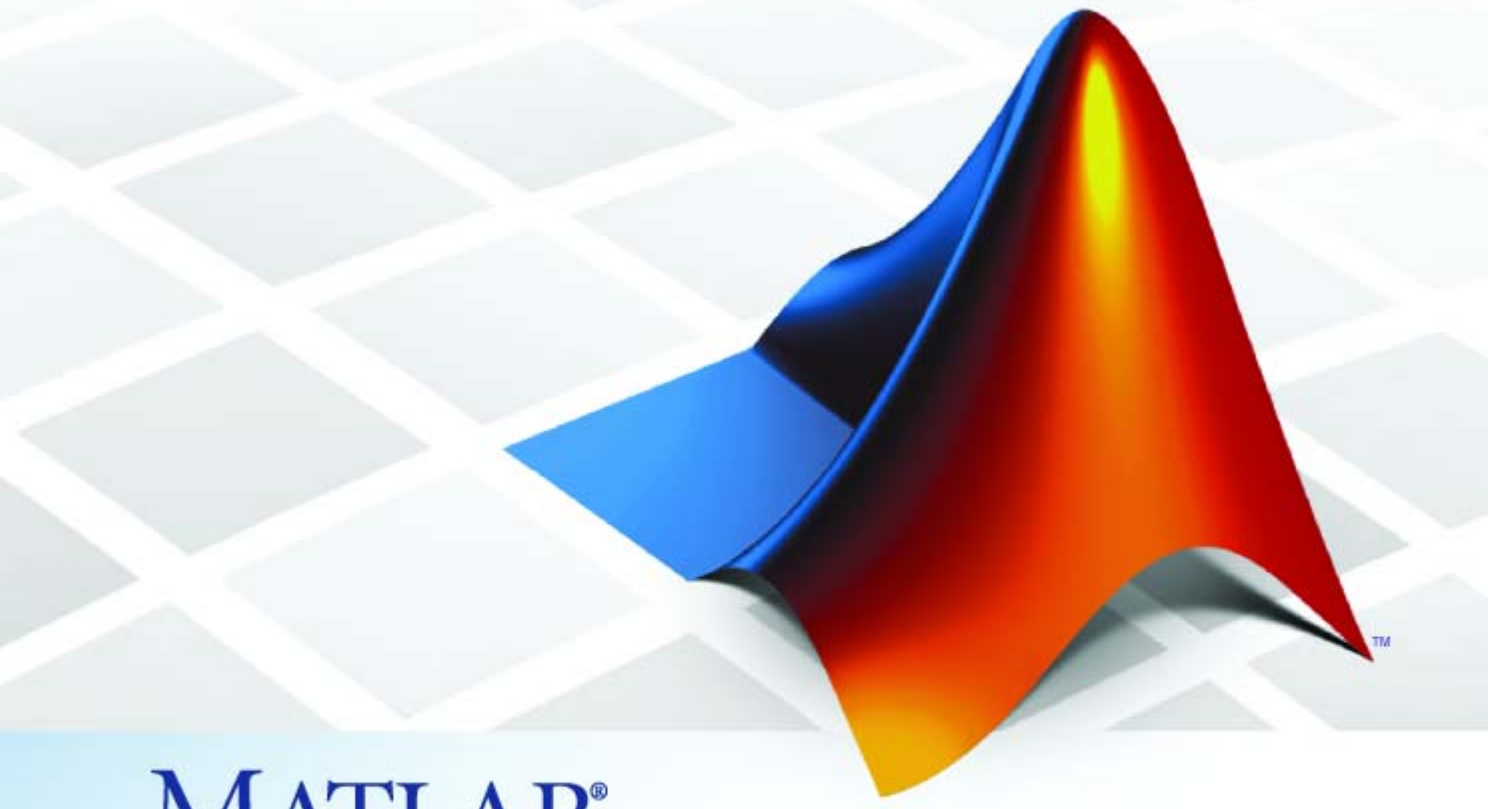
MATLAB® & Simulink® Release 2008a
Installation Guide for Mac OS® X



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Installation Guide for Mac OS® X

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1

Standard Macintosh® Installation and Activation Procedures

This topic describes how to install MathWorks™ products on an Apple® Macintosh® computer running the Mac OS® X operating system. This section includes information about installing products in standalone environments and network configurations. You can use these instructions to install products with any MathWorks license option. For more information about license options, see the License Administration Guide.

Note Keep in mind that Mac OS X is based on the UNIX® operating system and, thus, the version of MATLAB® software that runs on this platform is for the UNIX operating system. For example, if you use the `mex` command, you are using the UNIX version of this command.

Installing MathWorks™ Software in a Standalone Environment (p. 1-3)	Describes how to install MathWorks products on a single system in a standalone workstation environment.
Activating Your Installation (p. 1-14)	Describes how to activate a license after MathWorks products have been installed.
Installing and Activating Without an Internet Connection (p. 1-25)	Describes how to install and activate when you do not have an Internet connection.

