



WISE License Server Guide

License Server Overview

To install a network license, you must first set up a license server to control the WISE Software licenses. After setting up the server, the software must be installed on the individual workstations, or "clients."

We recommend that an experienced Network Administrator perform the license server setup. You must have administrator privileges on your server in order to complete these instructions.

Requirements

FlexLM floating license server requirements for WISE Software:

- ▶ 64-bit Windows OS (Windows 7, Windows 8, Windows 10, Windows 11, Server 2016, Server 2019)
- ▶ TCP/IP Networking
- ▶ Administrator Login

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License Server Setup

1. Install from CD or downloaded file "WISE-License-Server-Setup-x64.exe"

Note: If your network license utilizes a dongle device for the server, be sure to install the drivers and attach the dongle prior to the following steps. Please contact support support@wssi.com if you have questions.

2. In your Windows Start menu, select:

- All Programs>WISE Software>WISE License Server>Launch LMTOOLS.

3. Select "System Settings" tab and do the following:

- Click the "Save HOSTID info into a file" button.
- Attach the file to an email and send it to licenses@wssi.com. Please reference your Serial Number in the subject line.

4. WISE will send an e-mail reply with the wise03.lic license file attached.

- Save the wise03.lic file to one of the following locations, overwriting the existing file:
 - C:\ProgramData\WISE Software Solutions\License\

Note: If you already have other services that are using the default port number 8855, you may open the wise03.lic file with a text editor and change the port number (4th argument on the 1st line). To determine port availability run "netstat -a" from a command prompt. You may need to change the port to 7788 if your previous Wise03.lic license file used port 7788.

5. In the LMTOOLS dialog box, click the "Config Services" tab.

- Select "WISE Software" in the Service Name box.
- Select the "Use Services" and "Start Server At Power Up" options.
- Click the "Save Service" button.

6. Turn off Windows Firewall or configure exceptions for wise03.exe and lmgrd.exe. Instructions for this vary.

7. Select the "Start/Stop/Reread" tab.

- Click the Start Server button.

Note: At this point you may be asked to allow the communication from this service through your firewall software. If not, you may need to manually configure exceptions through your firewall as detailed in the troubleshooting section.

8. Select the "Server Status" tab.

- Click "Perform Status Enquiry" button to see the status of your license service.
 - ❖ You now should see a line in the text box "xxxPC: license server UP" along with the number of licenses. You are now ready to install on the individual workstations or "clients."
 - ❖ If the server setup has failed please refer to the [Troubleshooting section](#).

Updating your license file

To request a license file update, please send your current “wise03.lic” license file to licenses@wssi.com and be sure to reference your product Serial Number in the email.

- wise03.lic will be found here: C:\ProgramData\WISE Software Solutions\License\

WISE will send an e-mail reply with the updated wise03.lic license file attached.

- Save the wise03.lic file overwriting the existing file.
- Open LMTOOLS, select the “Start/Stop/ReRead” tab and click the “ReRead License File” button.

Troubleshooting

Here are the things that can cause a license service to fail:

1. License service not set up at all, or set up incorrectly, verify against the License Server Setup instructions.
2. Firewall blockage. Please configure exceptions for the `lmgrd.exe` and `wise03.exe` files in your firewall software. Here is an example of how the exceptions can be set up in the typical windows firewall scenario. Your software may require slightly different steps.
 - a. Go to Control Panel.
 - b. Select Security Center.
 - c. Select Windows Firewall.
 - d. Select the Exceptions tab.
 - e. Click the "Add Program" button and browse to the `lmgrd.exe` file (`C:\Program Files\WISE Software Solutions\License`)
 - f. Click OK.
 - g. Click the "Add Program" button and browse to the `wise03.exe` file (`C:\Program Files\WISE Software Solutions\License`)
3. `lmgrd.exe` conflict. Flex recommends that you use the latest `lmgrd.exe` for all of their services. Find the newest `lmgrd.exe` and make copies of the file and overwrite all of the older ones being used by other services. The license services should be stopped during the process of `lmgrd.exe` replacement and backups should be made of the original files.
4. `lmgrd.exe` cannot find `wise03.exe`. You must have the `lmgrd.exe` included in our installer or any newer version and the `wise03.exe` should exist in the same folder as the `lmgrd.exe`.
5. Port conflict. Sometimes our former default port (7788) can be used by others. No conflicts with our current recommendation (8855) have ever been reported. As long as there is no conflict, the user can specify any port #. To determine port availability run "netstat -a" from a command prompt.
6. License file corruption. The SERVER's license file should look like this:

```
SERVER SERVERNAME HOSTID 8855
DAEMON wise03 wise03.EXE
FEATURE gt-dsn wise03 16.4 20-mar-2015 1 START=20-mar-2014 SIGN2="05DD \
C5E8 8C41 45EE BFBE 9B18 01A6 54BD E7F7 5075 4EBA 80A2 9799 \
9709 DE9B 1883 9911 45DF 762B D7B0 920F 32C2 F37E 49B6 02A3 \
D35C 96C0 F20F ED27 90DB"
#Flexlm License File
```

