Application Technical Note
ADIVA Windows License Installation – Win7 / Win10 / Win11   January 2023
Macrovision Flexlm License Manager V 11.x

Installation of Macrovision's Flexlm License Manager V11.x creates a Windows Service that will run quietly in the background and startup automatically on a system reboot waiting for license checkout requests. This service starts two programs that can be seen under the Windows Task Manager called "**lmgrd.exe**" and "**ADld.exe**". Licenses will be checked out and back in automatically as **AdivaTools** and / or **AdivaView** are opened or closed by the user.

If this is a **stand-alone installation** continue to the next steps for license configuration and installation or contact Adiva Support directly support@adiva.com for assistance.
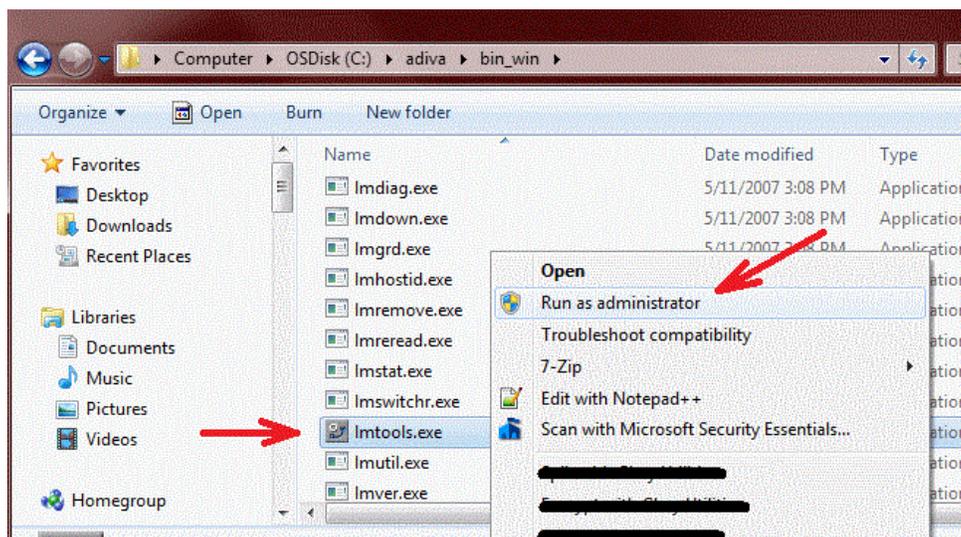
If this is a **network installed** license to be accessed by others in your organization, more than likely a system administrator has already performed the license install. If this is the case, jump down this document to the **Advanced Network Settings** section for configuration instructions.

The License File

To begin the license installation, first verify that ADIVA's software package has been installed as defined in the **Adiva Installation Note**. Once that installation has been completed, copy the license provided by Adiva as-is into the "**c:\adiva**" directory and rename it "**license.txt**". If the file "**license.txt**" exists, go ahead and overwrite the file (it should be an empty file anyway supplied as a place holder).
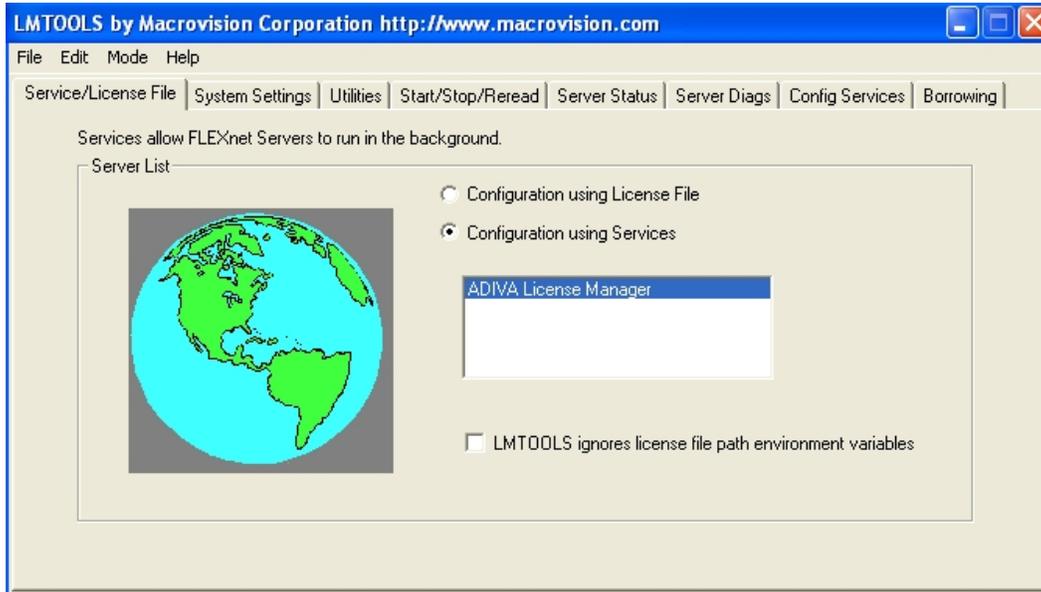
 This new "**license.txt**" file may need minor edits to complete the configuration of the license to the specific system running the license. There are two things to check, the **SERVER** line and the **DAEMON** line.

