# MATLAB<sup>®</sup> & Simulink<sup>®</sup> Release 2010a Installation Guide for UNIX<sup>®</sup>

# MATLAB<sup>®</sup> SIMULINK<sup>®</sup>



#### How to Contact The MathWorks



(a)

www.mathworks.comWebcomp.soft-sys.matlabNewsgroupwww.mathworks.com/contact\_TS.htmlTechnical Support

suggest@mathworks.com bugs@mathworks.com doc@mathworks.com service@mathworks.com info@mathworks.com Product enhancement suggestions Bug reports Documentation error reports Order status, license renewals, passcodes Sales, pricing, and general information



508-647-7001 (Fax)

508-647-7000 (Phone)

The MathWorks, Inc. 3 Apple Hill Drive Natick. MA 01760-2098

For contact information about worldwide offices, see the MathWorks Web site.

Installation Guide for UNIX<sup>®</sup>

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# Standard UNIX Installation and Activation Procedures

This topic describes how to install and activate MathWorks<sup>™</sup> products on systems running the UNIX<sup>®</sup> and Linux<sup>®</sup> operating systems.

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- "Activating an Installation" on page 1-14
- "Installing and Activating Without an Internet Connection" on page 1-27
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## Installing MathWorks Software in a Standalone Environment

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## **Overview of Standalone Installation**

This topic describes how to install and activate MathWorks products on a computer running the Linux operating system (32-bit or 64-bit). Use this procedure if you have an Individual license or Group license. For information about setting up the network license options, see "Installing MathWorks Network License Options" on page 1-40.

#### Step 1: Prepare to Install

Before you run the installer:

• Make sure you have your e-mail address and your MathWorks Account password handy. You log in to your account during installation. If you have multiple licenses associated with your account, know the number of the license you want to install.

If you do not have a MathWorks Account, you can create one during installation. However, to do this, you must have an *Activation Key*. An Activation Key is the unique code that identifies a license. It is used to activate the license. The Activation Key also allows licensed end users to associate their MathWorks Account with a license. Ask the administrator of the license for the Activation Key.

• Get the root password. To install the symbolic links that add the matlab command to your users' paths and to edit the system boot script to start the license manager automatically at system boot time, you need superuser status. If you do not have superuser status, you can still install MATLAB<sup>®</sup> software, but you must specify absolute pathnames to start the software. You can also set up these links after the installation is complete.

If you do not have an Internet connection during installation, see "Installing and Activating Without an Internet Connection" on page 1-27.

If you need to perform a network server or client installation, see "Installing MathWorks Network License Options" on page 1-40.

#### Step 2: Start the Installer

Insert the MathWorks DVD into the DVD drive connected to your system or download product files from the MathWorks Web site.

Note Do not move to the newly mounted DVD folder.

If you are downloading product files over the Internet, save the files to a temporary location (referred to as **\$TEMP** in this documentation).

**Note** On Linux systems, DVD drives typically mount automatically; however, the drives mount with read-only permission. You might have to change the DVD drive configuration from read-only to execute—see "Problems with Your DVD Drive" on page 2-3.

If you are installing from a DVD, execute the following command to run the installer:

```
/path_to_dvd/install &
```

If you are installing from downloaded files, go to the \$TEMP folder and extract the installer from the archive file specific to your system architecture. In the following example, \$ARCH represents the system architecture abbreviation, such as glnx86:

```
tar -xf matlab_installer_$ARCH.tar
```

When you expand all the installer files in the \$TEMP folder, execute the appropriate command to run the MathWorks installer on your platform:

./install

#### Step 3: Choose Whether to Install Automatically or Manually

When it starts, the installer displays the following dialog box. Choose whether you want to install automatically or manually. When you install automatically, the installer contacts The MathWorks during installation to get license information. The MathWorks recommends installing automatically. If you choose to install manually, see "Installing and Activating Without an Internet Connection" on page 1-27 for step-by-step instructions.

Make your selection and click OK to proceed with the installation.

X-⊨ MathWork	s Installer	×		
MATLAB° SIMULINK° R2010a	This program will install MathWorks products on your computer. You may also be required to activate your software.			
$\diamond$ Install automatically using the Internet (recommended)				
$\diamond$ Install manually without using the Internet				
- A C	MathWorks products are protected by patents (see www.mathworks.com/patents) and copyright laws. By entering into the Software License Agreement that follows within this installation process you will also agree to additional restrictions on your use of these programs. Any unauthorized use, reproduction, or distribution may result in civil and criminal penalties. MATLAB and Simulink are registered trademarks of The MathWorks, Inc. Please see www.mathworks.com/trademarks for a list of additional trademarks. Other product or brand names may be trademarks or registered trademarks of their respective holders.			
0	Cancel Help			

#### **Step 4: Review the Software License Agreement**

Review the software licensing agreement and, if you agree to its terms, click **Yes** to proceed with the installation.

X→ License Agreement	• ×
Do you accept the terms of the license agreement? If these terms are agreeable to you, please indicate so by clicking the Yes button below. Installation will not continue if you do not click the Yes button.	
The MathWorks, Inc. Software License Agreement	A
IMPORTANT NOTICE	
READ THE TERMS AND CONDITIONS OF YOUR LICENSE AGREEMENT CAREFULLY BEF COPYING, INSTALLING, OR USING THE PROGRAMS OR DOCUMENTATION.	¢
THE LICENSE AGREEMENT TOGETHER WITH ANY APPLICABLE ADDENDUM REPRESEN THE ENTIRE AGREEMENT BETWEEN YOU (THE "LICENSEE") AND THE MATHWORKS, I ("MATHWORKS") CONCERNING THE PROGRAM(S) AND DOCUMENTATION.	
BY COPYING, INSTALLING, OR USING THE PROGRAMS AND DOCUMENTATION, YOU	
Yes No	

#### Step 5: Specify the Installation folder

Specify the name of the folder in which you want to install MathWorks products. If the folder does not exist, the installer creates it. When choosing a name for your installation folder, do not specify a name that contains an at (@) sign, the percent (%) character, a plus (+) sign, an exclamation point (!), a dollar (\$) sign, or a space character. Do not specify a name a folder named private as part of the path.

**Note** When upgrading an existing installation, always install the new release in a new installation folder. Each release of MathWorks products stands alone and does not require any previous release. Do not install MathWorks products over any previously released version.

Click OK to proceed with the installation.

X-₩ MATLAB Root Folder		= X
MATLAB root folder location:		
/home/jcustomer/R2010a		Browse
1		
-		
ОК	Cancel	Help

1

#### Step 6: Log In to Your MathWorks Account

Enter your e-mail address and your MathWorks Account password, and click **OK** to log in to your MathWorks Account.

If you need to create an account, select the **Create a MathWorks Account for me** option and enter your e-mail address, first name, last name, and Activation Key. You must specify an Activation Key to associate your newly created account with a license. The Activation Key identifies the license you want to install. The administrator contact on the license can retrieve the key by visiting the License Center at the MathWorks Web site. Click **OK** to proceed with installation. (Because the Activation Key you entered specifies a particular license, the installer skips the next step, license selection.)

X-⊨ MathWorks A	ccount	•×	
♦ Log in to my MathWorks Account			
E-mail address:	jcustomer@mathworks.com		
Password:	******		
💠 Create a MathWe	orks Account for me		
Provide the following information to create your MathWorks Account. A temporary password will be emailed to you. You can change this password and update other account details on the MathWorks Web site.			
E-mail address:	Ĭ		
First Name:	Y		
Last Name:	Y		
Activation Key:	y		
The Activation Key is used to look up your license. You may have received the Activation Key from the Administrator of the license.			
ОК	Cancel Help		

#### Step 7: Select the License You Want to Install

**Note** If you created a MathWorks Account in the previous step, specifying an Activation Key, the installer skips this step.

When you log in to your MathWorks Account, the installer displays all the licenses associated with your account. Each row contains:

- License number
- An optional descriptive text label that can help identify a license. To assign a label to a license, go to the License Center at the MathWorks Web site. See the License Center Help for instructions.
- Information identifying the license option and the activation type. If an activation type has not yet been set on the license, the word "Unset" appears.

Select the license you want to install by clicking anywhere in a row. (If the license is a network license option, see "Installing MathWorks Network License Options" on page 1-40.)

Click OK to proceed with the installation.

	1 -1 -1	Oution
License	Label	Option
8476235	network	Concurrent - Network Concurrent Usi
8479113		Individual - Unset Individual - Standalana Manad Llaar
8746123	my home	Individual - Standalone Named User Individual - Designated Computer
a		
	ctivation key for a l	license not listed:

#### **Specifying an Activation Key**

If you do not see the license you want in the list, select the **Enter an activation key for a license not listed** option and enter an Activation Key. Specifying an Activation Key enables you to install the products associated with the license, but does not associate the license with your account—that occurs when you activate the license.