Installing MathWorks™ Products in a Network Configuration (p. 1-37)	Describes how to install MathWorks products in a network configuration.
After You Install (p. 1-52)	Describes specialized installation tasks that some users may need
Removing and Deactivating a MATLAB® Installation (p. 1-57)	Describes how to remove MathWorks products from your Macintosh system
System Requirements (p. 1-62)	Describes the general system requirements for installing MathWorks products.
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Installing MathWorks™ Software in a Standalone Environment

In this section...

"Step 1: Before You Install" on page 1-3
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Step 1: 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, to do this, you must have an *Activation Key*. An Activation Key is the unique code that identifies a license. It is used to activate the license. The Activation Key also allows licensed end users to associate their MathWorks Account with a license. Ask the administrator of the license for the Activation Key.

- Get the name and password of the administrator account on the system.

If you do not have an Internet connection during installation, see "Installing and Activating Without an Internet Connection" on page 1-25.

If you need to perform a network server or client installation, see “Installing MathWorks™ Products in a Network Configuration” on page 1-37.

Note MathWorks products running on a Macintosh® system require X11 for Mac OS® X software. The MathWorks™ recommends installing this software before installing MathWorks products. See “System Requirements” on page 1-62 for more information.

Step 2: Start the Installer

The MathWorks products are distributed on a DVD or over the Internet. Place the DVD in the DVD drive. When the DVD icon appears on the desktop, double-click the icon to display the DVD contents. Double-click the `InstallForMacOSX` icon to begin the installation.

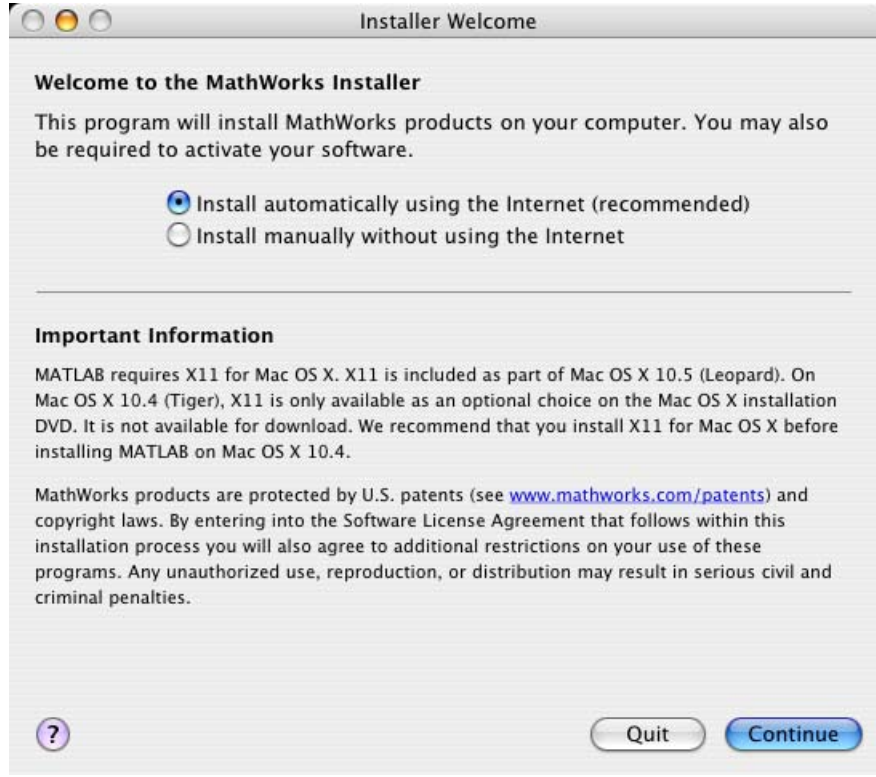
Step 3: Enter System Authentication Information

To install software on a Macintosh system, you must be the administrator of the system. Enter the name and password of the administrator account in the Authenticate dialog box. (The administrator account is the user account you set up when you configured your Macintosh system; this is not your MathWorks Account.) If you don’t know the user name and password for the administrator account on the system, ask your system administrator. Click **OK** to proceed with the installation.

Step 4: Choose Whether to Install Automatically or Manually

The installer displays the welcome dialog box. You must choose whether you want to install automatically or whether to install manually. If you install automatically, the installer contacts The MathWorks during installation. The MathWorks recommends installing automatically. If you choose to install manually, see “Installing and Activating Without an Internet Connection” on page 1-25 for step-by-step instructions.

Make your selection and click **Continue** to proceed with the installation.