The **SERVER** line must match the name and address of your Windows system. Use Windows Explorer to navigate to the "**c:\adiva\bin_win**" directory and right click on the program "**lmtools.exe**". Choose "**Run as Administrator**" as well as approve any Win7 / Win10 security alerts during the process.

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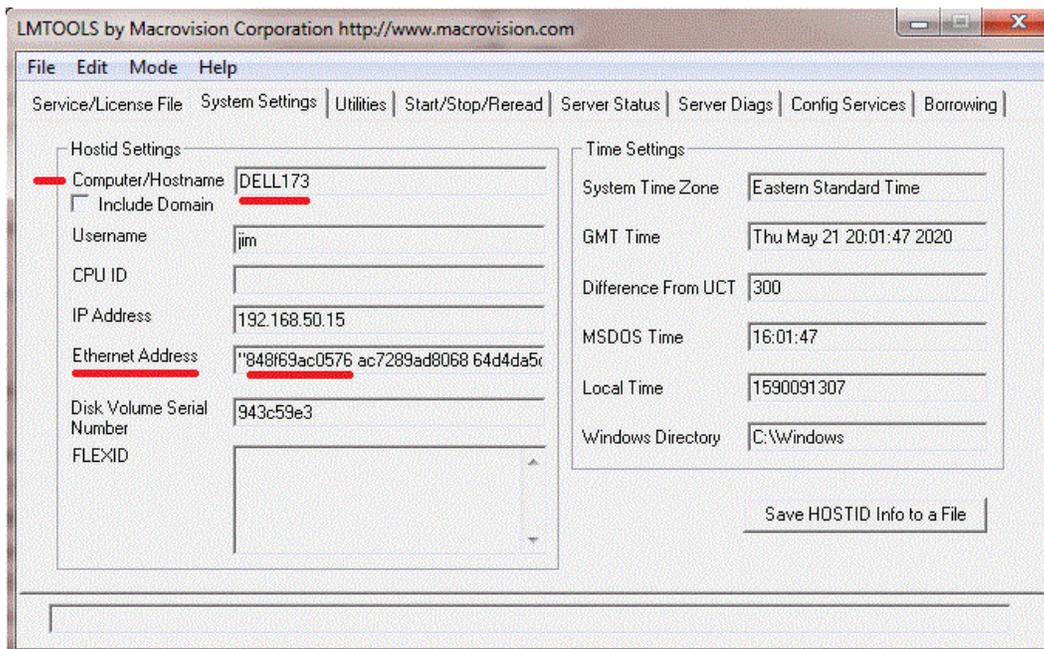**Great Falls, VA 22066**   **703-547-9400**

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The program should start and show its initial screen (at this point "ADIVA License Manager" will not be displayed on the screen like you see below)…

Click on the **System Settings** tab and review the **Hostname** and **Ethernet Address** listed…

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If needed, replace **Hostname** (field 2) of the **SERVER** line in your new **license.txt** file to match the **Hostname** listed in the **Systems Settings** dialog. In the end, your license.txt file should have a **SERVER** line that looks something like this (where in this example "DELL173" is the Windows hostname – text case matters)….

