service and create a license file.
- ▶ In this case it created a license file in the D:\UGS\License Servers\UGNXFLEXIm directory called ugnx4.lic
- ▶ The UG NX 4.0 FLEXIm service that was added is located in the registry as shown below. This entry will show where the service is getting the license file in case there are problems with the service.

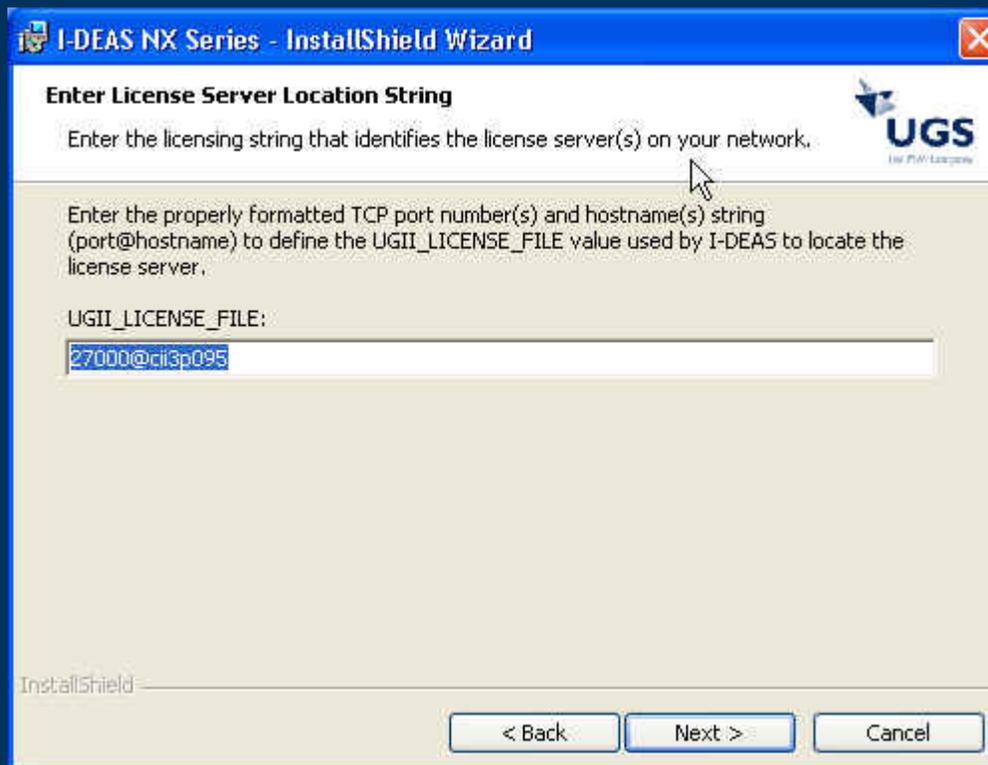




Configuring a workstation license



- ▶ The workstation license can be configured during the installation. You will be prompted to point to the location of the license server. This will make an entry in the registry for where to look for the license.





▶ License Variables

- ▶ The default entry for a license location is contained in the registry and generally will work with no problems. If there are some other UGS Products on the same workstation there could be a system environment variable `UGII_LICENSE_FILE=27000@LicenseServer` set that could cause problems. This variable is an easy way to redirect ideas to a license server and the System Variable will override any registry entry for the license.



Setting up License Rollover



- ▶ Ideas 12 can be configured to look at several different license servers. The server machines (unlike three-server redundancy) can be physically distant and the workstation machines can be set to point to the server closest to their location. The example below shows how users in Portland and Cincinnati would setup their machine to access the closest server first and then look at the distant server if no licenses were available locally.
- ▶ The user in Portland could set UGII_LICENSE_FILE to:
 - ▶ 27000@portland;27000@cincinnati
- ▶ The user in Cincinnati could set UGII_LICENSE_FILE to:
 - ▶ 27000@cincinnati;27000@portland
- ▶ Remember to separate the license file names with a semicolon (“;”) on Windows.



Redundant License Servers



- ▶ Three server redundancy provides hardware failover protection.
- ▶ The three servers must have excellent reliable communication, be located physically close to each other and be on the same subnet.
- ▶ This form of redundancy requires that the servers exchange heartbeats periodically, which is why the network must be fast and reliable.
- ▶ Three-server redundancy does not provide load-balancing. Use `UGII_LICENSE_FILE` “Rollover” list, instead, if load-balancing is desired.