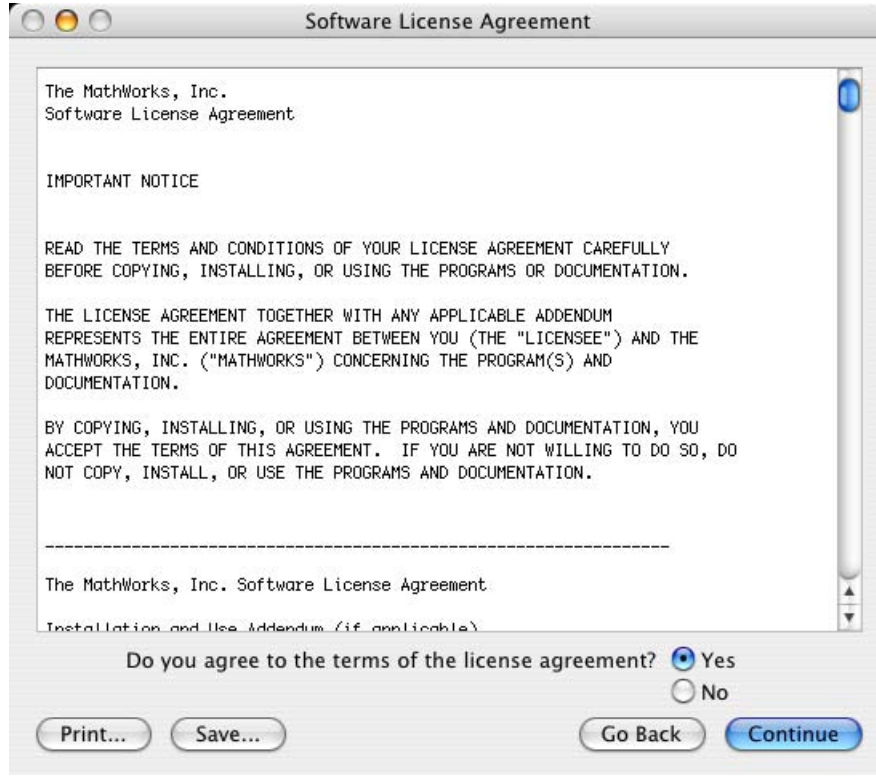


If you did not previously install X11 for Mac OS X, you will see the following message.

You can continue with the installation by clicking **OK**, but note that you will not be able to run The MathWorks products until you install the X11 for Mac OS X software on your computer.

Step 5: Review the Software License Agreement

Review the Software License Agreement and, if you agree to its terms, select **Yes** and click **Continue** to proceed with the installation.



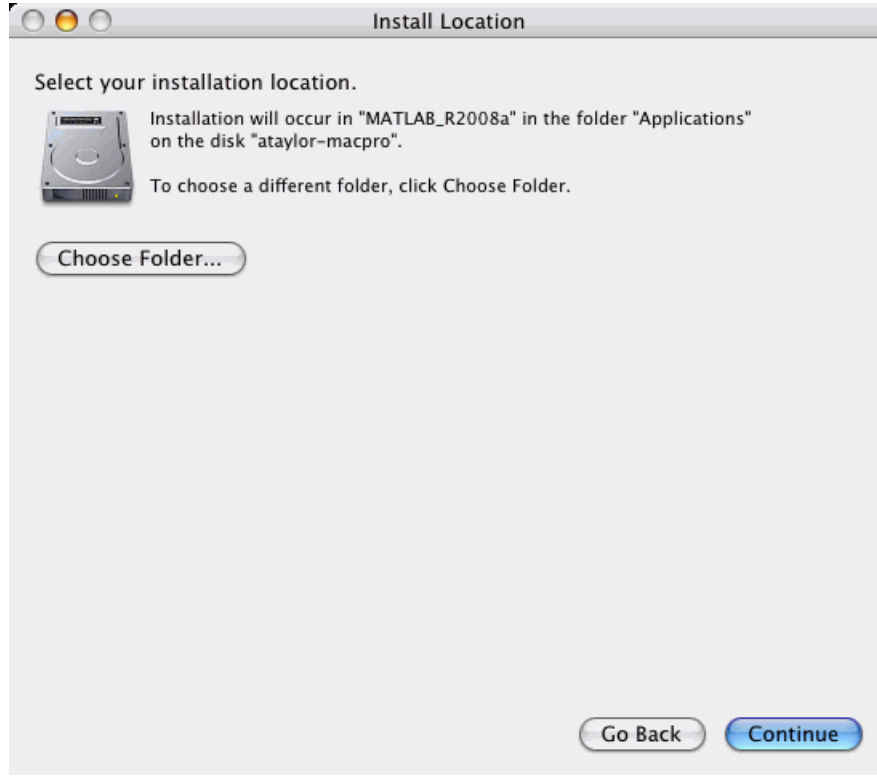
Step 6: Specify Installation Folder

Specify the folder in which you want to install MathWorks products. By default, the installer puts the products files in a release-specific folder in the `Applications` folder on your system disk. To accept the default, click **Continue**. To change the location, click **Choose Folder**, and then navigate to the desired location.

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

When specifying a folder name, do not specify a name that contains spaces, the at (`@`) sign, an exclamation point (`!`), the percent character (`%`), the plus sign (`+`), or the dollar sign (`$`) character. Do not install into a folder named `private`, but you can have a folder named `private` on the path.