      SERVER DELL173 848f69ac0576 1703

The **Ethernet Address** (field 3 of the **SERVER** line) should also match one of the addresses listed as highlighted. Text case does not matter. If the **Ethernet Address** does not match, contact Adiva Support directly for assistance. This value cannot be changed and is keyed to the Features listed later in the license.txt file.

The final number (field 4) shown in the **SERVER** line is the "port" number and should be left as-is and not modified (advanced users may adjust this value to fit their local installation settings). It may not match the value shown in the above example.

Concern about port #

It is important to side note that port numbers (as shown above) not be duplicated with any other license program being served. For instance, if a CAD system is using port 5280, DO NOT assign port number 5280 to the Adiva license file. Pick a unique number that is not duplicated by any other system process for the Adiva license. Contact Adiva or your system administrator for further details to prevent license service confusion.

Continuing **license.txt** file configuration, check the **DAEMON** line should have a path that correctly defines the location of the ADIVA vendor daemon "**ADId.exe**". In default installations, it should look like this below. Verify the path location (field 3) and adjust if needed….

   **DAEMON ADId C:\adiva\bin_win\ADId.exe**

Do not edit, remove, or adjust any other part of the license.txt file. Leave it exactly the way it was provided. Only the above two lines can be edited and only the items described on those lines can be edited. Any other editing will invalidate the license.

Save your **license.txt** file into its C:\adiva directory if any modifications were needed.

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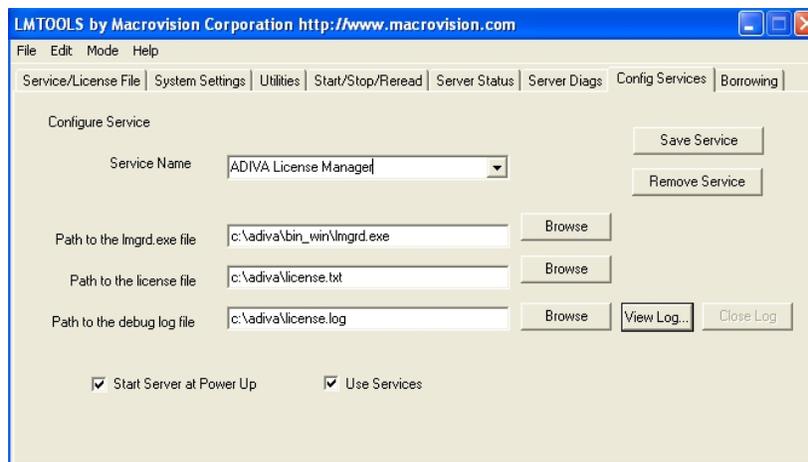**Application Technical Note**