#### Step 8: Select the Products to Install

Specify the products you want to install in the Installation Options dialog box. By default, the installer lists all the products that you are licensed to install in the **Items to install** pane. If you do not want to install an item, select it and click **Remove**. This moves the product into the **Items not to install** pane.

You can also choose which product binary files are installed on your computer from the **Platforms** list. By default, the installer preselects the platform on which you are running the installer. If you want to install product binary files for additional platforms, select them in the **Platforms** list.

X-¤ Installation Op	otions		
Platforms:	Items to install:	Items not to install:	
☐ Linux (x86) ☐ Linux (x86_64)	MATLAB Simulink Instrument Control Toolbox MATLAB Compiler Simscape Statistics Toolbox		
	Remove >	< Add	
Total Installation Size: 1362808 kbytes			
	OK Cancel	Help	

Click **OK** to proceed with the installation.

### Step 9: Specify the Location of Symbolic Links

In the Installation Data dialog box, you can specify whether you want to create symbolic links to the matlab and mex scripts. Specify a folder such as /usr/local/bin that is common to all your users' paths and click **OK** to continue with the installation.

X-¤ Installation Data		
Create symbolic lin	nks to MATLAB scripts in:	
ОК	Cancel	Help

#### Step 10: Begin the Installation

To begin copying files onto your hard disk, click **OK**. The installer displays a dialog box indicating the progress of the installation.

X-∺ Begin Inst	allation Begin installation?	
ОК	Cancel	Help

#### Step 11: Complete the Installation

When the installation successfully completes, the installer informs you if your installation needs to be activated. While you can activate as a separate process, The MathWorks recommends activating immediately after installing. See "Activating an Installation" on page 1-14 for step-by-step instructions.

X-₩ Installation Complete	×
The MATLAB installer is finished. This installation activated prior to use. Click Continue to be activation process.	
Continue	Help

For information about some common post-installation tasks, see "After You Install" on page 1-56.

Whether you choose to activate immediately or not, click Continue.

If you are going to continue on with activation, leave the MathWorks DVD mounted. If you decided to activate later, you can unmount the DVD drive and remove the DVD.

# Activating an Installation

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"Step 2: Log In to Your MathWorks Account" on page 1-17

"Step 3: Select the License You Want to Activate" on page 1-20

"Step 4: Choose an Activation Type" on page 1-22

"Step 5: Specify the Login Name" on page 1-23

"Step 6: Confirm Your Activation Information" on page 1-25

"Step 7: Complete the Activation" on page 1-26

## Step 1: Start the Activation Application

If you let the installer start the activation application for you, and you were already logged in to your MathWorks Account, simply click **Next** to proceed with activation. Your MathWorks Account log-in session continues into the activation process.

T



#### Starting the Activation Application Independently

If you chose not to continue with activation after installation, you can start the activation application independently. Go to the *matlabroot/bin* folder, where *matlabroot* represents the name of your MATLAB installation folder, and run the activate\_matlab.sh script. For example:

```
cd matlabroot/bin
```

```
./activate_matlab.sh &
```

When started independently, you must choose whether to activate automatically or manually. If you are connected to the Internet, leave the **Activate automatically using the Internet** option selected and click **Next** to proceed with activation. The MathWorks recommends activating automatically. The option to activate manually is useful if you do not have an Internet connection—see "Step 11: Start the Activation Application" on page 1-36.

📣-🛏 MathWorks Sof	ftware Activation	
MATLAB®	Activate MathWorks Software	
SIMULINK® Activation	Activation is a process that verifies licensed use of MathWorks validates the license and ensures that it is not used on more s license option you have acquired.	
	$\ensuremath{ullet}$ Activate automatically using the Internet (recommended)	<u>A</u> dvanced Options
	Activate manually without the Internet	
- → The MathWorks™	< Back	<u>C</u> ancel <u>H</u> elp

If your Internet connection requires a proxy server, click the **Advanced Options** button. You can enter the server name and port information in the Advanced Options dialog box, and access other activation options. See "Accessing Activation Options" on page 2-4 for more information.

#### Step 2: Log In to Your MathWorks Account

**Note** If you let the installer start the activation application, and you were logged in to your account during installation, the activation application skips this step.

To log in to your MathWorks Account, enter your e-mail address and password and click **Next**. The activation application contacts the MathWorks to retrieve the licenses associated with your account.

If you do not have an account, select the I need to create a MathWorks Account option and click Next. See "Creating a MathWorks Account" on page 1-18 for instructions.

If you already have a License File, select the **Provide the path to the License File** option, specify the complete path to the file, and click **Next**. Your License File identifies the products you can run. You may have received this License File from the administrator of the license. After specifying the License File, the activation application skips all the subsequent steps in the process and goes directly to the Activation Complete dialog box.

📣 – 🗏 Log in or Provid	e License File			
MATLAB°	Log in, create an ac	count, or provide your license file		
SIMULINK® Activation	You can use your MathWorks Account to automatically retrieve your license file, or if you already have a license file, you can provide it here.			
	Log in to my Math	nWorks Account:		
	E-mail Address:	jcustomer@mathworks.com		
	Password:	•••••		
	○ I need to create a	<u>Forgot your password?</u> an Account (requires an Activation Key	)	
Т	<ul> <li>Provide the path</li> </ul>	to the license file:		
				B <u>r</u> owse
- → The MathWorks™	< <u>B</u> ack	<u>N</u> ext >	Cancel	<u>H</u> elp

#### **Creating a MathWorks Account**

If you selected the **I need to create a MathWorks Account** option, the activation application displays the Account Creation dialog box. Provide the information required to create an account. Note that you must provide an Activation Key to identify a license to associate with the account. Ask the administrator on your license for the Activation Key.

Click Next to proceed with activation.

**Note** Because the Activation Key identifies a license, the activation application can skip the next step, license selection. If the license specified already has the activation type set, the activation application can also skip the activation type selection step.

-→ Account Creatio	'n	• • *
MATLAB®	Create a MathWo	orks Account
SIMULINK® Activation	Provide the following information to create your MathWorks Account. A temporary password will be emailed to you. You can change this password and update other account details on the MathWorks Web site.	
	E-mail address:	jcustomer@mathworks.com
	First name:	Jane
	Last name:	Customer
	Activation Key:	55555 - 55555 - 55555 - 55555
T		y is used to look up your license. You may have received your Activation inistrator of the license.
Privacy Policy		
- The MathWorks™	< <u>B</u> ack	K <u>N</u> ext > <u>C</u> ancel <u>H</u> elp

#### Step 3: Select the License You Want to Activate

**Note** If you continued with activation immediately after installation, the activation application assumes you want to activate the license that you just installed and skips this step. Likewise, if you created a new account in the previous step and specified an Activation Key, the activation application skips this step.

When you log in to your MathWorks Account, the activation application displays all the licenses associated with your account. Each row contains:

- License number
- An optional descriptive text label that can help identify a license. To assign a label to a license, go to the License Center at the MathWorks Web site. See the License Center Help for instructions.
- Information identifying the license option and the activation type. If an activation type has not yet been set on the license, the word "Unset" appears.

Select the license you want to activate by clicking anywhere in a row and click **Next** to proceed with the activation.

MATLAB®	Select a license o	r enter an Activatio	n Key
<b>ŠSIMULINK®</b>	Select a license		
Activation	License	Label	Option
	565848	My Home	Individual – Standalone Named User
	565850	Mylab	Individual – Designated Computer
	565854		Individual – Unset
	565855	Network	Concurrent – Network Concurrent User
	<ul> <li>Enter an Activa</li> </ul>	tion Key for a license	not listed:
	O Enter an Activa	tion Key for a license	not listed:
	-		not listed: - <u>n Key</u> from the Administrator of the license.
	-		-

#### **Specifying an Activation Key**

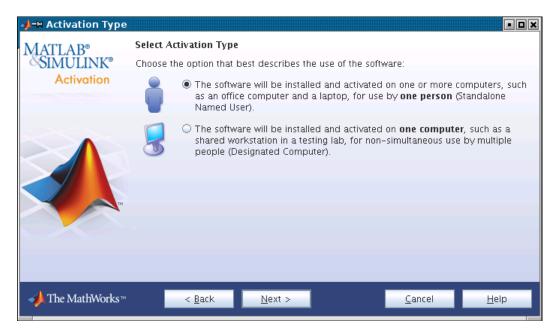
If you do not see the license you want in the list, select the **Enter an Activation Key for a license not listed** option and enter an Activation Key. Specifying an Activation Key enables you to install the products associated with the license, but does not associate the license with your account—that occurs when the activation process is complete.

#### Step 4: Choose an Activation Type

**Note** If the license you installed (or selected) has the activation type preset, the activation application skips this step.