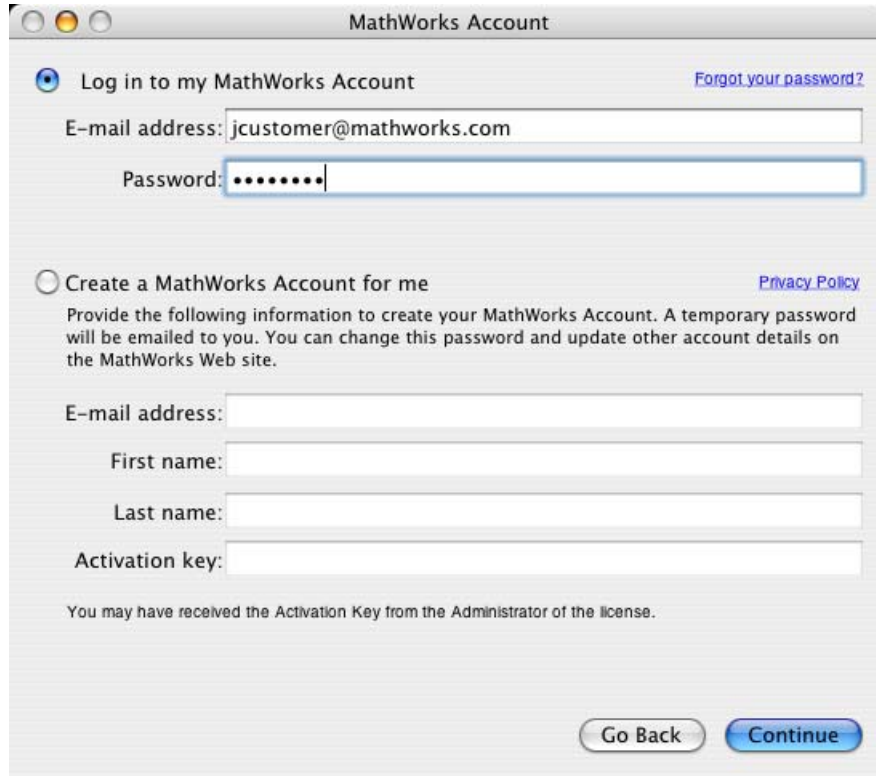
To create a folder on your system, you must have administrator privileges. For information on setting privileges, see Macintosh Help (**Command+?** from the desktop).



Step 7: Log In to Your MathWorks Account

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

If you do not have a MathWorks Account, select the **Create a MathWorks Account for me** option and enter the information requested. To create a MathWorks Account during installation, you must provide an Activation Key. A new account will not have any licenses associated with it. The Activation Key identifies the license you want to install. After entering your account information, click **Continue** to proceed with installation.



Step 8: Select the License You Want to Install

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

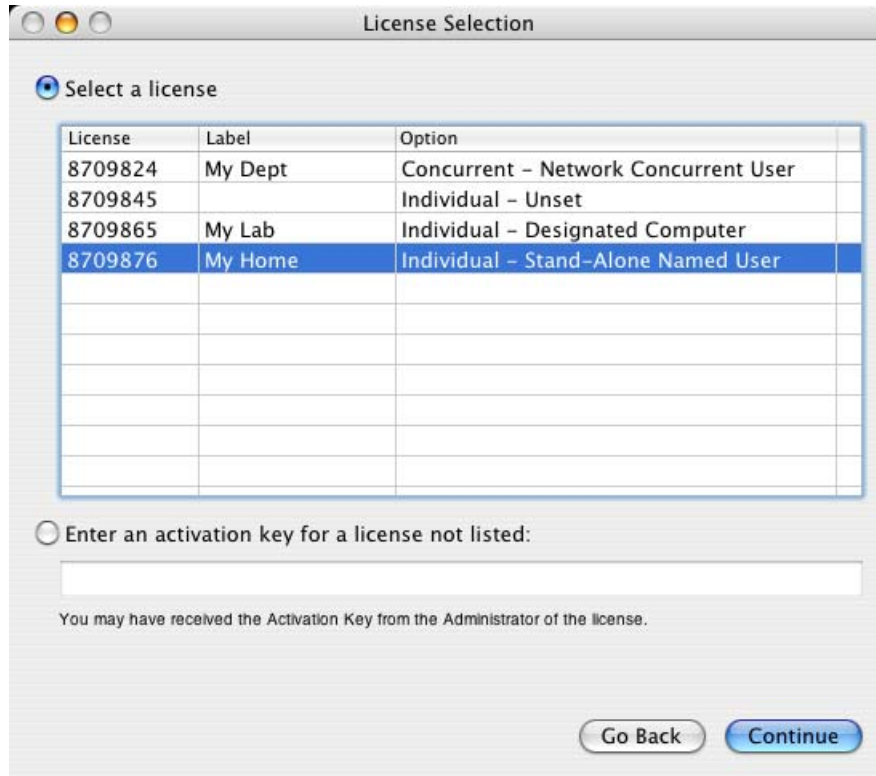
- License number

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

Select the license you want to install by clicking anywhere in a row. (If the license is a network license option, see “Installing MathWorks™ Products in a Network Configuration” on page 1-37.)

