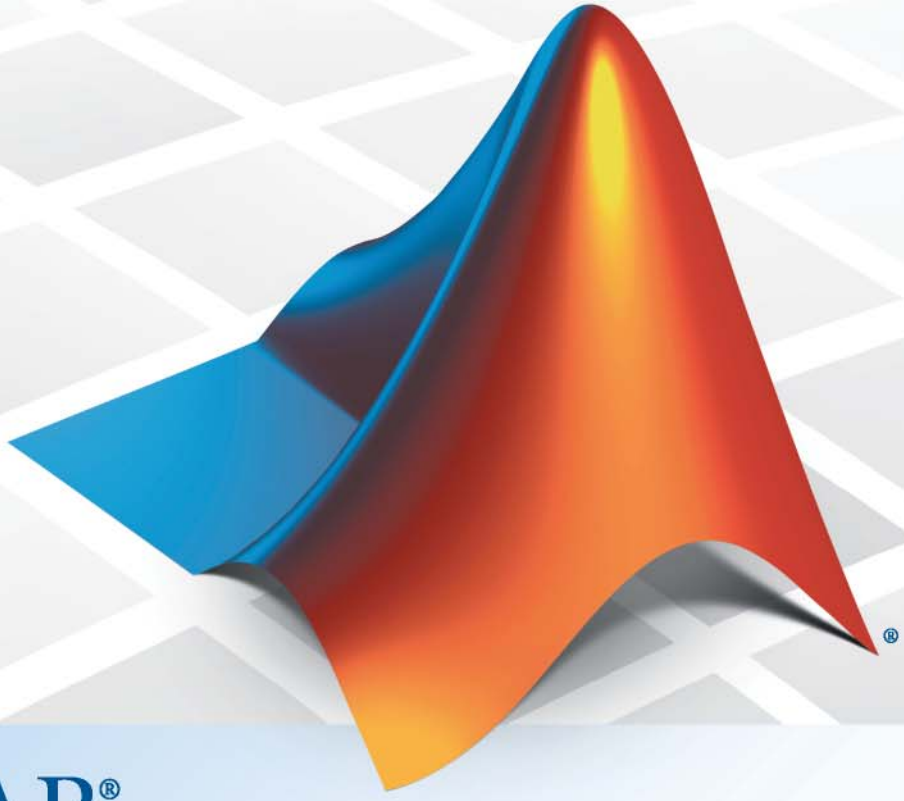
MATLAB® & Simulink® Release 2010b
Installation Guide



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Installation Guide

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Revision History

December 1996	First printing	New for MATLAB 5.0 (Release 8)
May 1997	Second printing	Revised for MATLAB 5.1 (Release 9)
March 1998	Third printing	Revised for MATLAB 5.2 (Release 10)
January 1999	Fourth printing	Revised for MATLAB 5.3 (Release 11)
November 1999	Fifth printing	Revised for MATLAB 5.3.1 (Release 11.1)
November 2000	Sixth printing	Revised for MATLAB 6.0 (Release 12)
June 2001	Seventh printing	Revised for MATLAB 6.1 (Release 12.1)
July 2002	Eighth printing	Revised for MATLAB 6.5 (Release 13) Renamed as *Installation Guide for Windows*
June 2004	Ninth printing	Revised for MATLAB 7.0 (Release 14)
October 2004	Tenth printing	Revised for MATLAB 7.0.1 (Release 14SP1)
March 2005	Eleventh printing	Revised for MATLAB 7.0.4 (Release 14SP2)
September 2005	Twelfth printing	Revised for MATLAB 7.1 (Release 14SP3)
March 2006	Thirteenth printing	Revised for MATLAB 7.2 (Release 2006a)
September 2006	Fourteenth printing	Revised for MATLAB 7.3 (Release 2006b)
March 2007	Online only	Revised for MATLAB 7.4 (Release 2007a)
September 2007	Online only	Revised for MATLAB 7.5 (Release 2007b)
March 2008	Online only	Revised for MATLAB 7.6 (Release 2008a)
October 2008	Online only	Revised for MATLAB 7.7 (Release 2008b)
March 2009	Online only	Revised for MATLAB 7.8 (Release 2009a)
September 2009	Online only	Revised for MATLAB 7.9 (Release 2009b)
March 2010	Online only	Revised for MATLAB 7.10 (Release 2010a)
September 2010	Online only	Revised for MATLAB 7.11 (Release 2010b) Renamed as *Installation Guide*

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1

Standard Installation and Activation Procedures

This topic describes how to install and activate MathWorks® products on a computer running any of the following operating systems:

- Microsoft® Windows® operating system (32-bit or 64-bit)
- Linux® operating system (32-bit or 64-bit)
- Mac OS® X operating system

Use this procedure if you have an Individual license or Group license. For information about setting up the network license options, see Installing Network License Options.

- "Installing MathWorks Software in a Standalone Environment" on page 1-2
- "Activating an Installation" on page 1-24
- "Installing and Activating Without an Internet Connection" on page 1-37
- "After You Install" on page 1-58
- "Removing (Uninstalling) MathWorks Products" on page 1-61
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Installing MathWorks Software in a Standalone Environment

In this section...

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Before You Install

Before you run the installer:

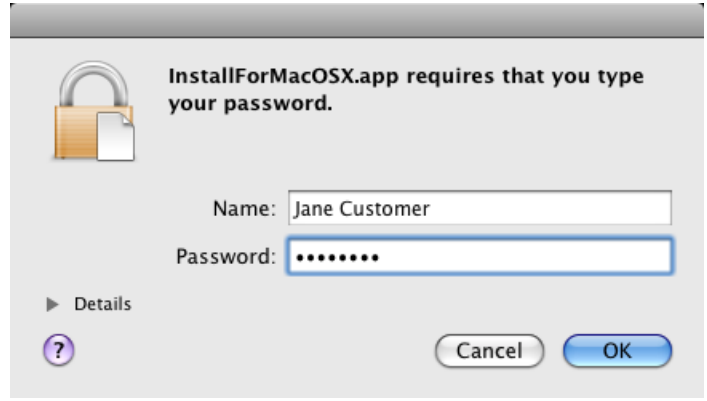
- Make sure you have your e-mail address and your MathWorks Account password handy. You will need them to log in to your account during installation. If you have multiple licenses associated with your account, know the number of the license you want to install.

  If you don't have a MathWorks Account, you can create one during installation. However, 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.

- Make sure you have the correct permissions to perform the installation. If you have questions about this, ask your system administrator.

Note While you use an administrator account or root privileges to install the software, you typically do not want to activate the software for a privileged user. Specify the non-privileged end user who will use the software when you activate it. Running MATLAB as a user with administrator privileges or root privileges is not recommended.

  - **Windows Systems** — Get the name and password of the administrator account on your computer. The installer modifies the system registry during installation.
  - **Linux Systems** — Get the root password. You can install MATLAB® software without superuser privileges, however, it limits certain installation options. For example, if you want to setup symbolic links to the `matlab` command, install product files in a protected folder, or edit the system boot script, you must have superuser status.
  - **Macintosh Systems** — Get the name and password of the administrator account on your computer. The administrator account is the user account you set up when you configured your Macintosh® system; this is not your MathWorks Account. During installation, you must enter this name and password in the Authenticate dialog box, shown below.



- Consider disabling virus-checking software and Internet security applications on your system for the duration of the installation process. These applications can slow down the installation process or cause it to appear unresponsive (or to hang).

If you do not have an Internet connection during installation, see "Installing and Activating Without an Internet Connection" on page 1-37. If you need to perform a network server or client installation, see Chapter 2, "Installing Network License Options".

If You Are Upgrading an Existing Installation

If you are upgrading your MATLAB installation to the latest release, MathWorks recommends that you install the new version in a new installation folder. This is recommended when upgrading an installation of a prerelease version of the software as well. You do not need to delete an existing MATLAB installation before installing this release. Each release is independent of previous releases and you can run multiple releases on the same system.

Note If you choose to overwrite an existing installation from a prior release, the installer deletes all the products in your installation folder and installs only those products included in your current license. This avoids potential product incompatibilities. For example, if your existing installation includes 10 products, but your current license only includes 9 of those products, your MATLAB installation only includes the 9 products in your current license.

Step 1: Start the Installer

The method you use to start the installer, depends on your platform.

- **Windows Systems** — Insert the DVD into the DVD drive connected to your system or double-click the installer file you downloaded from the MathWorks Web site. The installer should start automatically.
- **Linux Systems** — Insert the DVD into the DVD drive connected to your system and execute the following command:

```
/path_to_dvd/install &
```

If you are installing from downloaded files, extract the installer from the archive file and execute the installer command:

```
./install
```

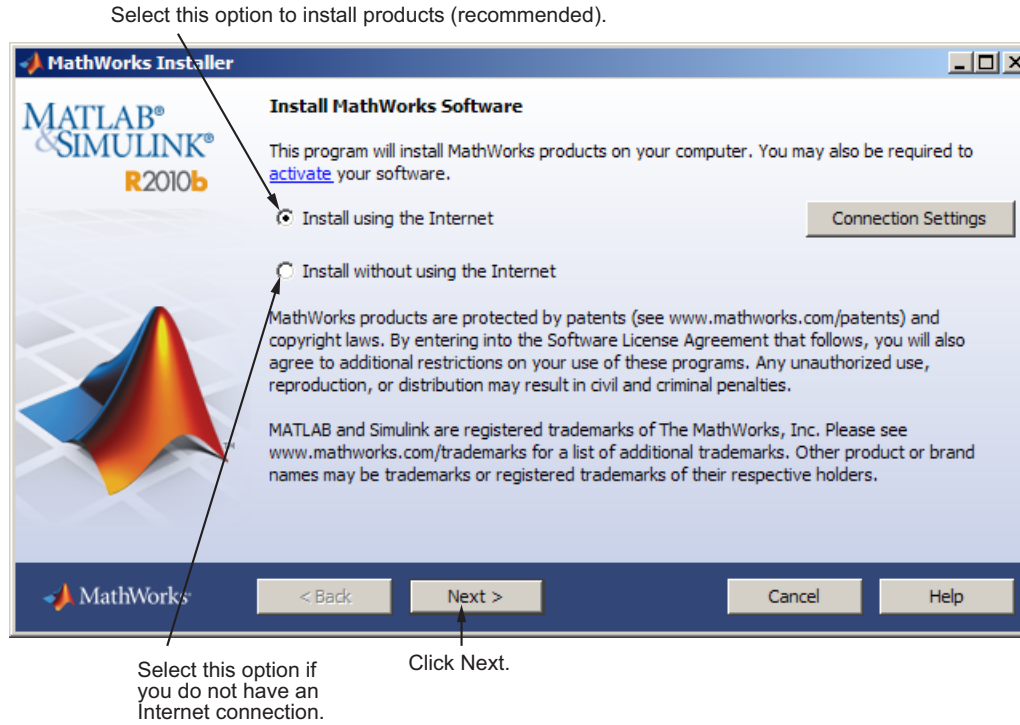
- **Macintosh Systems** — Insert the MathWorks DVD into the DVD drive connected to your system or download product files from the MathWorks Web site. When the DVD icon appears on the desktop, double-click the icon to display the DVD contents, and then double-click the `InstallForMacOSX` icon to begin the installation.

InstallForMacOSX

Step 2: Choose Whether to Install Using the Internet

Choose whether you want to install using an Internet connection or without using an Internet connection. If you are connected to the Internet, leave the **Install using the Internet** option selected (the default) and click **Next**. During installation, you log in to your MathWorks Account, select the license you want to install, and follow the prompts on the other installer dialog boxes. This is the easiest way to install.

If you are not connected to the Internet connection during installation, choose the **Install without using the Internet** option and click **Next**.


Select this option to install products (recommended).
MathWorks Installer
MATLAB®
&SIMULINK®
R2010b
Install MathWorks Software
This program will install MathWorks products on your computer. You may also be required to activate your software.
Install using the Internet
Connection Settings
Install without using the Internet
MathWorks products are protected by patents (see www.mathworks.com/patents) and copyright laws. By entering into the Software License Agreement that follows, 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.
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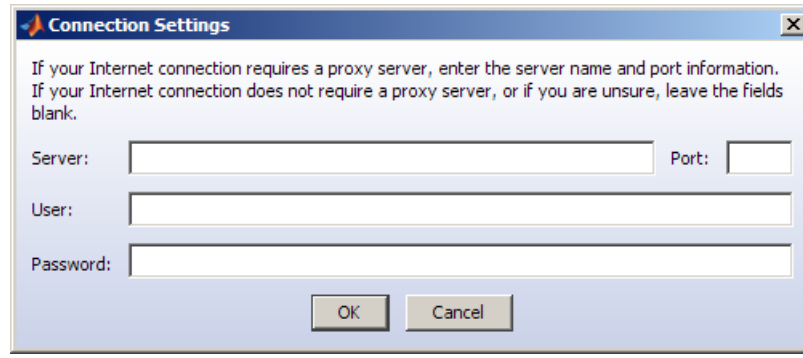
MathWorks
< Back
Next >
Cancel
Help
Select this option if you do not have an Internet connection.
Click Next.

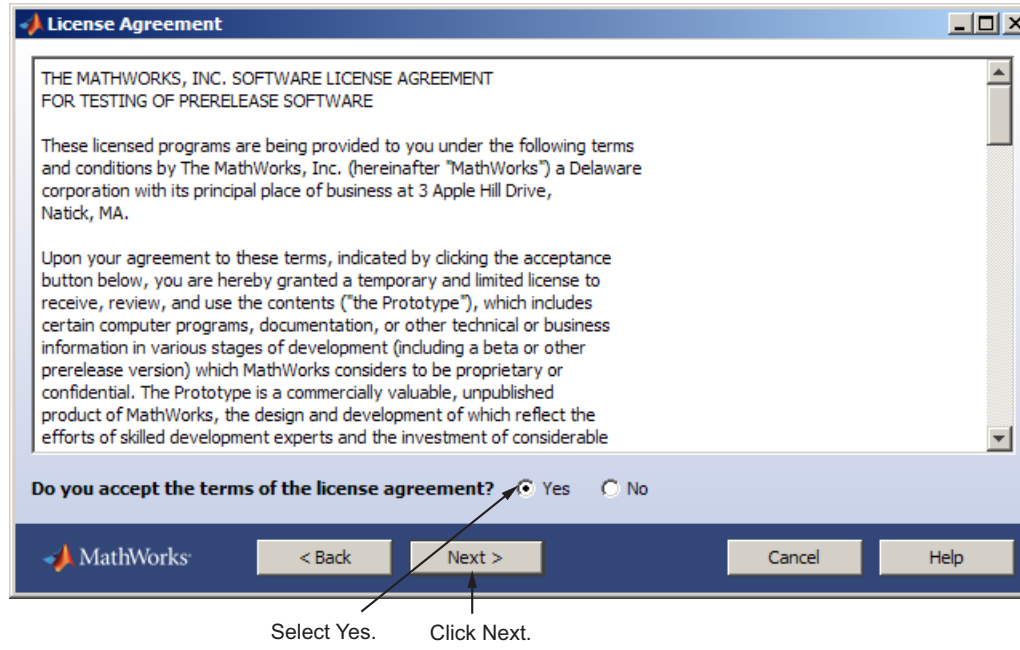
If your Internet connection requires a proxy server, click the **Connection Settings** button. You can enter the server name, port, and password in the Connection Settings dialog box. MathWorks supports several types of proxy configurations: Basic authentication and Digest authentication.



Step 3: Review the Software License Agreement

Review the software license agreement and, if you agree with the terms, select **Yes** and click **Next**.

After the installation is complete, you can view or print the license agreement using the file `license.txt` located in the top-level installation folder.

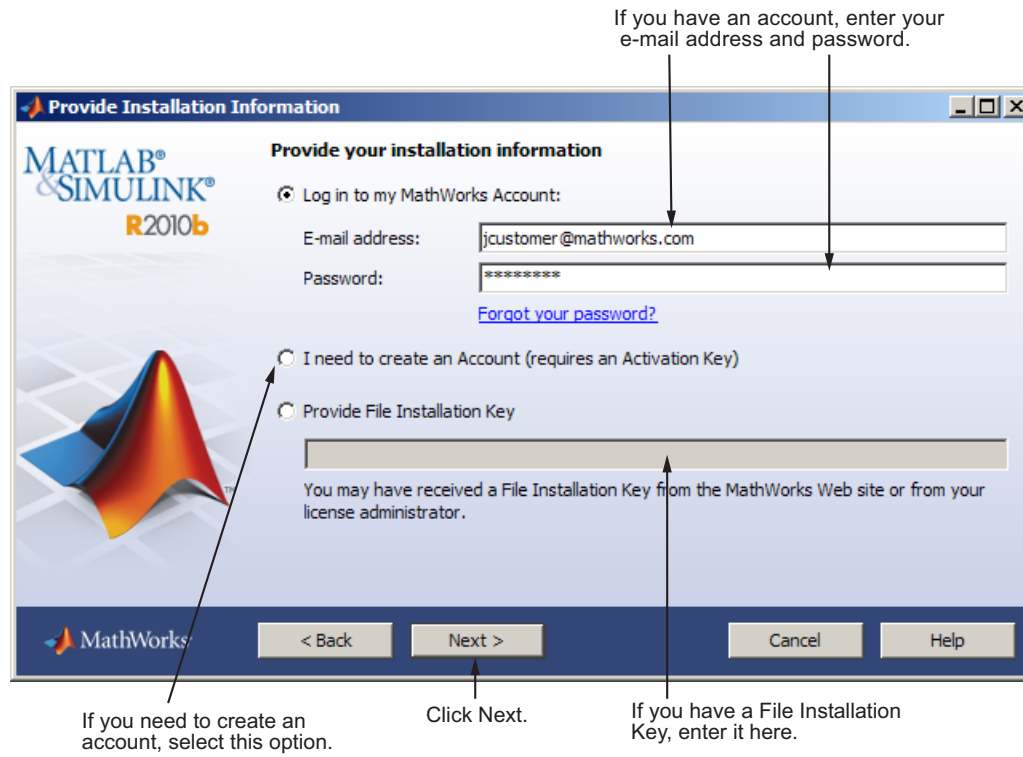


Step 4: Log In to Your MathWorks Account

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

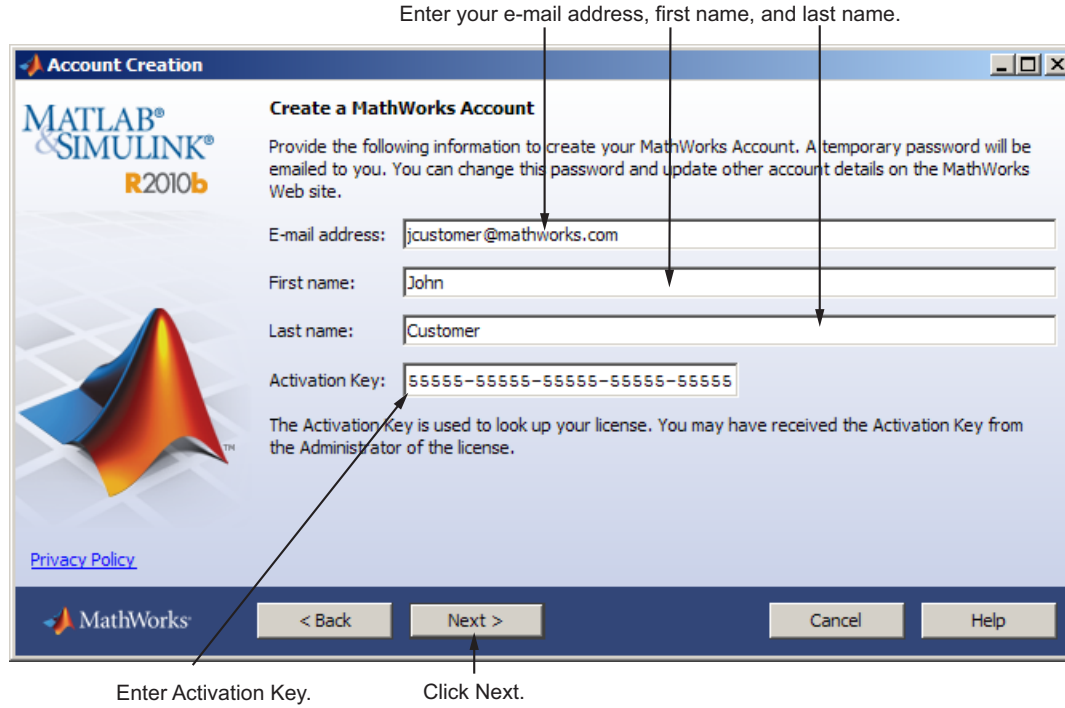
If you do not have a MathWorks Account, select the **I need to create a MathWorks Account** option and click **Next**. You can enter the data needed to create one.

If you have a File Installation Key, select the **Provide File Installation Key** option and enter your key. A *File Installation Key* identifies the products you can install. The administrator on a license can retrieve the File Installation Key from the License Center at the MathWorks Web site. If you specify a File Installation Key, the installer skips the license selection step.



Creating a MathWorks Account

To create an account, enter your e-mail address, first name, last name, and Activation Key. You must provide an Activation Key because a newly created account will not have any licenses associated with it. 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 **Next** to create your account.

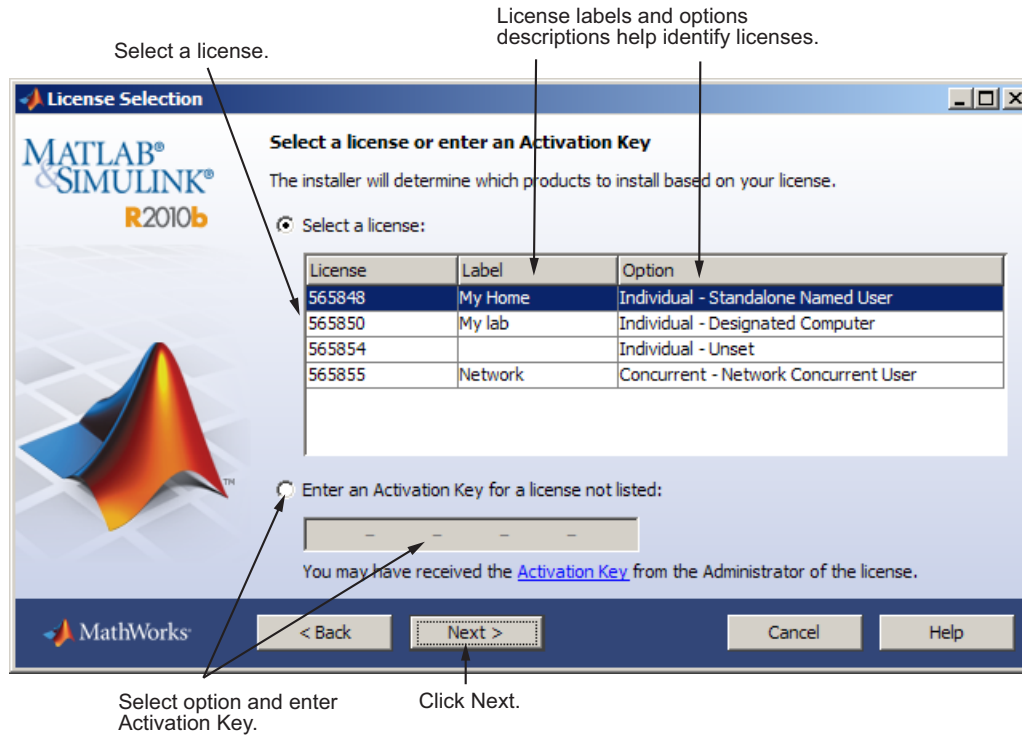


Step 5: Select the License You Want to Install

Select a license from the list of licenses associated with your MathWorks Account and click **Next**. The list contains the following information about the licenses:

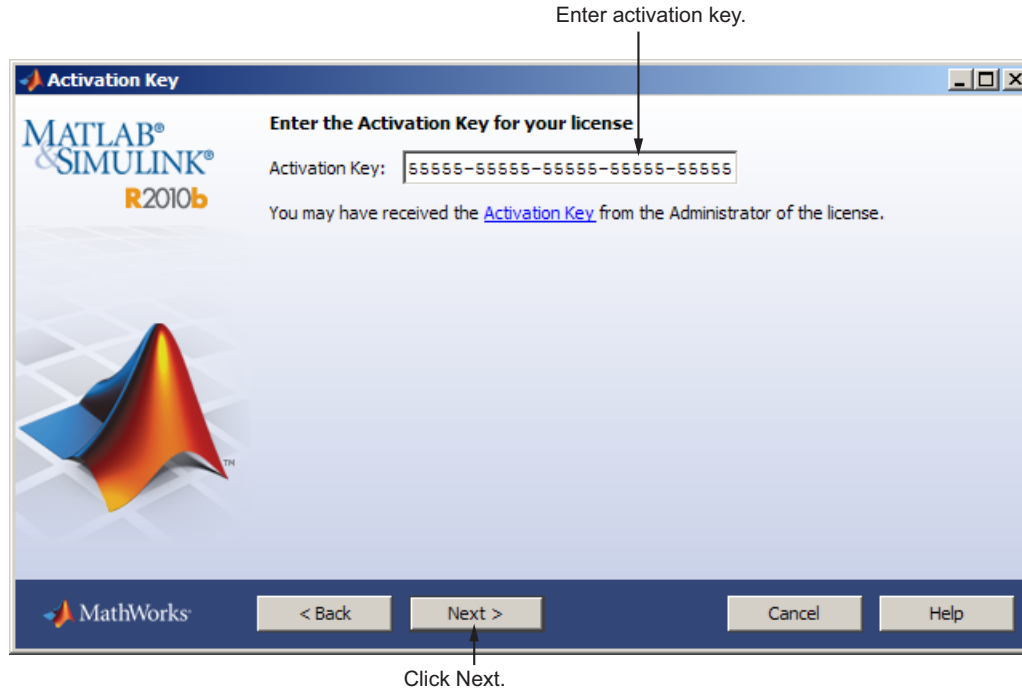
- License number.
- An optional descriptive text label that can help identify the license. To label a license, go to the License Center at the MathWorks Web site. See the License Center Help for instructions.
- Information identifying the license option and the activation type. If an activation type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

If you want to install products on a license that is not associated with your MathWorks Account, select the **Enter an Activation Key for a license not listed** option, enter an Activation Key, and click **Next**. An *Activation Key* is the unique code that identifies a license. It can be used to activate a license and also allows licensed end users to associate their MathWorks Account with a license. Ask the administrator of the license for the Activation Key.



Specify an Activation Key

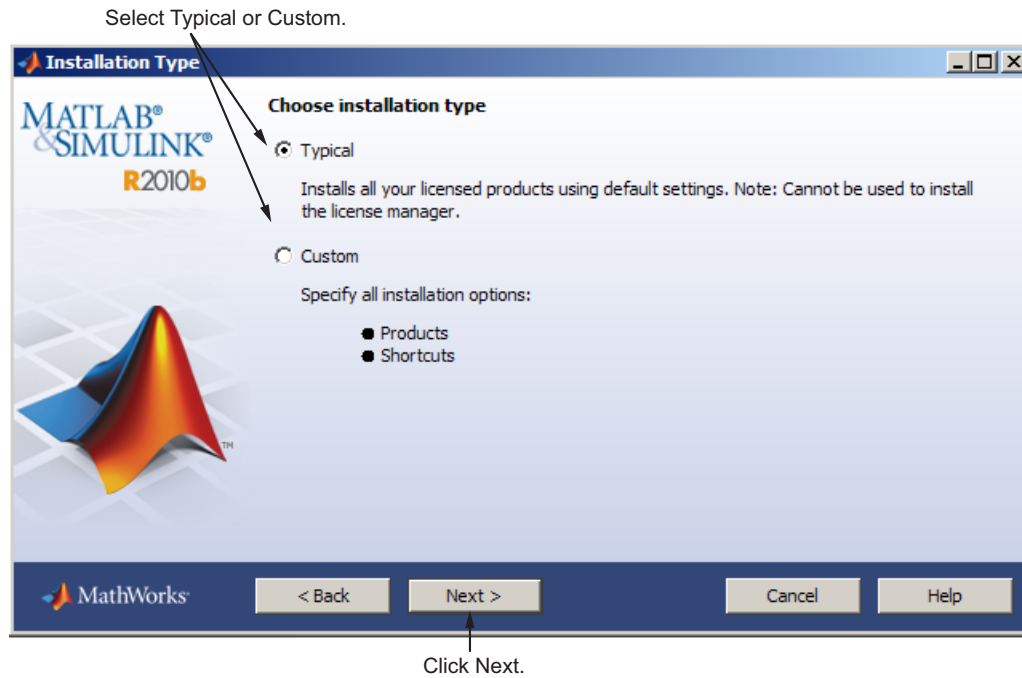
If there are no licenses associated with your account, or if permission to activate is disabled on the license you selected, you might see the Activation Key dialog box. Enter an Activation Key and click **Next**. Ask the administrator contact on the license for the Activation Key.


Enter activation key.
Activation Key
MATLAB®
&SIMULINK®
R2010b
Enter the Activation Key for your license
Activation Key:
55555-55555-55555-55555-55555
You may have received the Activation Key from the Administrator of the license.
MathWorks
< Back
Next >
Cancel
Help
Click Next.

Step 6: Choose the Installation Type

In the Installation Type dialog box, specify whether you want to perform a Typical or Custom installation and click **Next**.

- Choose **Typical** if you have an Individual or Group license and do not need to specify which products you want to install and do not need to access any installation options.
- Choose **Custom** if you need to specify which products to install, need access to installation options, or need to install the license manager (network license options only).



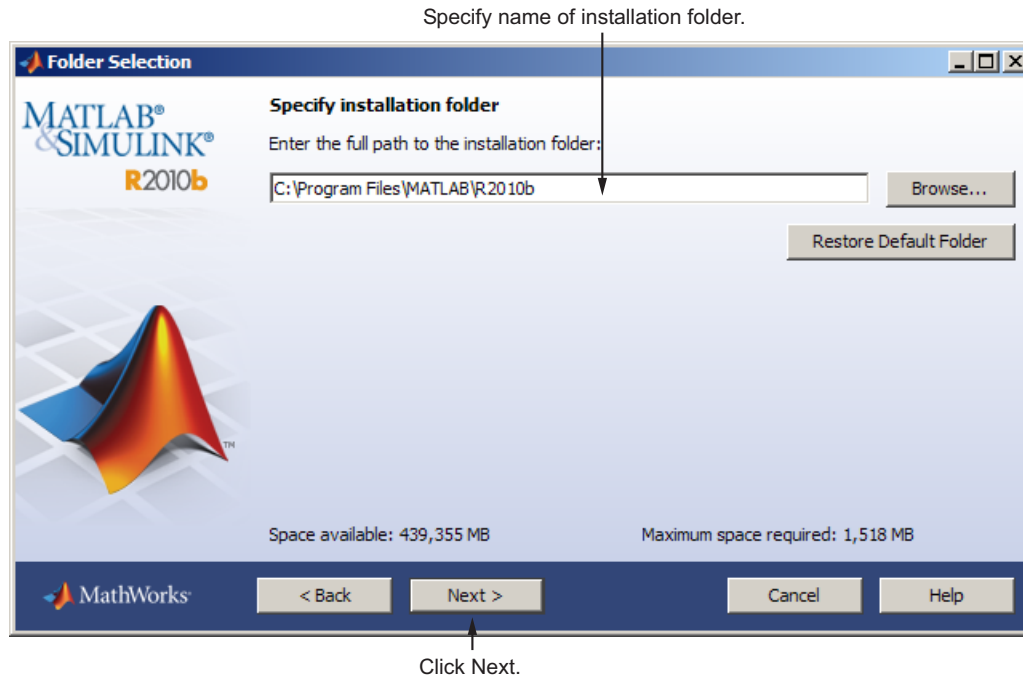
If you choose a Typical installation, the installer skips the product selection and installation options steps.

Step 7: Specify the Installation Folder

Specify the name of the folder where you want to install MathWorks products. Accept the default installation folder or click **Browse** to select a different one. If the folder doesn't exist, the installer creates it.

On Macintosh systems, the installer puts the MATLAB application package, `MATLAB_R2010b.app`, in the `Applications` folder, by default.