License Installation and Startup

Once the license is configured correctly, it is time to create the background license service for Windows. Return to the **Service/License File** tab…
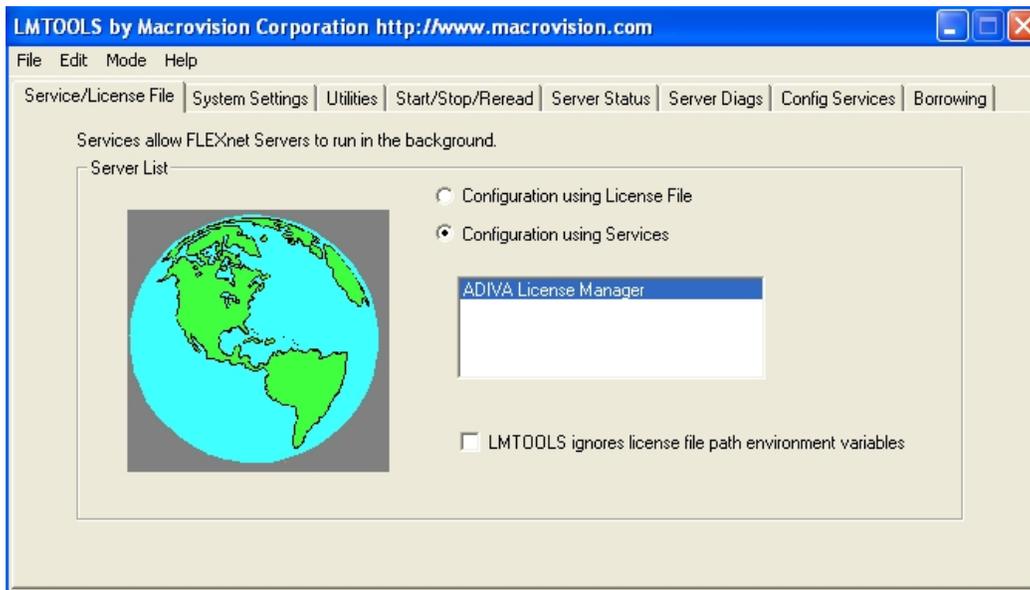
> *Note: the **ADIVA License Manager** text highlighted in blue here will not be present in the list yet even though it is shown in this image.*

Select the "**Configuration Using Services**" radio button and then choose the "**Config Services**" tab in the upper right corner of this dialog.

The program should now be presenting a screen that looks like this but all of the entry windows are blank ready for you to fill in…

4

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Application Technical Note

Click on the "**Service Name"** entry window and type in "**ADIVA License Manager**" as the service name to create.

Adjust the three "**Path to**…" entries to reflect program and file locations as shown.

> *>> Note: the "**license.log**" file will be created new once the service has been started, so you won't be able to browse to it now – just type in the name as shown with appropriate path.*
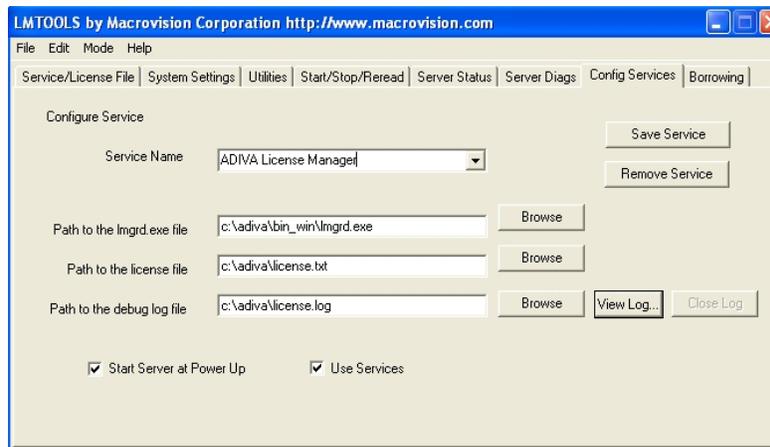
Check on the "**Use Services**" and "**Start Server at Power Up**" options then select the "**Save Service**" button in the upper right corner of the dialog.

Now, choose the "**Start/Stop/Reread**" tab in the top center of the program. The program should now be presenting a screen that looks like this…
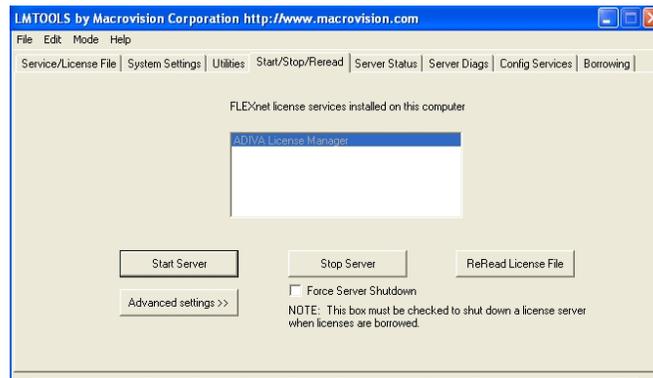
It's now time to start the license manager. Make sure the "**ADIVA License Manager**" service is highlighted and then select the lower left button "**Start Server**".

