# Application Technical Note

ADIVA Windows License Installation – Win7 / Win10 / Win11 Macrovision FlexIm License Manager V 11.x January 2023

Installation of Macrovision's FlexIm 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 "**Imgrd.exe**" and "**ADId.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 <u>stand-alone installation</u> continue to the next steps for license configuration and installation or contact Adiva Support directly <u>support@adiva.com</u> for assistance.

If this is a <u>network installed</u> 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 "Imtools.exe". Choose "**Run as Administrator**" as well as approve any Win7 / Win10 security alerts during the process.

)rganize 🛪 🗖 Open	Burn New folder			
	Name	*	Date modified	Туре
Pavorites	E Imdiag.exe		5/11/2007 3:08 PM	Applicatio
Develoade	Imdown.exe		5/11/2007 3:08 PM	Applicatio
Recent Discor	Imgrd.exe		5/11/2007 2 8 PM	
Recent Places	Imhostid.exe	Open	K	ati
<b>1</b> ().	Imremove.exe	😌 🛛 Run as admi	nistrator	ati
De surs ente	Imreread.exe	Troubleshoo	t compatibility	ati
Documents Music	Imstat.exe	7-Zip		) ati
Iviusic     Distures	Imswitchr.exe	Edit with No	tepad++	ati
Videor	Imtools.exe	Scan with M	crosoft Security Essentials	ati
	Imutil.exe			eti
	Imver.exe	a de la compañía		ati

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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)...

LMTOOLS 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
Services allow FLEXnet Servers to run in the background.
Server List
C Configuration using License File
Configuration using Services      ADIVA License Manager
LMTOOLS ignores license file path environment variables

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

vice/License File System Settings   Utilities   Start/Stop/Reread	Server Status Server D	iags Config Services Borrowing
Hostid Settings	Time Settings	
Computer/Hostname DELL173     Include Domain	System Time Zone	Eastern Standard Time
Username jim	GMT Time	Thu May 21 20:01:47 2020
	Difference From UCT	300
IP Address 192.168.50.15 Ethernet Address 198.469ac/0576.ac7289ad8068.6444da5r	MSDOS Time	16:01:47
Disk Volume Serial 943-59e3	Local Time	1590091307
Number FLEXID	Windows Directory	C:\Windows
		Save HOSTID Info to a File
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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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## 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...

LMTOOLS 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
Services allow FLEXnet Servers to run in the background.
C Configuration using License File
Configuration using Services
LMTOOLS ignores license file path environment variables

**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...

ervice/License File   System Se	attings   Utilities   Start/Stop/Reread   Server Status   Server Dia	gs Config Services Borrowing
Conrigure Service	ADIVA License Manager	Save Service
		Remove Service
Path to the Imgrd.exe file	c:\adiva\bin_win\lmgrd.exe	
Path to the license file	c:\adiva\license.txt	
Path to the debug log file	c:\adiva\license.log Browse	View Log Close Log
🔽 Start Server at Po	wer Up 🔽 Use Services	

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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...

LMTOOLS by Mac	crovision Corporation http://www.macrovision.com	
File Edit Mode H	Help	
Service/License File	le   System Settings   Utilities   Start/Stop/Reread   Server Status   Server Diags   Config Services   Born	owing
	FLEXnet license services installed on this computer	
	Start Server         ReRead License File           Advanced settings >>         Force Server Shutdown           NDTE: This box must be checked to shut down a license server when licenses are borrowed.	

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.

File Edit Mode Help		
Service/License File System Set	tings Utilities Start/Stop/Reread Server Status Server Diags	Config Services Borrowing
Configure Service Service Name	ADIVA License Manage	Save Service Remove Service
Path to the Imgrd.exe file Path to the license file	c:\adiva\bin_win\Imgrd.exe Browse c:\adiva\license.txt Browse	]
Path to the debug log file	c:\adiva\license.log Browse	View Log Close Log
☑ Start Server at Por	wer Up 🔽 Use Services	

**?** 

Open

Cancel

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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.