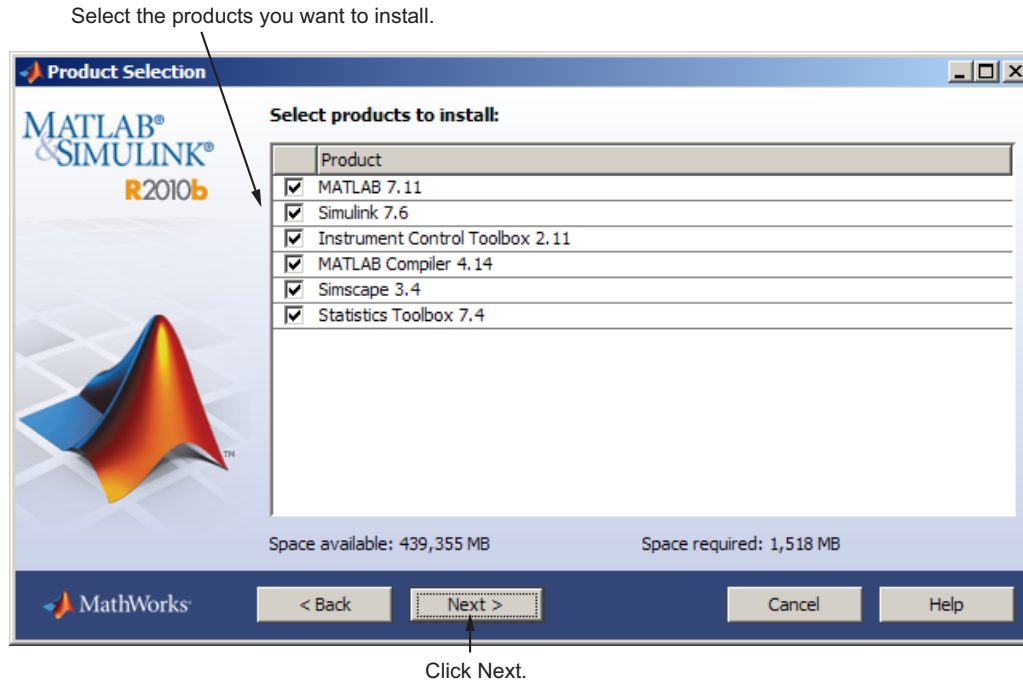
When specifying a folder name, you can use any alphanumeric character and some special characters, such as underscores. The installer will tell you if the name you specified includes any characters that are not permitted in file names. If you make a mistake while entering a folder name and want to start over, click **Restore Default Folder**. After making your selection, click **Next**.



Step 8: Specify Products to Install (Custom Only)

If you are performing a custom installation, you can specify which products you want to install in the Product Selection dialog box. This dialog box lists all the products associated with the license you selected, or with the Activation Key or File Installation Key you specified. In the dialog box, all the products are preselected for installation. If you do not want to install a particular product, clear the check box next to its name.

After selecting the products you want to install, click **Next** to continue with the installation. The installer checks if any of the products you selected depend on other products. If there are product dependencies that are not satisfied, the installer issues a warning. Consider adjusting your product selection.

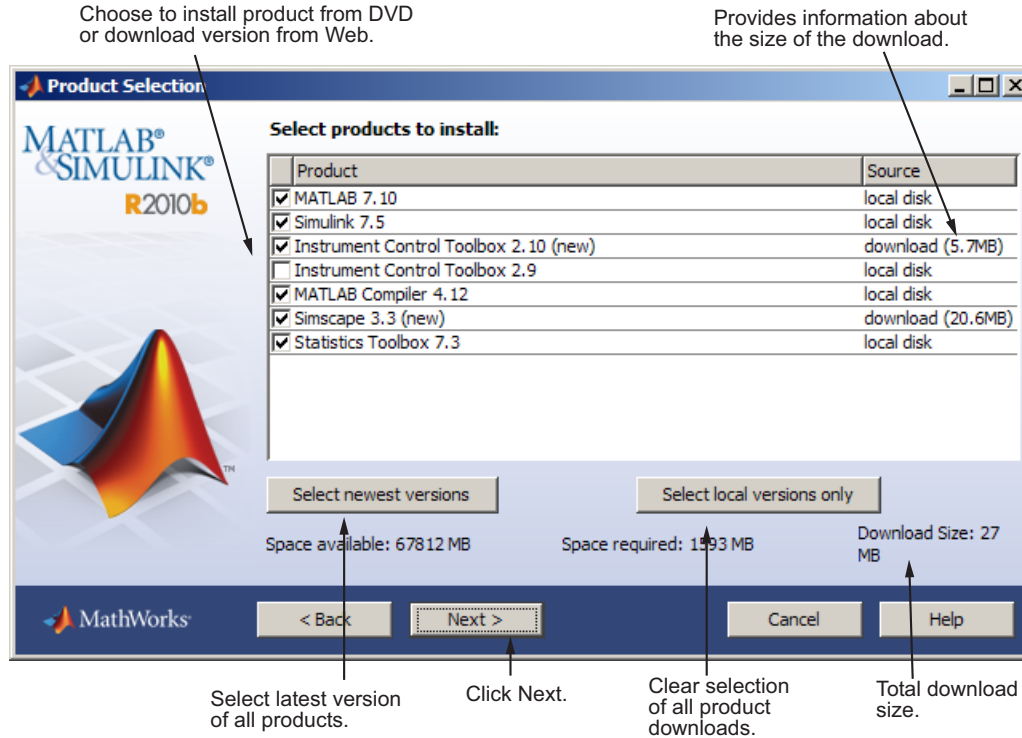


If you asked the installer to determine if newer versions of your products are available at the MathWorks Web site, the installer displays both the newer version and the version available on the product DVD in the product list. By

default, the latest version is preselected for installation. When there are product updates available, the Product Selection dialog box includes a column, called **Source**, that identifies whether the product will be installed from the DVD or must be downloaded. For product downloads, the **Source** column includes information about the size of the download file. The dialog box also includes information about the total download size for all the products you select.

If you do not want to download any product updates, click **Select local versions only**. This clears the selection of all the product downloads in the product list. If you want to install only the latest versions of all products, click **Select newest versions**.

After selecting the products you want to install, click **Next** to continue with the installation.



Step 9: Specify Installation Options (Custom Only)

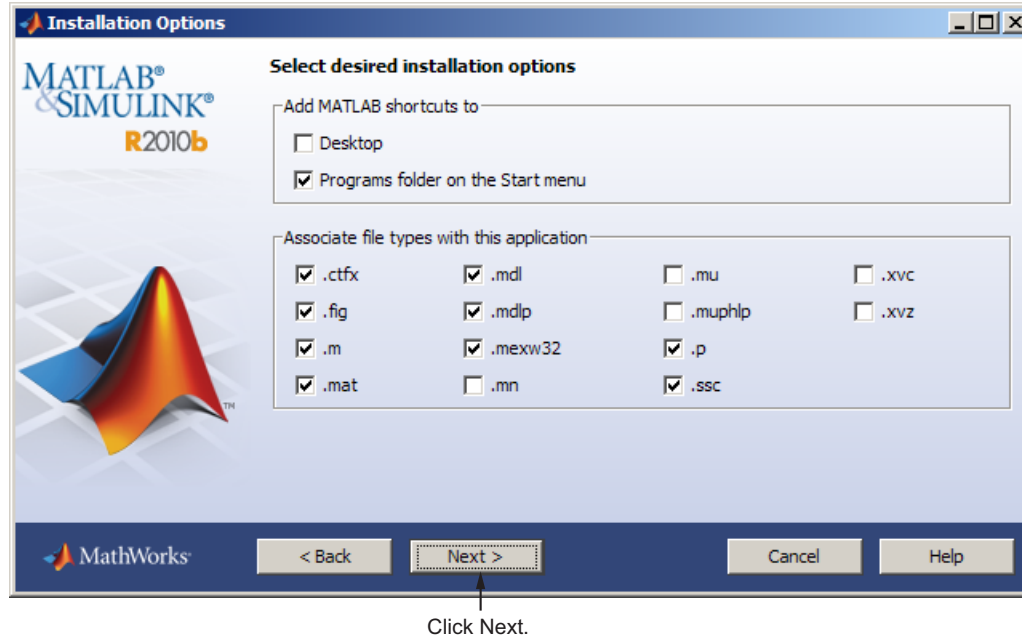
For Custom installations, you can specify several installation options, depending on which platform you are installing.

On Windows Systems

On Windows system, the Installation Options dialog box presents the following options:

- Determining whether the installer puts shortcuts for MATLAB software in the **Start** menu and on the desktop.
- Specifying which files the operating system associates with MATLAB, based on their file extension. The installer preselects the extensions associated with products you are installing.

After selecting installation options, click **Next** to proceed with the installation.



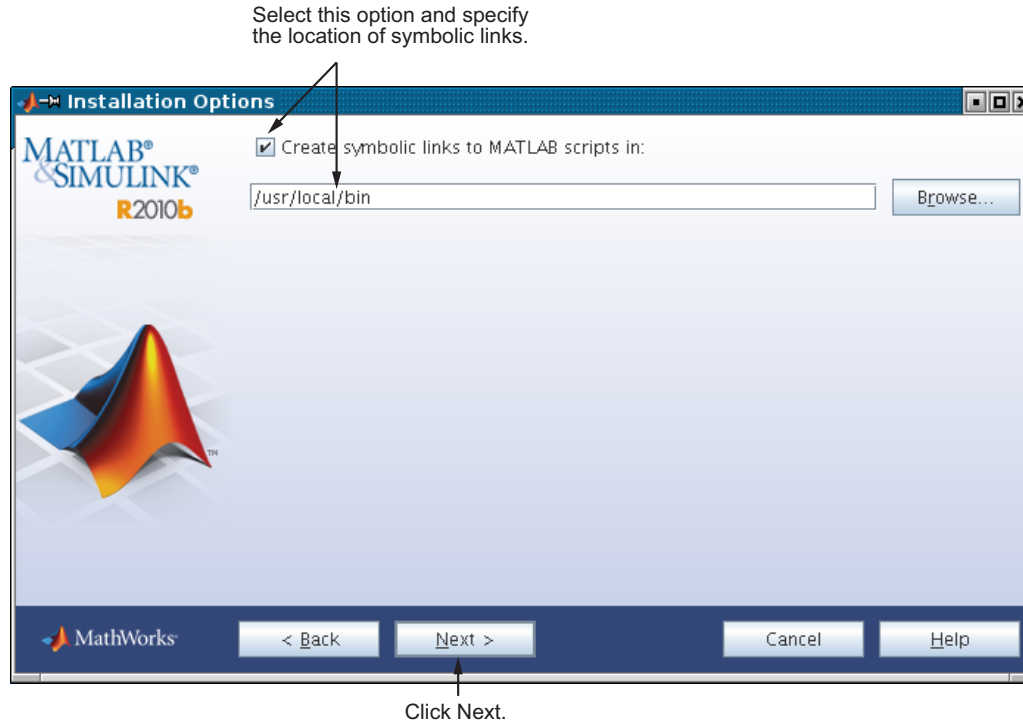
The following table provides brief descriptions of these file extensions.

File Extension	Description
`.ctfx`	MATLAB Compiled Application
`.fig`	MATLAB Figure
`.m`	MATLAB Code
`.mat`	MATLAB Data
`.mdl`	Simulink Model
`.mdlp`	Simulink Protected Model
`.mex*`	MATLAB MEX. This extension is platform specific: `.mexw32` or `.mexw64`
`.mn`	MuPAD Notebook
`.mu`	MuPAD Code
`.muphlp`	MuPAD Help
`.p`	MATLAB P-code
`.ssc`	Simscape Model
`.xvc`	MuPAD Graphics
`.xvz`	MuPAD Graphics

On Linux Systems

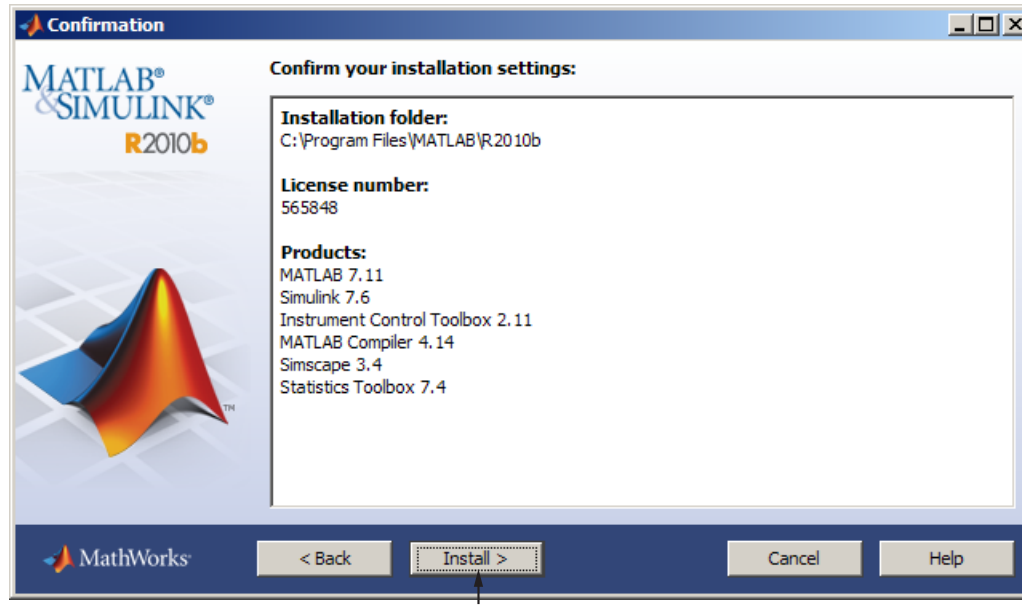
On Linux systems, you can specify whether you want to create symbolic links to the `matlab` and `mex` scripts. Specify a folder to which you have write access and that is common to all your user's paths, such as `/usr/local/bin` .

After selecting installation options, click **Next** to proceed with the installation.


Select this option and specify
the location of symbolic links.
Installation Options
MATLAB®
&SIMULINK®
R2010b
Create symbolic links to MATLAB scripts in:
/usr/local/bin
Browse...
MathWorks
< Back
Next >
Cancel
Help
Click Next.

Step 10: Confirm Your Choices

Before it begins copying files to your hard disk, the installer displays a summary of your installation choices. To change a setting, click **Back**. To proceed with the installation, click **Install**.



Click Install.

As it copies files to your hard drive, the installer displays a status dialog box to show the progress of the installation.

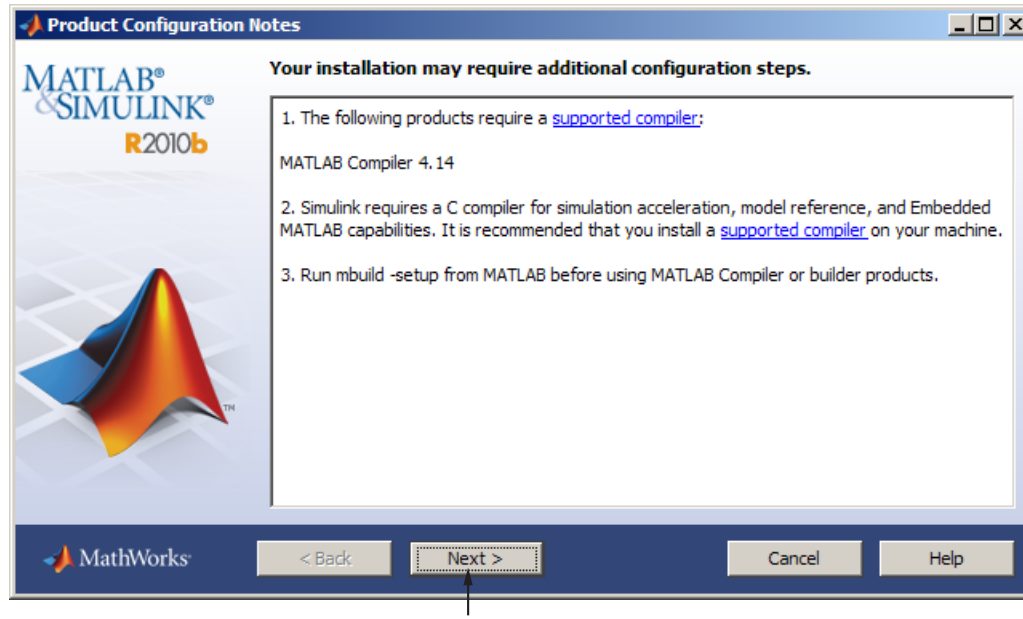
Read Product Configuration Notes

Depending upon which products you install, the installer might display a dialog box containing several types of information:

- **Product configuration information** — Certain products require additional configuration. If you installed one of these products, the installer lists the configuration commands in this dialog box. You can copy these command to your system clipboard for use after the installation is completed.

- **Available product updates** — If your license identifies products that are not on the DVD, and you are not currently connected to the Internet or you chose not to download product updates, the installer lists these products in this dialog box. After installation is complete, you can go to the MathWorks Web site to download these products.

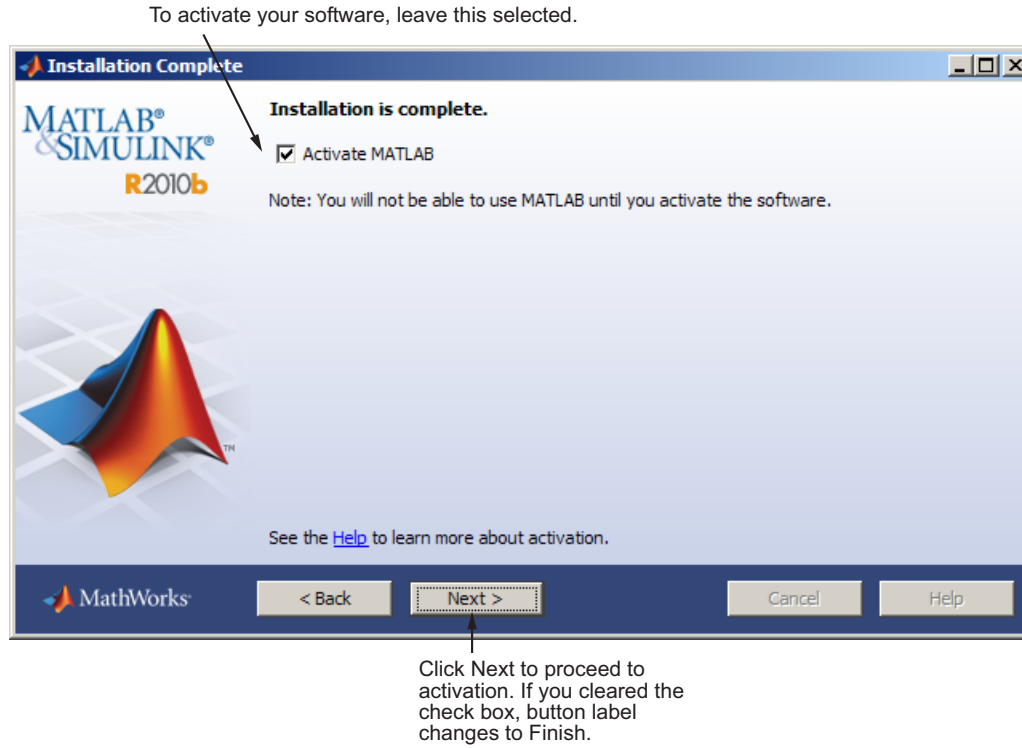
Click **Next** to proceed with the installation.



Step 11: Complete the Installation

When the installation successfully completes, the installer displays the Installation Complete dialog box. In this dialog box, you can choose to activate the software you just installed. You cannot use the software you installed until you activate it. MathWorks recommends activating immediately after installation. If you logged in to your MathWorks Account during installation, your log-in session continues into the activation process. Click **Next** to proceed with activation.

If you choose to exit the installer without performing activation, clear the **Activate MATLAB** option and click **Finish** (the button label changes). You can activate later using the activation application.



Related Topics

For step-by-step instructions on the activation process, see “Activating an Installation” on page 1-24.

Activating an Installation

In this section...

"Step 1: Start the Activation Application" on page 1-24

"Step 2: Choose Whether to Activate Automatically or Manually" on page 1-25

"Step 3: Log In to Your MathWorks Account" on page 1-28

"Step 4: Select the License You Want to Activate" on page 1-30

"Step 5: Select an Activation Type" on page 1-32

"Step 6: Specify the User Name" on page 1-33

"Step 7: Confirm Your Activation Information" on page 1-35

"Step 8: Complete the Activation" on page 1-35

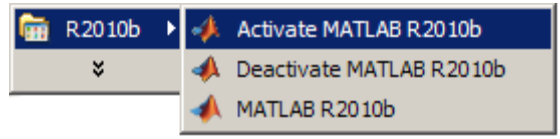
Step 1: Start the Activation Application

To start the activation application, use any of the following methods:

- Leave the **Activate MATLAB** option selected on the Installation Complete dialog box at the end of installation.
- Attempt to start a MATLAB installation that has not been activated.
- If you have MATLAB running, click the **Help** menu and select **Licensing > Activate Software**.
- Navigate to your MATLAB installation folder and launch the activation application.

  Windows Systems — Double-click the `activate_matlab.exe` file in *`matlabroot`*`/bin/$ARCH` folder, where *`matlabroot`* is your MATLAB installation folder, and `$ARCH` is a platform-specific sub-folder, for example: `matlabroot\bin\win32`

  Linux and Macintosh Systems — Execute the `activate_matlab.sh` script in *`matlabroot`*`/bin` folder.
- **Windows Systems** — Click the **Start** menu, then select **Programs > MATLAB > R2010b**, and click **Activate MATLAB R2010b**.

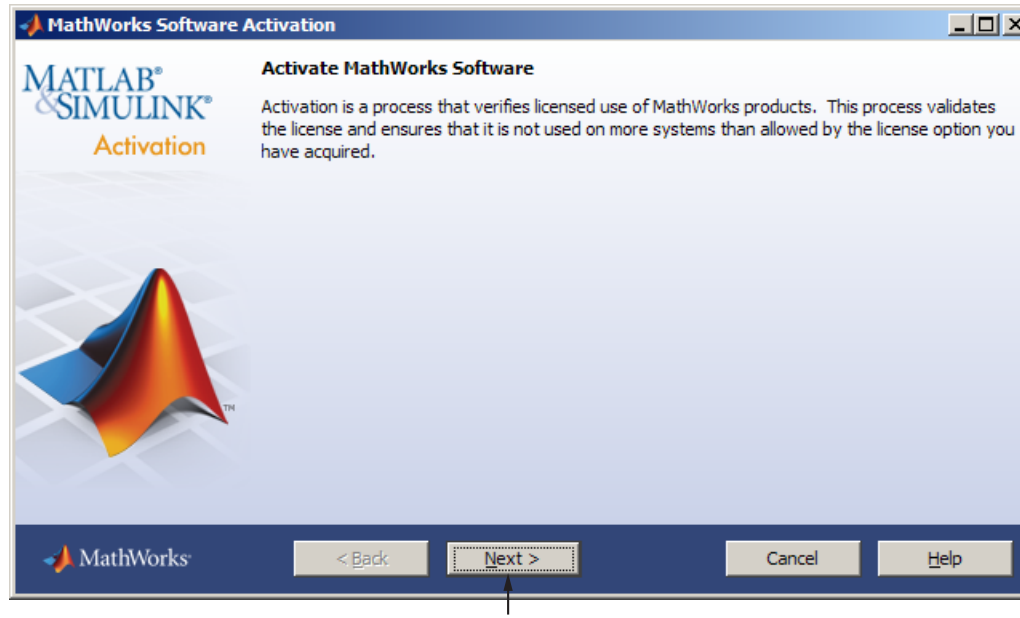


- **Macintosh systems** — Double-click the activation application icon in the MATLAB application package. To view the contents of the MATLAB application package, right-click (or control-click) the package and select **Show Package Contents**.

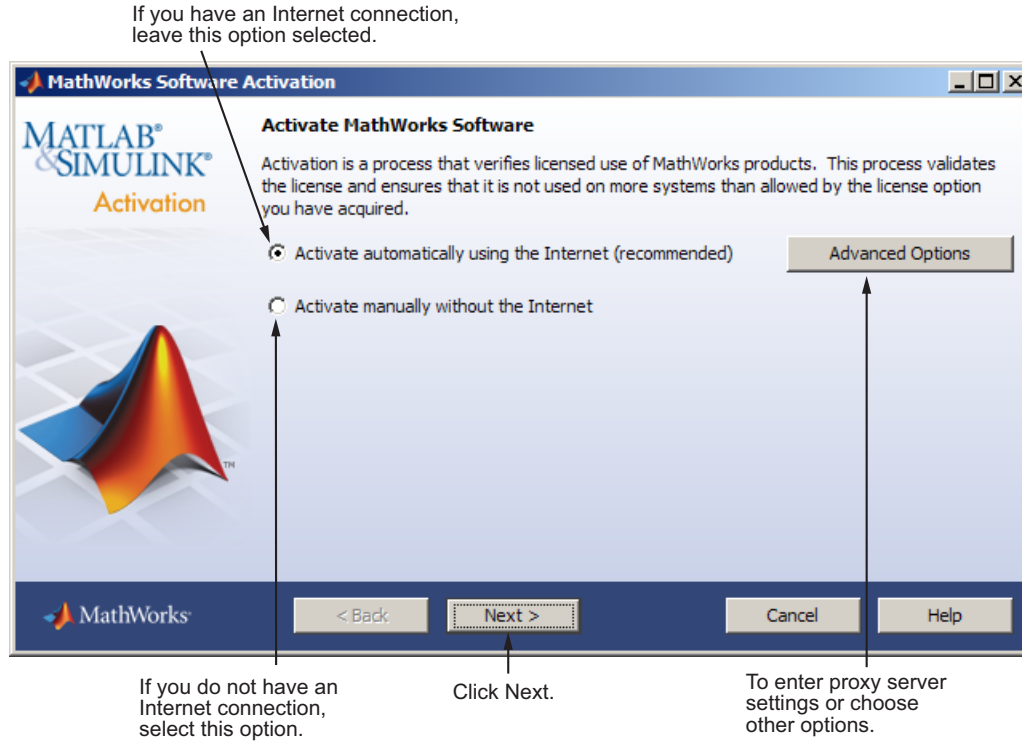
Step 2: Choose Whether to Activate Automatically or Manually

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 computers or by more users than allowed by the license option you have acquired.

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



If you were not logged to your MathWorks Account during installation, or you started the activation application 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. MathWorks recommends activating automatically. The option to activate manually is useful if you do not have an Internet connection. Note that you need a License File to activate manually.



Specifying a Proxy Server

If your Internet connection requires a proxy server, click the **Advanced Options** button. You can enter the server name and port information in the Proxy Settings dialog box, and access other activation options. MathWorks supports several types of proxy configurations: Basic authentication and Digest authentication. See “Accessing Activation Options” on page 3-2 for more information.

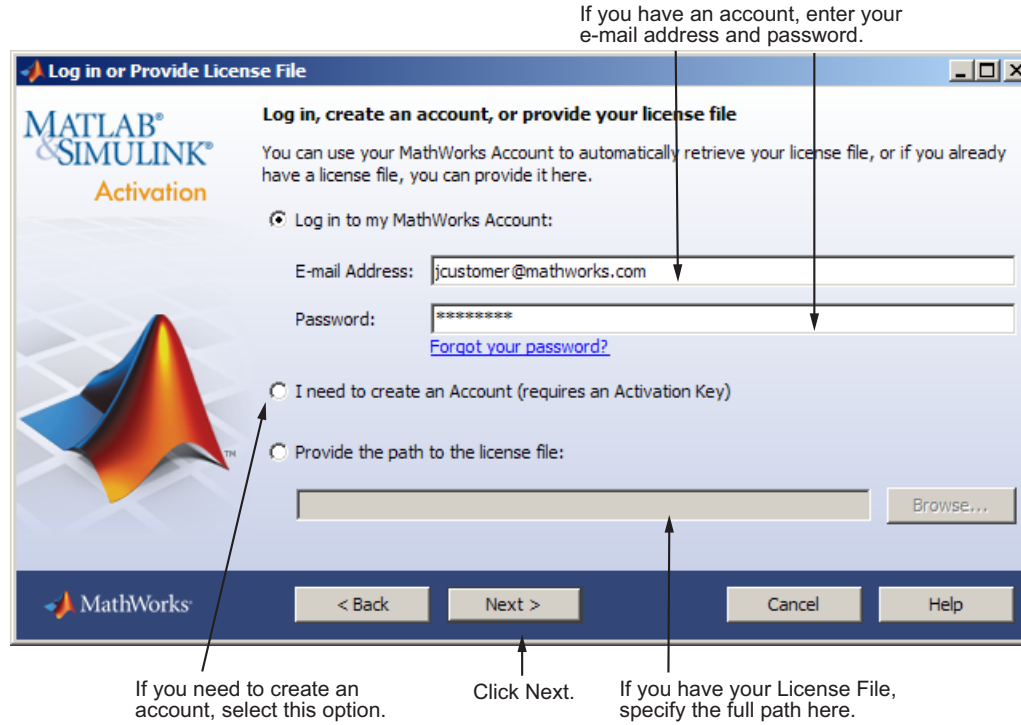
Step 3: Log In to Your MathWorks Account

Note If you continued with activation immediately after installation, and you logged in to your account during installation, the activation application skips this step.

Enter the e-mail address and password of your MathWorks Account and click **Next**. The activation application contacts MathWorks to retrieve the licenses associated with your account.

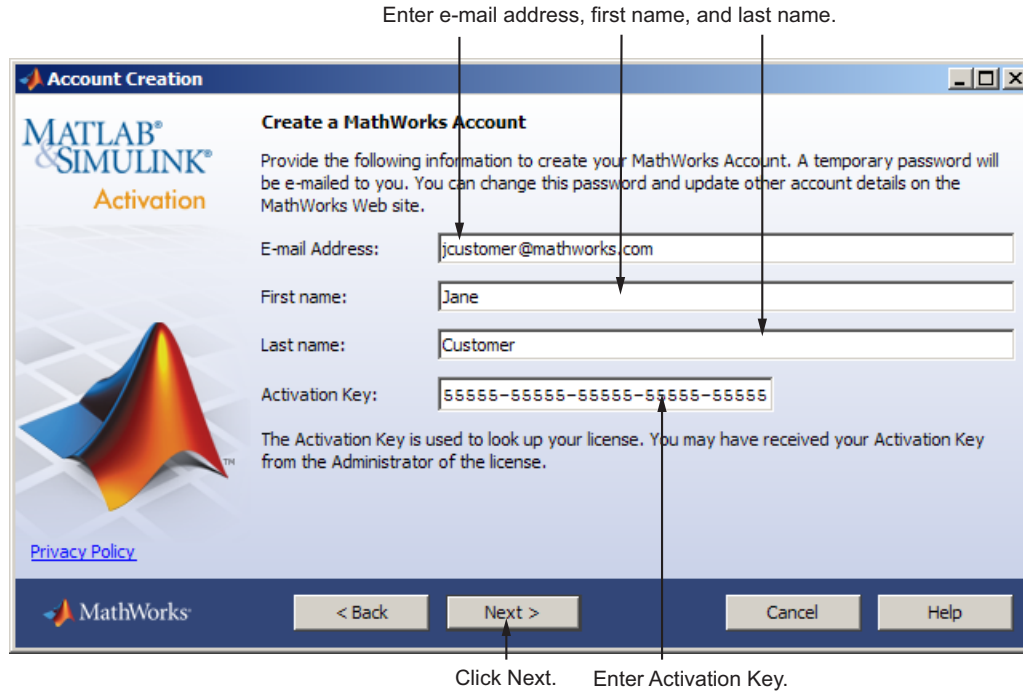
If you do not have a MathWorks Account, select the **I need to create a MathWorks Account** option and click **Next**.

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.



Creating a MathWorks Account

Enter your e-mail address, first name, last name, and Activation Key. To create an account, you must provide an Activation Key. A newly created account will not have any licenses associated with it. 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 **Next** to create your account.