Any strange characters found in the license file could indicate corruption, please send the file back to licenses@wssi.com.

Upgrading from a previous version FAQ

Q: I am running a wise03 license service successfully (GerbTool 15.0 and up or VisualCAM) and need to update to the latest version:

A: Your license server components will need to be updated when switching to the 16.9 client. The 16.9 client software uses flex version 11.14.1.0 and any older vendor daemon and lmgrd will be incompatible. To update your WISE License Server from a previous version please follow these steps:

If the license server was configured via our WISE License Server installer:

- stop the WISE Software service
- uninstall and re-install the latest version of WISE License Server from our website
 - It may also be necessary to update the lmgrd.exe being used for other services to the latest version available. This would be the lmgrd.exe we are installing with our newest WISE License Server.

If the license server was manually configured, the latest files in the zip archives linked below can be used to manually update the license server components.

www.wssi.com/NLS/WISENLS_111410_32-bit.zip

www.wssi.com/NLS/WISENLS_111410_64-bit.zip

Q: I am running an older license service (GerbTool versions 8-14):

A: Please uninstall the old version of the software. When configuring the new license service using the methods in this guide, make sure that the old service is stopped and removed from LMTOOLS prior to setting up the new service.

Q: I need to run an older version license service as well as a new version of the license service to maintain different versions of the software application:

A: Please contact support at support@wssi.com or 503-554-8855 option 2.

License Allocation Options

It is possible to limit the product level that a client can access on your server or reserve a copy for a client, or create other options for license allocation. For example, you have a 2-user GT-Viewer license and a 3-user GT-Designer license. John Doe needs to always have a copy of GT-Designer available. You can reserve one for him. The following procedure shows what you need to do to accomplish this.

1. On the license server, use a text editor to create an Options file with the following text:

```
RESERVE 1 gt-dsn USER JDoe
```

2. Save the file as Wise03.opt, in the same folder as your Wise03.lic file. By default, it is located in "C:\ProgramData\WISE Software Solutions\License".

Note that the name of the options file must match the vendor daemon name, with the extension .opt. The daemon will automatically read the options file at startup, if it is configured correctly.

In the following example, a company has a network license for GT-Viewer and GT-Designer. The Options file excludes 3 individuals from using the GT-Designer product, and the information regarding that transaction is not logged. All users can access the GT-Viewer licenses, but they do not need to be listed.

```
EXCLUDE gt-dsn USER RSmith
```

```
EXCLUDE gt-dsn USER AJones
```

```
EXCLUDE gt-dsn USER DMiller
```

```
NOLOG QUEUED
```

WISE Software Feature Names

- vcam = VisualCAM product.
- vc-stn = VisualCAM Stencils product.
- gt-dsn = GT-Designer product.
- gt-ins = GT-Inspector product.
- gt-com = GT-Communicator product.
- gt-vwr = GT-Viewer product.

Optional Modules:

- vc-are = VisualCAM ARE
- gt-pad = PADS Ascii
- gt-dcm = DirectCAM
- gt-dff = DFF
- gt-anc = Advanced NC
- gt-nlc = Netlist Comparison
- gt-pnl = Advanced Panel

Options File Syntax

The following is a list of the OPTIONS available to use in your Options file. A brief description is included, as well as the syntax. Everything in the options file is case sensitive. Be sure user names and feature names are entered correctly. You can also include comments in your Options file by starting each comment line with "#".