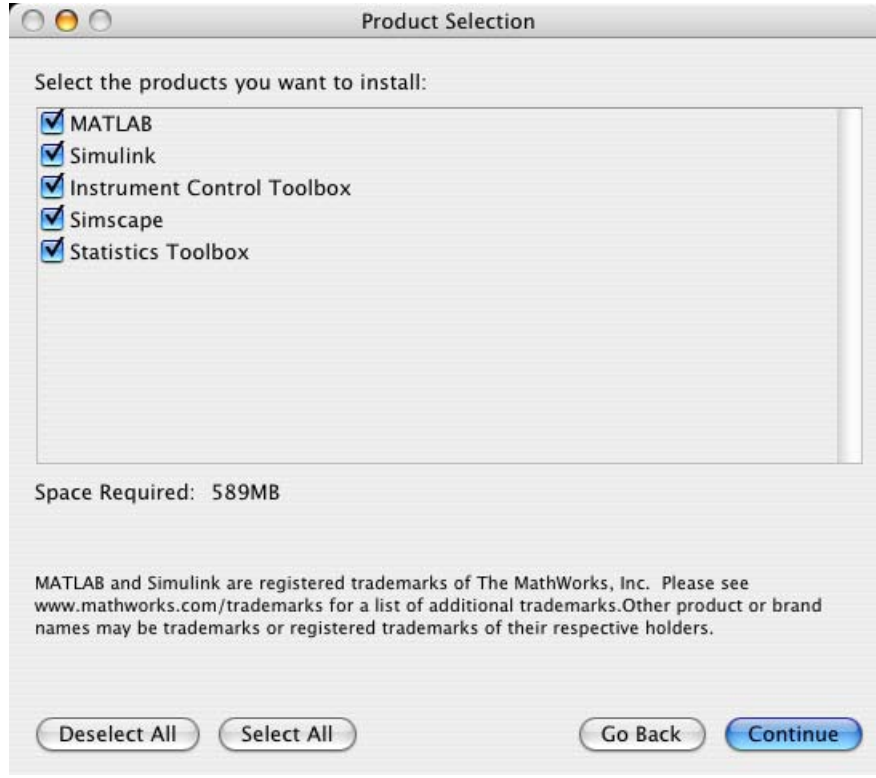
If you do not see the license you want in the list, select the **Enter an activation key for a license not listed** option and enter an Activation Key. Specifying an Activation Key enables you to install the products associated with the license, but does not associate the license with your account—that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

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



Step 9: Select the Products to Install

Select the products you want to install from the list of products available for installation. For a complete list of products supported on the Macintosh system, see Platform/Version Availability in the Products section of `www.mathworks.com`. When you click **Continue** the installer starts copying product files to your destination folder.



Step 10: Complete the Installation

When the installation successfully completes, the installer displays the Installation Complete dialog box. This dialog box gives you the option to proceed directly to activating your installation. While you can activate as a separate process, The MathWorks recommends activating immediately after installing. If you logged in to your MathWorks Account during installation, your log-in session continues into the activation process. Click **Continue** to proceed to activation or exit the installer. For step-by-step instructions for completing the activation process, see “Activating Your Installation” on page 1-14. For information about some common post-installation tasks, see “After You Install” on page 1-52.

Installation Complete
Installation is complete
Activate MATLAB
Note: you will not be able to use MATLAB until you activate.
Continue

Activating Your Installation

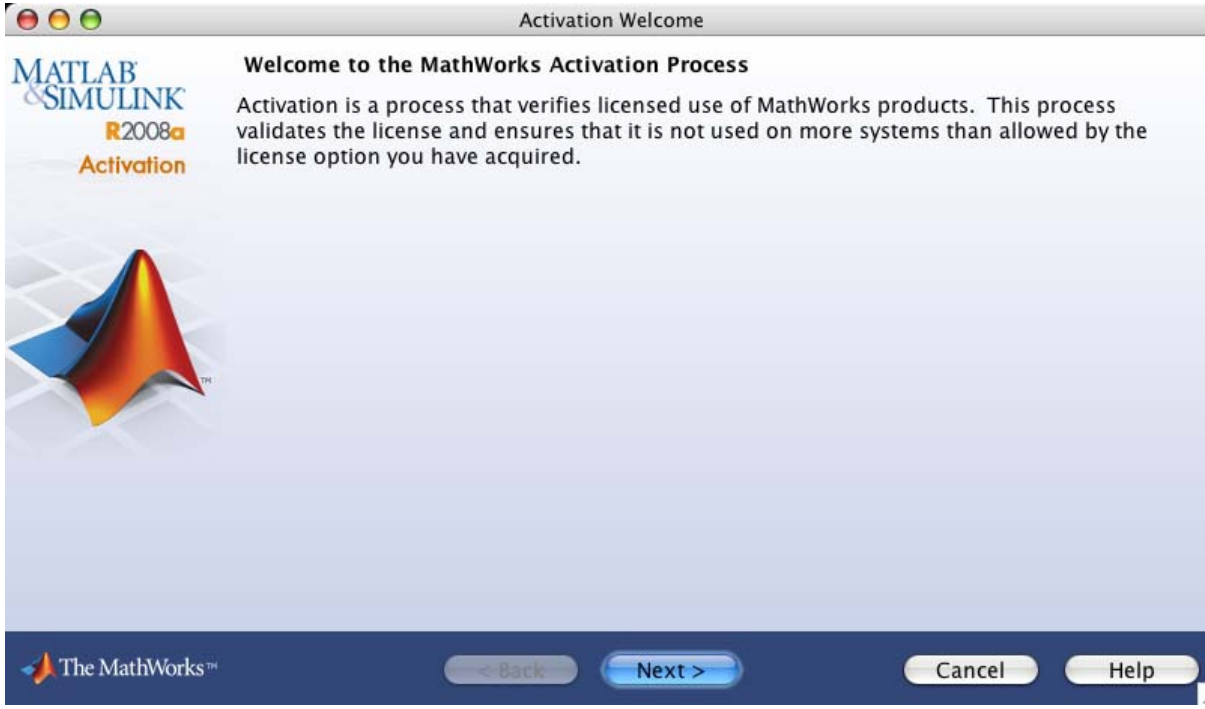
In this section...