Step 4: Select the License You Want to Activate

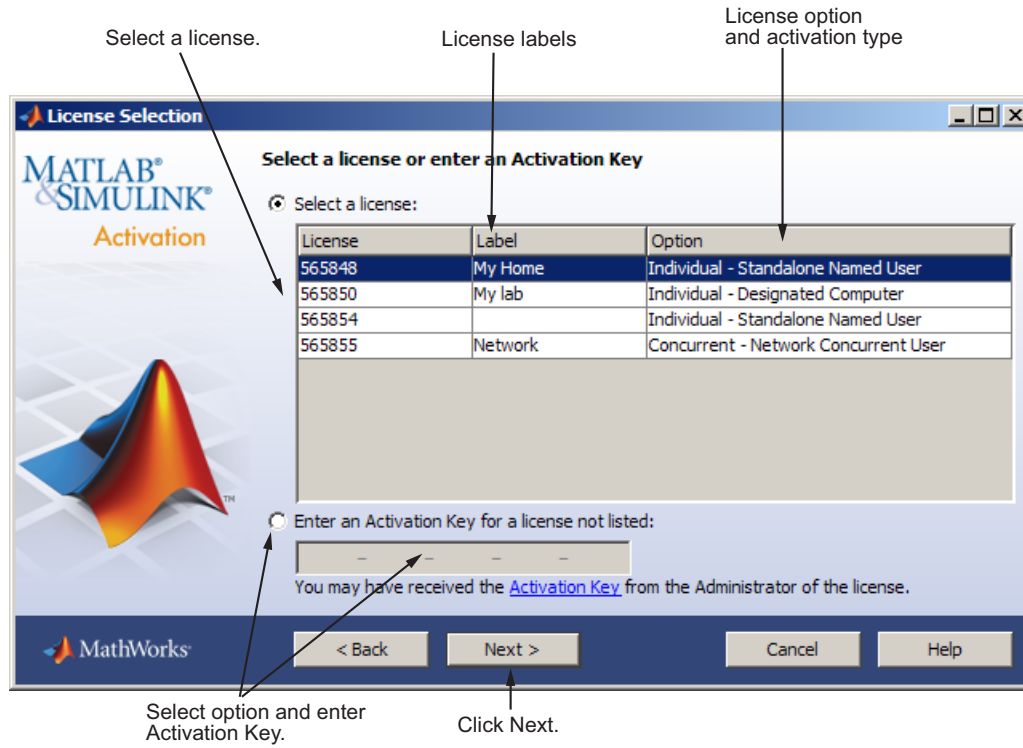
Note If you continued with activation immediately after installation, the activation application assumes you want to activate the license you just installed and skips this step. Likewise, if you created a new account in the previous step and specified an Activation Key, the activation application skips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

Select a license from the list of licenses associated with your MathWorks Account and click **Next**. The list contains the following information about the licenses:

- License number.

- An optional descriptive text label that can help identify the 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.

If you want to install products on a license that is not associated with your MathWorks Account, select the **Enter an Activation Key for a license not listed** option, enter an Activation Key, and click **Next**. An *Activation Key* is the unique code that identifies a license. It can be used to activate a license and also allows licensed end users to associate their MathWorks Account with a license. Ask the administrator of the license for the Activation Key.



What is an Activation Key?

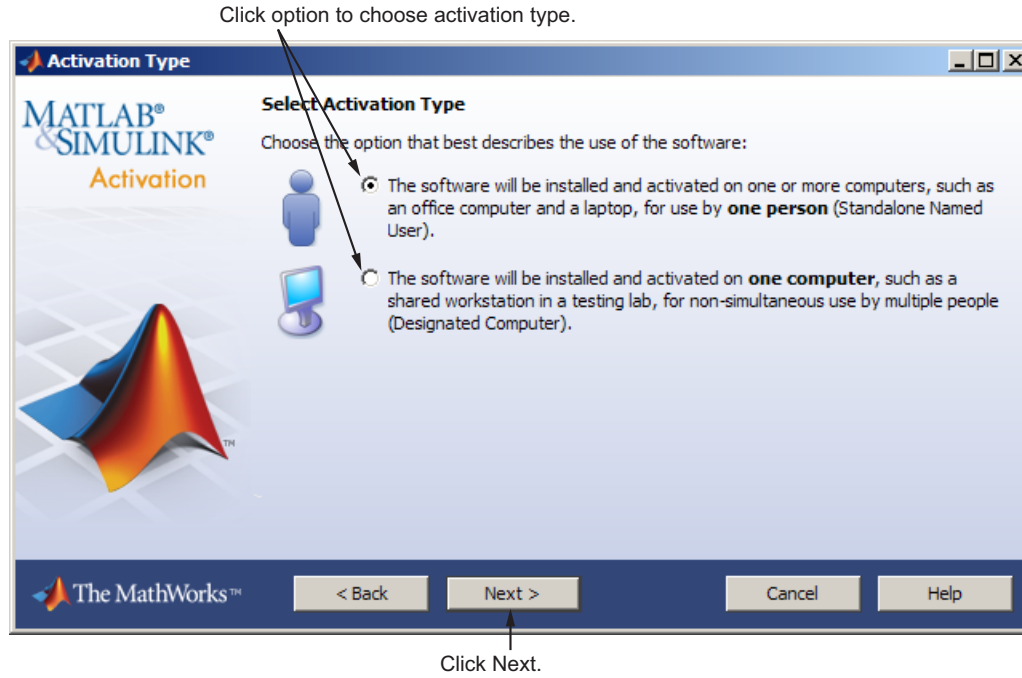
An *Activation Key* is the unique code that identifies a license. It is used to activate the license. The Activation Key also allows licensed end users to associate their MathWorks Account with a license. Ask the administrator of the license for the Activation Key.

Step 5: Select an Activation Type

Note If the license you installed (or selected in the previous step) 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.



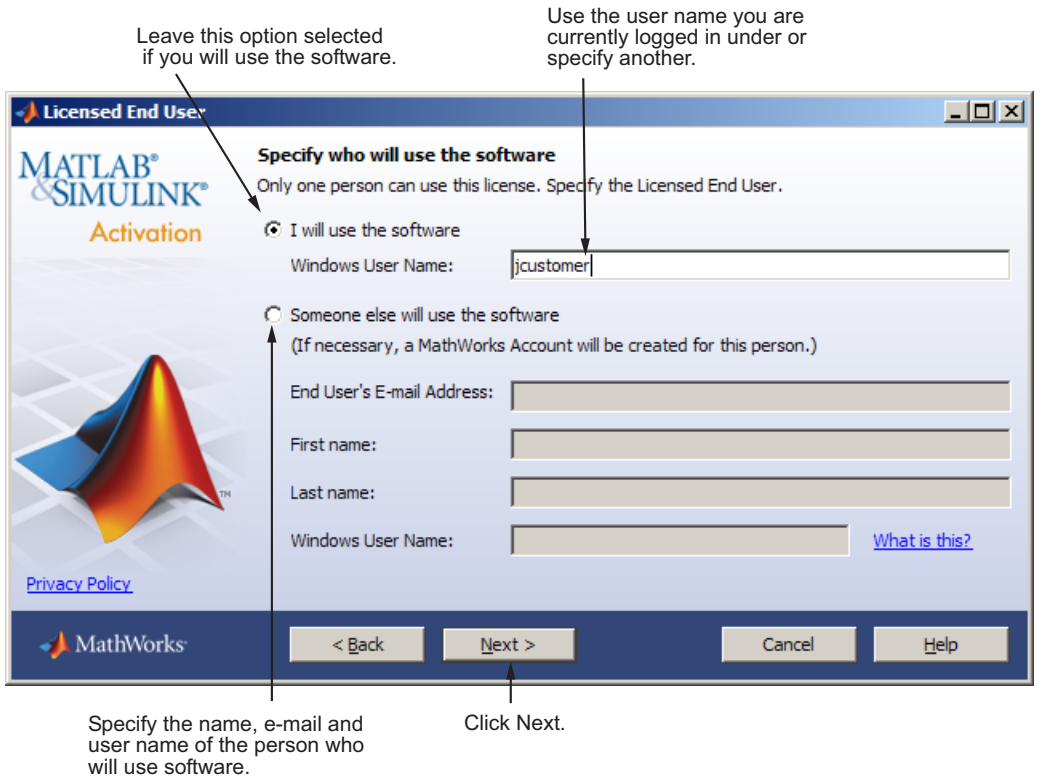
Step 6: Specify the User Name

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 Standalone Named User activation type limits use of the software to a particular user on a particular computer. MathWorks uses the operating system user name to identify this person. The operating system user name is the ID through which a user gains access to a computer. This ID is also known as the computer login name. To use MathWorks software, you must be logged into the computer as the user name that you specify.

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 used your administrator account to install the software but will use another account to access the software, you can specify that user name here.

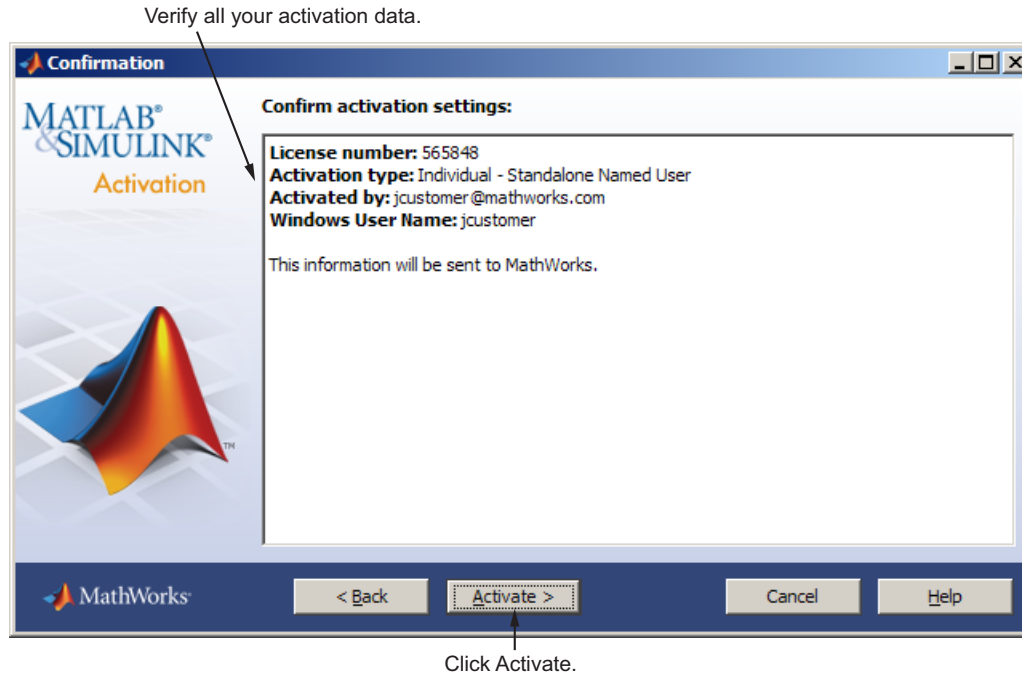
If you want to activate the license for someone else, select the **Someone else will use the software** option, specify their e-mail address, name, and operating system user name, and click **Next**. The activation application looks for their MathWorks Account or creates an account for them. This option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



Step 7: Confirm Your Activation Information

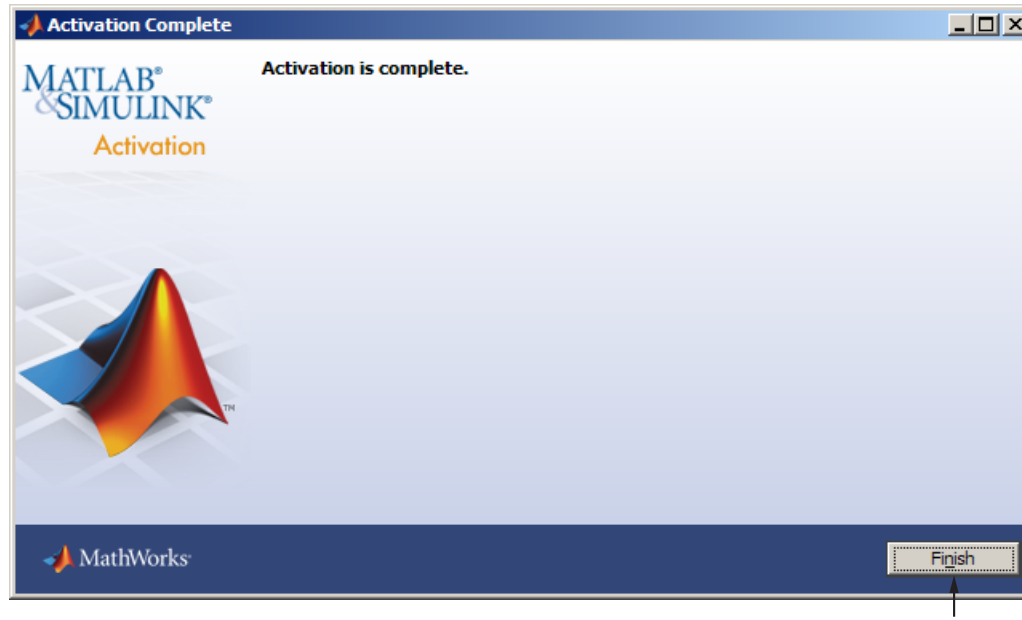
If all the information displayed is correct, click **Activate**.

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



Step 8: Complete the Activation

After activating your installation, click **Finish** to exit the activation process.


Activation Complete
MATLAB®
&SIMULINK®
Activation
Activation is complete.
MathWorks
Finish
Click Finish.

Installing and Activating Without an Internet Connection

In this section...

"Before You Install" on page 1-37
"Step 1: Start the Installer" on page 1-39
"Step 2: Choose to Install Without Using the Internet" on page 1-41
"Step 3: Review the License Agreement" on page 1-42
"Step 4: Specify the File Installation Key" on page 1-43
"Step 5: Choose the Installation Type" on page 1-46
"Step 6: Specify the Installation Folder" on page 1-47
"Step 7: Specify Products to Install (Custom Only)" on page 1-48
"Step 8: Specify Installation Options (Custom Only)" on page 1-48
"Step 9: Confirm Your Choices and Begin Copying Files" on page 1-51
"Step 10: Complete the Installation" on page 1-52
"Step 11: Activate Your Installation" on page 1-53
"Step 12: Specify the Path to the License File" on page 1-54
"Step 13: Complete the Activation" on page 1-56

Before You Install

Before you run the installer:

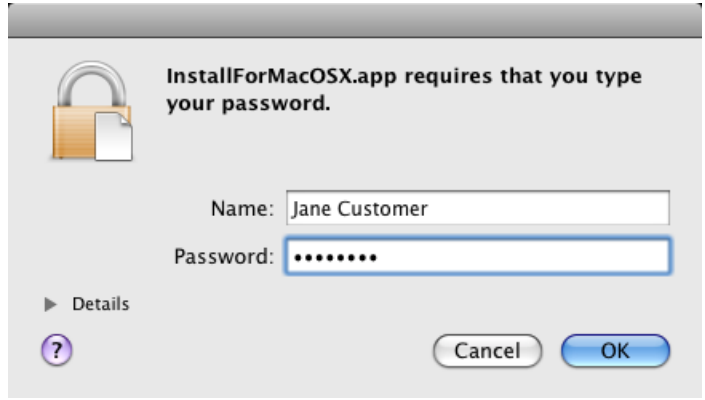
- Have your *File Installation Key* and License File handy. You need both these items to perform an off-network installation and activation.

  The File Installation Key identifies the products you can install. The License File activates the installation, identifying which products you can run. The administrator contact on the license can retrieve the File Installation Key and License File by going to the License Center at the MathWorks Web site.

- Make sure you have the correct permissions to perform the installation. If you have questions about this, ask your system administrator.

Note While you use an administrator account or root privileges to install the software, you typically do not want to activate the software for a privileged user. Specify the non-privileged end user who will use the software when you activate it. Running MATLAB as a user with administrator privileges or root privileges is not recommended.

- **Windows Systems** — Get the name and password of the administrator account on your computer. The installer modifies the system registry during installation.
- **Linux Systems** — Get the root password. You can install MATLAB software without superuser privileges, however, it limits certain installation options. For example, if you want to setup symbolic links to the `matlab` command, install product files in a protected folder, or edit the system boot script, you must have superuser status.
- **Macintosh Systems** — Get the name and password of the administrator account on your computer. The administrator account is the user account you set up when you configured your Macintosh system; this is not your MathWorks Account. During installation, you must enter this name and password in the Authenticate dialog box, shown below.



- Consider disabling virus-checking software and Internet security applications on your system for the duration of the installation process. These applications can slow down the installation process or cause it to appear unresponsive (or to hang).

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

You can use this procedure to install one of the standalone or network license options. If you use this with a network license option, you must specify the License File path and choose whether to configure the license manager. See "Installing the License Manager on a Server" on page 2-4 for more information about these additional steps.

Step 1: Start the Installer

The method you use to start the installer, depends on your platform.

- **Windows Systems** — Insert the DVD into the DVD drive connected to your system or double-click the installer file you downloaded from the MathWorks Web site. The installer should start automatically.
- **Linux Systems** — Insert the DVD into the DVD drive connected to your system and execute the following command:

  ```
  /path_to_dvd/install &
  ```

If you are installing from downloaded files, extract the installer from the archive file and execute the installer command:

```
./install
```

- **Macintosh Systems** — Insert the MathWorks DVD into the DVD drive connected to your system or download product files from the MathWorks Web site. When the DVD icon appears on the desktop, double-click the icon to display the DVD contents, and then double-click the `InstallForMacOSX` icon to begin the installation.

The method you use to start the installer depends on your platform.

- On Windows systems

  Insert the DVD into the DVD drive connected to your system or double-click the installer file you downloaded from the MathWorks Web site. The installer should start automatically.

- On Linux systems

  Insert the DVD into the DVD drive connected to your system and execute the following command:

  ```
  /path_to_dvd/install &
  ```

If you are installing from downloaded files, extract the installer from the archive file and execute the installer command:

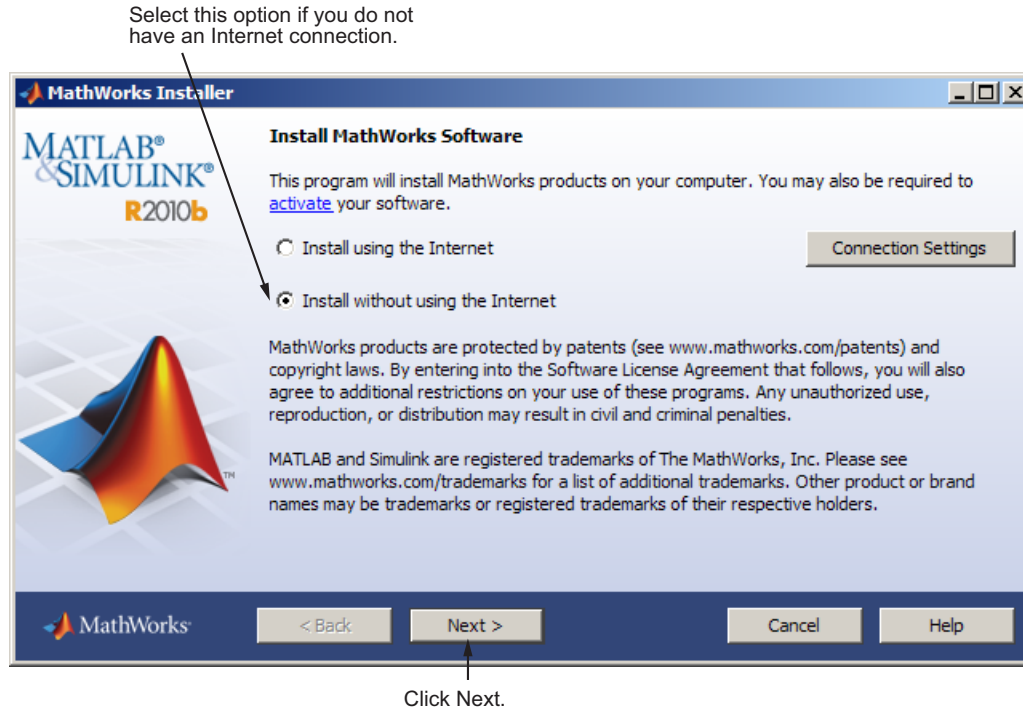
```
./install
```

- On Macintosh Systems

  Insert the MathWorks DVD into the DVD drive connected to your system or download product files from the MathWorks Web site. When the DVD icon appears on the desktop, double-click the icon to display the DVD contents and then double-click the `InstallForMacOSX` icon to begin the installation.

Step 2: Choose to Install Without Using the Internet

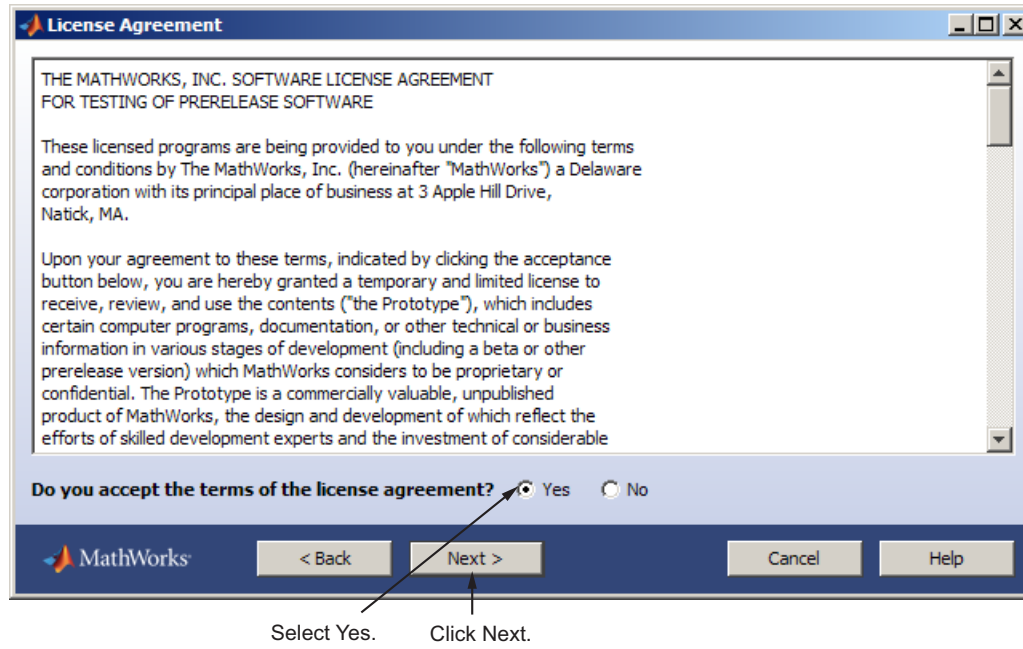
If you do not have an Internet connection, select the **Install without using the Internet** option and click **Next**.



Step 3: Review the License Agreement

Review the software license agreement and, if you agree with the terms, select **Yes** and click **Next**.

After the installation is complete, you can view or print the license agreement using the file `license.txt` located in the top-level installation folder.

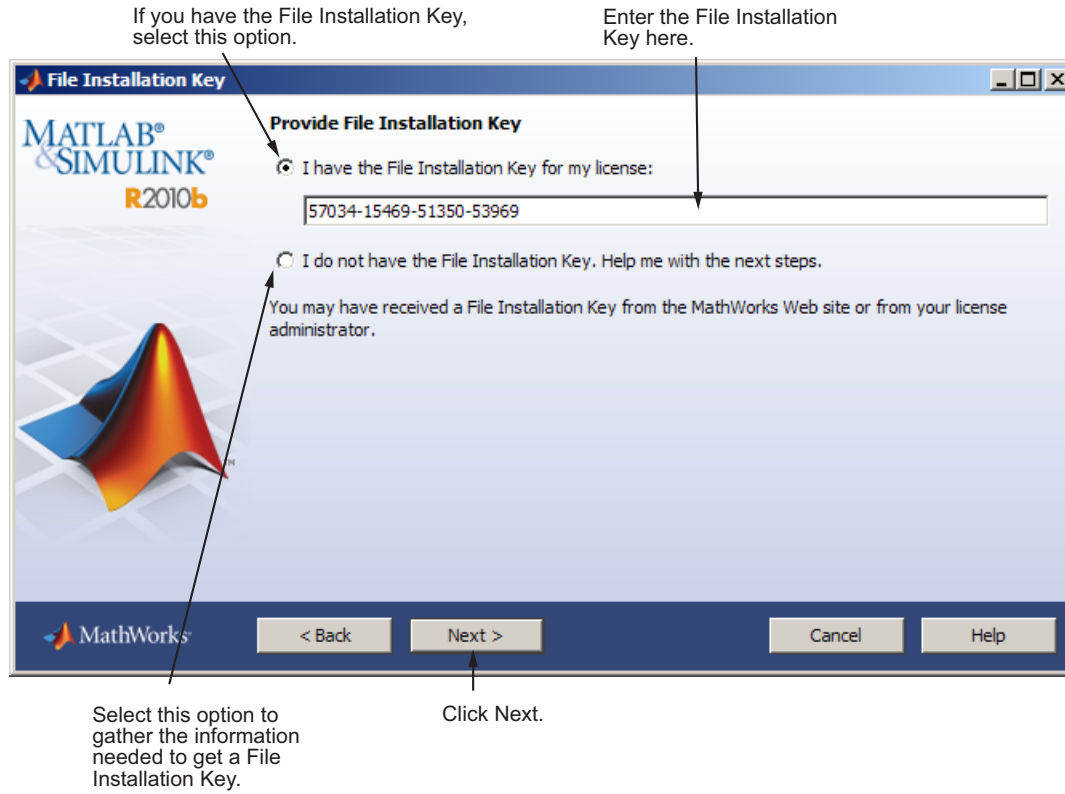


Step 4: Specify the File Installation Key

If you do not have an Internet connection, and choose to install manually, the installer displays the File Installation Key dialog box. A File Installation Key identifies the products you can install.

If you have the key, select the **I have the File Installation Key for my license** option, enter the File Installation Key, and click **Next**. The administrator contact on a license can retrieve the File Installation Key from the License Center at the MathWorks Web site.

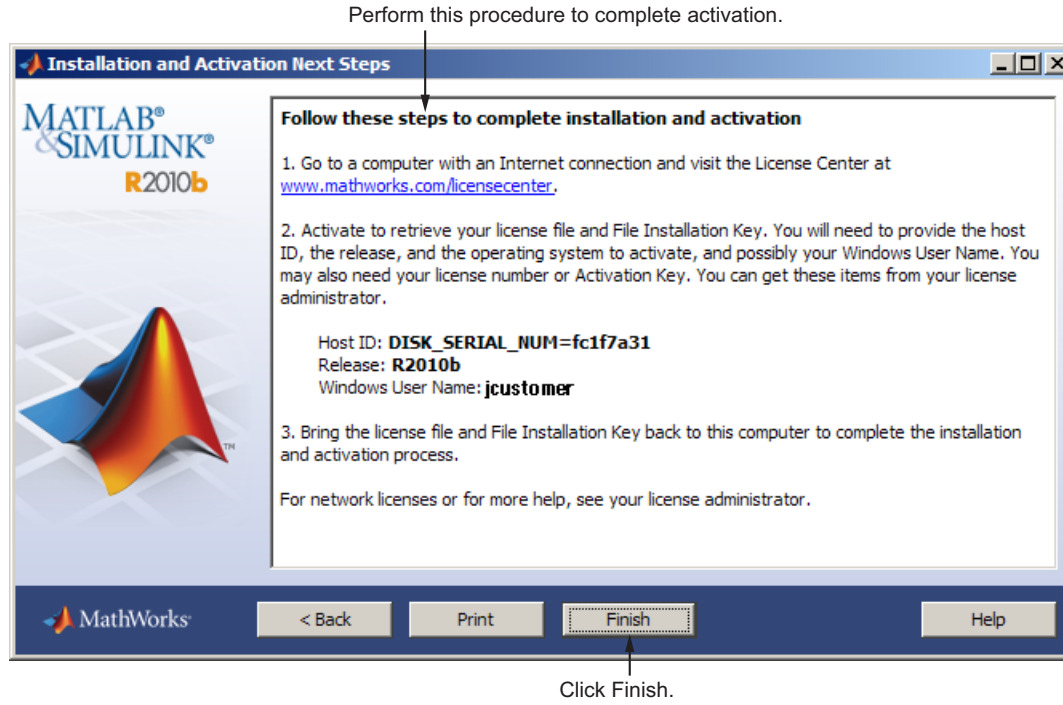
If you do not have the key, select the **I do not have the File Installation Key** option and click **Next**. The installer will provide you with the information you need to get a key.



If You Do Not Have the File Installation Key

The Installation and Activation Next Steps dialog box contains the information you need to retrieve your File Installation Key from the License Center at the MathWorks Web site. This information includes:

- Host ID
- Release number (for example, R2010b)
- Operating system user name (Note that user names are case-sensitive in activation.)



To get your File Installation Key:

1. Remember the information displayed in this dialog box and click **Finish** to exit the installer. On Windows and Linux systems, you can click **Print** to print out the information.

2. Go to a computer with an Internet connection and log in to your account at the MathWorks Web site.

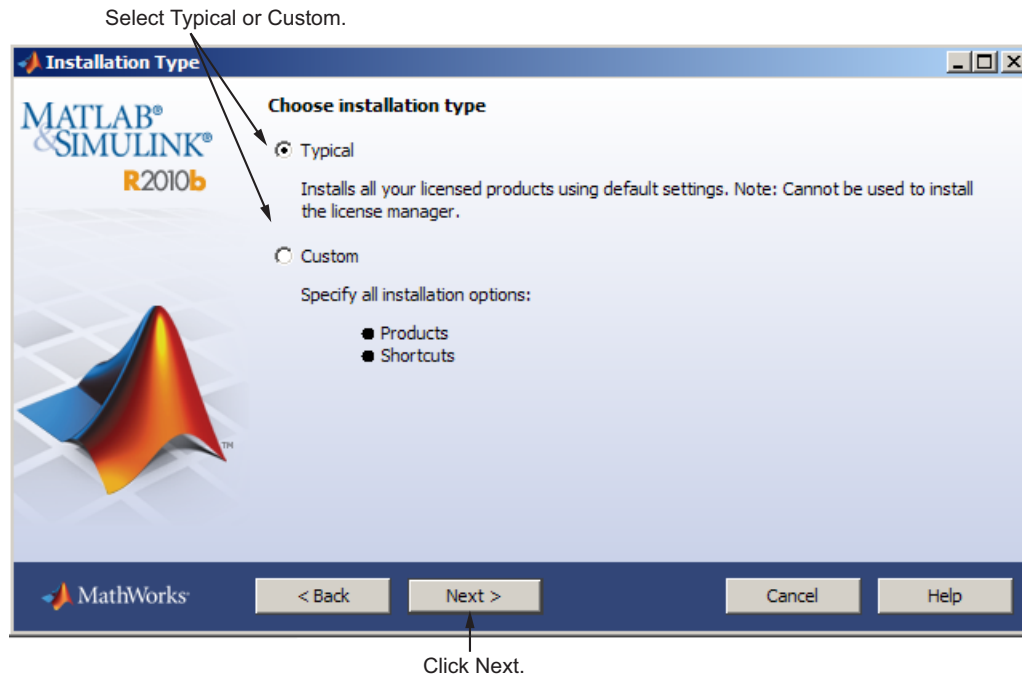
3. Visit the License Center and enter the information from this dialog box. MathWorks uses this information to generate a File Installation Key and License File for your license.

4. Return to your computer and re-run the installer. With the File Installation Key and a License File, you can install and activate the software without an Internet connection.

Step 5: Choose the Installation Type

In the Installation Type dialog box, specify whether you want to perform a Typical or Custom installation and click **Next**.

- Choose **Typical** if you have an Individual or Group license and do not need to specify which products you want to install and do not need to access any installation options.
- Choose **Custom** if you need to specify which products to install, need access to installation options, or need to install the license manager (network license options only).



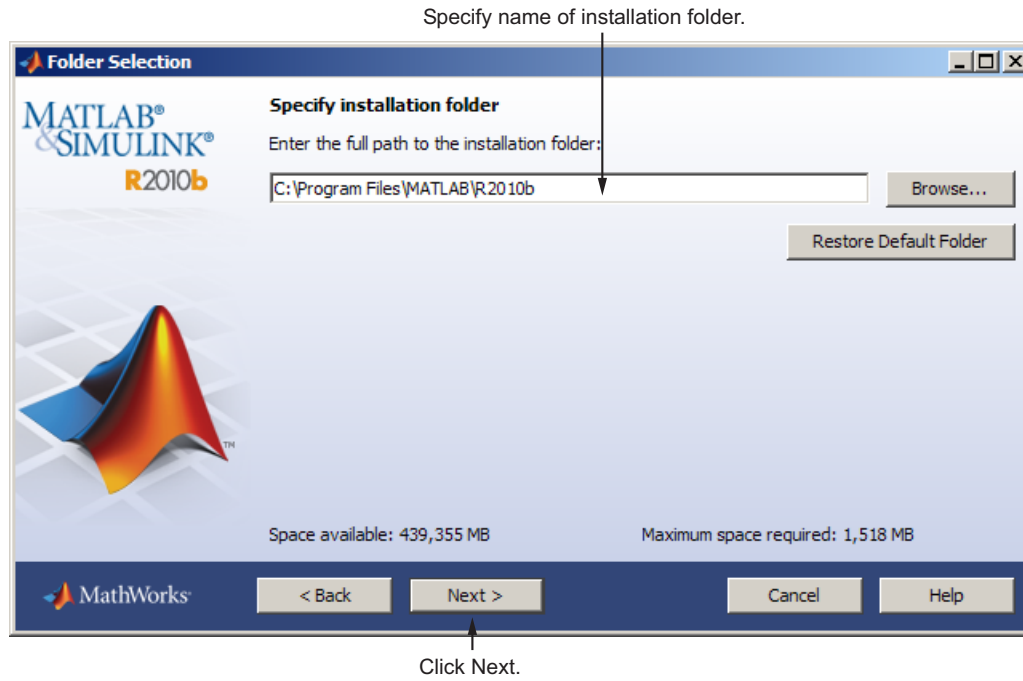
If you choose a Typical installation, the installer skips the product selection and installation options steps.