▶ License Borrowing

- ▶ Borrowing lets you check out a single seat of a list of license modules from a corporate license server and use those license modules offline. You must be on a Windows machine to do this, but the license server can be on any supported platform. To activate borrowing, you must:
- ▶ Have a license file with "BORROW" keyword as shown in the sample increment line below:
- ▶ INCREMENT DESIGNERX uglmd 22.0 17-mar-2007 25 AFBCB8B91BDC SUPERSEDE \ DUP_GROUP=UHD user_info="Accel Designer - FL" \ ISSUED=05-apr-2006 **BORROW=2160** ck=201 SIGN=414BB7825592
- ▶ Contact your Sales Representative to order NX21001 for Ideas 12m1



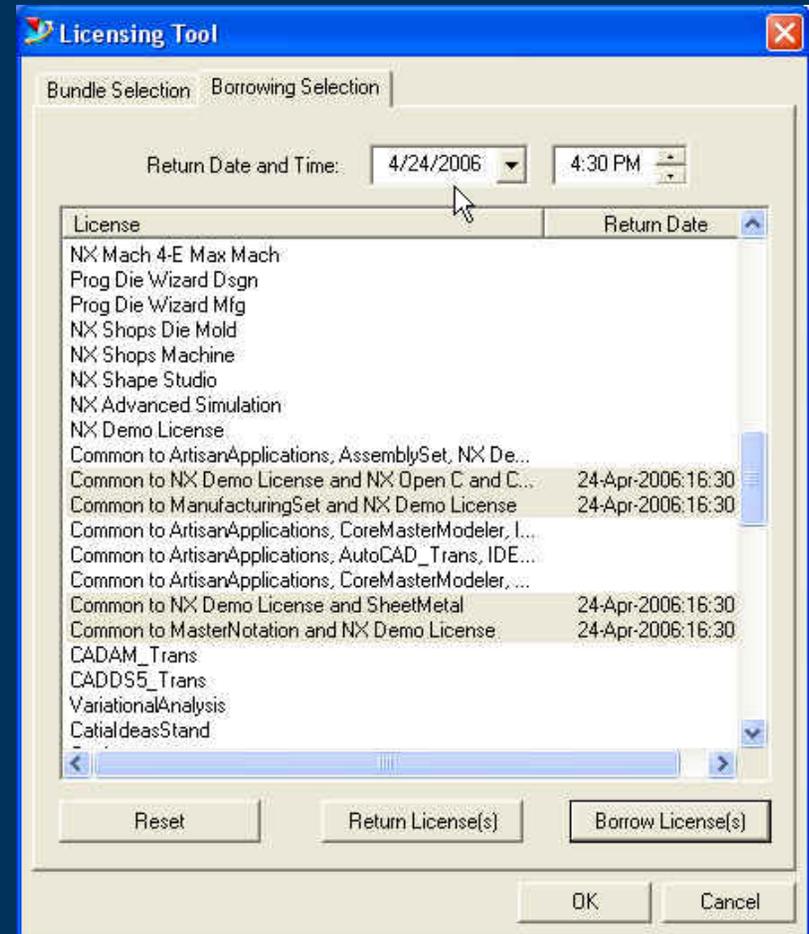
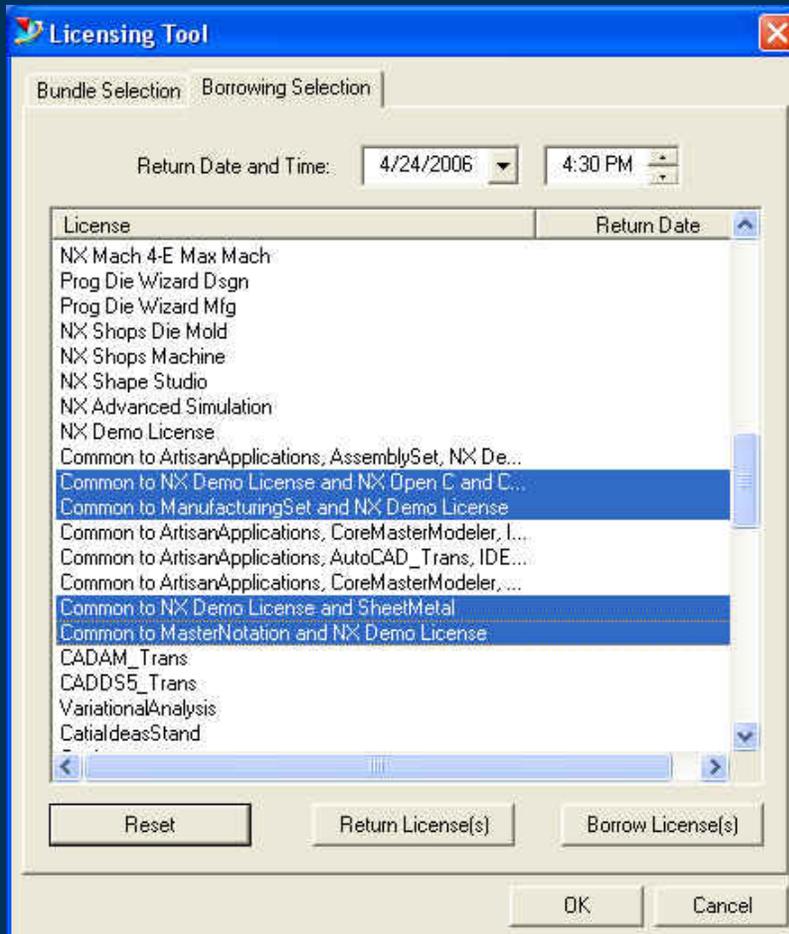
- ▶ **How to Borrow Licenses**
- ▶ These steps are performed on the workstation that is borrowing the license.
- ▶ Make sure that UGII_LICENSE_FILE points to a valid license server.
- ▶ Run *Start → Programs → I-deas 12 → Licensing Tool*
- ▶ On the *Borrowing Selection* tab:
 - ▶ Click *Borrow License(s)*.
 - ▶ Enter a return date and a return time. The default date is one week from the current date. (The date can be no more than three months from the current date.)
 - ▶ Double click each of the license modules and/or bundles you wish to borrow or CTRL-click and select *Borrow License(s)*. This will add the return date of the license to the end of the license line.
 - ▶ Click *OK*.