"Step 1: Start the Activation Application" on page 1-14
"Step 2: Log In to Your MathWorks Account" on page 1-16
"Step 3: Select the License You Want to Activate" on page 1-18
"Step 4: Choose an Activation Type" on page 1-20
"Step 5: Specify Login Name" on page 1-21
"Step 6: Confirm Your Activation Information" on page 1-22
"Step 7: Complete Activation" on page 1-23

Step 1: Start the Activation Application

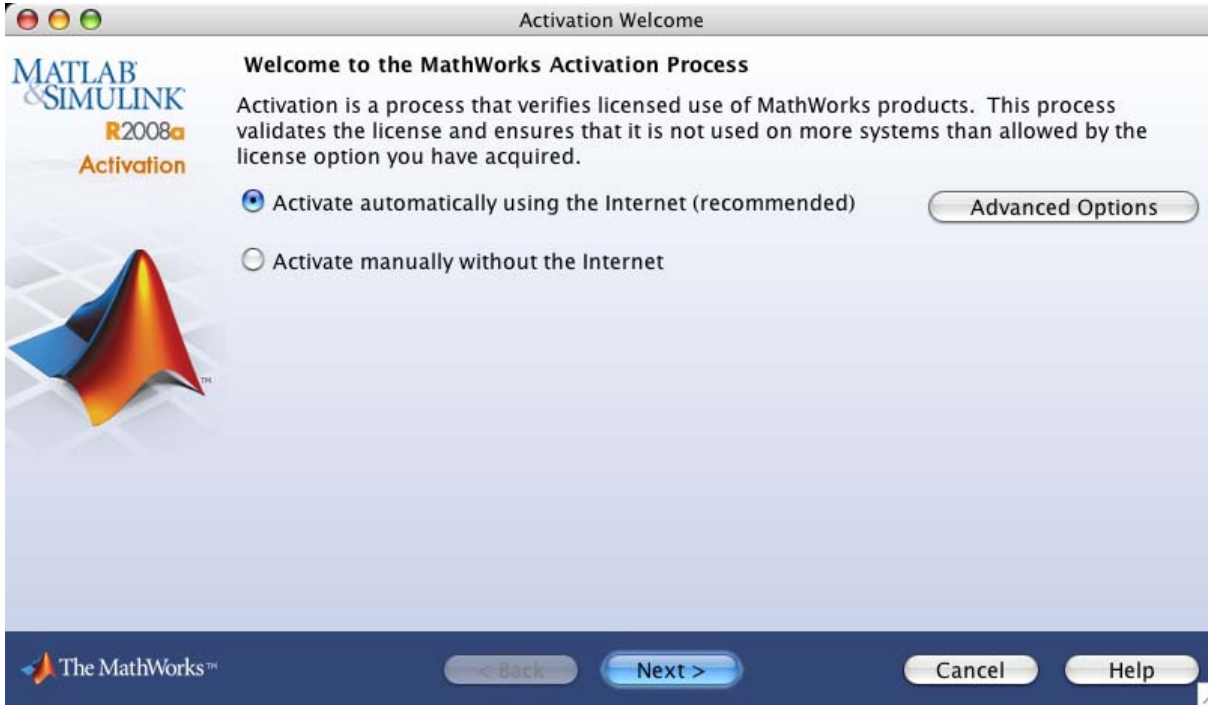
If you let the installer start the activation application for you, and you were already logged in to your MathWorks Account, the activation application displays the following welcome dialog box. Your MathWorks™ Account log-in session continues into the activation process. If you exited the installer without starting the activation application, see "Starting the Activation Application Independently" on page 1-15.

Click **Next** to proceed with activation.