Step 6: Specify the Installation Folder

Specify the name of the folder where you want to install MathWorks products. Accept the default installation folder or click **Browse** to select a different one. If the folder doesn't exist, the installer creates it.

On Macintosh systems, the installer puts the MATLAB application package, `MATLAB_R2010b.app`, in the `Applications` folder, by default.

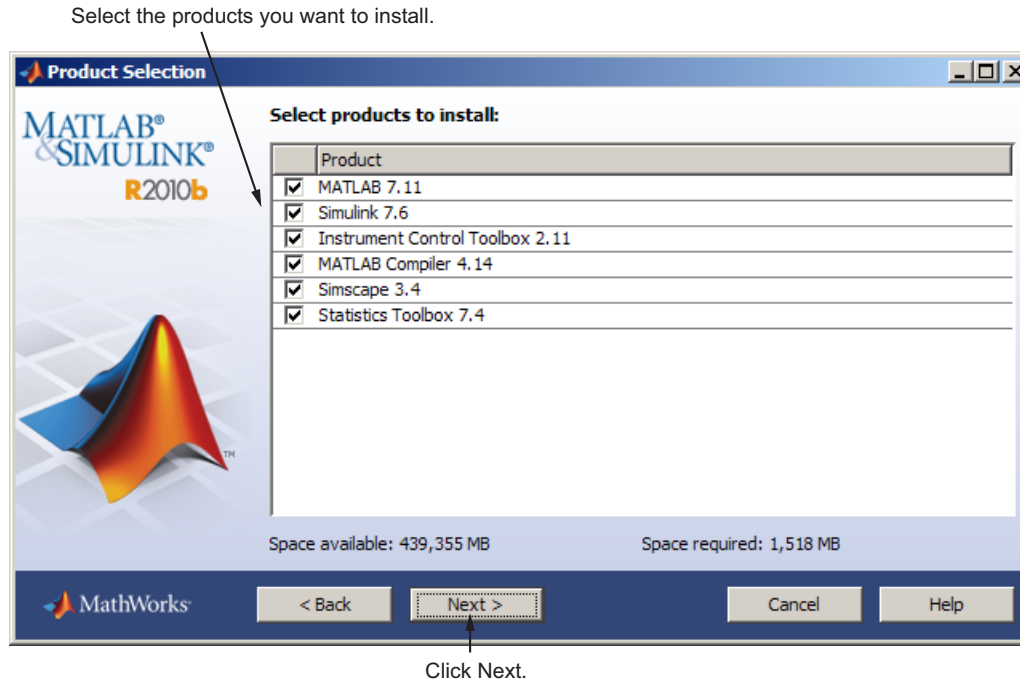
When specifying a folder name, you can use any alphanumeric character and some special characters, such as underscores. The installer will tell you if the name you specified includes any characters that are not permitted in file names. If you make a mistake while entering a folder name and want to start over, click **Restore Default Folder**. After making your selection, click **Next**.



Step 7: Specify Products to Install (Custom Only)

If you are performing a custom installation, you can specify which products you want to install in the Product Selection dialog box. This dialog box lists all the products associated with the license you selected or with the Activation Key you specified. In the dialog box, all the products are preselected for installation. If you do not want to install a particular product, clear the check box next to its name.

After selecting the products you want to install, click **Next** to continue with the installation.



Step 8: Specify Installation Options (Custom Only)

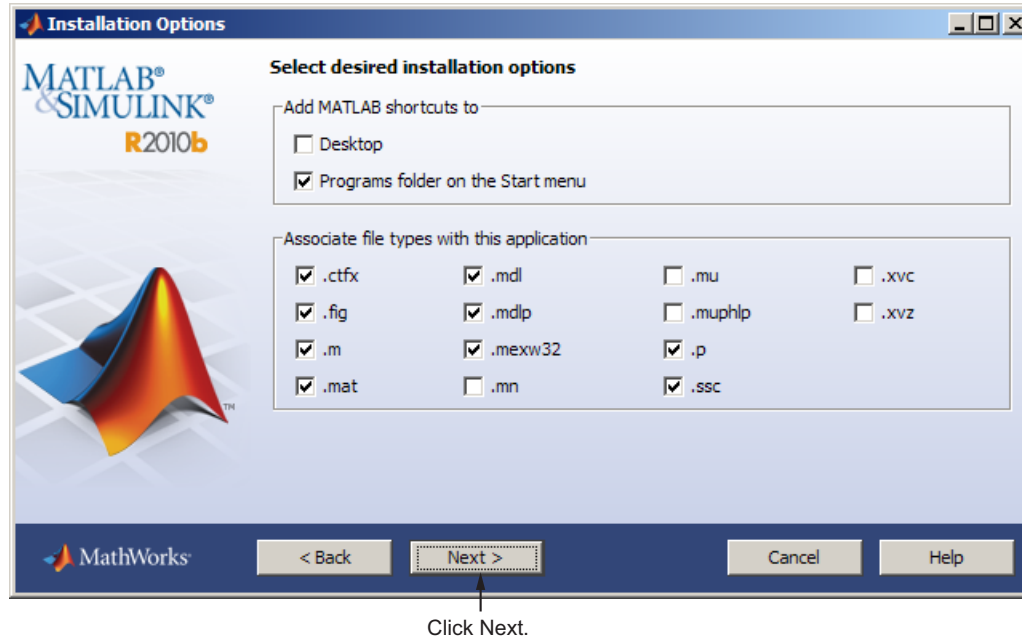
For Custom installations, you can specify several installation options, depending on your platform.

Windows Systems

On Windows system, the Installation Options dialog box presents the following options:

- Determining whether the installer puts shortcuts for MATLAB software in the **Start** menu and on the desktop.
- Specifying which files the operating system associates with MATLAB, based on their file extension. The installer preselects the extensions associated with products you are installing.

After selecting installation options, click **Next** to proceed with the installation.



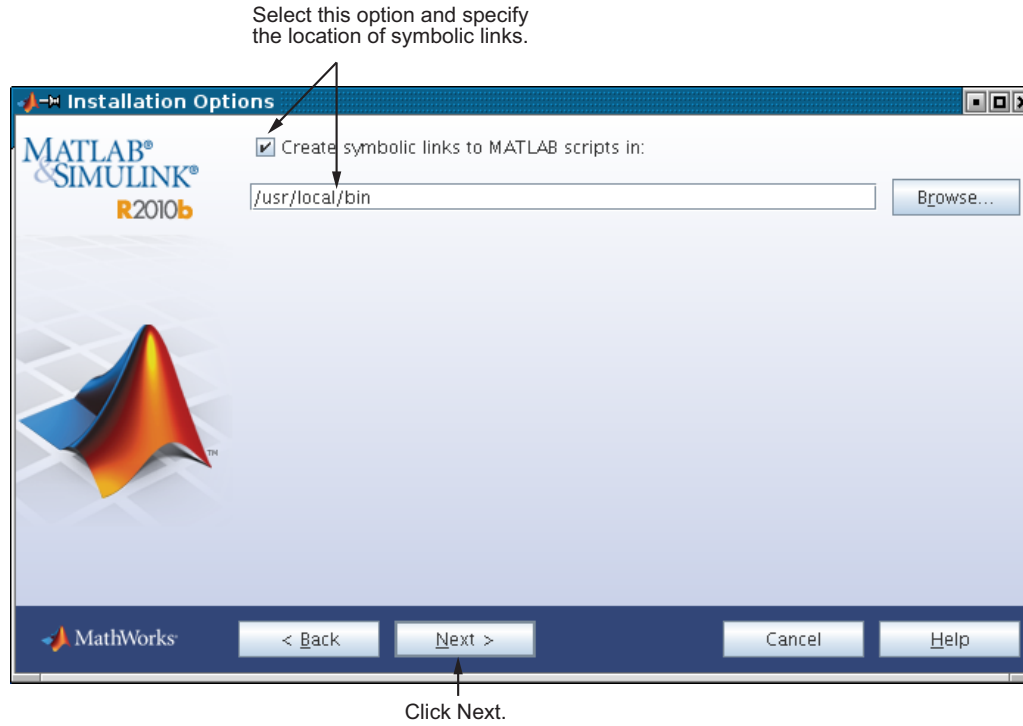
The following table provides brief descriptions of these file extensions.

File Extension	Description
`.ctfx`	MATLAB Compiled Application
`.fig`	MATLAB Figure
`.m`	MATLAB Code
`.mat`	MATLAB Data
`.mdl`	Simulink Model
`.mdlp`	Simulink Protected Model
`.mex*`	MATLAB MEX. This extension is platform specific: `.mexw32` or `.mexw64`
`.mn`	MuPAD Notebook
`.mu`	MuPAD Code
`.muphlp`	MuPAD Help
`.p`	MATLAB P-code
`.ssc`	Simscape Model
`.xvc`	MuPAD Graphics
`.xvz`	MuPAD Graphics

Linux Systems

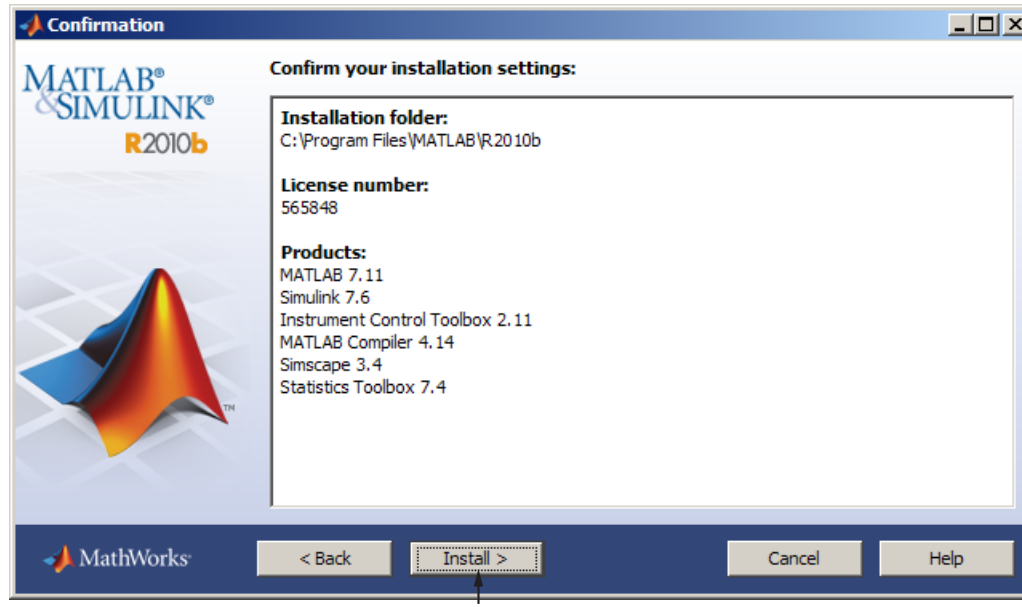
On Linux systems, you can specify whether you want to create symbolic links to the `matlab` and `mex` scripts. Specify a folder to which you have write access and that is common to all your user's paths, such as `/usr/local/bin` .

After selecting installation options, click **Next** to proceed with the installation.



Step 9: Confirm Your Choices and Begin Copying Files

Before it begins copying files to your hard disk, the installer displays a summary of your installation choices. To change a setting, click **Back**. To proceed with the installation, click **Install**.



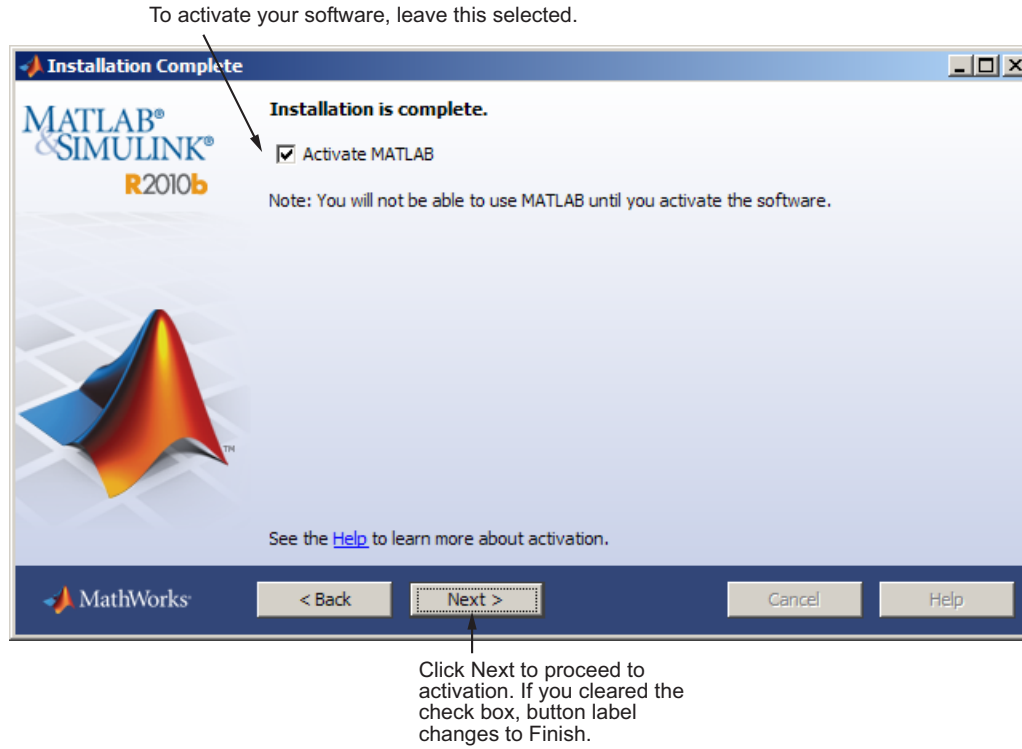
Click Install.

As it copies files to your hard drive, the installer displays a status dialog box to show the progress of the installation.

Step 10: Complete the Installation

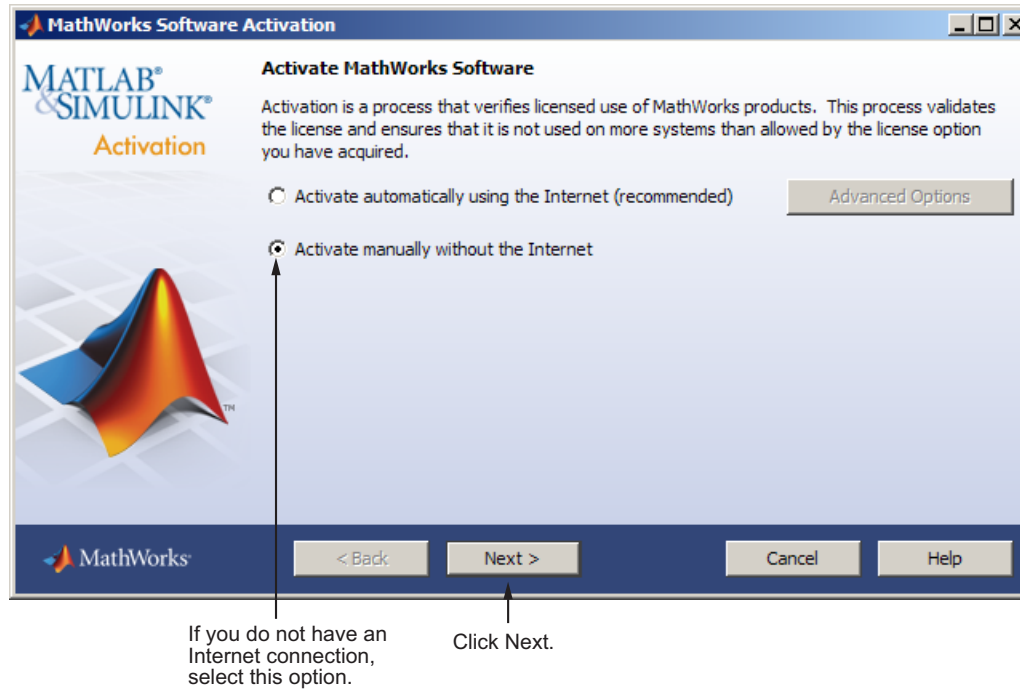
When the installation successfully completes, the installer displays the Installation Complete dialog box. In this dialog box, you can choose to activate the software you just installed. You cannot use the software you installed until you activate it. MathWorks recommends activating immediately after installation. Click **Next** to proceed with activation.

If you choose to exit the installer without performing activation, clear the **Activate MATLAB** option and click **Finish** (the button label changes). You can activate later using the activation application.



Step 11: Activate Your Installation

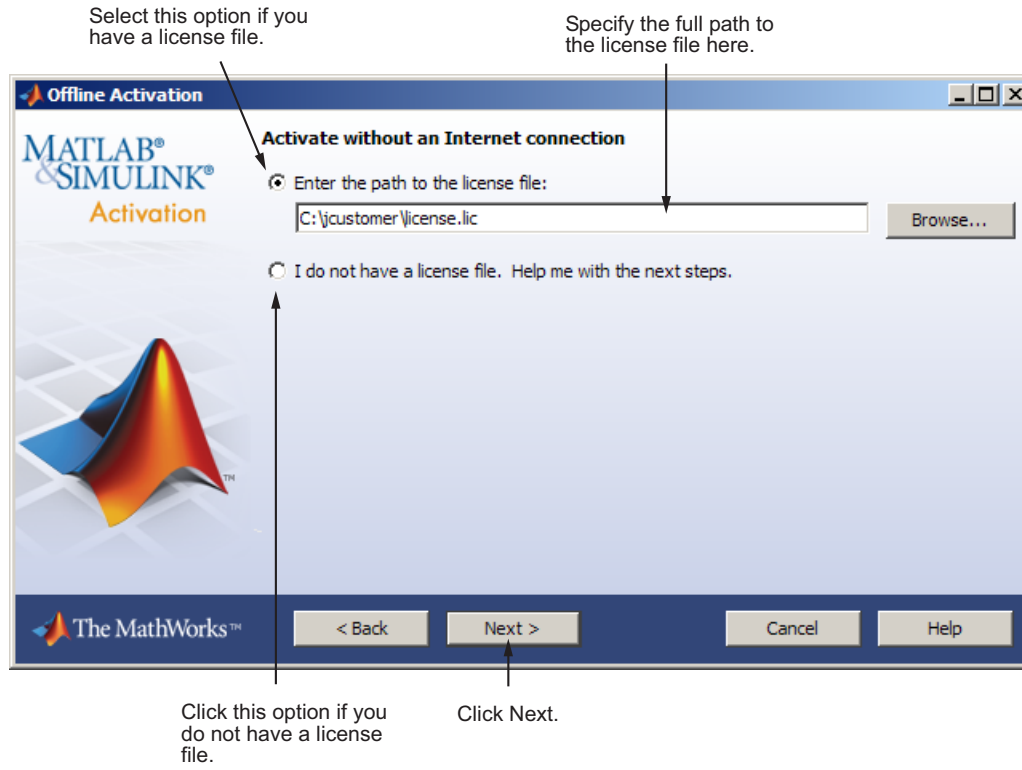
Because you were not logged in to your MathWorks Account during installation, or you started the activation application independently, you must choose whether to activate automatically or manually. Select the **Activate manually without the Internet** option and click **Next**.



Step 12: Specify the Path to the License File

To activate without an Internet connection, you must have a License File. The License File identifies which products you can run. The administrator contact on the license can retrieve the License File from the License Center at the MathWorks Web site. Select the **Enter the path to the License File** option and enter the full path of your License File in the text box (or drag and drop the file) and click **Next**

If you do not have your License File, select the **I do not have a license file** option and click **Next** to get information about how to retrieve a License File.



If You Do Not Have a License File

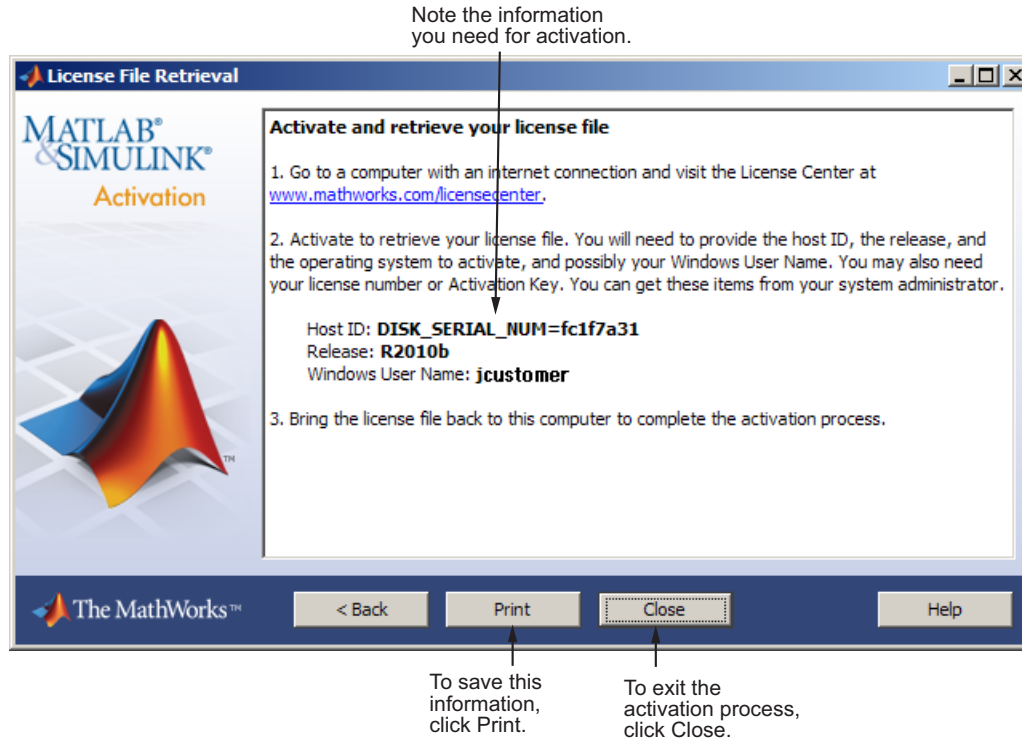
If you are activating manually and do not have your License File, the License File Retrieval dialog box explains how to get your License File and finish activation. The dialog box displays the information you will need to get your License File, including:

- Host ID
- Release number (e.g., R2010b)
- Operating system user name (Note that user names are case-sensitive in activation.)

Save the information displayed in this dialog box. For example, you can print a copy by clicking **Print**. Take the information to a computer with an

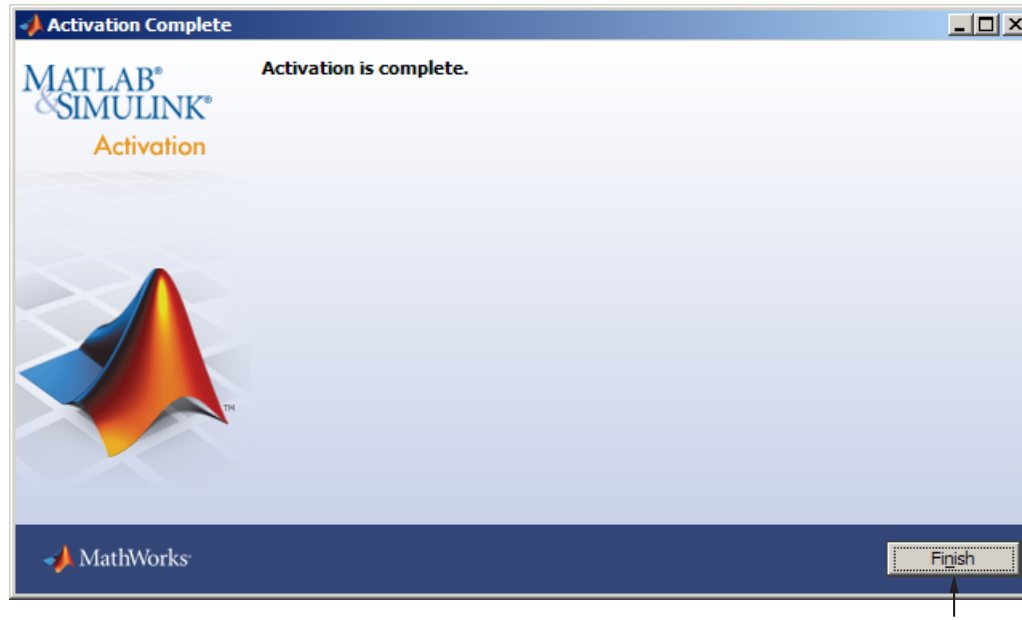
Internet connection and visit the License Center at the MathWorks Web site. MathWorks uses this information to generate a File Installation Key and a License File. You must have this information with you when you return to the computer on which you want to install and activate the software. To exit the activation application, click **Finish**.

Note Your installation will not be activated. You cannot run MATLAB until you retrieve your License File.



Step 13: Complete the Activation

After activating your installation, click **Finish** to exit the activation process.


Activation Complete
MATLAB®
&SIMULINK®
Activation
Activation is complete.
MathWorks
Finish
Click Finish.

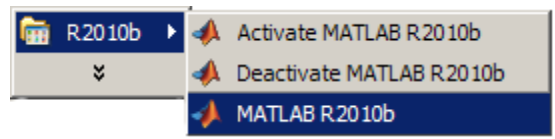
After You Install

In this section...
"Starting MATLAB Software" on page 1-58
"Updating Your License" on page 1-59
"Setting Your MATLAB Startup Folder" on page 1-59
"Setting Up MATLAB Environment Options" on page 1-59
"Finding Information About MATLAB Software" on page 1-59

Starting MATLAB Software

The method you use to start MATLAB software depends on your platform.

- **Windows Systems**:
  - Click the Windows **Start** menu, and then select **Programs > MATLAB > R2010b**, and click **MATLAB R2010b**.



  - If you chose to create a shortcut on your desktop in the Installation Options dialog box, you can double-click the MATLAB icon.

  - Navigate to *matlabroot*`/bin`, where *matlabroot* is your MATLAB installation folder, and double-click `matlab.exe`.
- **Linux Systems**
  - Enter the `matlab` command at the system prompt. If you did not set up symbolic links on the Installation Options dialog box during installation, you must enter the full path name, *matlabroot*`/bin/matlab`, where *matlabroot* is the name of your MATLAB installation folder.

- **Macintosh Systems**
  - Navigate to your installation folder and double-click the MATLAB icon.

Updating Your License

Throughout the term of your license, your MATLAB installation periodically contacts 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.

You can disable validation at the License Center at the MathWorks Web site. See the License Center Help for step-by-step instructions.

Setting Your MATLAB Startup Folder

If you start MATLAB using the shortcut on your desktop, the initial current folder (or startup folder) is `My Documents\MATLAB`. (You can choose to have the installer create this shortcut at "Step 9: Specify Installation Options (Custom Only)" on page 1-18.) To learn how to specify the startup folder, see the MATLAB Desktop Tools and Development Environment documentation.

Setting Up MATLAB Environment Options

To include welcome messages, default definitions, or any MATLAB expressions that you want executed every time MATLAB is invoked, create a file named `startup.m` in the *`matlabroot`*`\toolbox\local` folder. Every time you start MATLAB, it executes the commands in the `startup.m` file. The `local` folder includes a sample startup file, named `startupsav.m`, that you can rename and use as a starting point.

Finding Information About MATLAB Software

After successfully installing MATLAB, you are probably eager to get started using it. The following list provides pointers to sources of information and other features you might find helpful in getting started with MATLAB.

Task	Description
Get an overview of MATLAB and its capabilities	Read the MATLAB Getting Started documentation.
Find out what's new in this release	Read the Release Notes documentation.
Start a product or access product demonstration programs	Use the **Start** button on the MATLAB desktop.
Get information about specific MATLAB features	Choose the **Help** item on the MATLAB menu bar to view reference and tutorial information in hyperlinked HTML form.
Get help with specific questions you can't find answered in the documentation	Go to the MathWorks Web site (`www.mathworks.com`), click **Support**, and use the Technical Support solution search area to find more information.

Removing (Uninstalling) MathWorks Products

The method you use to remove MathWorks software from your computer varies, depending on your platform.

Note Deactivating a license and removing the software are separate activities. You can deactivate a license without removing the software from your computer. For information about deactivating software, see "Deactivating a License" on page 1-67.

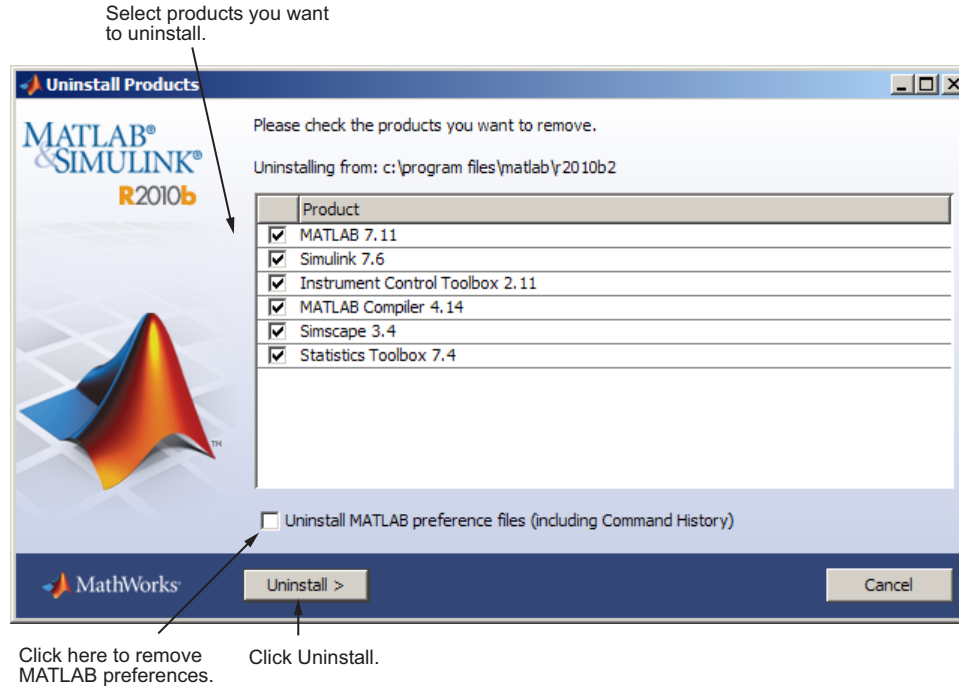
Uninstalling Products on Windows Systems

To remove MathWorks products from your system, follow this procedure:

1. Shut down the MATLAB software.
2. Start the uninstaller, using any of the following methods.
   - On the Windows **Start** menu, select **Settings > Control Panel > Add or Remove Programs**. Select **MATLAB R2010b** from the list of products and click **Change/Remove**.
   - Navigate to the `matlabroot/uninstall/bin/$ARCH` folder, where `matlabroot` is your MATLAB installation folder and `$ARCH` is a platform-specific subfolder, such as `win32`. Double-click the uninstaller executable, `uninstall.exe`.

   To learn how to use an uninstaller properties file to run the uninstaller noninteractively, see "Running the Uninstall Program Noninteractively" on page 1-63.
3. In the Uninstall Products dialog box, select the products you want to remove and click **Uninstall**.

   If you select MATLAB, you automatically remove all other MathWorks products.



You might receive a message telling you that the product you want to uninstall has other products that depend on it. For example, all MathWorks products require the MATLAB product. To dismiss the message and continue removing products, click **OK**. To change the products you had selected for deletion, click **Cancel**. For more information, see "Product Dependencies" on page 3-5.