Go back and select the "**Config Services**" tab in the upper right corner of the program and then select the "**View Log**…" button in the lower right corner of the program next to the log file name.

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A new window will open displaying the license log file. Scroll through this log file looking for data that will look something like this…

        12:21:00 (ADId) Server started on mypc for: DP
        12:21:00 (ADId) NLT   EDITORS   DRC
        12:21:00 (ADId) CHK   CMP   FLT
        12:21:00 (ADId) AVW

                …indicating that the license keys are available. If you see this type of a report, license installation and startup are now complete. You can close the log file by selecting the "**Close Log**…" button and then exit "**Imtools**".

If the above keys are listed as not available or you see any other failure lines in the license file, contact ADIVA support for further help – 703-547-9400 – or – support@adiva.com.
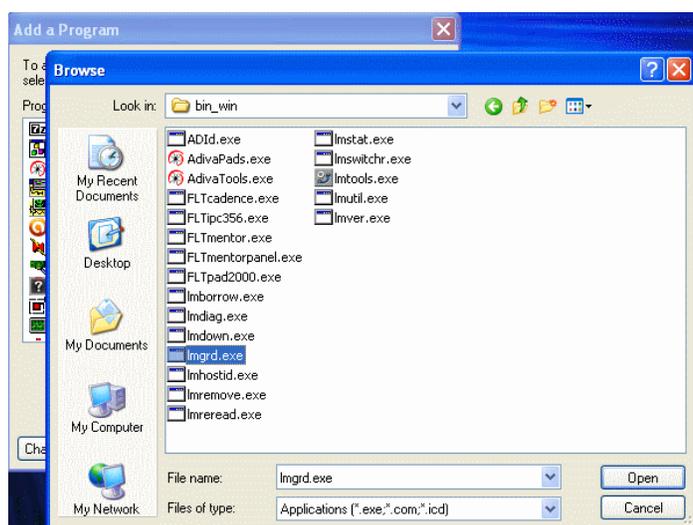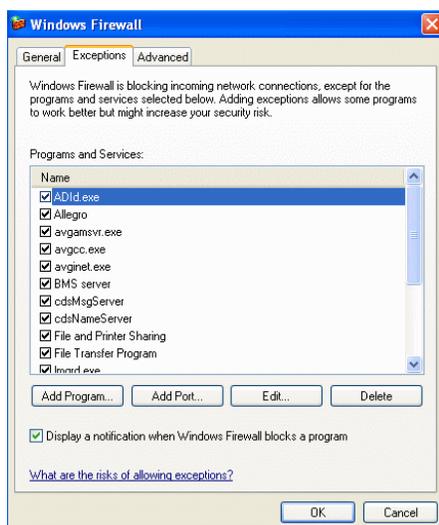
TIP:

If Windows Firewall is turned ON, it is possible that ADIVA software on other computers will not have access to the server installed license. Typically, on a client system, the environment variable **ADID_LICENSE_FILE** would be set to a *port@host* setting – something like *7103@servername*. With Windows Firewall turned ON, the license ports could be blocked ultimately denying access to ADIVA Software.

To resolve this issue, on the system hosting the ADIVA license server, you will need to allow firewall access to the programs **lmgrd.exe** and **ADId.exe.** Both programs are located in the "c:\adiva\bin_win" directory.

On the Windows Desktop, select….