Select an activation type for your license. If you want to ensure that you are the only person who can use the software, select the **Standalone Named User** option. If you want to share the installation for nonsimultaneous use by several people, choose the **Designated Computer** option.

After making your selection, click Next to proceed with activation.



### Step 5: Specify the Login Name

**Note** If you picked the Designated Computer activation type for the license, the activation application skips this step; you do not need to specify a user name.

If you selected the Standalone Named User activation type, you must specify the operating system user name of the person who will use the software. The operating system user name is the ID under which a user gains access to a computer. It is also known as the computer login name. Standalone Named User activation types lock to this user name in addition to the computer host ID. Accept the default user name or enter a new one and click **Next** to proceed with activation.

By default, the activation application fills in the user name of the person running the activation application. To accept this default, leave the **I will use the software** option selected and click **Next**.

If you want to activate the license for someone else, select the **Someone** else will use the software option and specify their e-mail address, name, and operating system user name. The activation application looks for their MathWorks Account or creates an account for them. This option can be useful for system administrators activating the software for other users. Click **Next** to continue with activation.

📣 – H Licensed End Us	зег		• <b>•</b> ×
MATLAB° SIMULINK°	Specify who will use the softw Only one user is licensed for this	vare installation. Identify the licensed end	d user.
Activation	I will use the software Login Name:	jcustomer	
	<ul> <li>Someone else will use the sot (If necessary, a MathWorks A</li> </ul>	ftware ccount will be created for this persor	1.)
	End User's E-mail Address: First name:		
Т	Last name: Login Name:		What is this?
Drivers ( Doline )			
Privacy Policy			
- → The MathWorks™	< <u>B</u> ack <u>N</u> e)	ct > Cancel	Help

## **Step 6: Confirm Your Activation Information**

If all the information displayed is correct, click Activate.

To activate an installation, The MathWorks creates a License File that is locked to the computer. If you selected the Standalone Named User activation type, The MathWorks also locks the License File to a particular user. The activation application copies this License File onto your computer. This License File enables you to run MathWorks products on your computer. The MathWorks also keeps a record of the activation in MathWorks systems.

-≱-⊨ Confirmation		• <b>•</b> ×
MATLAB®	Confirm activation settings:	
SIMULINK® Activation	License number: 565854 Activation type: Individual – Standalone Named User Activated by: jcustomer@mathworks.com Login Name: jcustomer	
	This information will be sent to The MathWorks.	
- → The MathWorks™	< <u>B</u> ack <u>Activate &gt;</u> <u>C</u> ancel	<u>H</u> elp

#### Step 7: Complete the Activation

After activation is complete, you can run the MathWorks software on your computer. Click **Finish** to exit the activation process.



# **Installing and Activating Without an Internet Connection**

In this section
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"Step 12: Specify the Location of Your License File" on page 1-37
"Step 13: Complete the Activation" on page 1-39

#### Step 1: Prepare to Install

Before you run the installer:

- Make sure you have a *File Installation Key* and a License File. The File Installation Key is a code that determines which products you can install. The File Installation Key is not unique to a license. The License File identifies the products you can run. The administrator on the license can retrieve the File Installation Key and License File at the License Center at the MathWorks Web site. See the License Center Help for instructions.
- Get the root password. To install the symbolic links that add the matlab command to your users' paths and to edit the system boot script to start the MATLAB license manager automatically at system boot time, you need superuser status. If you do not have superuser status, you can still install MATLAB software, but you must specify absolute path to start the software. You can also set up these links after the installation is complete.

If you have an Internet connection, follow the instructions in "Installing MathWorks Software in a Standalone Environment" on page 1-2. The MathWorks recommends installing and activating automatically using an Internet connection.

You can use this procedure to install the software in a standalone environment and in network configurations. For detailed instructions about performing an installation in a network configuration, see "Installing MathWorks Network License Options" on page 1-40.

#### Step 2: Start the Installer

Log in to the system on which you want to install MATLAB software.

Insert the MathWorks DVD into the DVD drive connected to your system or download product files from the MathWorks Web site.

Note Do not move to the newly mounted DVD folder.

If you are downloading product files over the Internet, save the files to a temporary location (referred to as **\$TEMP** in this documentation).

**Note** On Linux systems, DVD drives typically mount automatically; however, the drives mount with read-only permission. You might have to change the DVD drive configuration from read-only to execute—see "Problems with Your DVD Drive" on page 2-3.

If you are installing from a DVD, execute the following command to run the installer:

/path\_to\_dvd/install &

If you are installing from downloaded files, go to the \$TEMP folder and extract the installer from the archive file specific to your system architecture. In the following example, \$ARCH represents the system architecture abbreviation, such as glnx86:

```
tar -xf matlab_installer_$ARCH.tar
```

After you expand all the installer files in the **\$TEMP** folder, execute the appropriate command to run the installer on your platform:

./install

### Step 3: Choose to Install Manually

When it starts, the installer displays the following dialog box. If you do not have an Internet connection, select the **Install manually without using the Internet** option and click **OK** to proceed with installation.

Choose to install manually.



Click OK.

### **Step 4: Review the License Agreement**

Review the software licensing agreement and, if you agree to its terms, click  ${\bf Yes.}$ 

X-₩ License Agreement	• X
Do you accept the terms of the license agreement? If these terms are agreeable to you, please indicate so by clicking the Yes button below. Installation will not continue if you do not click the Yes button.	-
The MathWorks, Inc. Software License Agreement	
IMPORTANT NOTICE	
READ THE TERMS AND CONDITIONS OF YOUR LICENSE AGREEMENT CAREFULLY BEF( COPYING, INSTALLING, OR USING THE PROGRAMS OR DOCUMENTATION.	
THE LICENSE AGREEMENT TOGETHER WITH ANY APPLICABLE ADDENDUM REPRESENT THE ENTIRE AGREEMENT BETWEEN YOU (THE "LICENSEE") AND THE MATHWORKS, IN ("MATHWORKS") CONCERNING THE PROGRAM(S) AND DOCUMENTATION.	
BY COPYING, INSTALLING, OR USING THE PROGRAMS AND DOCUMENTATION, YOU	
	1
Yes No	

## Step 5: Specify the Installation folder

Specify the name of the folder in which you want to install MathWorks products. If the folder does not exist, the installer creates it. When choosing a name for your installation folder, do not specify a name that contains an at (@) sign, the percent (%) character, a plus (+) sign, an exclamation point (!), a dollar (\$) sign, or a space character. Do not specify a folder name that includes the word private as part of the path.

**Note** When upgrading an existing installation, always install the new release in a new installation folder. Each release of MathWorks products stands alone and does not require any previous release. Do not install MathWorks products over any previously released version.

Click OK to proceed with the installation.

X-₩ MATLAB Root Folder		= X
MATLAB root folder location:		
/home/jcustomer/R2010a		Browse
1		
ОК	Cancel	Help

### Step 6: Enter the File Installation Key

Enter your File Installation Key and click OK.

If you do not have your File Installation Key, note the host ID and release number information given in this dialog box and click **Cancel** to exit the installer. Take this information to a computer with an Internet connection and visit the License Center at the MathWorks Web site. Provide The MathWorks with this information to retrieve the File Installation Key and License File.

X-₩ File Installation Key	• ×
Provide File Installation Key:	
59160-59432-51255-63539	
Don't have your File Installation Key?	
<ol> <li>Go to a computer with an Internet connection and visit http://www.mathworks.com/licensecenter.</li> </ol>	
2. Activate to retrieve your license file and File Installation Key. You will need to provide the host ID (001b78bbf642), the release (R2010a), and the operating system to activate, and possibly your Computer Login Name. You may also need your license number or Activation Key. You can get these items from your system administrator.	
<ol> <li>Bring the license file and File Installation Key back to this computer to complete the installation and activation process.</li> </ol>	
OK Cancel Help	

### Step 7: Select the Products to Install

Specify the products you want to install in the Installation Options dialog box. By default, the installer lists all the products that you are licensed to install in the **Items to install** pane of this dialog box. If you do not want to install an item, select it and click **Remove**. This moves the product into the **Items not to install** pane.

You can also choose which product binary files are installed on your computer from the **Platforms** list. By default, the installer preselects the platform on which you are running the installer. If you want to install product binary files for additional platforms, select them in the **Platforms** list.

X-₩ Installation O	ptions	
Platforms:	Items to install:	Items not to install:
🗆 Linux (x86)	MATLAB Simulink	
🗏 Linux (x86_64)	Instrument Control Toolbox	
	MATLAB Compiler Simscape	
	Statistics Toolbox	
	Remove >	< Add
	Total Installation Size: 1362808 kbytes	
	OK Cancel	Help

Click **OK** to proceed with the installation.