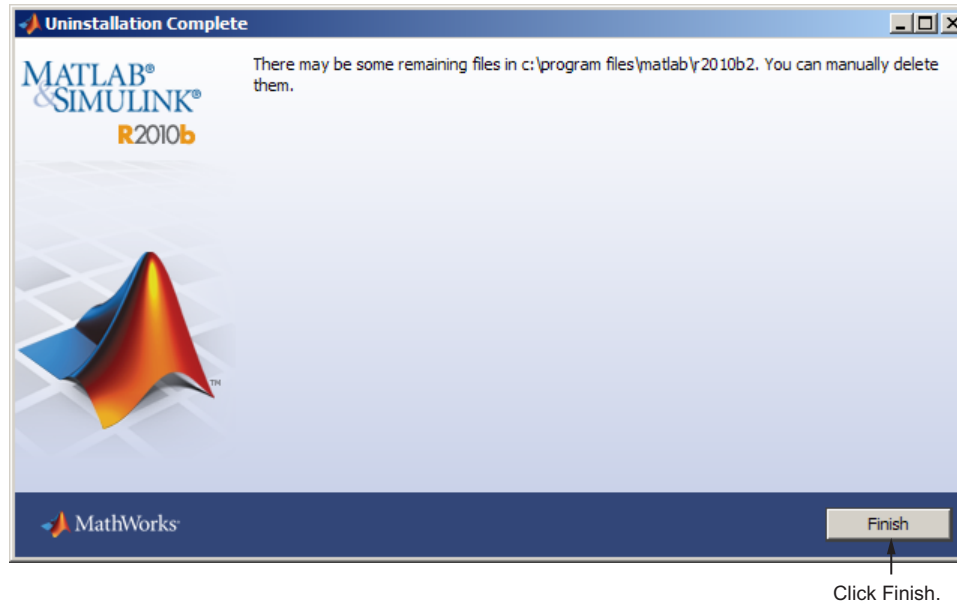
If you also want to remove your MATLAB preferences file, click the **Uninstall MATLAB preference files** check box. By default, the uninstaller does not delete these preference files. MATLAB preference files contain your environment settings, such as command history and Help favorites. To find where MATLAB stores your preferences, use the `prefdir` command at the MATLAB prompt, as in the following example:

```
prefdir
ans =
C:\WINNT\Profiles\username\Application Data\MathWorks\MATLAB\R2010b
```

username is the user name of the person running the uninstaller.

4 (Optional) Choose whether to delete download archive files. If your MATLAB installation folder contains the archive files for downloaded products, the uninstaller displays a message asking if you want to delete these archive files. The installer stores these archive files in the *matlabroot*/archives folder of your installation. To remove these files, click **Yes**.

5 To proceed with the removal, click the **Uninstall** button. The uninstaller displays the status of the operation as it progresses and displays a dialog box when the operation is complete. Click **Finish** to exit the uninstaller. When you uninstall a MATLAB installation, the uninstaller displays a dialog box suggesting that you deactivate the installation. For more information about deactivation, see "Deactivating a License" on page 1-67.



Running the Uninstall Program Noninteractively

To run the uninstaller noninteractively, perform these steps:

1. Create an uninstaller properties file.

   Make a copy of the uninstaller properties file template, named `uninstaller_input.txt`, located in the `uninstall` folder in your MATLAB installation folder. For example, on a Windows system, you might execute this command:

   ```
   copy matlabroot\uninstall\uninstaller_input.txt
   C:\temp\my_uninstall.txt
   ```

2. Open your uninstaller properties file using any text editor, and enter values for all the specified parameters. For example, you can specify the name of the output log file using the `outputFile=` parameter. The template contains detailed descriptions of each parameter with examples.

   By default, the uninstaller removes all the products in a particular MATLAB installation, however, you can specify which products to delete. In the product list in the template, remove the comment character at the beginning of the product name. In silent mode, if you specify a product for deletion that is not one of your installed products, the uninstaller exits and writes a message to your log file. If you specified `mode=automated`, the uninstaller displays the Product Selection dialog box and pauses, waiting for you to adjust the product selection.

3. Save your changes to the file.

4. Run the uninstaller (`uninstall.exe`), using the `-inputFile` flag to specify the properties file as a command-line argument.

   For example, click the **Start** button and select the **Run** option. In the Run dialog box, enter the `uninstall` command, specifying the full path of the properties file as a command-line argument:

   ```
   uninstall.exe -inputFile C:\temp\my_uninstall.txt
   ```

Uninstalling Products on Linux Systems

Note If you want to deactivate a license and remove the software, be sure to deactivate before you remove the software. When you remove the software, you also remove the application you use to deactivate the software. For more information about deactivating, see "Deactivating a License" on page 1-67.

1. Exit the MATLAB program.
2. Stop the license manager. To stop the license manager, use the `lmdown` utility in the *`matlabroot`*`/etc` folder.
3. Enter this command at the Linux prompt:

   ```
   rm -rf matlabroot
   ```

   where *`matlabroot`* represents the name of your top-level MATLAB installation folder.

Uninstalling Products on Macintosh Systems

Note 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 .

To remove a MATLAB installation:

1. Get the user name and password of the administrator account on the Macintosh system. Depending on where you installed MATLAB software, you might need administrator privileges to remove it.
2. Exit MATLAB and stop the license manager before removing a MATLAB installation. You can use the `lmdown` command to stop the license manager.
3. Navigate to your MATLAB installation folder. For example, the installation folder might be named `MATLAB_R2010b.app` in your `Applications` folder.

4 Drag your MATLAB installation folder to the trash, and then select **Empty Trash** from the **Finder** menu.

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 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. For information about removing an installation, see "Removing (Uninstalling) MathWorks Products" on page 1-61.

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

1. Start the deactivation application using any of the following methods.
   - Choose to start deactivation after running the uninstaller.
   - Choose to start deactivation after a validation check that finds the installation is inactive.
   - Choose the deactivate option from the **Help > Licensing** menu in the MATLAB desktop.
   - Navigate to your MATLAB installation folder. *`matlabroot`*, and launch the deactivation application executable.

Windows Systems:
matlabroot\uninstall\bin\win32\deactivate_matlab.exe

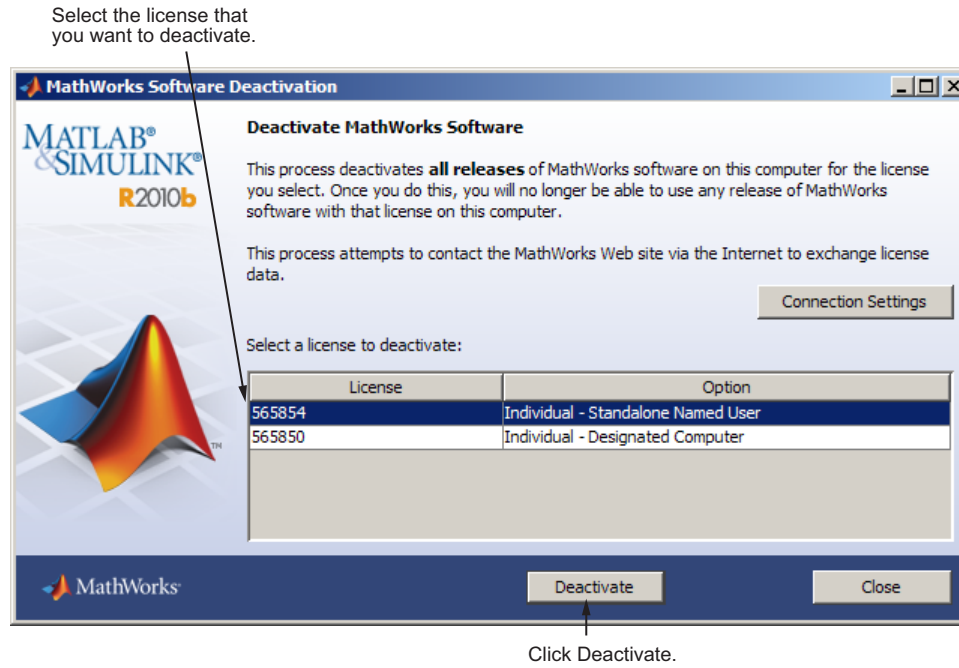
Linux Systems
matlabroot/bin/deactivate_matlab.sh

Macintosh Systems
/Applications/MATLAB_R2010b.app/bin/deactivate_matlab.sh

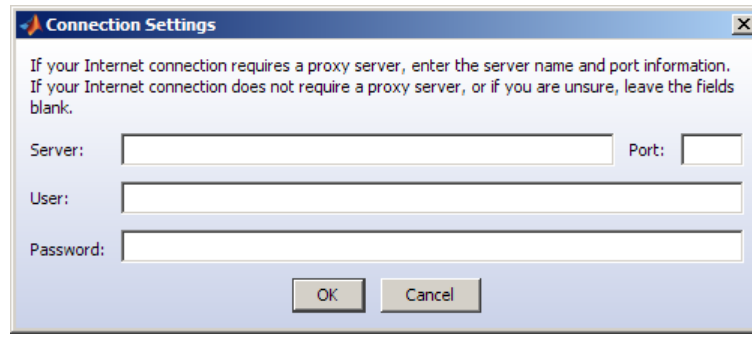
- On Windows systems, you can also click the **Start** menu and choose **Programs > MATLAB > R2010b > Deactivate MATLAB R2010b**

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

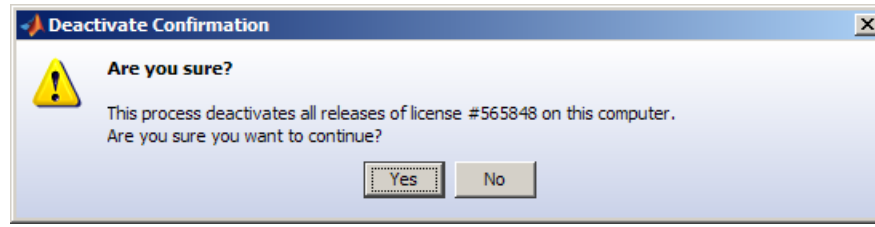
When the deactivation application starts, it displays the licenses you currently have installed and activated on your system. If you start the application from within MATLAB, the license you are using is preselected.



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.

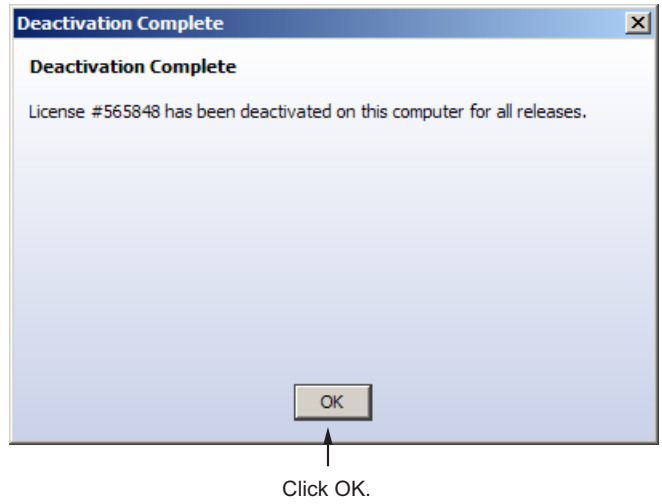


3 Confirm deactivation. Click **Yes** and the deactivation application attempts to contact MathWorks.



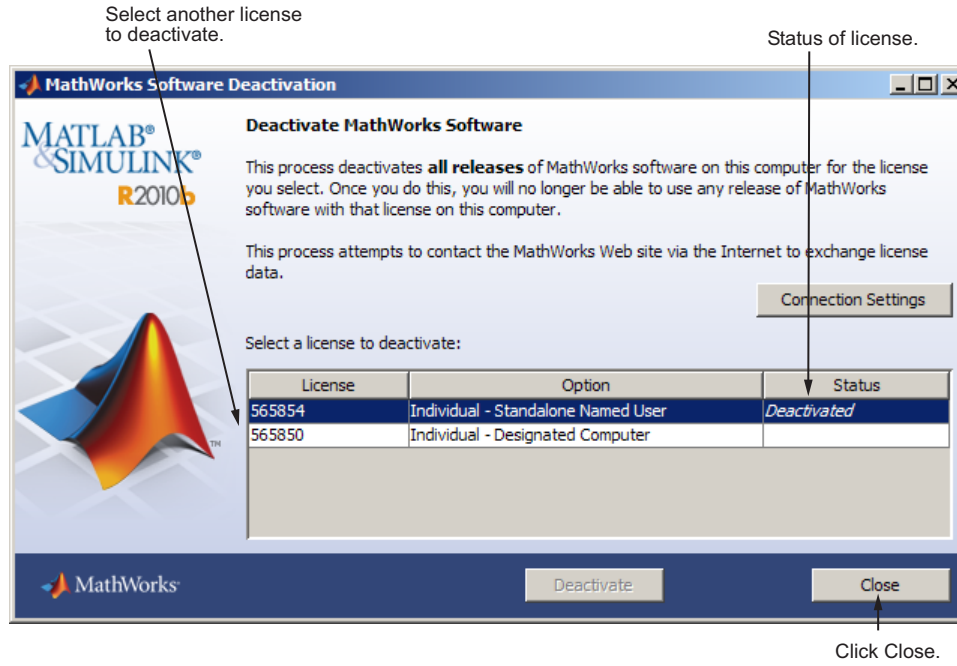
4 Complete deactivation. Click **OK**.

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.



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 with the deactivation string. See the License Center help for more information. Click **OK** to return to the MathWorks Software Deactivation dialog box.

5 After you deactivate a license, the MathWorks Software Deactivation dialog box displays an additional column listing the status of the licenses. To deactivate another license, select it from the list and click **Deactivate**. If you are finished, click **Close** to exit the deactivation application.


Select another license to deactivate.
Status of license.
MathWorks Software Deactivation
MATLAB®
&SIMULINK®
R2010b
Deactivate MathWorks Software
This process deactivates all releases of 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 contact the MathWorks Web site via the Internet to exchange license data.
Connection Settings
Select a license to deactivate:
License
Option
Status
565854
Individual - Standalone Named User
Deactivated
565850
Individual - Designated Computer
MathWorks
Deactivate
Close
Click Close.

System Requirements

In this section...
"Windows Systems" on page 1-73
"Macintosh Systems" on page 1-74
"Linux Systems" on page 1-74

Note For the most up-to-date information about system requirements, go to the MathWorks Web site (`www.mathworks.com`).

- 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.

Windows Systems

32-Bit and 64-Bit MathWorks Products

Operating System	Processors	Disk Space	RAM
Windows XP Service Pack 3 Windows XP x64 Edition Service Pack 2 Windows Server 2003 R2 with Service Pack 2 Windows Vista™ Service Pack 1 or 2 Windows Server 2008 Service Pack 2 or R2 Windows 7	Any Intel® or AMD x86 processor supporting the SSE2 instruction set	1 GB (MATLAB only) 3-4 GB for a typical installation	1024 MB (At least 2048 MB recommended)

Macintosh Systems

32-Bit and 64-Bit MathWorks Products

Operating System	Processors	Disk Space	RAM
Mac OS X 10.5.5 (Leopard) and above Mac OS X 10.6.x (Snow Leopard)	All Intel based Macintosh computers an Intel Core 2 or later	1 GB (MATLAB only) 3-4 GB for a typical installation	1024 MB (At least 2048 MB recommended)

Linux Systems

32-Bit and 64-Bit MathWorks Products

Operating System	Processors	Disk Space	RAM
Qualified distributions*: Debian 5.x Red Hat Enterprise Linux 5.x SUSE Linux Enterprise Desktop 11.x Ubuntu 9.10 and 10.04 LTS	Any Intel or AMD x86 processor supporting the SSE2 instruction set.	1 GB (MATLAB only) 3-4 GB for a typical installation	1024 MB (At least 2048 MB recommended)

* 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.

2

Installing Network License Options

This topic describes how to install and activate MathWorks products on computers in a network configuration, such as Concurrent or Network Named User. The computers can be running any of the following operating systems:

- Microsoft Windows operating system (32-bit or 64-bit)
- Linux operating system (32-bit or 64-bit)
- Mac OS X operating system

For information about performing standalone installations of MathWorks products, see Chapter 1, “Standard Installation and Activation Procedures”.

- “Overview” on page 2-2
- “Installing the License Manager on a Server” on page 2-4
- “Installing MathWorks Software on Client Systems” on page 2-26
- “After a Network Install” on page 2-48
- “Installing Noninteractively (Silent Installation)” on page 2-58

Overview

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 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 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 folders and use your existing installed license manager. See "Installing the License Manager on a Server" on page 2-4 for step-by-step instructions.

- **Installing MathWorks products on a server** — If your configuration calls for users to use MathWorks products from a central location, rather installing the products on their local system, you must install the product files on a server. If this server is the same system as your license server (it doesn't have to be), 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. See "Installing MathWorks Software on Client Systems" on page 2-26

Instead of performing the installation procedures interactively, providing the information requested by each dialog box, you can run the installer noninteractively. In this mode, you enter into a properties file all the information you would normally provide using the installer dialog boxes. For more information, see "Installing Noninteractively (Silent Installation)" on page 2-58.

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.

Installing the License Manager on a Server

In this section...

"Before You Install" on page 2-4
"Step 1: Start the Installer" on page 2-7
"Step 2: Choose Whether To Install Using the Internet" on page 2-8
"Step 3: Review the Software License Agreement" on page 2-10
"Step 4: Log In to Your MathWorks Account" on page 2-11
"Step 5: Select the License You Want to Install" on page 2-13
"Step 6: Choose to Perform a Custom Installation" on page 2-14
"Step 7: Specify the Installation Folder" on page 2-15
"Step 8: Specify Products to Install" on page 2-16
"Step 9: Specify the Location of the License File" on page 2-18
"Step 10: Configure the License Manager" on page 2-19
"Step 11: Confirm Your Choices" on page 2-21
"Step 12: Complete the Installation" on page 2-24
"Step 13: Making Products and Licensing Information Available to Clients" on page 2-24

Note If your configuration calls for the license manager and MATLAB software to run on the same server, you can perform both installations at the same time.

Before You Install

Before you run the installation program:

- 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.

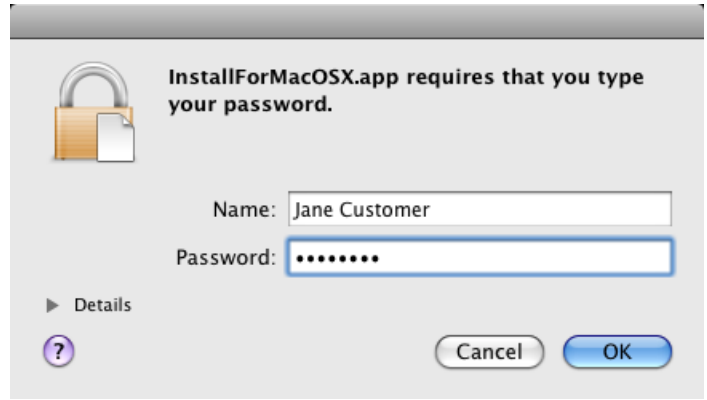
If you don't have a MathWorks Account, you can create one during installation. However, you must have an *Activation Key*. An Activation Key is the unique code that identifies a license. It is used to activate the license. The Activation Key also allows licensed end users to associate their MathWorks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

- Have your License File handy. For network configurations, you activate the license before you run the installer on the server. Visit the License Center at the MathWorks Web site, providing the host ID of the computer on which you intend to run the license manager. MathWorks creates a License File that you can download from the License Center. You specify this License File during installation of the license manager on the server. Only the administrator contact on a network license option can activate the software.
- Shut down the license manager, if it is running. See "Starting the License Manager" on page 2-48 for more information.
- Make sure you have the correct permissions to perform the installation. If you have questions about this, ask your system administrator.

Note While you use an administrator account or root privileges to install the software, you typically do not want to activate the software for a privileged user. Specify the non-privileged end user who will use the software when you activate it. Running MATLAB as a user with administrator privileges or root privileges is not recommended.

  - **Windows Systems** — Get the name and password of the administrator account on your computer. The installer modifies the system registry during installation.
  - **Linux Systems** — Get the root password. You can install MATLAB software without superuser privileges, however, it limits certain installation options. For example, if you want to setup symbolic links to the `matlab` command, install product files in a protected folder, or edit the system boot script, you must have superuser status.
  - **Macintosh Systems** — Get the name and password of the administrator account on your computer. The administrator account is the user account you set up when you configured your Macintosh system; this is not your

MathWorks Account. During installation, you must enter this name and password in the Authenticate dialog box, shown below.



- Consider disabling virus checking software and Internet security applications on your system for the duration of the installation process. These applications can slow down or cause the installation process to appear to become unresponsive (hang).

You only need to install the license manager once at a site. For information about installing MathWorks software on clients, see "Installing MathWorks Software on Client Systems" on page 2-26.

If You Are Upgrading an Existing Installation

If you are upgrading your MATLAB installation to the latest release, MathWorks recommends that you install the new version in a new installation folder. You should also install into a new folder when upgrading an installation of a prerelease version of the software, as well. You do not need to delete an existing MATLAB installation before installing this release. You can run multiple releases of MATLAB on the same system.

Note If you are installing the license manager in a new folder, you should either remove the license manager service before running the installer or choose to not configure the license manager. You cannot run two license managers at the same time, even if they are in different folders.

Step 1: Start the Installer

The method you use to start the installer, depends on your platform.

- **Windows Systems** — Insert the DVD into the DVD drive connected to your system or double-click the installer file you downloaded from the MathWorks Web site. The installer should start automatically.
- **Linux Systems** — Insert the DVD into the DVD drive connected to your system and execute the following command:

```
/path_to_dvd/install &
```

If you are installing from downloaded files, extract the installer from the archive file and execute the installer command:

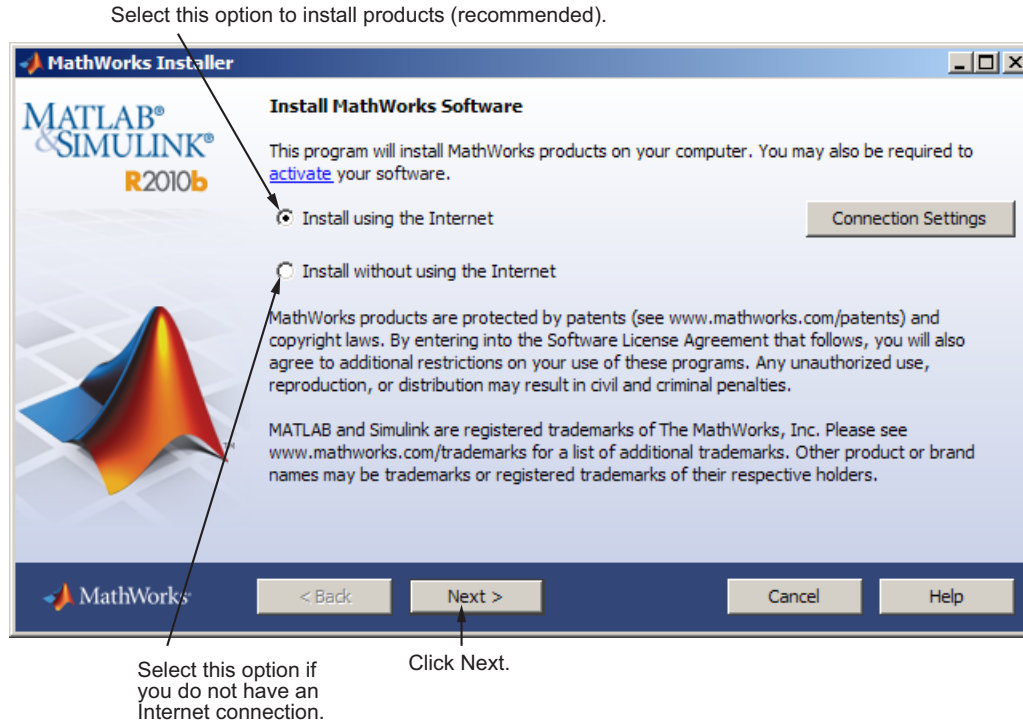
```
./install
```

- **Macintosh Systems** — Insert the MathWorks DVD into the DVD drive connected to your system or download product files from the MathWorks Web site. When the DVD icon appears on the desktop, double-click the icon to display the DVD contents, and then double-click the `InstallForMacOSX` icon to begin the installation.

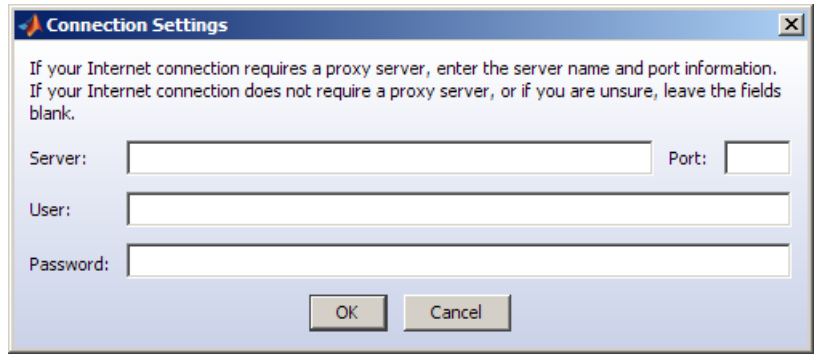
Step 2: Choose Whether To Install Using the Internet

Choose whether you want to install using an Internet connection or without using an Internet connection. If you are connected to the Internet, leave the **Install using the Internet** option selected (the default) and click **Next**. During installation, you log in to your MathWorks Account, select the license you want to install, and follow the prompts on the other installer dialog boxes. This is the easiest way to install.

If you are not connected to the Internet connection during installation, choose the **Install without using the Internet** option and click **Next**.


Select this option to install products (recommended).
MathWorks Installer
MATLAB®
&SIMULINK®
R2010b
Install MathWorks Software
This program will install MathWorks products on your computer. You may also be required to activate your software.
Install using the Internet
Connection Settings
Install without using the Internet
MathWorks products are protected by patents (see www.mathworks.com/patents) and copyright laws. By entering into the Software License Agreement that follows, 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.
MathWorks
< Back
Next >
Cancel
Help
Select this option if you do not have an Internet connection.
Click Next.

If your Internet connection requires a proxy server, click the **Connection Settings** button. You can enter the server name, port, and password in the Connection Settings dialog box. MathWorks supports several types of proxy configurations: Basic authentication and Digest authentication.



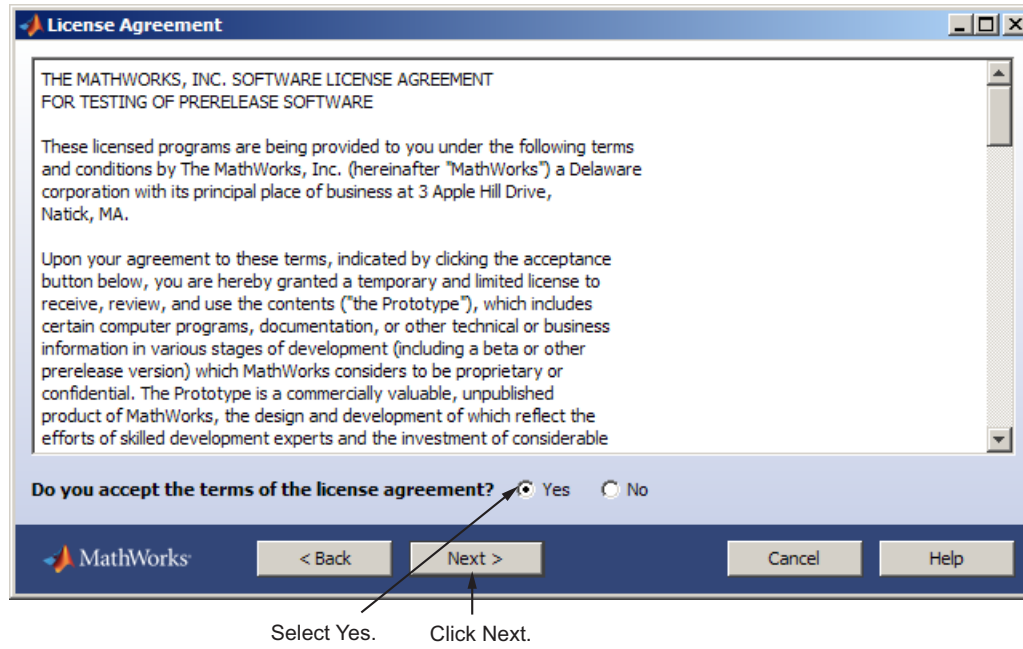
Related Topics

If you do not have an Internet connection during installation, see "Installing and Activating Without an Internet Connection" on page 1-37. Note that a network installation has additional steps.

Step 3: Review the Software License Agreement

Review the software license agreement and, if you agree with the terms, select **Yes** and click **Next**.

After the installation is complete, you can view or print the license agreement using the file `license.txt` located in the top-level installation folder.



Step 4: Log In to Your MathWorks Account

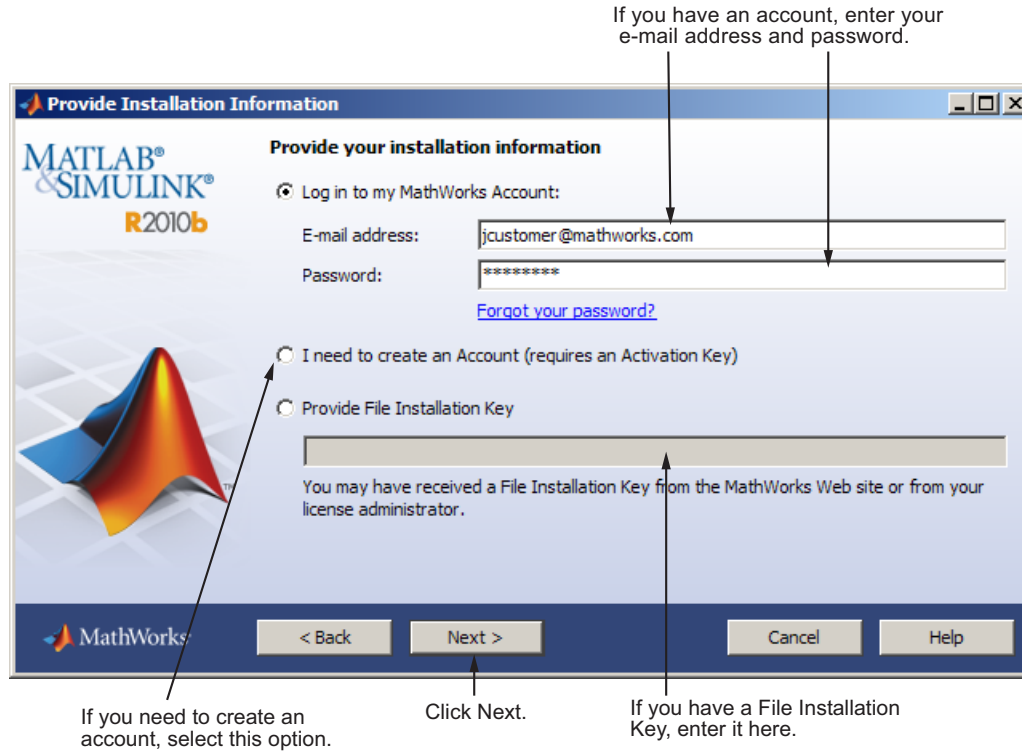
Note Only the administrator contact on a license can activate a network license.

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

If you do not have a MathWorks Account, select the **I need to create a MathWorks Account** option and click **Next**. You can enter the data needed to create one.

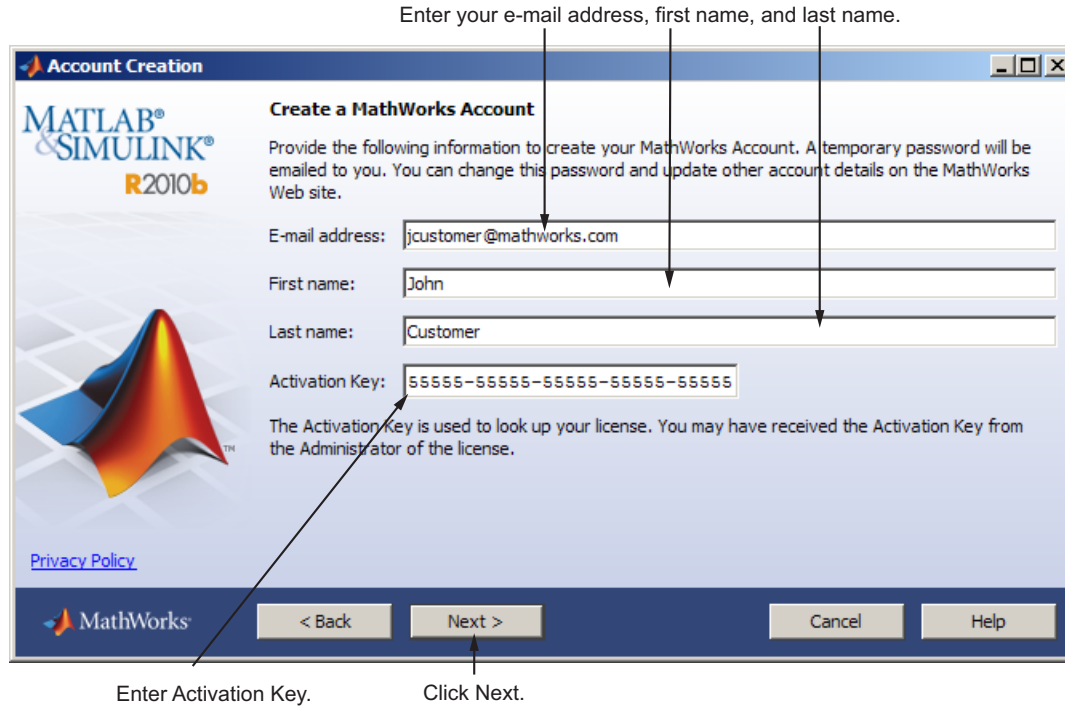
If you have a File Installation Key, select the **Provide File Installation Key** option and enter your key. A *File Installation Key* identifies the products you can install. The administrator on a license can retrieve the File Installation

Key from the License Center at the MathWorks Web site. If you specify a File Installation Key, the installer skips the license selection step.