Starting the Activation Application Independently

If you perform activation as a separate process, the activation application displays a welcome dialog box that asks whether you want to activate automatically or manually. If you are connected to the Internet, leave the **Activate automatically using the Internet** option selected and click **Next**. The MathWorks™ recommends activating automatically. The option to activate manually is useful if you do not have an Internet connection—see "Installing and Activating Without an Internet Connection" on page 1-25.



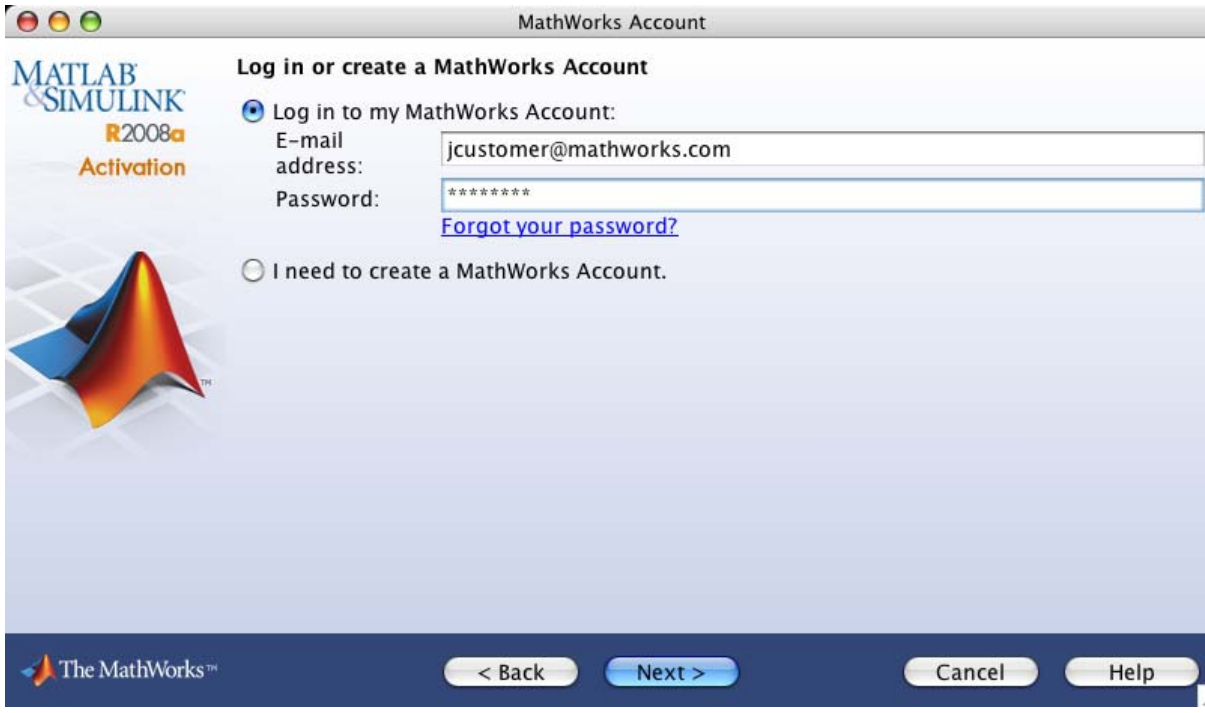
If your Internet connection requires a proxy server, click the **Advanced Options** button. You can enter the server name and port information in the Advanced Options dialog box.

Step 2: Log In to Your MathWorks Account

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

Enter your e-mail address and MathWorks Account password and click **Next** to proceed with activation.

If you do not have a MathWorks Account, select the **I need to create a MathWorks Account** option and click **Next**. See “Creating a MathWorks Account” on page 1-17 for instructions.