EXCLUDE featurename type name

Excludes a user, host, display or group from the list of who is allowed to use the feature. Excluded users will not be allowed to use the feature.

featurename

Name of the feature being affected

type

One of USER, HOST, DISPLAY, GROUP or HOST_GROUP.

name

Name of the user or group to exclude

To exclude the user AChan from the list of those able to use feature gt-ins:

```
EXCLUDE gt-ins USER AChan
```

EXCLUDEALL type name

Excludes a user, host, display or group from the list of who is allowed to use all features served by this vendor daemon (Wise03.exe).

type

One of USER, HOST, DISPLAY, GROUP or HOST_GROUP.

name

Name of the user or group to exclude

To exclude any user on the server "chaos" from using all features served by Wise03.exe:

```
EXCLUDEALL HOST chaos
```

GROUP groupname usernamelist

HOST_GROUP groupname hostnamelist

Defines a group of users/hosts for use in INCLUDE, INCLUDEALL, EXCLUDE, EXCLUDEALL, AND RESERVE options lines.

groupname

Name of the group being defined

username list

list of user names in that group

To define the user group Engineers consisting of MBurns, JHowe, and AJames:

```
GROUP Engineers MRoberts JHoward AJames
```

To define the host group engineers consisting of node_a, node_b, and node_c:

```
HOST_GROUP engineers node_a node_b node_c
```

INCLUDE featurename type name

Includes a user, host, display, or group in the list of who is allowed to use the feature. Anyone *not* in an INCLUDE statement will not be allowed to use that feature.

featurename

Name of the feature being affected

type

One of USER, HOST, DISPLAY, GROUP or HOST_GROUP.

name

Name of the user or group to include

To include user "MRoberts" in the list of users able to use gt-vwr:

```
INCLUDE gt-vwr USER MRoberts
```

INCLUDEALL type name

Includes a user, host, display, or group in the list of who is allowed to use all features served by Wise03.exe. Anyone not in an INCLUDEALL statement will not be allowed to use these features.

type

One of USER, HOST, DISPLAY, GROUP or HOST_GROUP.

name

Name of the user or group to include

To allow the user "KDean" to use all features served by Wise03.exe:

INCLUDEALL USER KDean

NOLOG what

Turns off logging of specific events by the FLEXlm daemons. Administrators might use this option to reduce the size of the lmgrd or debug.log file.

what

What to turn off: one of IN, OUT, DENIED, OR QUEUED

To turn off logging of check-ins:

NOLOG IN

To turn off logging of check-outs and queued requests two separate NOLOG lines are required:

NOLOG DENIED

NOLOG QUEUED

REPORTLOG

Specifies that a log file be written suitable for use by the FLEXadmin End-User Administration Tool. You set up a log in C:\ProgramData\WISE Software Solutions\License\debug.log (on Windows Vista) or C:\Documents and Settings\All Users\Application Data\WISE Software Solutions\License\debug.log (on all other versions of Windows) when you setup your license server. It is a great diagnostic help when determining who is using the tool or what is happening when you attempt to access the Wise03.lic file.

RESERVE numlic featurename type name

Reserves licenses for a specific user. Any licenses reserved for a user are dedicated to that user. Even when the user is not actively using the license it will be unavailable to other users.

numlic

Number of licenses to reserve

featurename

Name of feature to reserve

type

One of USER, HOST, DISPLAY, GROUP or HOST_GROUP.

name

Name of the user or group to reserve licenses for.

To reserve one license of Designer (gt-dsn) for user "JDoe"

```
RESERVE 1 gt-dsn USER JDoe
```

Rules of Precedence in Option Files

INCLUDE and EXCLUDE statements can be combined in the same options file and control access to the same features. When doing so, you will need to refer to the following rules of precedence:

- If there is only an EXCLUDE list, everyone who is not on the list will be allowed to use the feature.
- If there is only an INCLUDE list, only those users on the list will be allowed to use the feature.
- If neither list exists, then everyone is allowed to use the feature.
- The EXCLUDE list is checked before the INCLUDE list; so someone who is on both lists will not be allowed to use the feature.

Once you create an INCLUDE or EXCLUDE list everyone else is implicitly "outside" the group. This feature allows you, as an administrator, the ability to control licenses without having to explicitly list each user that you wish to allow or deny access to. For example:

```
RESERVE 1 gt-ins USER JDoe
```

```
RESERVE 2 gt-dsn HOST ntpc
```

```
EXCLUDE gt-dsn USER RWilliams
```

```
NOLOG QUEUED
```

This Options file would:

- Reserve one license of the gt-ins feature for JDoe.
- Reserve 2 licenses of the gt-dsn feature for anyone on a computer with the hostname "ntpc".
- Prevent RWilliams from using the gt-dsn feature on any node on the network.
- Cause QUEUED messages to be omitted from the debug log file.