Creating a MathWorks Account

To create an account, enter your e-mail address, first name, last name, and Activation Key. You must provide an Activation Key because a newly created account will not have any licenses associated with it. 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 **Next** to create your account.



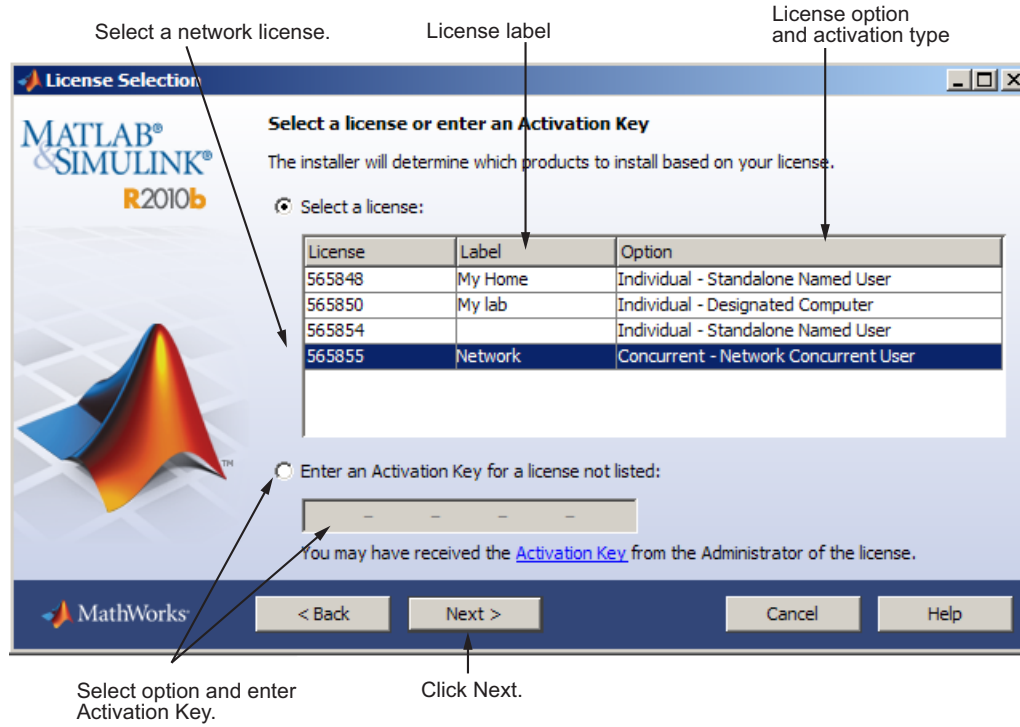
Because the Activation Key you entered specifies a particular license, the installer skips the license selection step.

Step 5: Select the License You Want to Install

Select a license with one of the network license options from the list of licenses associated with your MathWorks Account and click **Next**. The list contains the following information about the licenses:

- License number.
- An optional descriptive text label that can help identify the 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. For server installation, select a license with one of the network license options. If you haven't set the activation type, the word "Unset" appears.

If you want to install products on a license that is not associated with your MathWorks Account, select the **Enter an Activation Key for a license not listed** option, enter an Activation Key, and click **Next**.

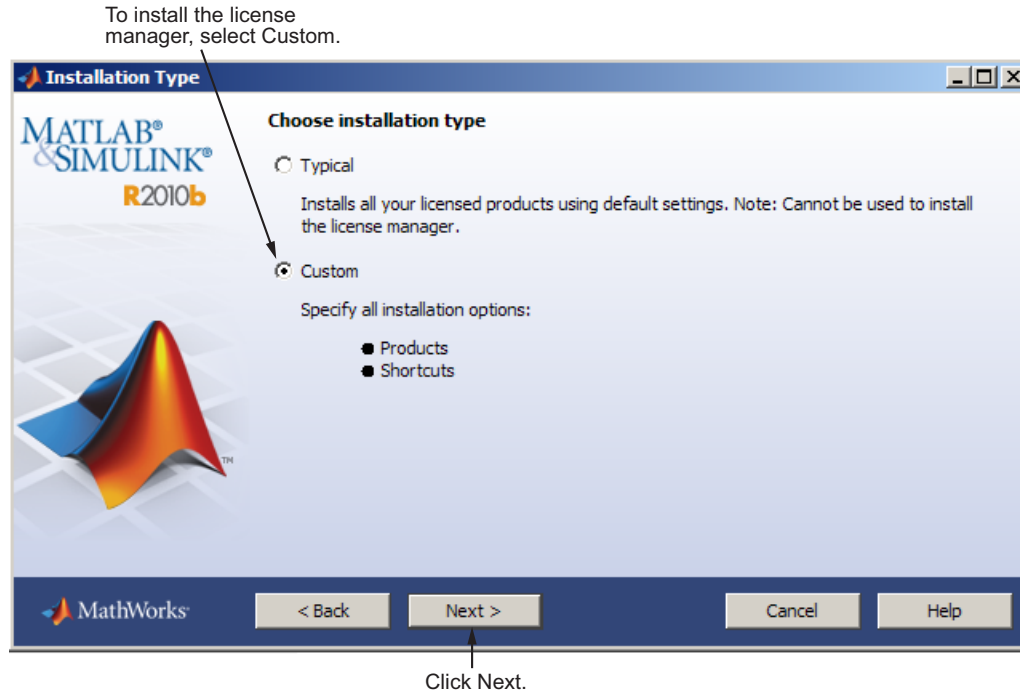


What Is an Activation Key?

An *Activation Key* is the unique code that identifies a license. It can be used to activate a license and also allows licensed end users to associate their MathWorks Account with a license. Ask the administrator of the license for the Activation Key.

Step 6: Choose to Perform a Custom Installation

To install the license manager, you must choose the **Custom** option and click **Next**.

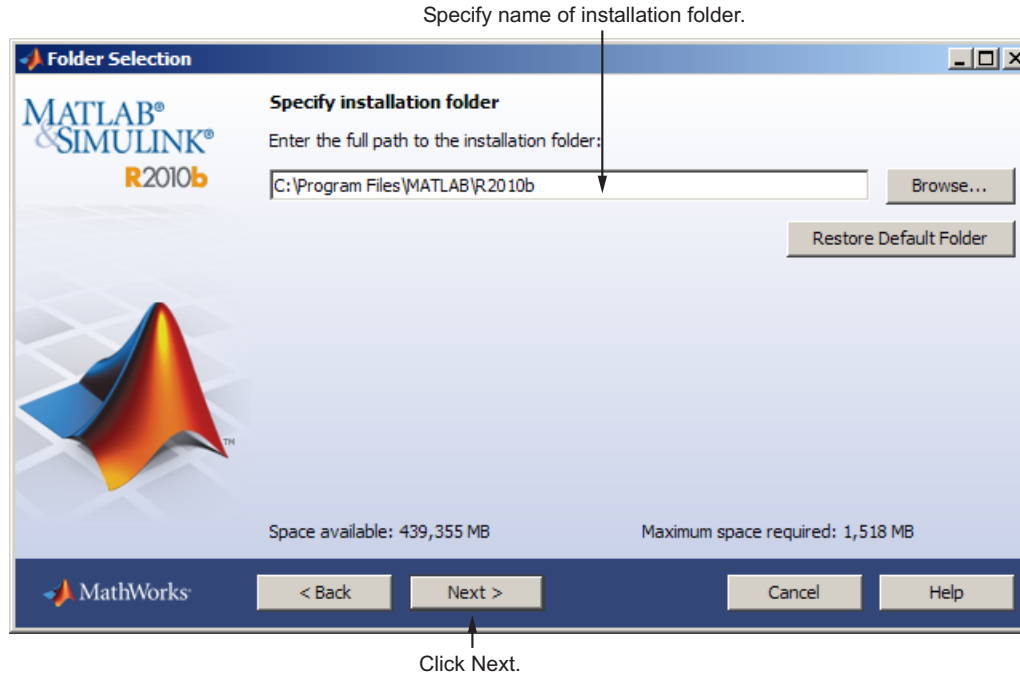


Step 7: Specify the Installation Folder

Specify the name of the folder where you want to install MathWorks products. Accept the default installation folder or click **Browse** to select a different one. If the folder doesn't exist, the installer creates it.

On Macintosh systems, the installer puts the MATLAB application package, `MATLAB_R2010b.app`, in the `Applications` folder, by default.

When specifying a folder name, you can use any alphanumeric character and some special characters, such as underscores. The installer will tell you if the name you specified includes any characters that are not permitted in file names. If you make a mistake while entering a folder name and want to start over, click **Restore Default Folder**. After making your selection, click **Next**.

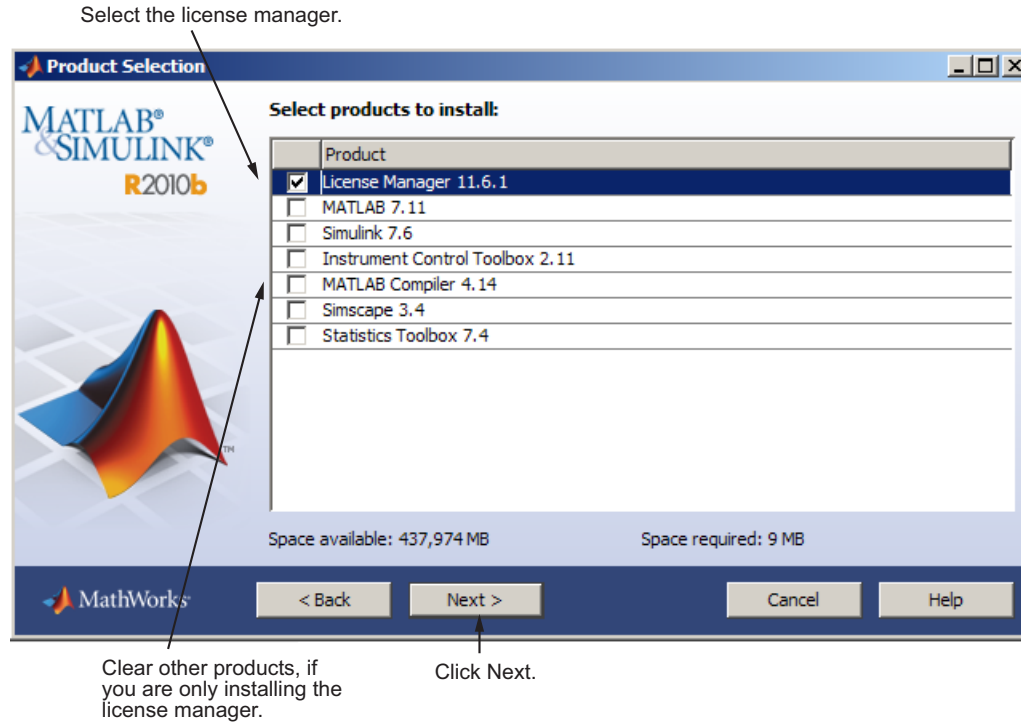


Step 8: Specify Products to Install

To install the license manager, you must select the license manager in the product list. By default, it is not selected for installation.

If you are only installing the license manager on your server, clear the check boxes next to the other products. If you are setting up a remote access configuration where users will run MathWorks products on a central server, and this central server is your license server, leave all the other products in the list selected for installation.

After making your selections, click **Next** to proceed with the installation. After clicking **Next**, you might receive a message telling you that one or more of the products you selected depend on other products. See “Product Dependencies” on page 3-5 for more information.

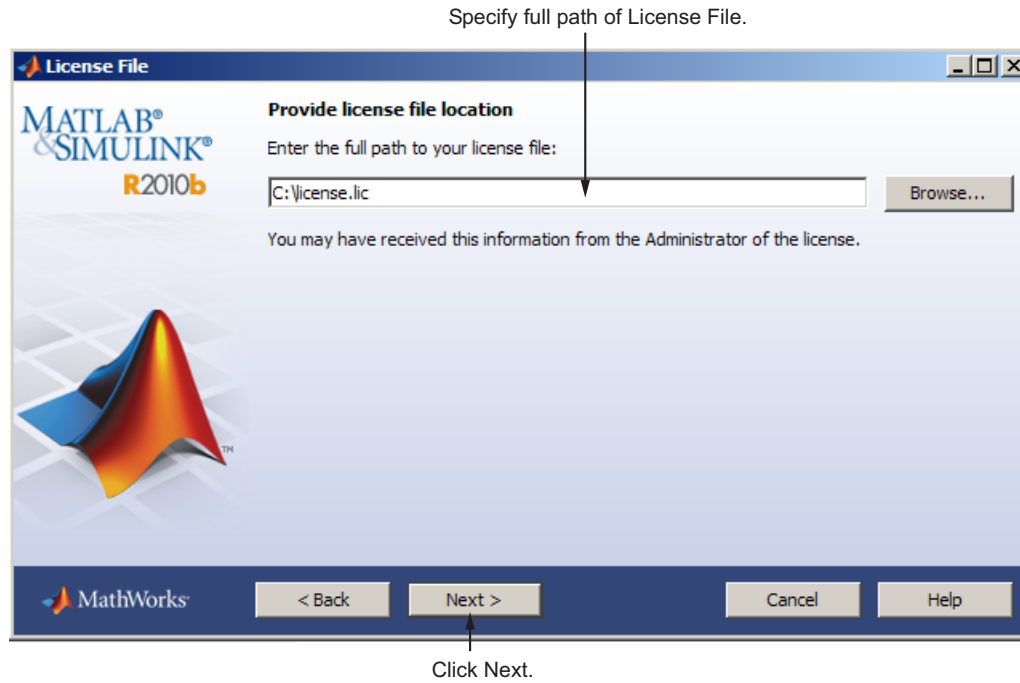

Select the license manager.
Product Selection
MATLAB®
&SIMULINK®
R2010b
Select products to install:
Product
License Manager 11.6.1
MATLAB 7.11
Simulink 7.6
Instrument Control Toolbox 2.11
MATLAB Compiler 4.14
Simscape 3.4
Statistics Toolbox 7.4
Space available: 437,974 MB
Space required: 9 MB
MathWorks
< Back
Next >
Cancel
Help
Clear other products, if you are only installing the license manager.
Click Next.

Step 9: Specify the Location of the License File

Enter the full path of your License File in the text box (or drag and drop the file) and click **Next**.

If you are installing the license manager on a server, specify the License File you retrieved from the License Center at the MathWorks Web site.

If you are installing MathWorks products on a client system in a network configuration, specify the License File that was processed by the installer when you installed the license manager on your server. During installation of the license manager, the installer adds server and daemon information to the License File, names it `license.dat`, and stores it in the *`matlabroot`*`/etc` folder, where *`matlabroot`* is your MATLAB installation folder.



License File Processing on Server

When you install the license manager on a server, you must specify the location of the License File you retrieved from the License Center at the MathWorks Web site. The installer performs the following processing of this License File:

- Makes a copy of your License File, naming it `license.dat.` , and puts this copy in the `\etc` folder of your MATLAB installation folder.
- Adds a `SERVER` line and a `DAEMON` line to the file. The `SERVER` line identifies the server (host and port number). The `DAEMON` line identifies the name of the license manager daemon.
- Stores the processed License File in *`matlabroot`*`/etc`, where *`matlabroot`* is your MATLAB installation folder.

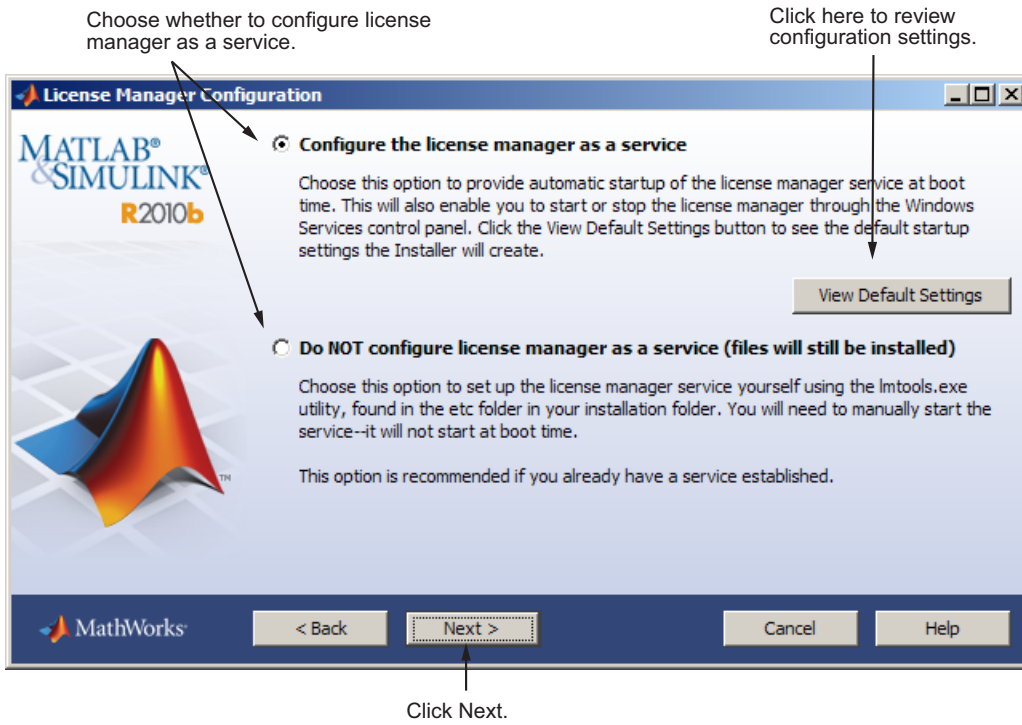
Step 10: Configure the License Manager

You configure the license manager in different ways, depending on which platform you are installing.

Windows Systems

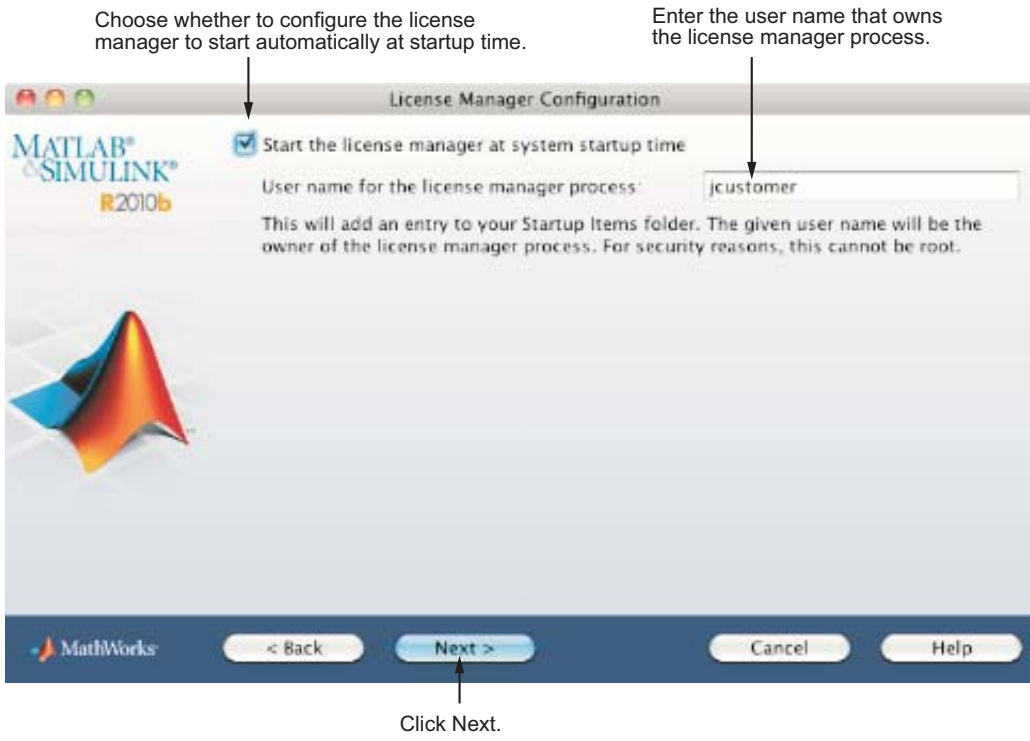
MathWorks recommends configuring the license manager service. This provides automatic startup at system boot time and centralizes administration of the license manager through the Windows **Services** control panel. To review the default license manager configuration settings, click **View Default Settings**. If you choose not to configure the license manager service, you can do it later.

Note If you have an existing license manager that you want to continue to use until you install this new one, select the **Do NOT configure license manager service** option. The installer still installs the license manager files. After installation, you can stop your existing license manager and start your new license manager.



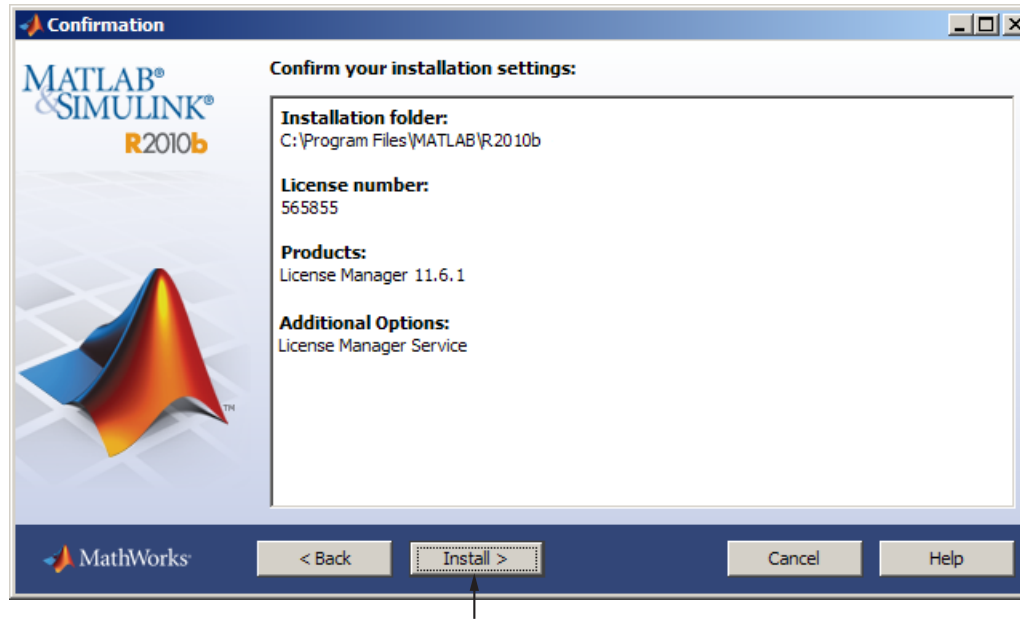
Macintosh Systems

To add an entry for the license manager to your system Startup Items folder, leave the option selected and click **Next**. Specify the user name that will own the license manager process. For security reasons, this name cannot be root.



Step 11: Confirm Your Choices

Before it begins copying files to your hard disk, the installer displays a summary of your installation choices. To change a setting, click **Back**. To proceed with the installation, click **Install**.

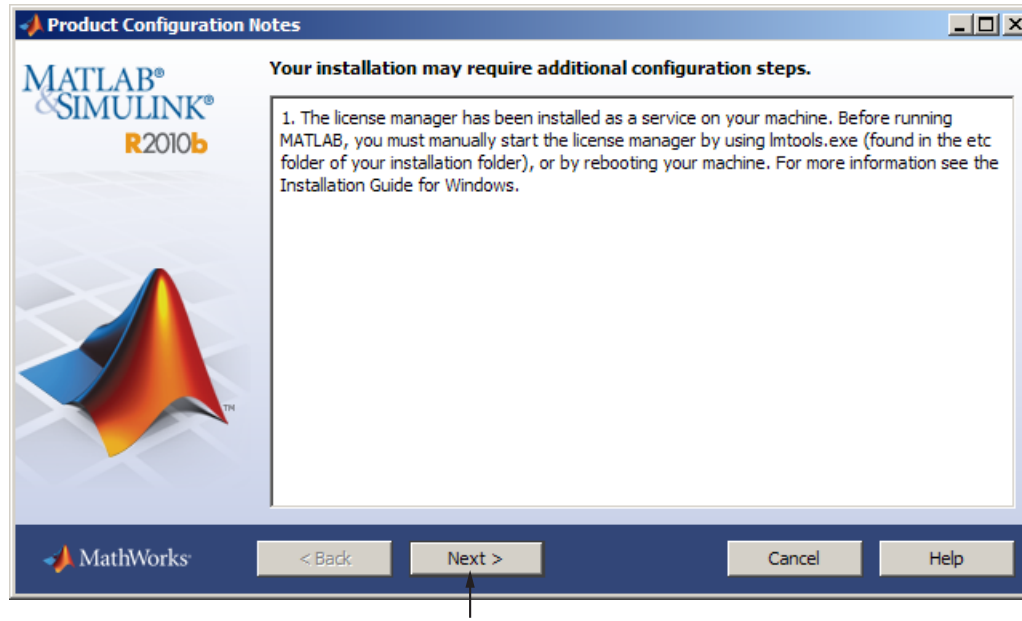


As it copies files to your hard drive, the installer displays a status dialog box to show the progress of the installation.

Read Product Configuration Notes

The installer includes information about how to start the license manager on your server. If you installed other products, you might also see some additional product configuration and product update information.

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

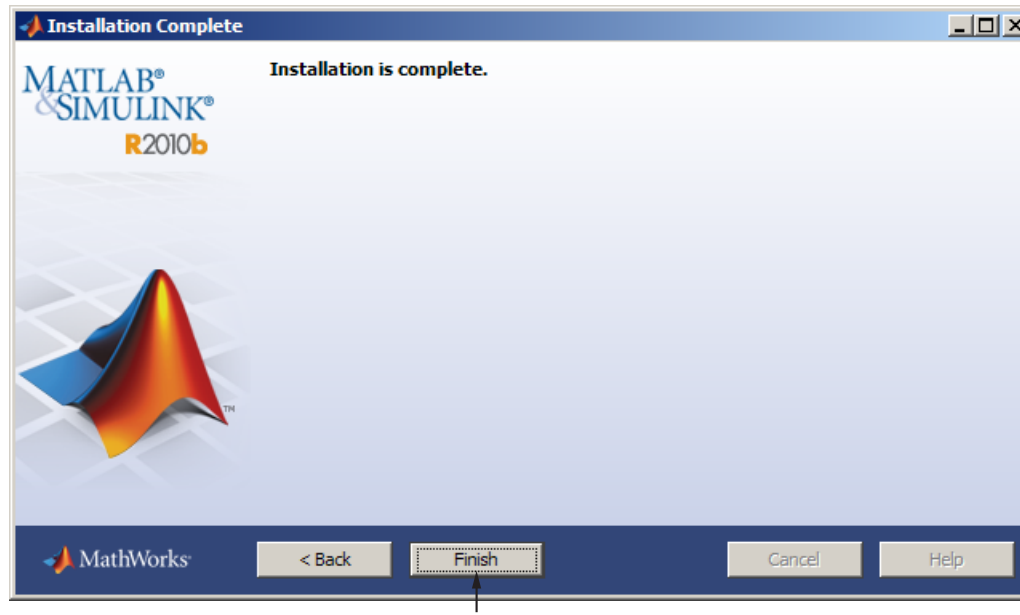

Product Configuration Notes
MATLAB®
&SIMULINK®
R2010b
Your installation may require additional configuration steps.
1. The license manager has been installed as a service on your machine. Before running MATLAB, you must manually start the license manager by using lmtools.exe (found in the etc folder of your installation folder), or by rebooting your machine. For more information see the Installation Guide for Windows.
MathWorks
< Back
Next >
Cancel
Help

Click Next.

Step 12: Complete the Installation

When the installer finishes, it displays the Installation Complete dialog box. Click **Finish** to exit the installer.

If you installed the license manager as a service, MathWorks recommends that you restart your computer now. The license manager must be running to start MATLAB on client systems. As a service, the license manager gets started automatically at system boot time.



Step 13: Making Products and Licensing Information Available to Clients

After you install the license manager on your server, you must provide users who want to install MathWorks products on their computers with:

- Licensing information — Give users a copy of the License File that was processed during installation of the license manager on your server. For

information about this License File, see "License File Processing on Server" on page 2-19.

Note Do not give users performing client installations a copy of the original License File you created from the licensing e-mail. They can't use the licensing information in this form. Also, do not forward to users the licensing e-mail you received from MathWorks.

Depending on how you provide access to product files, you must also give users performing client installations a File Installation Key for the license or the Activation Key for the license.

- Access to product files — There are several ways to make product files available to users performing client installations. You can share the MathWorks product DVD with users. You can also download the product files and make the files available on a server that is accessible to all clients. For these scenarios, users will need a File Installation Key to install products.

  If users performing client installations have MathWorks Accounts, you can give users the Activation Key for the license and let them log in to their accounts during installation and download product files from MathWorks.

- Installation instructions — Give users a copy of the instructions in "Installing MathWorks Software on Client Systems" on page 2-26. Do not give them the license manager installation instructions because this might confuse them.

Installing MathWorks Software on Client Systems

In this section...

"Before You Install" on page 2-26
"Step 1: Start the Installer" on page 2-28
"Step 2: Choose Whether to Install Using the Internet" on page 2-30
"Step 3: Review the Software License Agreement" on page 2-32
"Step 4: Log In to Your MathWorks Account" on page 2-33
"Step 5: Select the License You Want to Install" on page 2-35
"Step 6: Specify the Type of Installation" on page 2-37
"Step 7: Specify the Installation Folder" on page 2-38
"Step 8: Specify Products to Install" on page 2-39
"Step 9: Specify the Location of the License File" on page 2-40
"Step 10: Specify Installation Options (Custom Only)" on page 2-41
"Step 11: Confirm Your Choices" on page 2-44
"Step 12: Complete the Installation" on page 2-47

Before You Install

Get required installation and licensing information from your license administrator. This includes:

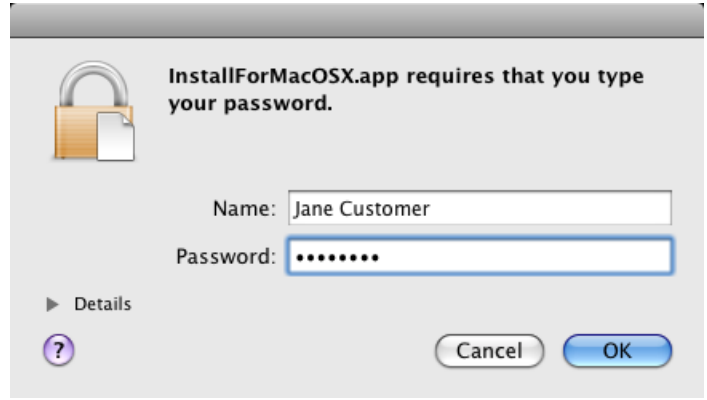
- Make sure you have your e-mail address and your MathWorks Account password handy. You will need them to log in to your account during installation. If you have multiple licenses associated with your account, know the number of the license you want to install.

  If you don't have a MathWorks Account, you can create one during installation. However, 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.

- Client installations must use the License File that was processed during installation of the license manager on your server. The installer adds information to the License File during installation that clients need. Depending on how your license administrator intends to provide you with access to product files, you will need either a File Installation Key or an Activation Key. Ask your license administrator for details.
- Shut down the license manager, if it is running. See "Starting the License Manager" on page 2-48 for more information.
- Make sure you have the correct permissions to perform the installation. If you have questions about this, ask your system administrator.

Note While you use an administrator account or root privileges to install the software, you typically do not want to activate the software for a privileged user. Specify the non-privileged end user who will use the software when you activate it. Running MATLAB as a user with administrator privileges or root privileges is not recommended.