## Step 8: Specify the Location of Symbolic Links

In the Installation Data dialog box, you can specify whether you want to create symbolic links to the matlab and mex scripts. Specify a folder such as /usr/local/bin that is common to all your users' paths and click **OK** to continue with the installation.

X-¤ Installation Data		
	nks to MATLAB scripts in:	
j/usr/local/bin		
ОК	Cancel	Help

### Step 9: Begin the Installation

To begin copying files onto your hard disk, click **OK**. The installer displays a dialog box indicating the progress of the installation.

X-∺ Begin Insta	allation	
	Begin installation?	
ОК	Cancel	Help

### Step 10: Complete the Installation

When the installation successfully completes, the installer displays the Installation Complete dialog box. This dialog box gives you the option to proceed directly to activating your installation. While you can activate as a separate process, The MathWorks recommends activating immediately after installing. Click **Continue** to proceed to activation or exit the installer.

This procedure for installing and activating without an Internet connection assumes you choose to continue with the activation process at "Step 11: Start the Activation Application" on page 1-36.

X–¤ Installation Complete	×
The MATLAB installer is finished. This installation activated prior to use. Click Continue to beg activation process.	
Continue	Help

For general information about some common post-installation tasks, see "After You Install" on page 1-56.

## Step 11: Start the Activation Application

If you clicked **Continue** on the last installer screen, or started the activation application independently, the activation application starts. Select the **Activate manually without the Internet** option and click **Next**.