Start > Control Panel > Security Center > Manage Windows Firewall > Exceptions

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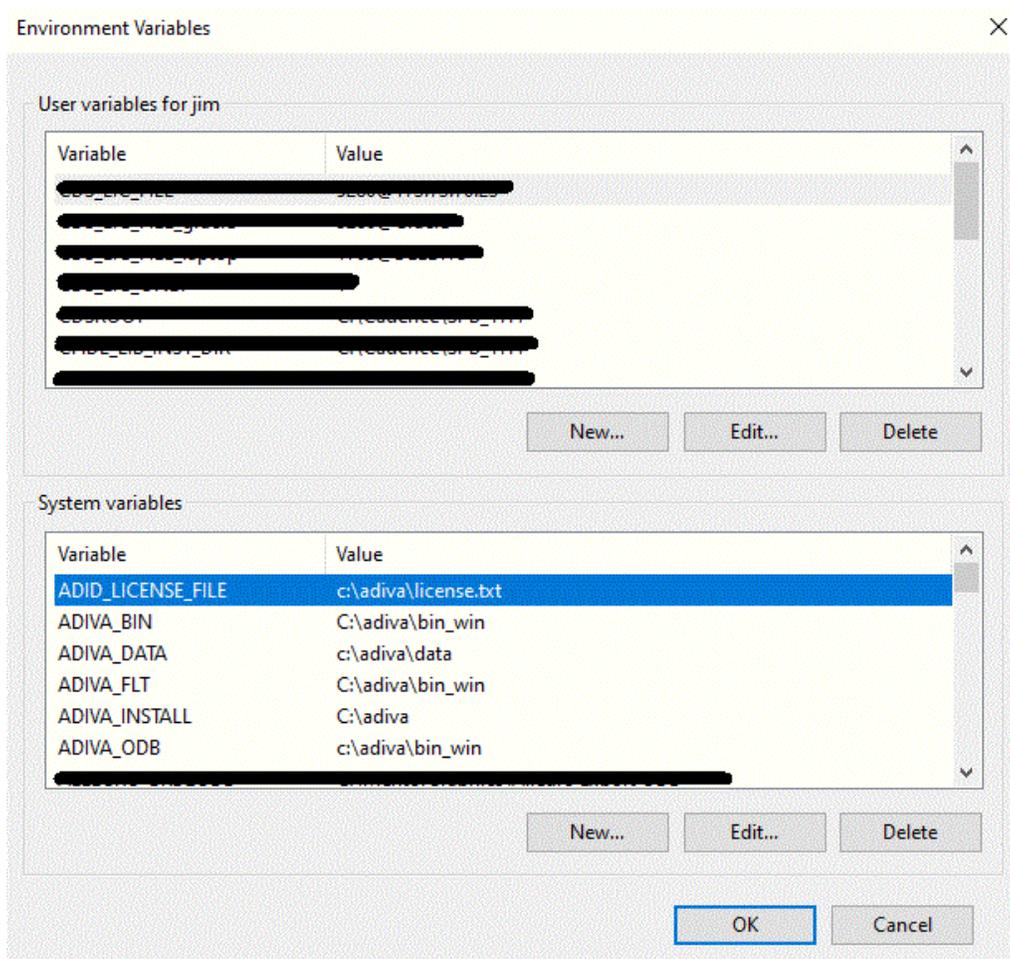
Application Technical Note

    …and then select **Add Program**.

Browse to the program **lmgrd.exe** contained in the "c:\adiva\bin_win" directory and select it. Repeat for the program **ADId.exe** contained in the same "c:\adiva\bin_win" directory. **OK** these additions and now ADIVA's license should be available to any client that has network access.

Advanced Network Settings

If your license has been installed by a network administrator to be served by a license server, then you will need to tell Windows and Adiva, where to find the license keys since they are not local to your workstation. This will involve the addition of an environment setting to your Windows system.