License Borrowing



- ▶ This shows the selections and the selections with the return date.





- ▶ **Running with Borrowed Licenses**
- ▶ Set IDEAS_BORROW=1.
- ▶ Make sure that the ideas_param12.dat file contains a negative Team.MasterID (single user mode). You can run the TDI Wizard to setup a local team and a negative Team.MasterID.
- ▶ Run I-DEAS.



- ▶ **Determining What Licenses a Workstation Has Borrowed and Their Expiration Date**
 - ▶ On the license server browse to the directory where you installed FlexLM and double click on the lmttools.exe
 - ▶ This will open the lmttools from Macrovision.
 - ▶ Select the borrowing tab at the right-hand side.
 - ▶ This feature should only be used to monitor the license usage and not to borrow licenses. That should be done from the Licensing Tool.
 - ▶ The next slide shows the license usage



Monitoring License Borrowing Usage



LMTTOOLS by Macrovision Corporation <http://www.macrovision.com>

File Edit Mode Help

Service/License File | System Settings | Utilities | Start/Stop/Reread | Server Status | Server Diags | Config Services | Borrowing

To borrow licenses (with applications and licenses that support borrowing):
(1) Enter the date (and optionally time) you want the licenses to be returned.
(2) Use all applications you want to borrow while you're on the network.
(3) Disconnect.
Borrow expires on the date and time specified, or end-of-day, if no time is specified.

Vendor Name:
Return Date: dd-mmm-yyyy Return Time: hh:mm

Display Name: (optional) Feature Name:

uglmd	flat_patterns	24-Apr-06	17:04	▲
uglmd	sheet_metal	24-Apr-06	17:04	
uglmd	sheet_metal_design	24-Apr-06	17:04	
uglmd	geometric_tol	24-Apr-06	17:04	▼



- ▶ **Determining Who Borrowed What Licenses from the License Server**
- ▶ Run `lmstat -A > lic_in_use.txt`.
- ▶ Run `notepad lic_in_use.txt` and search for "linger."
- ▶ **Limitations with FLEXlm License Borrowing**
- ▶ Borrow duration can only be between 0 and three months.
- ▶ Client can only be Windows (no Unix).
- ▶ License bundles can't be returned early (which means that a user can't extend borrow duration until the original time has expired).



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