📣 – MathWorks Soft	tware Activation		
MATLAB®	Activate MathWorks Software		
SIMULINK® Activation	Activation is a process that verifies licensed use of MathWorks products. This process validates the license and ensures that it is not used on more systems than allowed by the license option you have acquired.		
	Activate automatically using the Internet (recommended)		
~~~~	Activate manually without the Internet		
- <b>→</b> The MathWorks™	< Back Next > Cancel Help		

## Step 12: Specify the Location of Your License File

Specify the full path of the License File associated with the installation of this license, or use the **Browse** button to find the file, and click **Next**. The administrator on the license retrieved this License File along with the File Installation Key at the License Center.

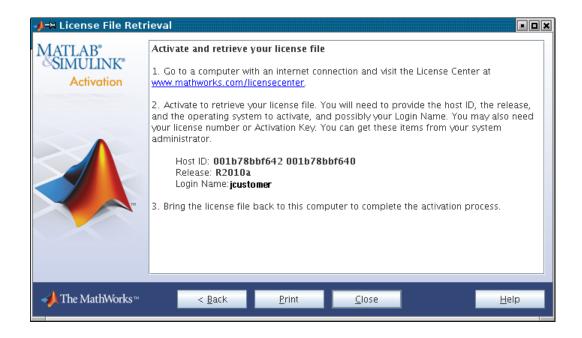
If you do not have your License File, select the **I do not have a license file** option, and click **Next**. The installer provides you with the information you need to get a License File.

📣 – 🗏 Offline Activati	on	- <b>-</b> ×
MATLAB® SIMULINK® Activation	Activate without an Internet connection	
	Enter the path to the license file:     /home/jcustomer/license.lic	B <u>r</u> owse
	$\bigcirc$ I do not have a license file. Help me with the next steps.	
- → The MathWorks™	< <u>B</u> ack <u>N</u> ext > <u>C</u> ancel	<u>H</u> elp

#### If You Do Not Have a License File

If you selected the **I do not have a license file** option, the activation application displays the License File Retrieval dialog box. Note the host ID and release number given in this dialog box (you can print it). You will need this information to get your License File.

Click **Finish** to exit the activation application. Visit the License Center at the MathWorks Web site to get your License File, and bring these items back to this computer to complete activation.



## Step 13: Complete the Activation

When activation completes successfully, you can start MATLAB software on your computer. Click **Finish** to exit the activation application. If you want the activation application to start the MATLAB software as it exits, leave the **Start MATLAB** check box selected.

-→ Activation Comp	lete	- <b>-</b> ×
Activation Comp	Activation is complete.    Start MATLAB	
✓ The MathWorks ™		Fi <u>n</u> ish

# **Installing MathWorks Network License Options**

#### In this section...

"Overview of Network Installations" on page 1-40
"Step 1: Prepare to Install" on page 1-41
"Step 2: Start the Installer" on page 1-42
"Step 3: Choose Whether to Install Automatically or Manually" on page 1-43 $$
"Step 4: Review the Software License Agreement" on page 1-45
"Step 5: Specify the Installation folder" on page 1-46
"Step 6: Log In to Your MathWorks Account" on page 1-47
"Step 7: Select the License You Want to Install" on page 1-48
"Step 8: Specify the Products to Install" on page 1-50
"Step 9: Specify the Location of Symbolic Links" on page 1-51
"Step 10: Specify the Location of Your License File" on page 1-52
"Step 11: Begin the Installation" on page 1-54
"Step 12: Complete the Installation" on page 1-55

## **Overview of Network Installations**

This topic describes how to install the MathWorks products on a computer running the Linux operating system (32-bit or 64-bit). Use this procedure for license options that can be installed in a network configuration, such as Concurrent or Network Named User. For information about performing standalone installations of MathWorks products, see "Installing MathWorks Software in a Standalone Environment" on page 1-2.

Depending on your network configuration, you might have to perform multiple installations:

• **Installing the license manager on a server** — For network installations, you must install the FLEXnet<sup>®</sup> license manager to control product access. You install the license manager on a server that is available to all your network users, referred to in this documentation your *license* 

T

*server*. If you are already running the FLEXnet license manager at your site and are familiar with licensing, you can copy the daemons into the proper directories and use your existing installed license manager.

- **Installing MathWorks products on a server** If your configuration calls for users to use MathWorks products from a central location, rather than having them installed on their local system, you must install the product files on a server. If this server is the same system as your license server, you can install MathWorks products at the same time as you install the license manager.
- **Installing MathWorks products on each client system** If your network configuration calls for users to install MathWorks products on their own systems, and only access the license server over the network, then you must install the product files on each system. The client systems must be able to connect to the license server over a network.

**Note** For the network license options, you do not need to run the activation application to activate the software. Instead, you activate the license server in the License Center at the MathWorks Web site before you install. Client installations do not need to be activated.

### Step 1: Prepare to Install

Before you run the installer:

- Make sure you have an activated License File. When installing one of the network license options, you must visit the License Center at the MathWorks Web site, provide the host ID of the computer on which you will run the license manager, and retrieve an activated License File.
- Make sure you have your e-mail address and your MathWorks Account password handy. You will need them to log in to your account during installation. If you have multiple licenses associated with your account, know the number of the license you want to install.

If you do not have a MathWorks Account, you can create one during installation. However, to do this, you must have an *Activation Key*. An Activation Key is the unique code that identifies a license. It is used to activate the license. The Activation Key also allows licensed end users to

associate their MathWorks Account with a license. Ask the administrator of the license for the Activation Key.

• Get the root password. Superuser status is required to install the symbolic links that add the matlab command to your users' paths and to edit the system boot script to start the license manager automatically at system boot time. If you do not have superuser status, you can still install the software, but you must use absolute path to start the software. You can also set up these links after the installation is complete.

If you do not have an Internet connection during installation, see "Installing and Activating Without an Internet Connection" on page 1-27. Note that the procedure for installations of network license options contain a few additional steps.

If you need to perform an installation in a standalone environment, see "Installing MathWorks Software in a Standalone Environment" on page 1-2.

### Step 2: Start the Installer

Insert the MathWorks DVD into the DVD drive connected to your system or download product files from the MathWorks Web site.

Note Do not move to the newly mounted DVD folder.

If you are downloading product files over the Internet, save the files to a temporary location (referred to as \$TEMP in this documentation).

**Note** On Linux systems, DVD drives typically mount automatically; however, the drives mount with read-only permission. You might have to change the DVD drive configuration from read-only to execute—see "Problems with Your DVD Drive" on page 2-3.

If you are installing from a DVD, execute the following command to run the installer:

/path\_to\_dvd/install &

If you are installing from downloaded files, go to the TEMP folder and extract the installer from the archive file specific to your system architecture. In the following example, RCH represents the system architecture abbreviation, such as glnx86:

tar -xf matlab\_installer\_\$ARCH.tar

After you expand all the installer files in the **\$TEMP** folder, execute the appropriate command to run the installer on your platform:

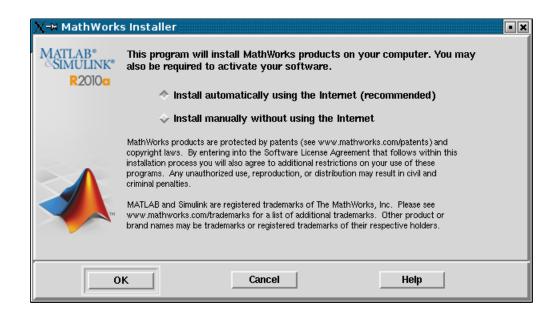
./install

### Step 3: Choose Whether to Install Automatically or Manually

When it starts, the installer displays the following dialog box. Choose whether you want to install automatically or manually. When you install automatically, the installer contacts The MathWorks during installation. The MathWorks recommends installing automatically.

If you choose to install manually, see "Installing and Activating Without an Internet Connection" on page 1-27 for step-by-step instructions.

Make your selection and click **OK** to proceed with installation.



### Step 4: Review the Software License Agreement

Review the software licensing agreement and, if you agree to its terms, click **Yes** to proceed with installation.

X-₩ License Agreement	•×
Do you accept the terms of the license agreement? If these terms are agreeable to you, please indicate so by clicking the Yes button below. Installation will not continue if you do not click the Yes button.	
The MathWorks, Inc. Software License Agreement	
IMPORTANT NOTICE	
READ THE TERMS AND CONDITIONS OF YOUR LICENSE AGREEMENT CAREFULLY BEF( COPYING, INSTALLING, OR USING THE PROGRAMS OR DOCUMENTATION.	
THE LICENSE AGREEMENT TOGETHER WITH ANY APPLICABLE ADDENDUM REPRESENT THE ENTIRE AGREEMENT BETWEEN YOU (THE "LICENSEE") AND THE MATHWORKS, IN ("MATHWORKS") CONCERNING THE PROGRAM(S) AND DOCUMENTATION.	
BY COPYING, INSTALLING, OR USING THE PROGRAMS AND DOCUMENTATION, YOU	
Yes No	

## Step 5: Specify the Installation folder

Specify the name of the folder in which you want to install MathWorks products. When choosing a name for your installation folder, do not specify a name that contains an at (@) sign, the percent (%) character, a plus (+) sign, an exclamation point (!), a dollar (\$) sign, or a space character. Do not use a folder name that includes the word private as part of the path. Click **OK** to proceed with the installation.

If the folder does not exist, the installer displays a dialog box asking if you want to create it. Click **Create** to create the folder, and then click **OK** in the MATLAB Root folder dialog box.

**Note** When upgrading an existing installation, always install the new release in a new installation folder. Each release of MathWorks products stands alone and does not require any previous release. Do not install MathWorks products over any previously released version.

X-⊐ MATLAB Root Folder MATLAB root folder location:	×
/home/jcustomer/R2010a	Browse
OK Cancel	Help
	neh

### Step 6: Log In to Your MathWorks Account

Enter your e-mail address and your MathWorks Account password, and click **OK** to log in to your MathWorks Account.

If you need to create an account, select the **Create a MathWorks Account for me** option and enter your e-mail address, first name, last name, and Activation Key. You must specify an Activation Key to associate your newly created account with a license. The Activation Key identifies the license you want to install. The administrator contact on the license can retrieve the key by visiting the License Center at the MathWorks Web site. Click **OK** to proceed with installation. (Because the Activation Key you entered specifies a particular license, the installer skips the next step, license selection.)

X-¤ MathWorks A	ccount	• ×		
🔷 Log in to my Ma	thWorks Account			
E-mail address:	jcustomer@mathworks.com			
Password:	*****			
🕹 Create a MathW	orks Account for me			
Provide the following information to create your MathWorks Account. A temporary password will be emailed to you. You can change this password and update other account details on the MathWorks Web site.				
E-mail address:	¥			
First Name:	¥.			
Last Name:	Y			
Activation Key:				
The Activation Key is used to look up your license. You may have received the Activation Key from the Administrator of the license.				
ОК	Cancel Help			

### Step 7: Select the License You Want to Install

When you log in to your MathWorks Account, the installer displays all the licenses associated with your account. Each row contains:

- License number
- An optional descriptive text label that can help identify a license. To label a license, go to the License Center at the MathWorks Web site. See the License Center Help for instructions.
- Information identifying the license option and the activation type. If an activation type has not yet been set on the license, the word "Unset" appears.

Select the license you want to install from the list of licenses associated with your account. For a network configuration, select a Network Concurrent User license or a Network Named User license from the list, and click **OK**.

Т

X-¤	License	Selection				• ×
	0-14 - 5		6			
		cense to install products				
	License	Label		Option		
		network		Concurrent - Netwo	rk Concurrent Usi	
	8479113		-	ndividual - Unset		
	8479452	my home		ndividual - Standalo ndividual - Designa		
	0746123	my lab		ndividual - Designa	tea computer	
	Enter an a	activation key for a licens	e not listed:			
		-				
	Ĭ					
	You may l	have received your activ	ation key fr	om the Administrati	or of the license.	
	Tou muy	1440 10001104 your			of the inconcer.	
		ок	Cancel	1	Help	

#### **Specifying an Activation Key**

If you do not see the license you want in the list, select the **Enter an activation key for a license not listed** option and enter an Activation Key. Specifying an Activation Key enables you to install the products associated with the license, but does not associate the license with your account—that occurs when you activate the license.

## Step 8: Specify the Products to Install

Specify the products you want to install in the Installation Options dialog box, and then click **OK** to continue. Your product selection depends on your network configuration:

- If you are installing only the license manager on a server, select all the other products and click **Remove**. This moves the products to the **Items not to install** list.
- If you are installing the license manager and MathWorks products on the same server, leave all the products in the Items to install list.
- If you are installing the software on a client computer, do not install the license manager. Select the license manager in the list and click **Remove**. This moves the products to the **Items not to install** list.

See the License Administration Guide for more information about network configurations that include the license manager.

X-¤ Installation Op	otions	
Platforms:	Items to install:	Items not to install:
🔲 Linux (x86)	MATLAB	A
☐ Linux (x86_64)	License Manager	
	Remove >	< Add
Total Installation Size: 637370 kbytes		
OK Cancel Help		

The **Platforms** column identifies which product binary files are installed. By default, the check box identifying the platform on which you are running the installer is preselected. If you want to install product binary files for additional platforms, select them in the **Platforms** column.

# Step 9: Specify the Location of Symbolic Links

If you installed MathWorks products as part of your installation, you can specify where you want to put symbolic links to the matlab and mex scripts. Specify a folder such as /usr/local/bin that is common to all your users' paths. If you only installed the license manager, the installer does not display this dialog box.

Click **OK** to continue with the installation.

X-₩ Installation Data		*********
Create symbolic li	nks to MATLAB scripts in:	
ОК	Cancel	Help

### Step 10: Specify the Location of Your License File

Specify the path for the License File and click OK.

The License File you specify depends on whether you are installing the license manager on a server or installing MathWorks software on a client computer in your network configuration. (See the License Administration Guide for information about network configurations.)

**Note** Note that the text displayed on the dialog box changes, depending on whether or not you are installing the license manager.

• If you are installing the license manager, specify the name of the License File you received from The MathWorks.

X-₩ License File Locati	on	• ×	
Provide the location	n of your license file:	_	
/usr/local/license.lic Browse			
Network Server License File Location Please locate the server license file that you downloaded as part of the online activation service at the MathWorks License Center.			
ОК	Cancel	Help	

• If you are *not* installing the license manager, specify the name of the License File on your license server—see "License File Processing on the Server and Client" on page 1-53 for more information.

X-⊨ License File Loca	tion	• ×
Provide the locati	on of your license file:	
/usr/local/matlabR2010a/etc/license.dat Browse		
Network Client License File Generation Please locate the license file for the server for which you are installing this client installation of MATLAB. You may have received this information from the Administrator of the license.		
ОК	Cancel	Help

#### License File Processing on the Server and Client

During a server installation, where you install the license manager, you must specify the location of the License File you received from The MathWorks. The installer performs the following processing of this License File:

• Makes a copy of your License File, naming it license.dat, and puts it in the /etc folder of your MATLAB installation folder.

• Adds SERVER and DAEMON lines to the file. The SERVER line identifies the server (host and port number). The DAEMON line identifies the name of the license manager daemon (matlabroot/etc/lm\_matlab)

During a client installation, where you do not install the license manager, you must specify the location of the License File that the installer processed during installation of the license manager on the server. The installer performs this processing of the License File on client systems:

- Makes a copy of the License File on the server, naming it network.lic, and puts the file in the /licenses folder in your MATLAB client installation folder.
- Deletes all the product information and the DAEMON line in the License File, leaving the SERVER line. Adds the statement USE\_SERVER to the file.

## Step 11: Begin the Installation

The installer displays the Begin Installation dialog box. Click **OK** to begin the installation.

X-∺ Begin Insta	Illation Begin installation?	×
ОК	Cancel	Help

After you click **OK**, the installer displays a dialog box indicating the progress of the installation.

### Step 12: Complete the Installation

After the installation is complete, the installer displays the Installation Complete dialog box. For network installations, you do not need to activate the software as a separate process after installation. The License File you specified during installation was already activated by The MathWorks. Click **Exit** to dismiss the installer.

X-∺ Installation Complete	×
The installation of the selected products was successful.	
,	
ExitHelp	

If you installed the license manager, you must start it. The license manager must be running to start the MATLAB software. See "After You Install" on page 1-56 for more information.

# After You Install

#### In this section...

"Starting the License Manager" on page 1-56 "Starting the MATLAB Program" on page 1-60 "Specifying Print Options" on page 1-60 "Specifying MATLAB Startup Options" on page 1-60 "Updating Your Licenses" on page 1-61

**Note** For more information about setting up network configurations, see the License Administration Guide.

### **Starting the License Manager**

The license manager must be running to start MATLAB software. This section describes how to start the license manager at the command line and automatically at boot time.

- "At the Command Line" on page 1-56
- "At Boot Time" on page 1-57

#### At the Command Line

If the license manager daemons are not running, you can start them by executing the lmstart script (located in the *matlabroot*/etc folder). The lmstart script stops any currently running daemons and starts new ones.

**Note** A user other than root should run the lmstart script because it is a security risk to run any program as root that does not require root permissions. The license manager (lmgrd) does not require root permissions. If you must start the license manager as root, use the su command to start lmgrd as a nonprivileged user:

```
su username -c "lmgrd -c license_file -l /var/tmp/LM_TMW.log"
```

where username is a nonprivileged user.

#### At Boot Time

You can start the license manager automatically at boot time by editing the system boot script. The MathWorks provides the set of Bourne shell commands required to start the license manager on each supported Linux system. These boot script files are in the *matlabroot/etc* folder. Each file has the name flexnet.boot.\$ARCH, where \$ARCH identifies the system architecture.

For example, the following is the contents of the file flexnet.boot.linux, which contains the boot script commands required to start the license manager on Linux systems. When you add these commands to a boot script, you must replace the word *username* that is used as an argument to the /etc/lmboot\_TMW command in the script (highlighted below) with an actual user name (login name). Do not specify the name associated with superuser. For security reasons the license manager daemons cannot be owned by superuser.

```
#!/bin/sh
#
case "$1" in
   start)
        if [ -f /etc/lmboot TMW ]; then
             /etc/lmboot_TMW - u username && echo 'MATLAB_lmgrd'
        fi
        ;;
   stop)
             -f /etc/lmdown_TMW ]; then
        if
           ſ
                 /etc/lmdown TMW > /dev/null 2>&1
        fi
        ;;
   *)
       echo "Usage: $0 {start|stop}"
       exit 1
       ;;
esac
exit 0
```

The following sections describe how to insert these Bourne shell code fragments for all supported platforms:

**Editing the Boot Script on Linux Systems.** To create the boot script on Linux systems, make a copy of the flexnet.boot.linux file and edit the copy as described in the following procedure. You can use the same procedure to create the boot script on both 32-bit and 64-bit Linux systems.

1 Log in as root.

2 Create the following links, if they do not already exist.

ln -s matlabroot/etc/lmboot /etc/lmboot\_TMW
ln -s matlabroot/etc/lmdown /etc/lmdown TMW

**3** Make a copy of the appropriate boot script file.

The following table lists the appropriate commands for supported Linux distributions for both 32-bit and 64-bit systems.

Distribution	Command
Debian or SUSE	<pre>cp matlabroot/etc/flexnet.boot.linux /etc/init.d/flexnet</pre>
Red Hat or Fedora Core	<pre>cp matlabroot/etc/flexnet.boot.linux /etc/rc.d/init.d/flexnet</pre>

- 4 Edit the copy you made of the boot script file, flexnet, replacing the *username* argument to the lmboot\_TMW script in the code with a valid user name, other than root. For security reasons the license manager daemons cannot be owned by superuser.
- 5 Look in /etc/inittab for the default run level.
- 6 Create a link in the rc folder associated with the default run level. The following table lists the appropriate commands for supported Linux distributions for both 32-bit and 64-bit systems, using run level 5 to illustrate.

Distribution	Command
Debian	cd /etc/rc5.d; ln -s/init.d/flexnet S90flexnet
Red Hat or Fedora Core	cd /etc/rc.d/rc5.d; ln -s/init.d/flexnet S90flexnet
SUSE	cd /etc/init.d/rc5.d; ln -s/flexnet S90flexnet

**7** Make sure that the license manager boot scripts start at the very end of the boot sequence. For the license manager to start correctly, the network must already be running. Use whatever mechanism your version of Linux provides to ensure the boot sequence.

For example, on systems running SUSE version 10, you can specify the boot sequence in the .depend.start file in the /etc/init.d folder. To ensure that the license manager is started after networking, append the following to the end of /etc/init.d/.depend.start file:

flexnet: network

On some systems, simply renaming the S90flexnet symlink, created in step 6, to a higher number, such as S99flexnet, will ensure that the license manager starts after networking is running.

## Starting the MATLAB Program

Start the MATLAB program by entering the  $\verb+matlab$  command at the system prompt.

If you did not set up symbolic links during the installation procedure ("Step 9: Specify the Location of Symbolic Links" on page 1-12), you must enter the full pathname, *matlabroot/bin/matlab*, where *matlabroot* is the name of your MATLAB installation folder.

If you have trouble starting the software, see "Problems Starting the MATLAB Program After an Installation" on page 2-7 for some troubleshooting tips.

### **Specifying Print Options**

MATLAB software includes default settings for the various options to the print command. If you want to change the site-wide default settings for printing device type and location, you can edit the M-file printopt.m, located in the folder matlabroot/toolbox/local. This file contains options used by the MATLAB print command.

## **Specifying MATLAB Startup Options**

To specify startup welcome messages, default definitions, or any MATLAB expressions that you want executed each time a user starts MATLAB software, edit the matlabrc.m M-file in matlabroot/toolbox/local. The MATLAB software executes this file automatically each time it starts.

If you do not have write access to matlabrc.m, you can include startup messages, definitions, and MATLAB expressions in a file called startup.m and store this file in the top-level MATLAB installation folder. Use this file to specify the startup behavior of your own MATLAB installation.

## **Updating Your Licenses**

If you purchased one of the individual license options, throughout the term of your license, your MATLAB installation periodically contacts The MathWorks to verify that your license is up-to-date.

If your license is up-to-date, the validation process is transparent. If it determines that you need to update your license, the validation process displays a dialog box giving you the option to update your license. Validation updates expiring licenses and License Files with product configuration changes. (You can also check for License File updates at any time by selecting **Help > Update Current Licenses** from the MATLAB desktop.)

The administrator contact on a license can modify validation settings for the license at the License Center at the MathWorks Web site. See the License Center Help for more information.

# **Deactivating and Removing a MATLAB Installation**

#### In this section...

"Deactivating a License" on page 1-62

"Removing a MATLAB Installation" on page 1-68

### **Deactivating a License**

Deactivating a license renders the MathWorks software unusable on a particular computer. Deactivation can be a useful way to manage usage of the software on multiple computers. For example, if you want to install and activate the software on a new computer, and you've already performed all the activations allowed by your license, you can deactivate one of your existing installations to enable activation on your new computer.

The deactivation process has two parts: the license must be deactivated on your computer and must also be deactivated in MathWorks systems. If you have Internet connectivity, the MathWorks deactivation application can take care of both parts of the process. If you do not have Internet connectivity, the deactivation application disables the software on your computer and gives you a *deactivation string*. To complete the deactivation process, you must visit the MathWorks Web site, log in to your MathWorks Account, and deactivate using the deactivation string. When you deactivate a license, you deactivate all the installations of that license on a particular computer.

**Note** Deactivating a license and removing the software are separate activities. You can deactivate a license without removing the software from your computer. When you remove a MATLAB installation, you remove the deactivation application, so it is best to deactivate before removing your installation. For more information about removing an installation, see "Removing a MATLAB Installation" on page 1-68.

To deactivate a license on your computer, follow this procedure:

1 Start the deactivation application. Navigate to the *matlabroot*/bin folder and run the deactivate\_matlab.sh script, where *matlabroot* represents your MATLAB installation folder.

cd *matlabroot*/bin

./deactivate\_matlab.sh

You can also deactivate a MATLAB installation by selecting Help > Licensing > Deactivate Software on the MATLAB desktop.

2 Select the license that you want to deactivate and click **Deactivate**.

When the deactivation application starts, it displays the licenses you currently have installed and activated on your system. If you start this from within MATLAB, the license that you are using is preselected.

Select the license that you want to deactivate.

-≱-⊨ MathWorks S	oftware Deactivation	
MATLAB®	Deactivate MathWorks Softw	are
SIMULINK® R2010a	This process deactivates <b>all releases</b> of the MathWorks software on this computer for the license you select. Once you do this, you will no longer be able to use any release of MathWorks software with that license on this computer.	
	This process attempts to conta license data.	ct the MathWorks Web site via the Internet to exchange
		Connection Settings
	Select a license to deactivate:	
	License	Option
	™ 565848	Individual – Standalone Named User
	8479113	Individual – Standalone Named User
	1	
→ The MathWorks	S <sup>TM</sup>	Deactivate Close

Click Deactivate.

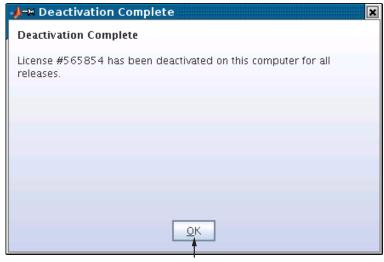
If your Internet connection requires a proxy server, click the **Connection Settings** button and enter the server name and port information. Click **OK** to return to the MathWorks Software Deactivation dialog box.

📣–ዞ Conne	ction Settings			
If your Internet connection requires a proxy server, enter the server name and port information. If your Internet connection does not require a proxy server, or if you are unsure, leave the fields blank.				
Server:	Port:			
User:				
Password:				
	<u>O</u> K <u>C</u> ancel			

3 Confirm the deactivation and click Yes.

剩 🗮 Deactivate Confirmation			
	Are you sure?		
	This process deactivates all releases of license #565854 on this computer. Are you sure you want to continue?		
	<u>Y</u> es N <u>o</u>		

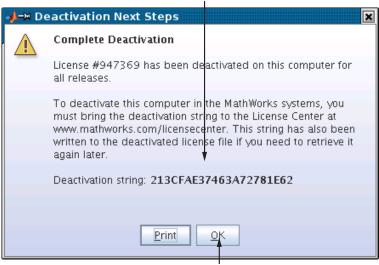
**4** If the deactivation application can deactivate the license on your computer and in MathWorks systems, it displays the Deactivation Complete dialog box. Click **OK** to return to the MathWorks Software Deactivation dialog box, where you can choose to deactivate other licenses.



Click OK.

If the deactivation application can deactivate the license on your computer but not in MathWorks systems, it displays the Deactivation Next Steps dialog box. This dialog box contains the deactivation string. To complete deactivation, you must go to the MathWorks Web site, log in to your account, and deactivate using the deactivation string. See the License Center help for specific instructions. Click **OK** to return to the MathWorks Software Deactivation dialog box.

1



#### Deactivation string.

Click OK.

**5** Select another license to deactivate and click **Deactivate**, and repeat the deactivation procedure. After you deactivate a license, the MathWorks Software Deactivation dialog box displays an additional column listing the status of the license. If you do not want to deactivate another license, click **Close** to exit the deactivation application.

Select another license to deactivate.