- **Windows Systems** — Get the name and password of the administrator account on your computer. The installer modifies the system registry during installation.
- **Linux Systems** — Get the root password. You can install MATLAB software without superuser privileges, however, it limits certain installation options. For example, if you want to setup symbolic links to the `matlab` command, install product files in a protected folder, or edit the system boot script, you must have superuser status.
- **Macintosh Systems** — Get the name and password of the administrator account on your computer. The administrator account is the user account you set up when you configured your Macintosh system; this is not your MathWorks Account. During installation, you must enter this name and password in the Authenticate dialog box, shown below.



- Consider disabling virus checking software and Internet security applications on your system for the duration of the installation process. These applications can slow down or cause the installation process to appear to become unresponsive (hang).

If you have many client installations to perform, you can create an installer initialization file and run the installer noninteractively—see "Installing Noninteractively (Silent Installation)" on page 2-58.

If You Are Upgrading an Existing Installation

If you are upgrading your MATLAB installation to the latest release, MathWorks recommends that you install the new version in a new installation folder. This is recommended when upgrading an installation of a prerelease version of the software as well. You do not need to delete an existing MATLAB installation before installing this release. You can run multiple versions of MATLAB on the same system.

Step 1: Start the Installer

The method you use to start the installer, depends on your platform.

- **Windows Systems** — Insert the DVD into the DVD drive connected to your system or double-click the installer file you downloaded from the MathWorks Web site. The installer should start automatically.
- **Linux Systems** — Insert the DVD into the DVD drive connected to your system and execute the following command:

```
/path_to_dvd/install &
```

If you are installing from downloaded files, extract the installer from the archive file and execute the installer command:

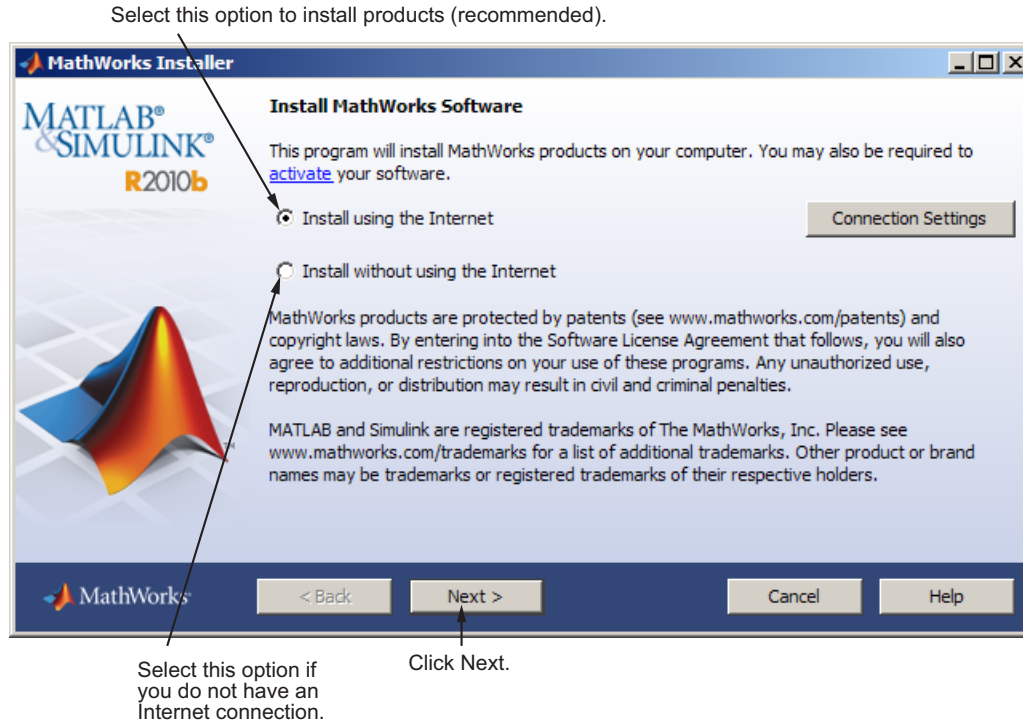
```
./install
```

- **Macintosh Systems** — Insert the MathWorks DVD into the DVD drive connected to your system or download product files from the MathWorks Web site. When the DVD icon appears on the desktop, double-click the icon to display the DVD contents, and then double-click the `InstallForMacOSX` icon to begin the installation.

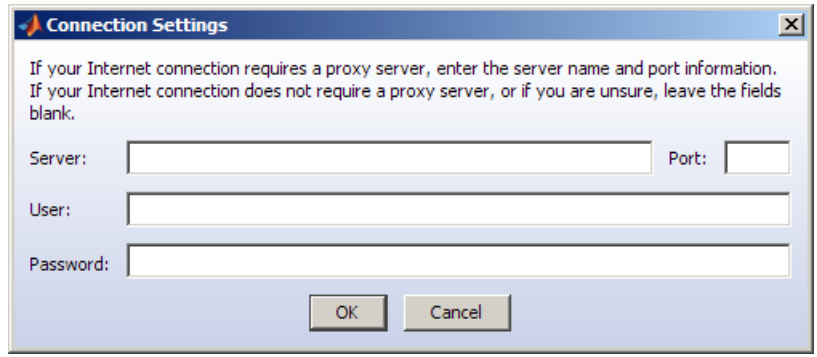
Step 2: Choose Whether to Install Using the Internet

Choose whether you want to install using an Internet connection or without using an Internet connection. If you are connected to the Internet, leave the **Install using the Internet** option selected (the default) and click **Next**. During installation, you log in to your MathWorks Account, select the license you want to install, and follow the prompts on the other installer dialog boxes. This is the easiest way to install.

If you are not connected to the Internet connection during installation, choose the **Install without using the Internet** option and click **Next**.


Select this option to install products (recommended).
MathWorks Installer
MATLAB®
&SIMULINK®
R2010b
Install MathWorks Software
This program will install MathWorks products on your computer. You may also be required to activate your software.
Install using the Internet
Connection Settings
Install without using the Internet
MathWorks products are protected by patents (see www.mathworks.com/patents) and copyright laws. By entering into the Software License Agreement that follows, 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.
MathWorks
< Back
Next >
Cancel
Help
Select this option if you do not have an Internet connection.
Click Next.

If your Internet connection requires a proxy server, click the **Connection Settings** button. You can enter the server name, port, and password in the Connection Settings dialog box. MathWorks supports several types of proxy configurations: Basic authentication and Digest authentication.



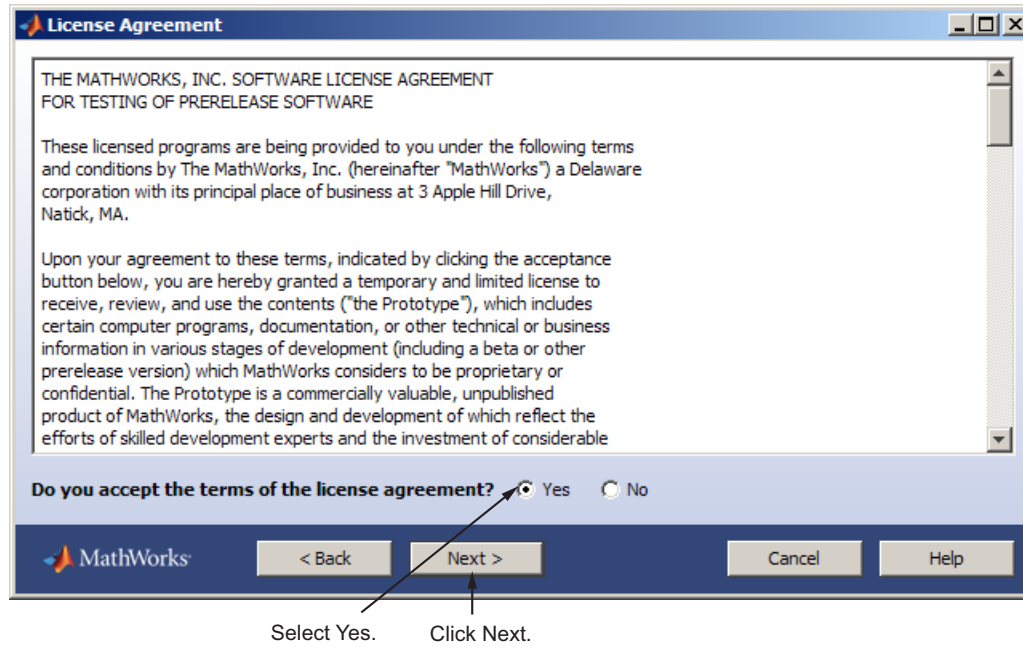
Related Topics

If you do not have an Internet connection during installation, see "Installing and Activating Without an Internet Connection" on page 1-37. Note that a network installation has additional steps.

Step 3: Review the Software License Agreement

Review the software license agreement and, if you agree with the terms, select **Yes** and click **Next**.

After the installation is complete, you can view or print the license agreement using the file `license.txt` located in the top-level installation folder.

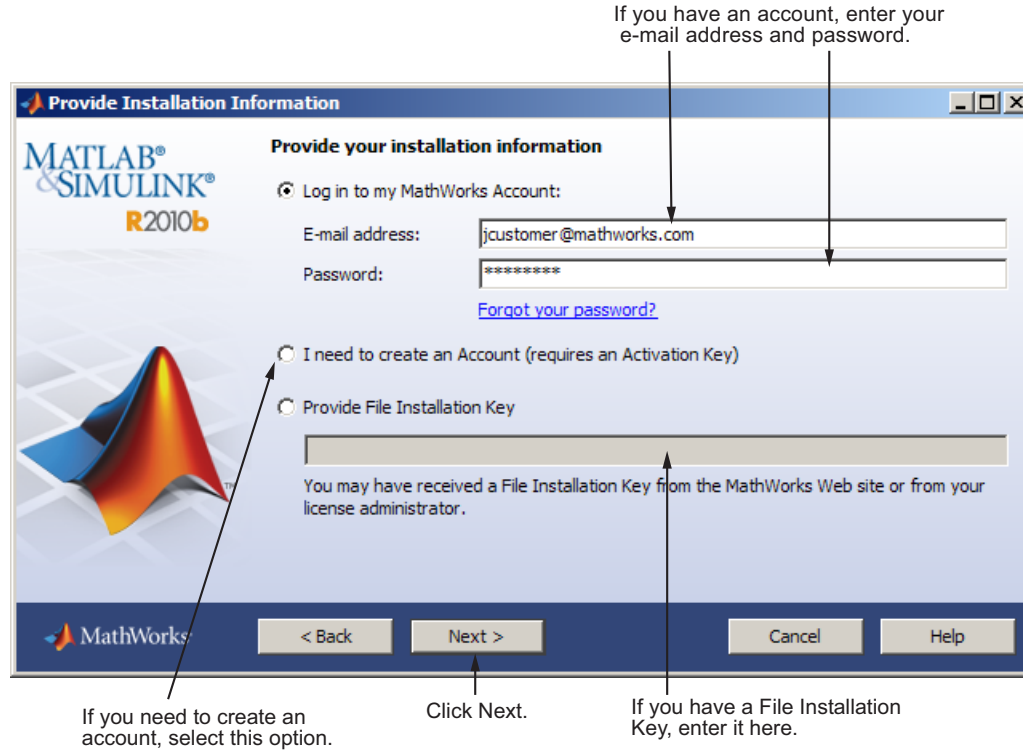


Step 4: Log In to Your MathWorks Account

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

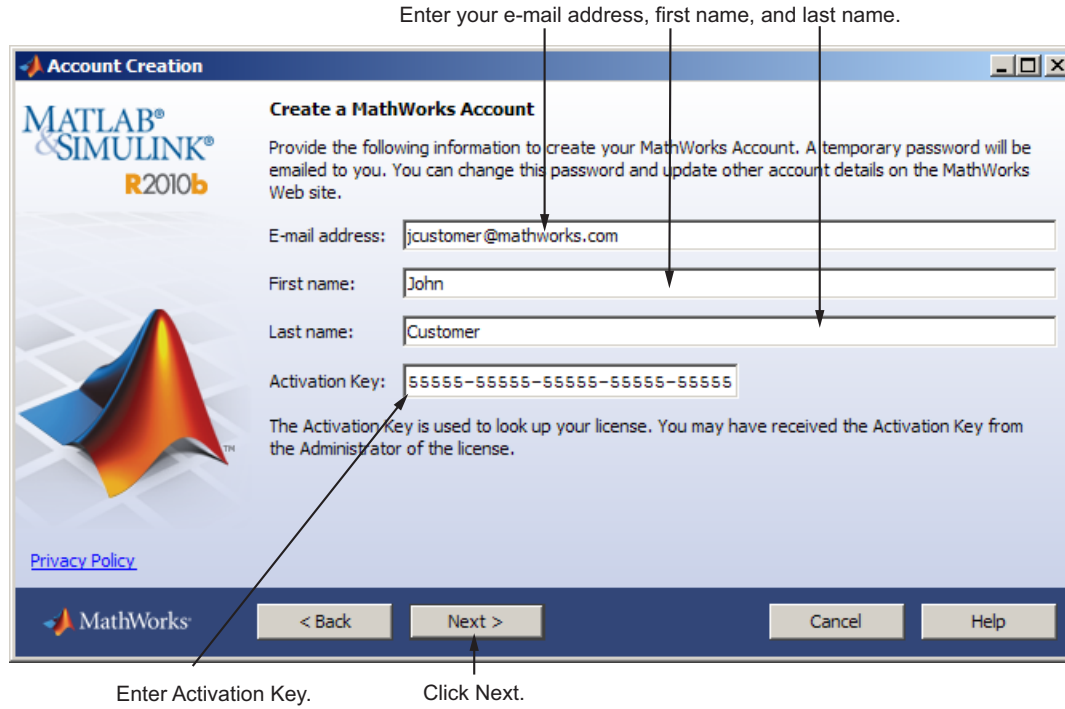
If you do not have a MathWorks Account, select the **I need to create a MathWorks Account** option and click **Next**. You can enter the data needed to create one.

If you have a File Installation Key, select the **Provide File Installation Key** option and enter your key. A *File Installation Key* identifies the products you can install. The administrator on a license can retrieve the File Installation Key from the License Center at the MathWorks Web site. If you specify a File Installation Key, the installer skips the license selection step.



Creating a MathWorks Account

To create an account, enter your e-mail address, first name, last name, and Activation Key. You must provide an Activation Key because a newly created account will not have any licenses associated with it. 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 **Next** to create your account.



Because the Activation Key you entered specifies a particular license, the installer skips the license selection step.

Step 5: Select the License You Want to Install

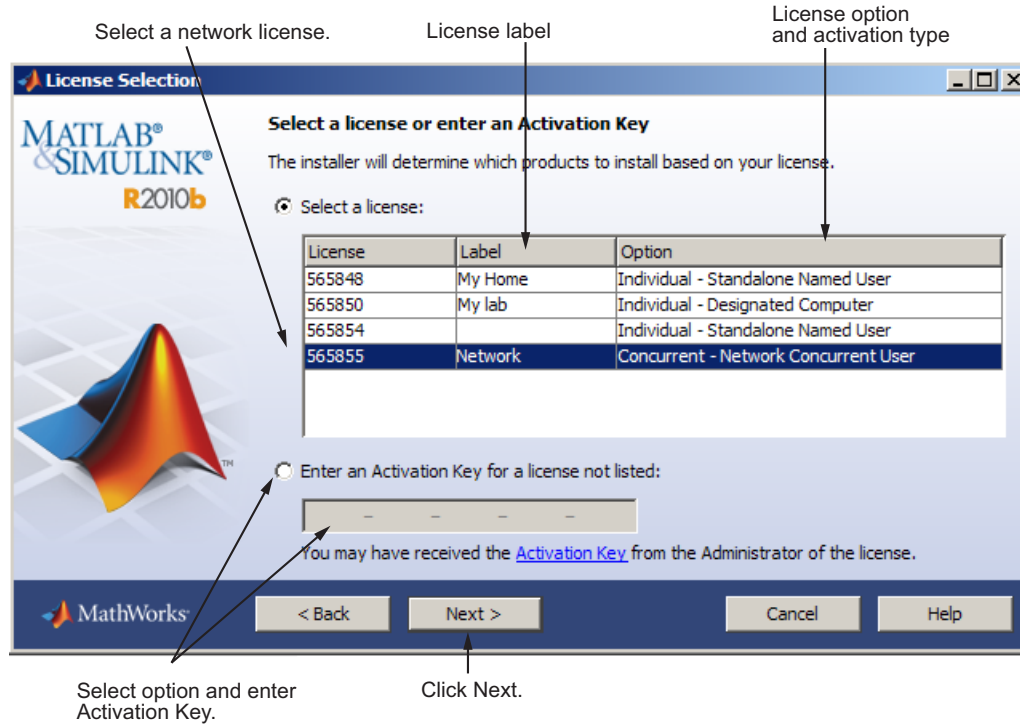
Note If you specified an Activation Key in the previous step, the installer skips this step.

Select a license from the list of licenses associated with your MathWorks Account and click **Next**. The list contains the following information about the licenses:

- License number.

- An optional descriptive text label that can help identify the 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.

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. An Activation Key is the unique code that identifies a license.

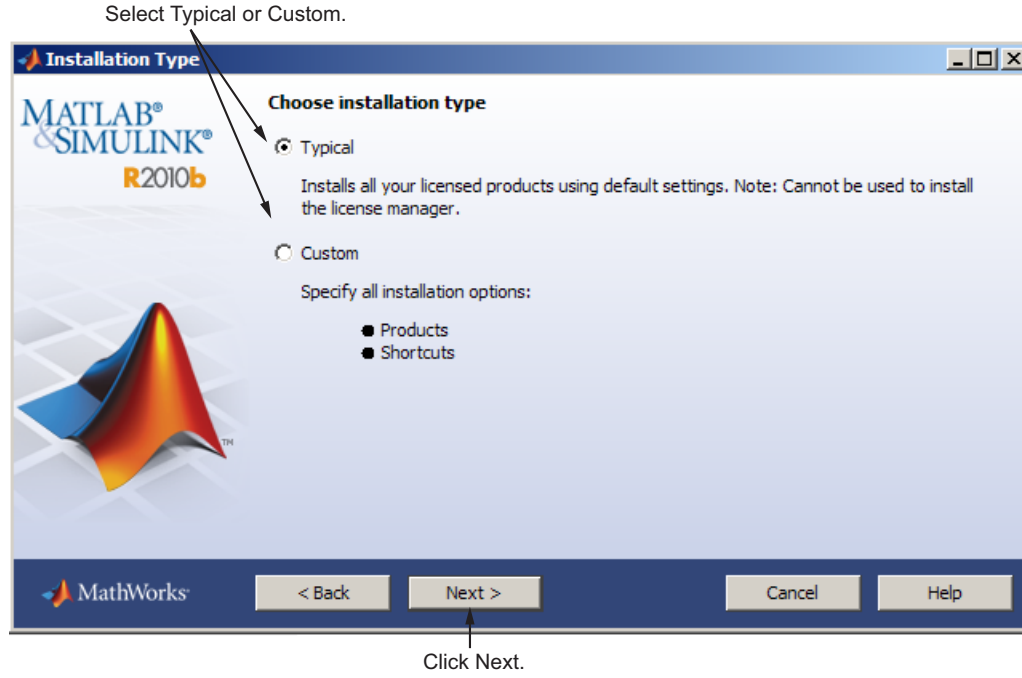


Step 6: Specify the Type of Installation

Note In a client installation, you can pick the Typical option because the license manager is not preselected for installation.

In the Installation Type dialog box, specify whether you want to perform a Typical or Custom installation and click **Next**.

- Choose **Typical** if you have an Individual or Group license and do not need to specify which products you want to install and do not need to access any installation options.
- Choose **Custom** if you need to specify which products to install, need access to installation options, or need to install the license manager (network license options only).



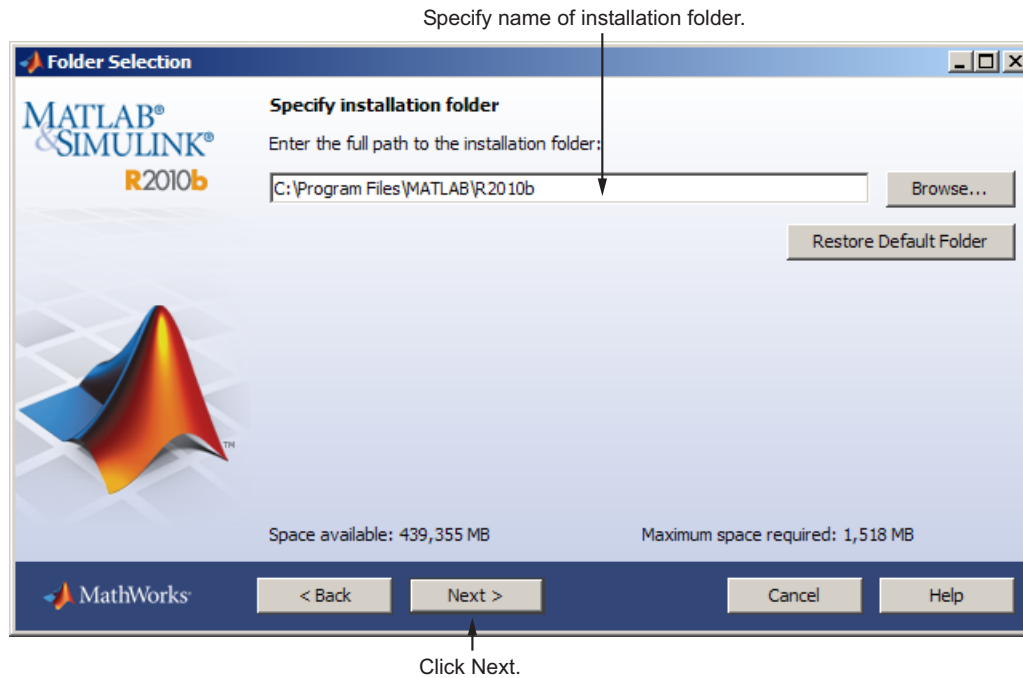
If you choose a Typical installation, the installer skips the product selection and installation options steps.

Step 7: Specify the Installation Folder

Specify the name of the folder where you want to install MathWorks products. Accept the default installation folder or click **Browse** to select a different one. If the folder doesn't exist, the installer creates it.

On Macintosh systems, the installer puts the MATLAB application package, `MATLAB_R2010b.app`, in the `Applications` folder, by default.

When specifying a folder name, you can use any alphanumeric character and some special characters, such as underscores. The installer will tell you if the name you specified includes any characters that are not permitted in file names. If you make a mistake while entering a folder name and want to start over, click **Restore Default Folder**. After making your selection, click **Next**.

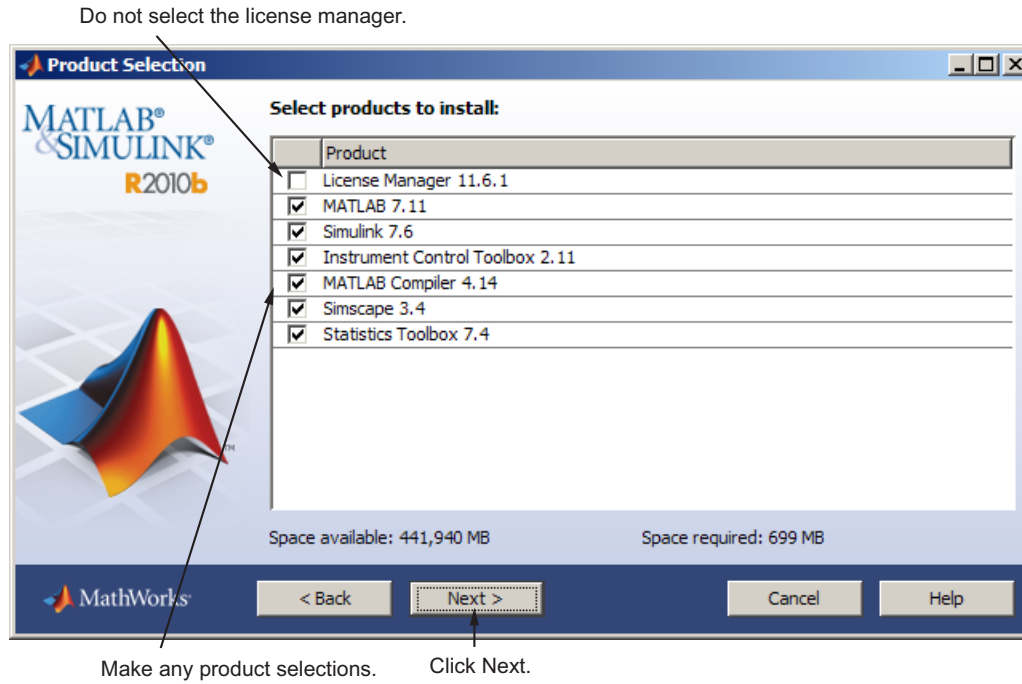


Step 8: Specify Products to Install

If you chose a custom installation, you can specify which products you want to install in the Product Selection dialog box. This dialog box lists all the products you are licensed to install. The products in the list are preselected for installation.

Note Do not install the license manager on client systems.

After making your selections, click **Next** to proceed with the installation. After clicking **Next**, you might receive a message telling you that one or more of the products you selected depend on other products. See "Product Dependencies" on page 3-5 for more information.

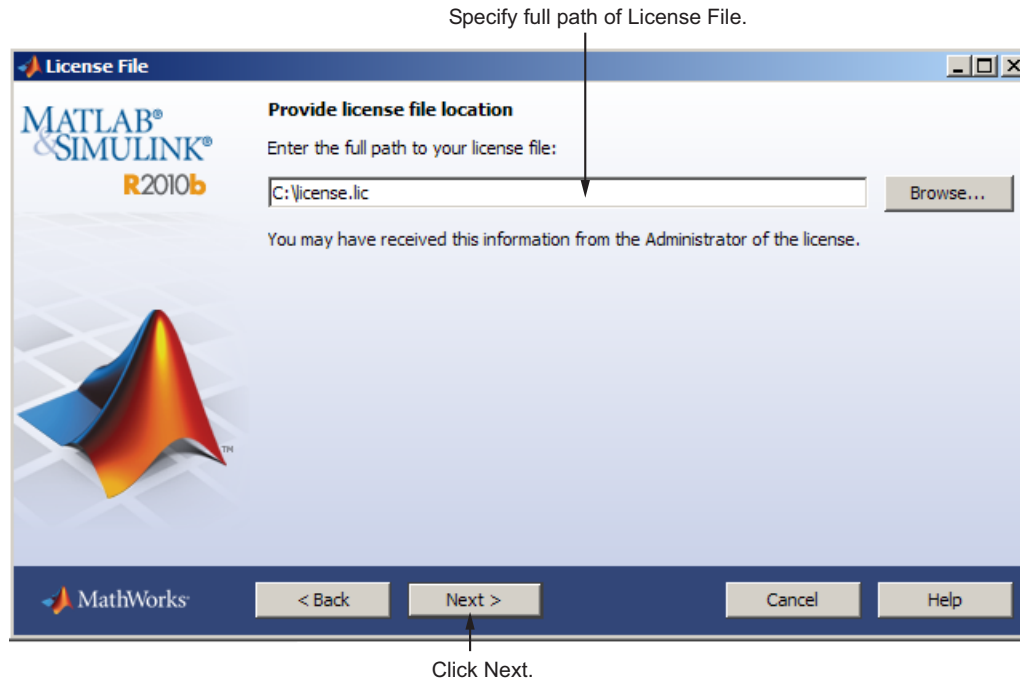


Step 9: Specify the Location of the License File

Enter the full path of your License File in the text box (or drag and drop the file) and click **Next**.

If you are installing the license manager on a server, specify the License File you retrieved from the License Center at the MathWorks Web site.

If you are installing MathWorks products on a client system in a network configuration, specify the License File that was processed by the installer when you installed the license manager on your server. During installation of the license manager, the installer adds server and daemon information to the License File, names it `license.dat`, and stores it in the *`matlabroot`*`/etc` folder, where *`matlabroot`* is your MATLAB installation folder.



License File Processing on Client

The installer performs the following processing of the License File on client systems:

- Creates a copy of the License File you specify, naming it `network.lic`, and puts the file in the `\licenses` folder in your MATLAB client installation folder.
- Deletes all the `INCREMENT` lines and the `DAEMON` line in the License File, leaving the `SERVER` line. Adds the statement `USE_SERVER` to the file.

Step 10: Specify Installation Options (Custom Only)

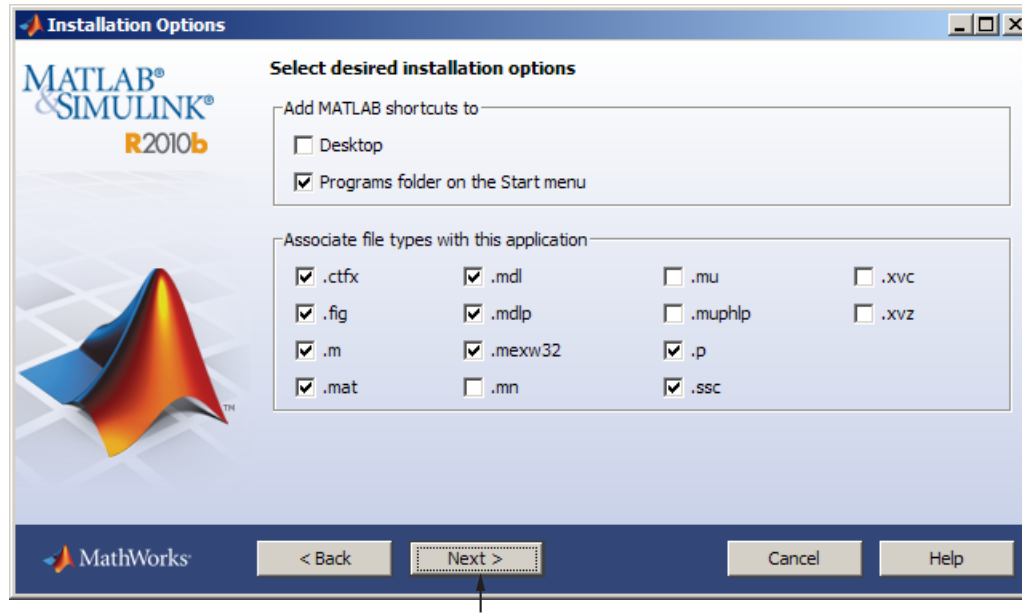
For Custom installations, you can specify several installation options, depending on which platform you are installing.

On Windows Systems

On Windows system, the Installation Options dialog box presents the following options:

- Determining whether the installer puts shortcuts for MATLAB software in the **Start** menu and on the desktop.
- Specifying which files the operating system associates with MATLAB, based on their file extension. The installer preselects the extensions associated with products you are installing.

After selecting installation options, click **Next** to proceed with the installation.



The following table provides brief descriptions of these file extensions.