To find this setting, in Windows navigate to **Settings > About > System Info > Advanced System Settings > Environment Variables** which will bring up a dialog showing the current Windows environment…

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Application Technical Note

Specifically, you will need to change the value for **ADID_LICENSE_FILE** variable to reflect the location of the license server and the port number broadcasting the license keys. Using our original example from the local installation described above as the license server, change the **ADID_LICENSE_FILE** value entry to read **1703@DELL173** as shown below…
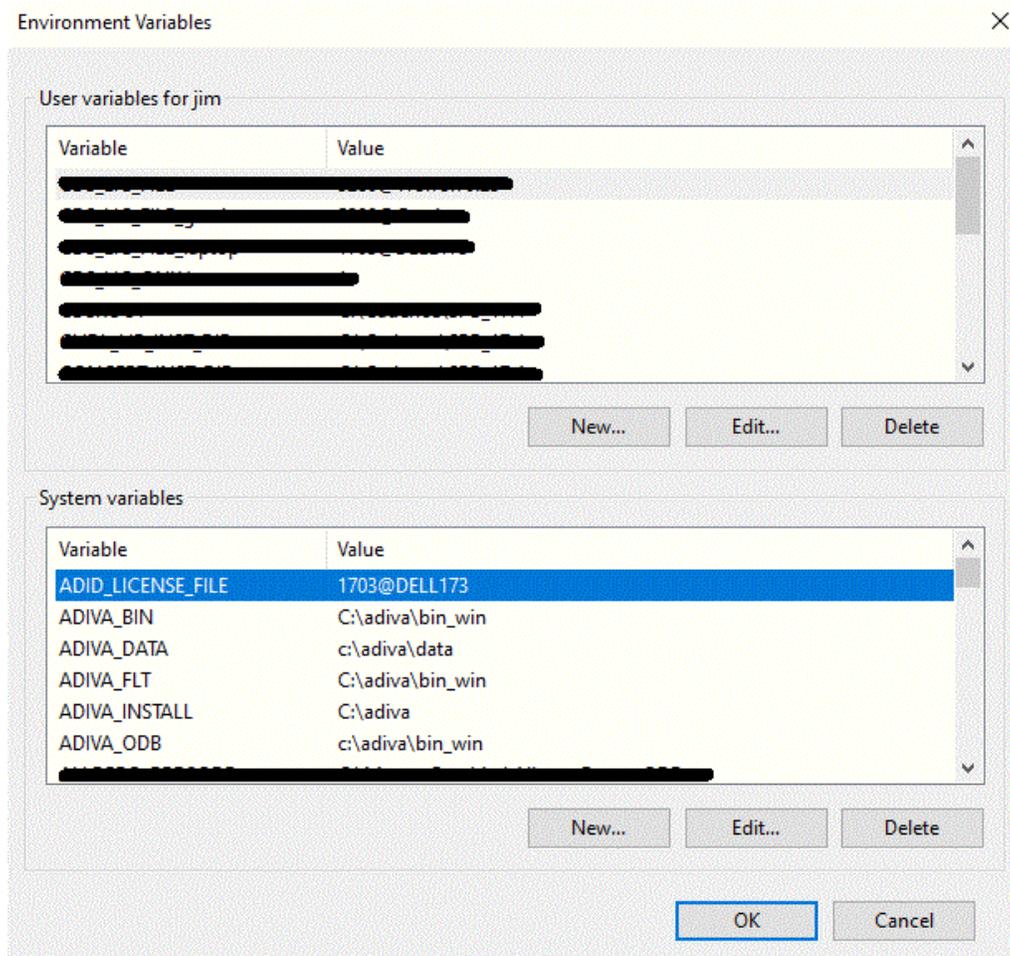
This tells Windows and Adiva to look at port# 1703 on the server named DELL173 for Adiva license keys. Of course, these are example settings. Your own port numbers and server names will need to be located here – see your system admin who installed the license for these values.

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At this point – Adiva Licensing should be up and running – if Adiva will not startup, check that **log file** again in the **lmtool.exe** program. Usually error messages in there will explain why licenses are not checking out. Otherwise, call 703.547.9400 or email support@adiva.com for assistance.