```
Status of license.
 H MathWorks Software Deactivation
                                                                                                         • 🗆 🗙
                        Deactivate MathWorks Software
MATLAB<sup>®</sup>
  SIMULINK
                        This process deactivates all releases of the MathWorks software on this computer for the
                        license you select. Once you do this, you will no longer be able to use any release of
          R2010a
                        MathWorks software with that license on this computer.
                        This process attempts to contact the MathWorks Web site via the Internet to exchange
                        license data.
                                                                                          Connection Settings
                        Select a license to deactivate:
                             License
                                                              Option
                                                                                                Status
                        565848
                                           Individual – Standalone Named User
                                                                                        Deactivated
                        8479113
                                          Individual – Standalone Named User
  🍌 The MathWorks™
                                                               Deactivate
                                                                                                    Close
                                                              After selecting license,
                                                                                                Click Close.
```

## click to deactivate.

## **Removing a MATLAB Installation**

**Note** Removing the software and deactivating a license are separate activities. You can deactivate a license without removing the software from your computer. When you remove a MATLAB installation, you remove the deactivation application, so it is best to deactivate before removing your installation. For more information about deactivating software, see "Deactivating a License" on page 1-62.

To remove a MATLAB installation from your computer, enter this command

rm -rf matlabroot

where *matlabroot* represents the name of your top-level MATLAB installation folder. Make sure to exit the MATLAB program and stop the license manager before removing a MATLAB installation. You can use the 1mdown command to stop the license manager. You can find 1mdown, and other license management utilities, in the *matlabroot*/etc folder.

## **System Requirements**

**Note** For the most up-to-date information, view the system requirements page at the MathWorks Web site, www.mathworks.com.

#### Linux

#### 32-Bit and 64-Bit MathWorks Products

Operating System	Processors	Disk Space	RAM
Qualified distributions*:	Any Intel <sup>®</sup> or AMD x86 processor supporting the	1 GB	1024  MB
Debian 5.x	SSE2 instruction set.	(MATLAB only)	(At least 2048 MB recommended)
OpenSuSE 11.x		3-4 GB for a typical installation	
Red Hat Enterprise Linux 5.x			
Ubuntu 8.04, 8.10, 9.04, and 9.10			

\* The listed distributions are those Linux distributions that MathWorks products have been validated against. It is likely that other distributions with kernel version 2.6 or later and glibc version 2.5 or later can successfully run MathWorks products, but The MathWorks will be in a limited position to provide technical support for those distributions.

#### **License Management**

- Some license types require a license server running FLEXnet 11.6.1, which is provided by the MathWorks installer. A license server that is serving multiple releases of MATLAB must use the version of FLEXnet shipped with the latest release of MATLAB being served.
- TCP/IP is required on all platforms when using a license server.

# Troubleshooting

This topic provides information that can help you solve common problems that you might encounter when installing MathWorks software on a UNIX system.

- "Problems During Installation" on page 2-2
- "Problems Starting the MATLAB Program After an Installation" on page 2-7
- "Getting Help with License Manager Error Messages" on page 2-12

If you cannot find a description here that matches your problem, check the Release Notes documentation that you received with your products. Release notes contain the most up-to-date information available about products and installation procedures. To get additional installation troubleshooting information, visit the Support page at the MathWorks Web site and click **Activation and Installation Troubleshooting**.

## **Problems During Installation**

#### In this section ...

"Problems with File Permissions" on page 2-2 "Problems Opening the Display" on page 2-3 "Problems with a Host ID Mismatch" on page 2-3 "Problems with Your DVD Drive" on page 2-3 "Accessing Activation Options" on page 2-4

**Note** If you cannot find an answer to your problem here, go to the Support page at the MathWorks Web site and click **Installation Troubleshooting**. There you can search for solutions and technical notes that might help.

#### **Problems with File Permissions**

The installer must have write access to the installation folder. If the installer cannot write to the installation folder, it displays an error message.

To continue with the installation, dismiss the error message dialog box and use the chmod command at the UNIX prompt to change the permission setting of the installation folder. Your file mode creation mask (also known as your user mask) controls the default permissions assigned to new files and folders. You can use the umask command to change this default.

The suggested file permissions are read, write, and execute permission for the user, and read and execute permission for the group and the world (other), represented in a UNIX folder listing as

drwxr-xr-x

The following example uses chmod to set these permissions on a folder.

chmod 755 matlab

To provide complete access to users, group, and the world, specify the value 777.

## **Problems Opening the Display**

If, after starting OpenWindows or Motif, the installation program outputs the Can't open display error message, enter the following command at the UNIX prompt:

xhost +x

Then restart the installer.

## **Problems with a Host ID Mismatch**

If the host ID in the comment line of your License File does not match the host ID of the system on which you are performing the installation, the installer displays the following error message on your screen:

Host ID in License File Doesn't Match Host ID of System

This typically indicates that you are using the wrong License File for this system. You can continue with the installation, but you will not be able to start the MATLAB program.

## **Problems with Your DVD Drive**

To diagnose a problem with a DVD drive:

- Verify that the device is mounted correctly.
- Verify that the DVD device file has the correct read and execute permissions. For example, on Linux systems, DVD drives have read-only permission by default. To check a device's permissions, use the UNIX command:

ls -l device

where *device* is the device name for your DVD drive. To change permissions, log in as superuser and run the UNIX command:

chmod 555 device

## **Accessing Activation Options**

#### **Specifying Proxy Server Connection Settings**

If your Internet connection requires a proxy server, click the **Advanced Options** button on the first dialog box of the activation application. You can enter the server name, port, and password in the Advanced Options dialog box. The MathWorks supports several types of proxy configurations: Basic authentication, Digest authentication, and NTLM authentication.

📣-🛏 Advanced Opt	ions	
Proxy Settings If your Internet connection requires a proxy server, enter the server name and port information. If your Internet connection does not require a proxy server, or if you are unsure, leave the fields blank.		
Server:		j
Port:		j
User:		]
Password:		j
	tion- t associating to a license. or all license types; requires an Activation Key.)	
	<u>O</u> K <u>C</u> ancel	

#### Activating Without a MathWorks Account

While every user can benefit from having a MathWorks Account, it is possible to install and run MathWorks software without one. For example, at some sites, some users may not be able to create an account for security reasons. To activate without providing MathWorks Account information, follow this procedure.

- 1 Start the installer. On the first dialog box, select the install manually without using the Internet option. You will need a File Installation Key. (See "Installing and Activating Without an Internet Connection" on page 1-27 for complete instructions.)
- 2 When the installer finishes installation and displays the Installation Complete dialog box, leave the Activate MATLAB option selected and click Next.
- **3** On the first dialog box displayed by the activation application:
  - Choose **Activate automatically using the Internet**. To install and activate without associating with a MathWorks Account, you must use the Internet.
  - Click Advanced Options. In the Advanced Options dialog box, select the Activate without associating to a license option and click OK.

-≱-⊨ Advance	d Options			
port inform:	s- net connection requires a proxy server, enter the server name and ation. If your Internet connection does not require a proxy server, or i ure, leave the fields blank.	f		
Server:				
Port:				
User:				
Password:				
Unassociated Activation Activate without associating to a license. (Not available for all license types; requires an Activation Key.)				
	<u>O</u> K <u>C</u> ancel			

• When you return to the first activation dialog box, click **Next**.

**4** Enter an Activation Key in the Activation Key dialog box and click **Next**. Because you are not logged into a MathWorks Account, you must enter an Activation Key to identify a license.

**Note** The only activation type available for unassociated activation is Designated Computer.

5 Click Activate.

# Problems Starting the MATLAB Program After an Installation

After a successful installation, you may encounter problems starting the MATLAB program. Many of these problems involve the license manager used by the MathWorks products.

To resolve this type of problem, follow these suggestions, in the order specified:

- 1 Take note of the error message that is displayed. The error message text can often provide information that can help you resolve the problem. (See "Getting Help with License Manager Error Messages" on page 2-12 to learn how to get information about possible solutions for each error message.)
- 2 Check the license manager log file for error messages and take appropriate corrective action. See "Viewing the License Manager Log File" on page 2-8 for more information. The installer also creates a log file each time it is run. The installer names the file install\_matlab.out and puts the file in your top-level installation folder.
- **3** Make sure that the license manager daemons are running, if your installation requires the license manager. See "Checking the Status of the License Manager Daemons" on page 2-8.
- **4** Verify that your client workstation can connect to the license manager over the network, if your installation requires the license manager. See "Checking the Network Connection" on page 2-9.
- **5** Check the other common startup problems described in "Checking Other Startup Problems" on page 2-10.

If these troubleshooting steps do not resolve the problem you are experiencing, execute the script 1mdebug in the *matlabroot*/etc folder and send its diagnostic results to the MathWorks Technical Support department. If you do not have e-mail access, fax the results to The MathWorks at the number listed below. For fax reports, it is also helpful to include:

- The exact text of the error message (or messages) received
- A copy of your License File

To contact MathWorks Technical Support, use this form: http://www.mathworks.com/contact\_TS.html.

## Viewing the License Manager Log File

The file /var/tmp/lm\_TMW.log contains a log of all license activity. The license manager appends a new entry to the log each time a license transaction occurs. For help interpreting error messages and suggested remedies to common errors, refer to the section "Getting Help with License Manager Error Messages" on page 2-12. The following sections cover these additional log file topics:

- "Specifying the Name of the License Manager Log File" on page 2-8
- "Monitoring the Growth of the License Manager Log File" on page 2-8

#### Specifying the Name of the License Manager Log File

To change the default folder where the log file is stored, specify the -1 option with the lmstart script, as follows:

```
lmstart -1 /home/username/lmlogs/mylogfile.log
```

#### Monitoring the Growth of the License Manager Log File

The license manager log file can grow to be quite large. To conserve disk space, check the size of the log file periodically and delete information from the file to reduce its size. You can also schedule a job (using the UNIX cron command) that regularly compresses or deletes log files older than a specified date (a process called rotating log files).

## **Checking the Status of the License Manager Daemons**

The license manager must be running before you can start the MATLAB program. To determine whether the license manager daemons are operating, run the lmstat command on the license server.

```
cd matlabroot/etc
lmstat -a
```

You can also run the following UNIX command

ps -ef | grep lm

Check the output of these commands to determine if both the license manager daemon ( $lmgrd \text{ or } lm_TMW.ld$ ) and the vendor daemon (MLM) are running.

#### **Starting the License Manager Daemons**

If either the license manager or vendor daemon is not running, restart the daemons by running the lmstart script, located in the *matlabroot*/etc folder.

#### **Removing Duplicate Daemons**

You can only run one MLM daemon. To remove duplicate MLM daemons, log in as superuser, and then execute the following command:

```
kill pid_of_daemon
```

where pid\_of\_daemon is the process ID of the daemon.

## **Checking the Network Connection**

If either the license server daemon or vendor daemon is not running on your local computer, but is running correctly on the license server, the problem is usually caused by network software. The network software is either not running correctly or is not configured correctly. Verify that your client workstation can connect to the license manager daemons by executing the following commands on your client workstation (not the server).

```
cd matlabroot/etc
lmstat -a
```

To learn how to get help with a particular error message, see "Getting Help with License Manager Error Messages" on page 2-12. In addition, you may need to contact your system administrator or system vendor to resolve the problem.

## **Checking Other Startup Problems**

- "Changes to License File Unread by License Manager" on page 2-10
- "Can't Find License File" on page 2-10
- "The MATLAB Program Is Slow Starting" on page 2-10
- "License Key Unusable on Crashed Node" on page 2-11

#### Changes to License File Unread by License Manager

If you change the License File, you must restart the license manager using matlabroot/etc/lmstart.

The Imstart script calls the Imdown script to shut down the license manager daemon. Sometimes the Imdown script does not succeed at its task. An effective way to shut down the license manager daemons is to use the UNIX ps command to check for running processes, and then terminate them manually using the UNIX kill command. See "Checking the Status of the License Manager Daemons" on page 2-8 for more information.

#### **Can't Find License File**

The MATLAB program will fail at startup if it cannot find the License File. The installer looks for the License File in the *matlabroot*/etc folder or at the location specified in the environment variable LM\_LICENSE\_FILE or MLM\_LICENSE\_FILE.

#### The MATLAB Program Is Slow Starting

The MATLAB program can take several minutes to start up if one of the entries in the LM\_LICENSE\_FILE environment variable on your system is set to a nonexistent license server or a license server that does not have a license manager running on it.

To work around this issue, try any of the following:

- Remove the faulty entries from the value of the LM\_LICENSE\_FILE variable.
- Add the location of your License File at the beginning of the list of paths in the LM\_LICENSE\_FILE environment variable.

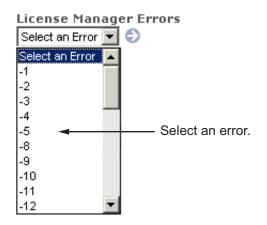
- Clear the LM\_LICENSE\_FILE variable. Note, however, that this option could impact other applications running on your system. MATLAB software does not require this variable, but other applications that use FLEXnet licensing often set it.
- Remove the LM\_LICENSE\_FILE variable and use the vendor-specific version environment variable for the MathWorks vendor daemon, MLM\_LICENSE\_FILE, and for other vendor daemons used at your site. The MATLAB vendor-specific environment variable only affects products from The MathWorks.
- Specify the name of the License File when starting MATLAB software by using the -c option to the matlab command. MATLAB software ignores the LM\_LICENSE\_FILE variable when this option is specified.

#### License Key Unusable on Crashed Node

When the node on which the MATLAB program is running crashes, the license manager should release the license key after about 2 hours. If the key is not released, use *matlabroot/etc/lmremove* to release it manually. The *lmremove* script allows you to remove a single user's license for a specified feature and return the license to the pool of available licenses without having to restart the license manager.

## **Getting Help with License Manager Error Messages**

When a problem occurs, the license manager displays an error message in a window on your display and also writes the message to the **FLEX**NET licensing log file, /var/tmp/lm\_TMW.log. Read the error message carefully; it provides information that can help solve the problem. For more complete diagnostic information about an error message, visit the Support page at the MathWorks Web site (www.mathworks.com) and click **Installation Troubleshooting**. On this page, you can search the support database for solutions by license manager error number or you can select the error number from the **License Manager Errors** list.



You can also get information about license manager error messages in the *FLEXnet Licensing End User Manual*, available in PDF format in *matlabroot/etc/enduser.pdf* or at the Acresso Corporation Web site, www.acresso.com.

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