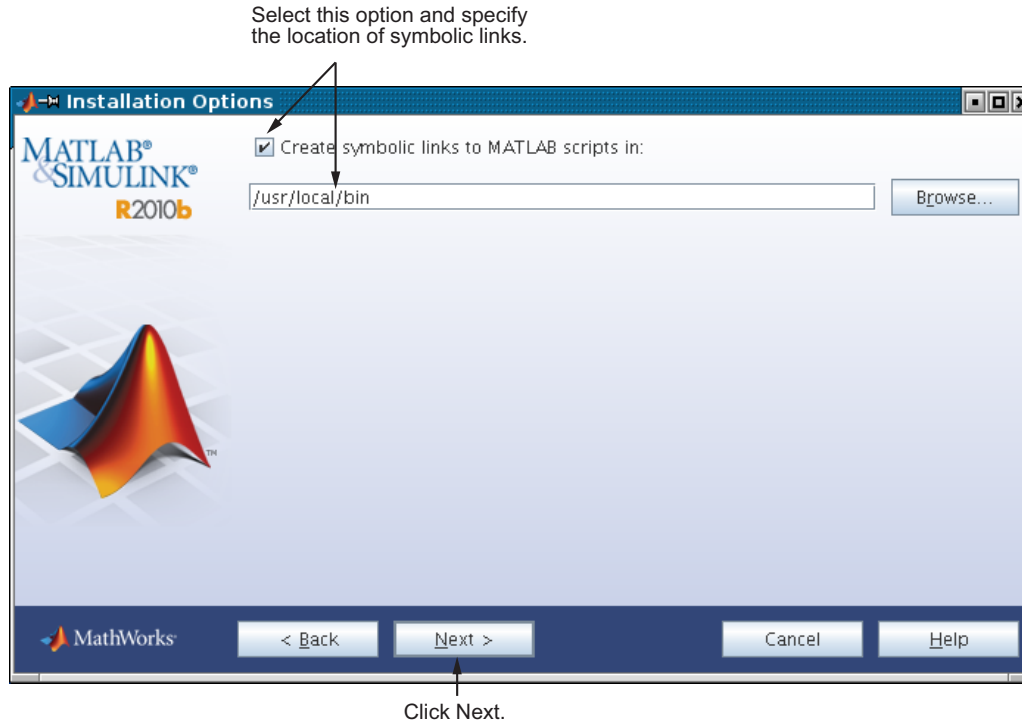
File Extension	Description
`.ctfx`	MATLAB Compiled Application
`.fig`	MATLAB Figure
`.m`	MATLAB Code
`.mat`	MATLAB Data
`.mdl`	Simulink Model
`.mdlp`	Simulink Protected Model
`.mex*`	MATLAB MEX. This extension is platform specific: `.mexw32` or `.mexw64`
`.mn`	MuPAD Notebook
`.mu`	MuPAD Code

File Extension	Description
`.muphlp`	MuPAD Help
`.p`	MATLAB P-code
`.ssc`	Simscape Model
`.xvc`	MuPAD Graphics
`.xvz`	MuPAD Graphics

On Linux Systems

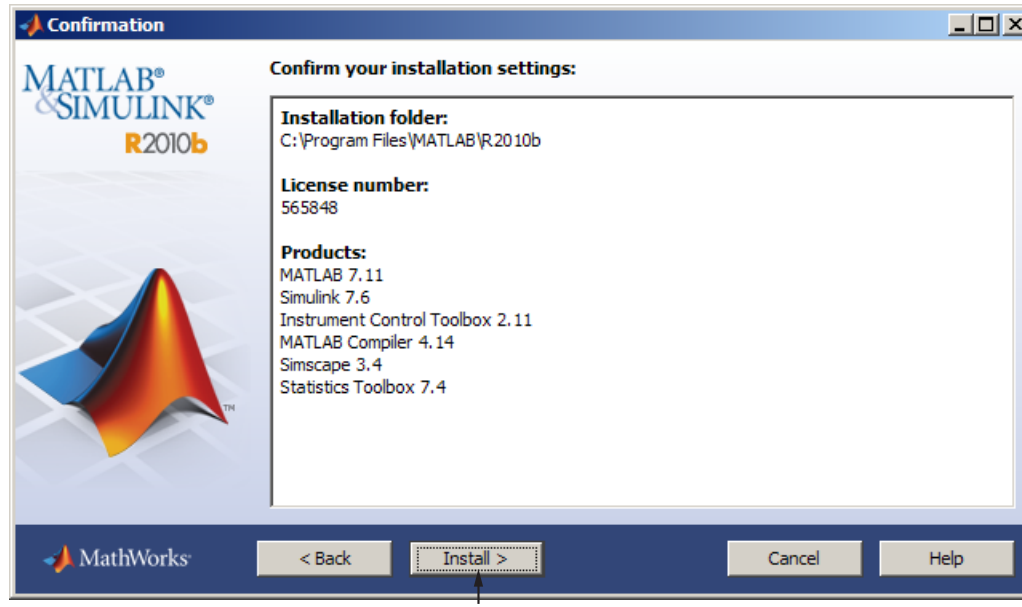
On Linux systems, you can specify whether you want to create symbolic links to the `matlab` and `mex` scripts. Specify a folder to which you have write access and that is common to all your user's paths, such as `/usr/local/bin` .

After selecting installation options, click **Next** to proceed with the installation.



Step 11: Confirm Your Choices

Before it begins copying files to your hard disk, the installer displays a summary of your installation choices. To change a setting, click **Back**. To proceed with the installation, click **Install**.



Click Install.

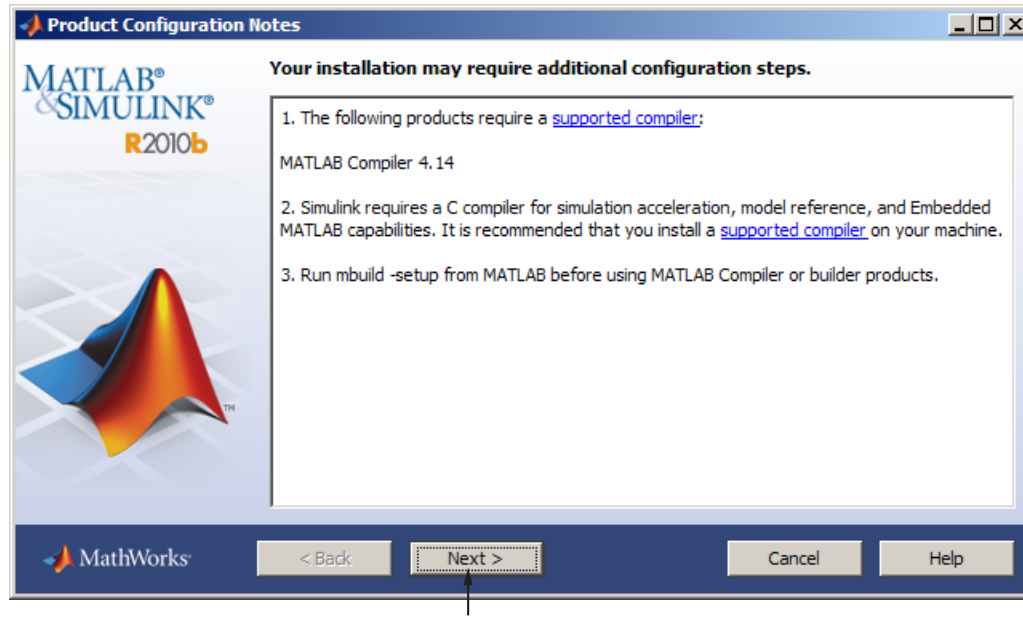
As it copies files to your hard drive, the installer displays a status dialog box to show the progress of the installation.

Read Product Configuration Notes

Depending upon which products you install, the installer might display a dialog box containing several types of information:

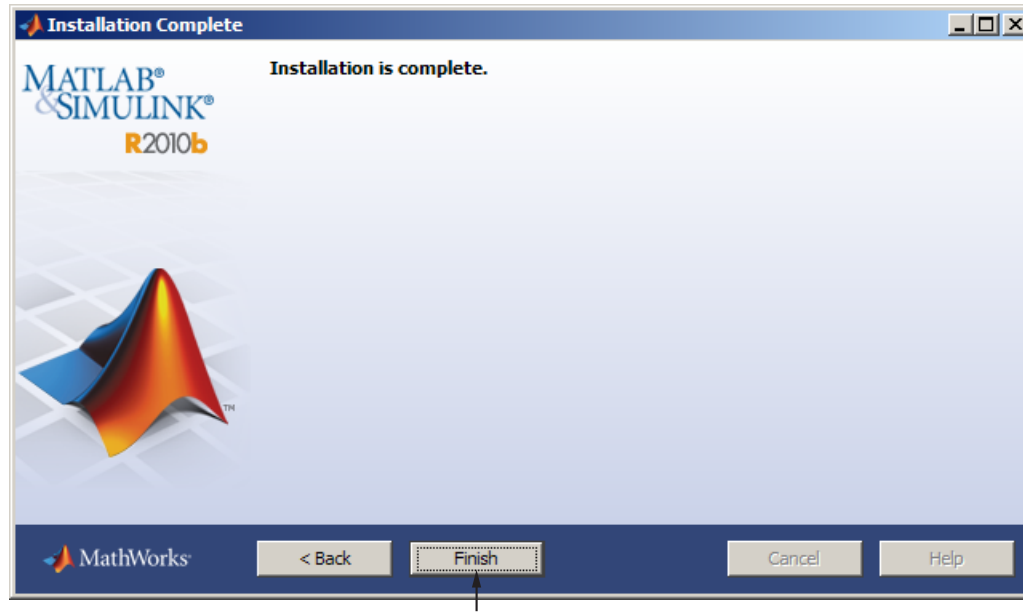
- **Product configuration information** — Certain products require additional configuration. If you installed one of these products, the installer lists the configuration commands in this dialog box. You can copy these command to your system clipboard for use after the installation is completed.
- **Available product updates** — If your license identifies products that are not on the DVD, and you are not currently connected to the Internet or you chose not to download product updates, the installer lists these products in this dialog box. After installation is complete, you can go to the MathWorks Web site to download these products.

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



Step 12: Complete the Installation

When the MathWorks installer finishes, it displays the Installation Complete dialog box. Click **Finish** to exit the installer.



After a Network Install

In this section...
“Starting the License Manager” on page 2-48
“Editing Boot Scripts on Linux Systems” on page 2-50
“Configuring the License Manager to Start Automatically on Macintosh Systems” on page 2-51
“Monitoring and Managing the License Manager” on page 2-53

For general information about post-installation tasks, see .

Starting the License Manager

To start MATLAB software on a client computer, the license manager must be running on the server. On Windows and Macintosh systems, the installer configures the license manager to start automatically when you start your system. (On Linux systems you must edit the system boot scripts–see “Editing Boot Scripts on Linux Systems” on page 2-50 .) If you accepted this default configuration, the easiest way to start the license manager is to reboot the computer on which you installed the license manager. There are several other ways to start the license manager, depending on your platform. The following section describe these methods.

- “Windows Systems” on page 2-48
- “Linux Systems” on page 2-49
- “Macintosh Systems” on page 2-49

Windows Systems

You can start the license manager on Windows systems using any of the following methods:

- Use the Windows **Services** control panel to start or stop the license manager, if you chose to configure it as a service during installation. On the Windows **Start** menu, select **Settings > Control Panel > Administrative Tools > Services**

- Use the license management utility, `lmtools.exe`, included in your MATLAB installation in the `matlabroot\etc\win32` or `win64` folders. Launch the `lmtools.exe` application and select the **Start/Stop/Reread** tab.

Linux Systems

To start the license manager daemons on a Linux system, execute 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.

Macintosh Systems

Note The user name associated with the license manager process should be a user that is defined locally on the system, not defined on a network. The license manager will only start up properly if the user name can be found during the startup process on the computer, before network users are available.

To start the license manager:

1. Start the `Terminal` application (`/Applications/Utilities`).
2. At the command prompt in the Terminal window, navigate to your MATLAB installation folder:

   ```
   cd /Applications/MATLAB_R2010b.app/etc
   ```

3 To start the license manager, execute the following command:

```
./lmgrd
```

Note Any time you make changes to the `license.dat` file, you must restart the license manager daemons by running `lmstart`. The `lmstart` script stops any currently running daemons and starts new ones.

Editing Boot Scripts on Linux Systems

To configure the license manager to start automatically at boot time on Linux systems, edit the system boot script on the computer on which you installed the license manager. The MathWorks provides a file, named *`matlabroot`*`/etc/flexnet.boot.linux`, containing the set of Bourne shell commands required to start the license manager. The following sections describe how to insert these Bourne shell code fragments for all supported platforms:

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 boot script file, using the command appropriate for your platform in the following table, for both 32-bit and 64-bit systems.

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

4 Edit the copy you made of the boot script file, named `flexnet` in the previous step, 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.

Configuring the License Manager to Start Automatically on Macintosh Systems

If, during installation, you chose not to configure the license manager to start automatically at system startup, perform these steps to configure it yourself.

1 Navigate to the top-level `/Library` folder.

2 If a folder named `StartupItems` does not exist in this folder, create it.

3 Copy the *`matlabroot`*`/etc/MATLABLmgr` folder into the `StartupItems` folder.

4 Run the `config_lm.sh` script, which is included in the `/etc/MATLABlmgr` folder. Open a terminal window (run the Terminal program in `/Applications/Utilities`) and in the Terminal window enter the commands:

```
cd /Library/StartupItems/MATLABLmgr
./config_lm.sh
```

5 Enter the name of the folder where your MathWorks products are installed. For example, if you installed MathWorks products in `/Applications/MATLAB_R2010b`, enter:

```
/Applications/MATLAB_R2010b
```

6 Enter your user name. The script uses the user name returned by the `whoami` command as the default. Accept the default or enter a different user name.

7 When the script finishes, restart your machine.

During startup, the message `Starting MATLAB License Manager` should appear on the screen. If you have difficulty starting the license manager, see Chapter 3, "Troubleshooting"for more information.

Disabling Automatic Startup of the License Manager

If you do not want the license manager to start automatically at startup, you can disable it. To disable the `MATLABLmgr` script:

1 From the **Finder**, select **Go To Folder** from the **Go** menu.

2 In the **Go to folder** dialog box, enter

```
/Library/StartupItems/MATLABLmgr
```

and click **Go**. A window titled `MATLABLmgr` appears, containing several files.

3 Rename the file `StartupParameters.plist` to `StartupParameters_disabled.plist`.

You can re-enable the license manager to start at startup by following steps 1 to 3 above and renaming `StartupParameters_disabled.plist` back to `StartupParameters.plist`.

Removing the License Manager on Macintosh Systems

1 From the **Finder**, select **Go To Folder** from the **Go** menu.

2 In the **Go to folder** dialog box, enter:

```
/Library/StartupItems/MATLABLmgr
```

and click **Go**. A window titled `MATLABLmgr` appears, containing several files.

3 Drag the `MATLABLmgr` folder to the trash, and then select **Empty Trash** from the **Finder** menu.

Monitoring and Managing the License Manager

This section describes several utilities provided by FLEXnet licensing that you can use to monitor and manage the license manager. For detailed information about these utilities, see the *License Administration Guide*, included in PDF format in your MATLAB installation (*`matlabroot`*`\etc\LicenseAdministration.pdf`).

- "Using the LMTOOLS GUI (Windows Systems Only)" on page 2-53
- "Using the License Manager Command Line Utilities" on page 2-54

Using the LMTOOLS GUI (Windows Systems Only)

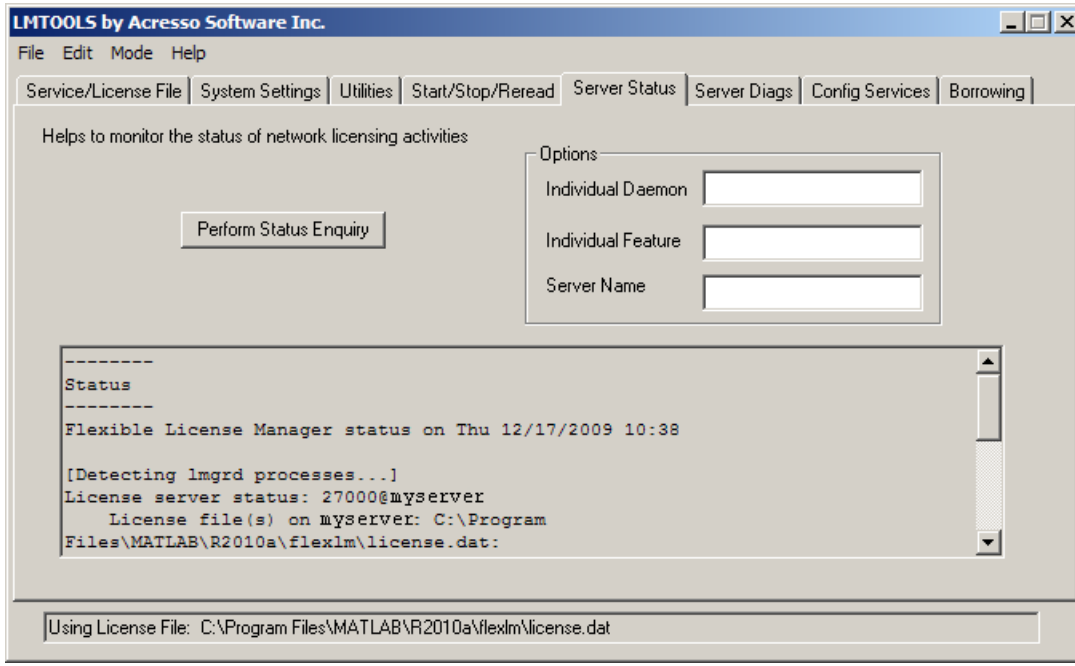
On Windows systems, FLEXnet Publisher licensing includes a graphical user interface (GUI), called LMTOOLS. Using LMTOOLS, you can perform many license management tasks, such as:

- Getting the status of the license manager
- Starting and stopping the license manager

- Configuring the license manager as a service

To illustrate, the following example shows how to use the LMTOOLS GUI to see the current status of the license manager:

1. Start `LMTOOLS` by double-clicking the `lmtools.exe` file in the *`matlabroot`*`\etc\$ARCH` folder, where *`matlabroot`* is your MATLAB installation folder and `$ARCH` is a platform-specific subfolder, such as `win32`.
2. Click the **Server Status** tab.
3. Click the **Perform Status Enquiry** button. `LMTOOLS` displays the same information as if you had entered the command `lmutil lmstat -a`.



Using the License Manager Command Line Utilities

FLEXnet licensing includes a set of license management utilities that you can use to start, stop, and monitor the license manager.

On Windows systems, FLEXnet packages all the utilities in a single, command-line executable called `lmutil.exe`. This program is available in the *`matlabroot`*`\etc\$ARCH` folder, where *`matlabroot`* is your MATLAB installation folder and `$ARCH` is a platform-specific subfolder, such as `win32`. For example, to run a status check of the license manager, open a DOS command window and run `lmutil` specifying `lmstat` as an argument:

```
lmutil lmstat -a -c "C:\Program Files\MATLAB\R2010b\etc\license.dat"
```

The `-a` option requests a verbose listing. You must also include the `-c` option to specify the License File to use. You must use this with every `lmutil` option. If your installation path contains spaces, enclose the path in quotes. The following is a portion of the information returned.

```
lmutil - Copyright (c) 1989-2008 Acresso Software Inc. All Rights Reserved.
Flexible License Manager status on Fri 6/18/2010 10:11

[Detecting lmgrd processes...]
License server status: 27000@customerj
License File(s) on customerj: C:\Program Files\MATLAB\R2010b\etc\license.dat:

  customerj: license server UP (MASTER) v.11.6

Vendor daemon status (on customerj):

    MLM: UP v11.6

Feature usage info:

Users of MATLAB: (Total of 5 licenses available)

Users of SIMULINK: (Total of 5 licenses available)

Users of Control_Toolbox: (Total of 5 licenses available)

Users of Identification_Toolbox: (Total of 5 licenses available).
```

To view a list of all the utilities in the `lmutil` package, type:

```
lmutil -h
```

To get help for a particular utility, type the name of the utility with the `-h` option, as in the following;

```
lmutil lmstat -h
```

On Linux and Macintosh systems, these license management utilities are individual executables, available in the *`matlabroot`*`/etc` folder. For example, to view the status of the license manager, use the `lmstat` utility, as follows:

```
lmstat -a

lmutil - Copyright (c) 1989-2008 Acresso Software Inc. All Rights Reserved.
Flexible License Manager status on Fri 6/18/2010 10:11

License server status: 27000@customerj
License File(s) on customerj: /user/local/MATLAB/R2010b/etc/license.dat:

  customerj: license server UP (MASTER) v.11.6

Vendor daemon status (on customerj):

    MLM: UP v11.6

Feature usage info:

Users of MATLAB: (Total of 5 licenses available)

Users of SIMULINK: (Total of 5 licenses available)
```

To get help for a particular utility, use the `-h` option, as in the following;

```
lmstat -h
```

The following table lists the names of the most useful license management tools included.

Utility	Description
`lmdiag`	Diagnose license checkout problems.
`lmdown`	Shut down all license daemons (both `lmgrd` and all vendor daemons) on the license server node.
`lmhostid`	Report the host ID of a system.
`lmreread`	Make the license manager daemon reread the License File and start any new vendor daemons. Note: When you use `lmreread` to reprocess a License File for a user-based license, changes to `INCLUDE` statements in the associated FLEXnet options file take effect after a 15-minute delay.
`lmstat`	Display the status of all network licensing activities.
`lmswitchr`	Switch the report log file.
`lmver`	Determine the version of a library or binary file.

Installing Noninteractively (Silent Installation)

In this section...
"When to Install Noninteractively" on page 2-58
"Using an Installer Properties File" on page 2-58

When to Install Noninteractively

If you have many installations of MATLAB software to perform, and the information you need to enter for each installation is the same, you can put this information into a properties file and run the MathWorks installer noninteractively. You specify the properties file on the command line when you launch the installer and the file provides the installer with the information that you would otherwise provide interactively, using the installer dialog boxes. Noninteractive installation (also called *silent* installation) can save time and prevent errors.

Using an Installer Properties File

Note You need a File Installation Key to use an installer properties file.

To run the installer noninteractively, perform these steps:

1. Create an installer properties file.

   Make a copy of the installer properties file template, named `installer_input.txt`, located in the top-level folder on the MathWorks DVD.

   For example, on a Windows system, you might execute this command:

   ```
   copy Z:\installer_input.txt C:\temp\my_installer_input.txt
   ```

2. Open your installer properties file using any text editor, and enter values for all the specified parameters. For example, to specify where you want to install products, set the value of the `destinationFolder=` parameter to the full path of the installation folder.

```
destinationFolder=C:\Program Files\MATLAB\R2010b
```

The installer properties file template contains descriptions of each parameter along with valid values. Specify your File Installation Key as the value of the `fileInstallationKey=` parameter.

3 Save your changes to the file.

4 Start the installer using the `-inputFile` option to specify the full path of your installer properties file as a command-line argument.

For example, on Windows systems, click the **Start** menu and select the **Run** option. In the Run dialog box, enter

```
setup.exe -inputFile C:\temp\my_installer_input.txt
```

For information about specifying an installer properties file on Linux and Macintosh systems, see the instructions in the installer properties file template.

3

Troubleshooting

This topic provides information that can help you solve common problems that you might encounter installing MathWorks software.

- "Problems During Installation" on page 3-2
- "Problems After Installation" on page 3-6

If you cannot find a description here that matches your problem, check the MATLAB Release Notes documentation that you received with your MathWorks products. That document contains the most up-to-date information available about products and installation procedures. Installation troubleshooting information is also available at the MathWorks Web site on the Support page, www.mathworks.com/support/.

Problems During Installation

In this section...
“Installer Does Not Start Automatically” on page 3-2
“Accessing Activation Options” on page 3-2
“Product Dependencies” on page 3-5

Note If the installer appears to become unresponsive (hang), you might want to turn off any virus-checking software you are running on your system and restart the installer.

Installer Does Not Start Automatically

The installer should start automatically when you insert the MathWorks DVD into your DVD drive or when you double-click the installer file you downloaded from the MathWorks Web site.

If the installer does not start, open a Microsoft Windows Explorer window, select your DVD drive, and double-click the `setup.exe` program in the top-level folder.

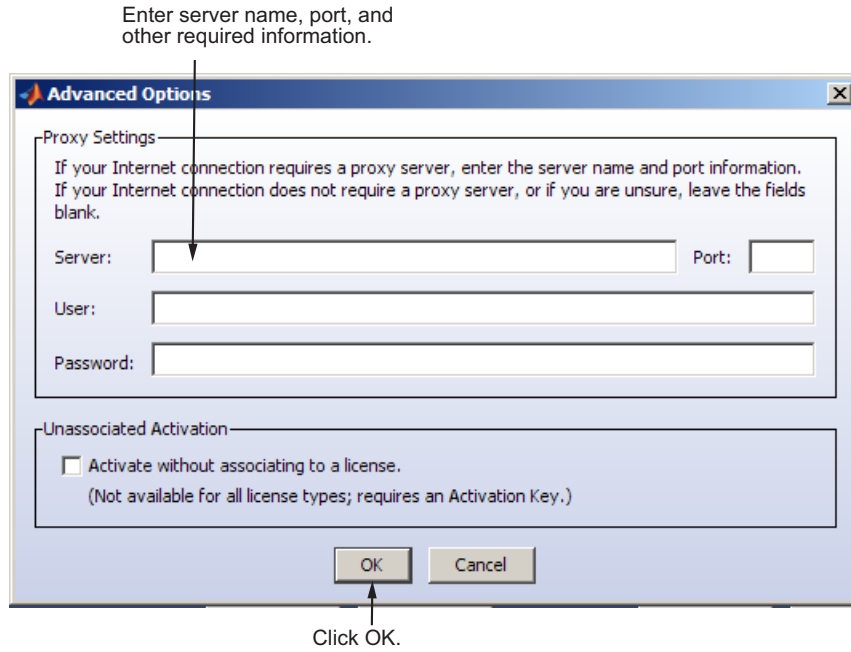
Accessing Activation Options

Specifying Proxy Server Connection Settings

If your Internet connection requires a proxy server, you can enter the server name, port, and password of the proxy server at the beginning of the installation process or at the beginning of the activation process. MathWorks supports several types of proxy configurations: Basic authentication and Digest authentication.

To specify proxy information during installation, click the **Connection Settings** button in the first dialog box displayed by the installer. To specify proxy information during activation, click the **Advanced Options** button in the first dialog box displayed by the activation application. (For information

about Unassociated Activation, see “Activating Without a MathWorks Account” on page 3-3.)



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, certain users might not be able to create an account for security reasons.

To activate without providing MathWorks Account information, follow this procedure:

1. Get a File Installation Key for the license you want to install. The administrator on the license can obtain this key from the MathWorks License Center.

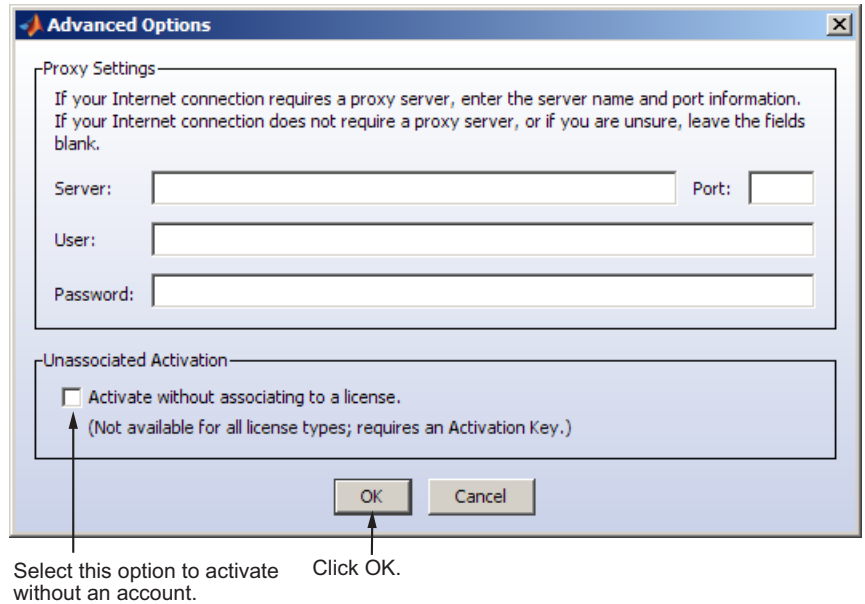
2. Start the MathWorks installer. Insert the DVD into your DVD drive and the installer should start automatically.

3 You can choose to either the **Install using the Internet** option or the **Install without using the Internet** option. Both paths let you specify your File Installation Key. For complete instructions, see Chapter 1, "Standard Installation and Activation Procedures"

4 When the installation is complete and the installer displays the Installation Complete dialog box, leave the **Activate MATLAB** option selected and click **Next**.

5 In the MathWorks Software Activation dialog box:

- Choose **Activate automatically using the Internet**. To perform unassociated activation, 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**.



- When you return to the MathWorks Software Activation dialog box, click **Next**.

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

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

---

7 Click **Activate**.

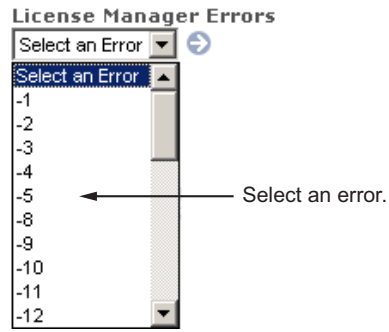
Product Dependencies

After clicking **Next** in the Product Selection dialog box, you might receive a message telling you that one or more of the products that you selected for installation have dependencies on other products that were not selected. To dismiss the message and continue with the installation, click **OK**. For a Custom installation, if you want to adjust your product selections, click **Cancel**.

Problems After Installation

After a successful installation, you may encounter problems starting MATLAB software. Many of these problems originate in the FLEXnet license manager used by MathWorks products. When a problem occurs, the license manager displays an error message in a window on your display and also writes the message to the FLEXnet log file, `lmlog.txt`, in the *`matlabroot`*`\etc\`*`$ARCH`* folder. Read the error message carefully; it provides information that can help solve the problem. For information about viewing the license manager log file, see "Monitoring and Managing the License Manager" on page 2-53.

For more complete diagnostic information about an error message, go to the MathWorks Web site, `www.mathworks.com`, and click **Support**. The Support page includes a Search facility that lets you search the support database for help with an error message by error number. You can also select the error number from the **License Manager Errors** menu.



You can also get information about license manager error messages in the *License Administration Guide*, for the FLEXnet Publisher Licensing Toolkit, available in PDF format in *`matlabroot`*`\etc\LicenseAdministration.pdf`.

Allowing Access to License Manager Daemons

If you run the license manager on a server that is protected by a security firewall, you must open the firewall to allow client installations to communicate with the license manager daemons. For more information about these daemons, see the License Administration Guide.

Opening Access to the License Manager Daemon

Using the interface provided by your firewall program, allow access on port 27000 for the license manager daemon. This is the default port used to communicate with the license manager. If you changed this port number, specify the port number used at your site. For more information about specifying the license manager daemon port number, see the License Administration Guide.

Opening Access to the Vendor Daemon

The port used by the vendor daemon is assigned dynamically. If you need to open access to the vendor daemon in your firewall, you must assign a port for vendor daemon communication, rather than using this dynamic port assignment. You can then open the assigned port number in your firewall.

To specify the vendor daemon port number, edit the License File on your license server and add the `port=` syntax to the `DAEMON` line. For more information about specifying the vendor daemon port number, see the License Administration Guide.

Understanding the License Files

A License File is a specially formatted ASCII text file that contains encrypted product passcodes for each product you are licensed to run. Each product passcode identifies the number of keys available for that product. The license manager grants or denies access to a product depending on the availability of the license keys associated with each product.

The following figure presents a sample License File. Each `INCREMENT` line identifies a product, the number of keys available for the product, and other information. (The `INCREMENT` lines in your License File might not include every element shown in the example.) The backslash (\) character indicates that the line continues onto the next line.

The lines that begin with a pound sign (#) are comments. The MathWorks Installer uses the information in these comment lines (license server host ID or Internet address) when it processes the License File during installation.

```
# BEGIN-------cut here-------CUT HERE-------BEGIN
# MATLAB license passcode file.
# LicenseNo: 12345           HostID: INTERNET=144.212.101.43
INCREMENT TMW_Archive MLM 18 01-sep-2010 0  \
 BC9DE773A77D15AF8 VENDOR_STRING=83 HOSTID=DEMO SN=12345
INCREMENT MATLAB MLM 18 01-sep-2010 1  \
 4C9D3348561BE9E3B USER_BASED DUP_GROUP=U SN=12345
INCREMENT SIMULINK MLM 18 01-sep-2010 1  \
 1CD148466EF58DF8B USER_BASED DUP_GROUP=U SN=12345
INCREMENT Signal_Toolbox MLM 18 01-sep-2010 1  \
 6CF74B458BA143DC3 USER_BASED DUP_GROUP=U SN=12345
# END---------cut here-------CUT HERE-------END
```

License File Search Path

When you start MATLAB, it reads the License File to check for product licensing. MATLAB searches for the License file in the following locations, in the specified order. Once it finds a License File, MATLAB stops searching.

1. License File specified on MATLAB startup command line using the `-c` argument. You can specify a list of paths to search. When you use the `-c` option, you explicitly prohibit the searching of the environment variables. When using the `-c` option, keep in mind the following:
   - If the path to your License File contains a space, enclose the path name in quotation marks.
   - If you are specifying more than one License File, make sure to enclose the entire list of License Files in quotation marks.
2. If no License File is specified at the MATLAB command, MATLAB searches two environment variables, described in the following table. MATLAB searches the vendor specific environment variable, `MLM_LICENSE_FILE` first.

Environment Variable	Purpose
`MLM_LICENSE_FILE`	Specifies the location of the License File, but only for MathWorks products. (Recommended, because it affects only MathWorks products.)
`LM_LICENSE_FILE`	Specifies the location of the License File for all applications using FLEXnet licensing on this server.

3. If it doesn't find any License File specified using environment variables, MATLAB searches the profile folder of the person starting the program. For licenses that are locked to individual users, the activation application puts the License File in a folder in your user profile.

4. If it doesn't find any License File specified in environment variables or in your user profile, MATLAB checks the `\licenses` folder in your MATLAB installation for files named `license.dat` or any file with the extension `.lic`.

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