## <u>TIP:</u>

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 **Imgrd.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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...and then select Add Program.

**Browse** to the program **Imgrd.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...

Variable	Value			^
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Costoor				
	encedence(or b_n			~
			F 11.	
		New	Edit	Delete
at an an air fablar				
stem variables				
stem variables Variable	Value			^
stem variables Variable ADID_LICENSE_FILE	Value c:\adiva\license.txt			^
stem variables Variable ADID_LICENSE_FILE ADIVA_BIN	Value c:\adiva\license.txt C:\adiva\bin_win			^
stem variables Variable ADID_LICENSE_FILE ADIVA_BIN ADIVA_DATA	Value c:\adiva\license.bxt C:\adiva\bin_win c:\adiva\data			^
stem variables Variable ADID_LICENSE_FILE ADIVA_BIN ADIVA_DATA ADIVA_FLT	Value c:\adiva\license.txt C:\adiva\bin_win c:\adiva\data C:\adiva\bin_win			^
variables ADID_LICENSE_FILE ADIVA_BIN ADIVA_DATA ADIVA_FLT ADIVA_INSTALL	Value c:\adiva\license.bxt C:\adiva\bin_win c:\adiva\data C:\adiva\bin_win C:\adiva			
variables ADID_LICENSE_FILE ADIVA_BIN ADIVA_DATA ADIVA_FLT ADIVA_INSTALL ADIVA_ODB	Value c:\adiva\license.bxt C:\adiva\bin_win c:\adiva\data C:\adiva\bin_win C:\adiva c:\adiva			
stem variables ADID_LICENSE_FILE ADIVA_BIN ADIVA_DATA ADIVA_FLT ADIVA_INSTALL ADIVA_ODB	Value c:\adiva\license.bxt C:\adiva\bin_win c:\adiva\data C:\adiva\bin_win C:\adiva c:\adiva			
stem variables ADID_LICENSE_FILE ADIVA_BIN ADIVA_DATA ADIVA_FLT ADIVA_INSTALL ADIVA_ODB	Value c:\adiva\license.bxt C:\adiva\bin_win c:\adiva\data C:\adiva\bin_win C:\adiva c:\adiva c:\adiva			

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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...

	Value		^
	_		v
		New Edit	Delete
stem variables			
stem variables Variable	Value		^
stem variables Variable ADID_LICENSE_FILE	Value 1703@DELL173		<u>^</u>
stem variables Variable ADID_LICENSE_FILE ADIVA_BIN	Value 1703@DELL173 C:\adiva\bin_win		^
stem variables Variable ADID_LICENSE_FILE ADIVA_BIN ADIVA_DATA	Value 1703@DELL173 C:\adiva\bin_win c:\adiva\data		•
stem variables Variable ADID_LICENSE_FILE ADIVA_BIN ADIVA_DATA ADIVA_FLT	Value 1703@DELL173 C:\adiva\bin_win c:\adiva\data C:\adiva\bin_win		^
stem variables Variable ADID_LICENSE_FILE ADIVA_BIN ADIVA_DATA ADIVA_FLT ADIVA_INSTALL	Value 1703@DELL173 C:\adiva\bin_win c:\adiva\data C:\adiva\bin_win C:\adiva		^
stem variables Variable ADID_LICENSE_FILE ADIVA_BIN ADIVA_DATA ADIVA_FLT ADIVA_INSTALL ADIVA_ODB	Value 1703@DELL173 C:\adiva\bin_win c:\adiva\data C:\adiva\bin_win C:\adiva c:\adiva		^
stem variables Variable ADID_LICENSE_FILE ADIVA_BIN ADIVA_DATA ADIVA_CATA ADIVA_INSTALL ADIVA_ODB	Value 1703@DELL173 C:\adiva\bin_win c:\adiva\data C:\adiva\bin_win C:\adiva c:\adiva\bin_win		•

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.

#### <><><>

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