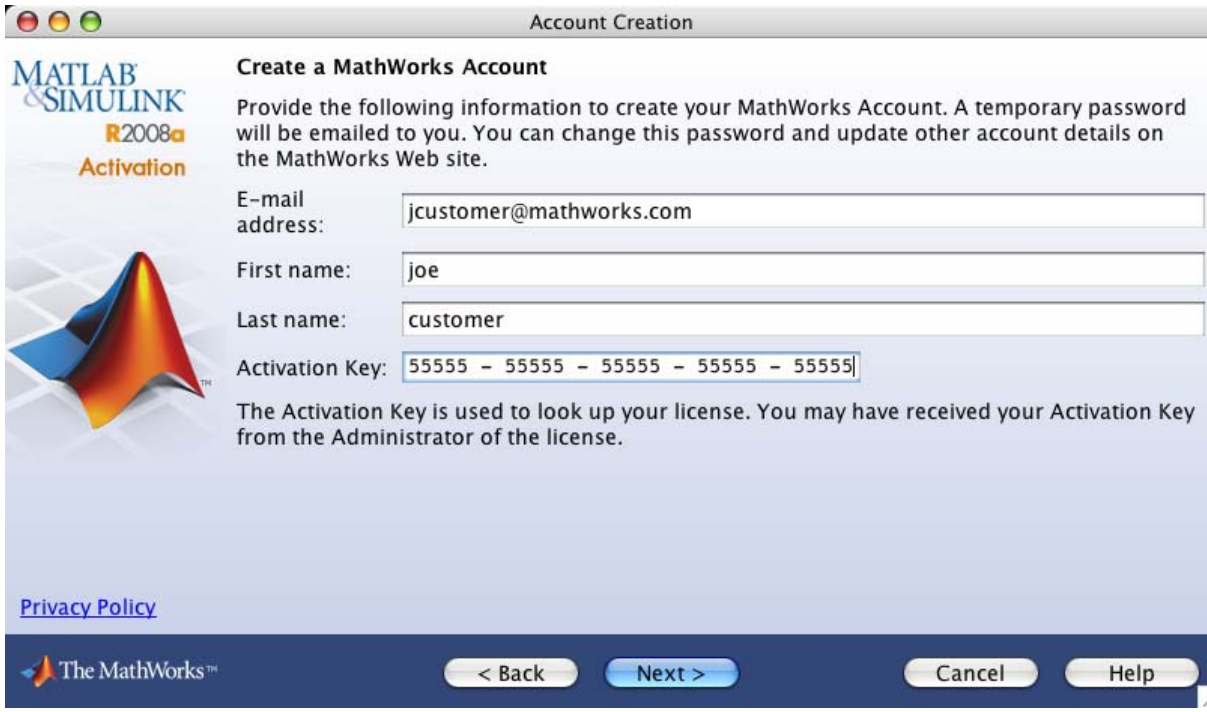


Creating a MathWorks Account

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

Click **Next** to proceed with activation.

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



Step 3: Select the License You Want to Activate

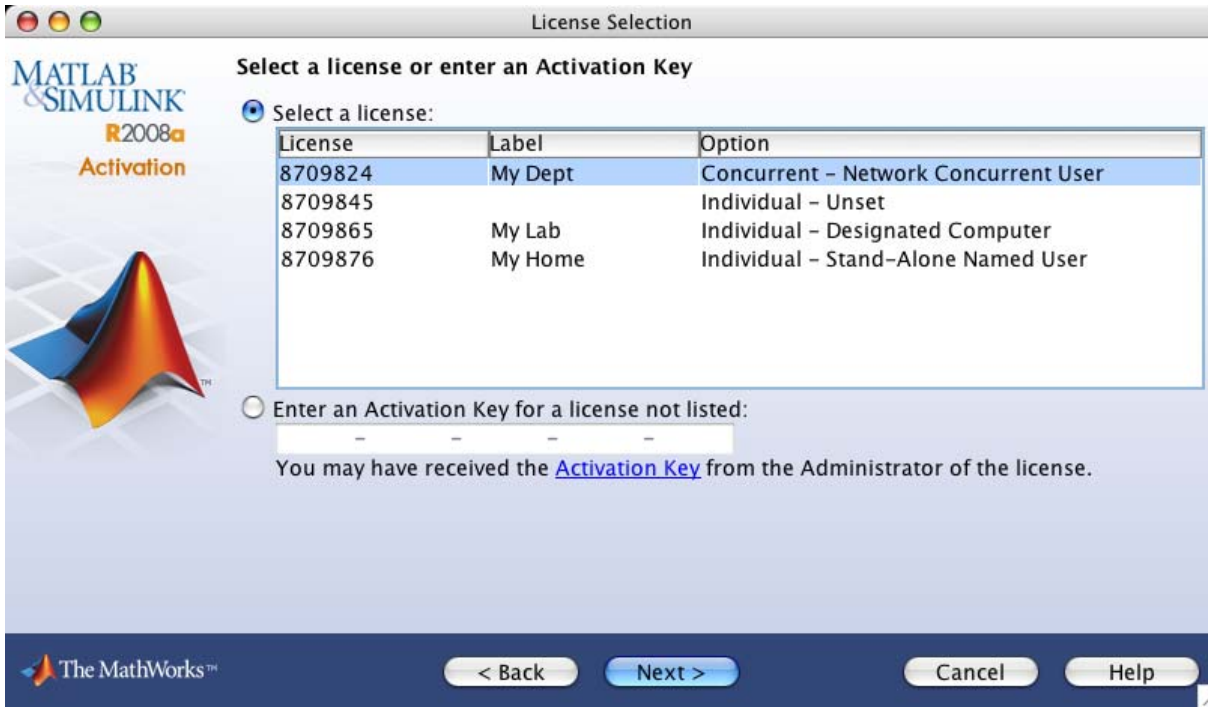
Note If you continued on with activation immediately after installation, the activation application assumes you want to activate the license you just installed and skips this step. Likewise, if you created a new account in the previous step and specified an Activation Key, the activation application 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 a license. To label a license, go to the License Center at the MathWorks Web site. See 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 and enter 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.

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



Step 4: Choose 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 first option—the Standalone Named User activation type. If you want to share the installation for nonsimultaneous use by several people, choose the second option—the Designated Computer activation type.

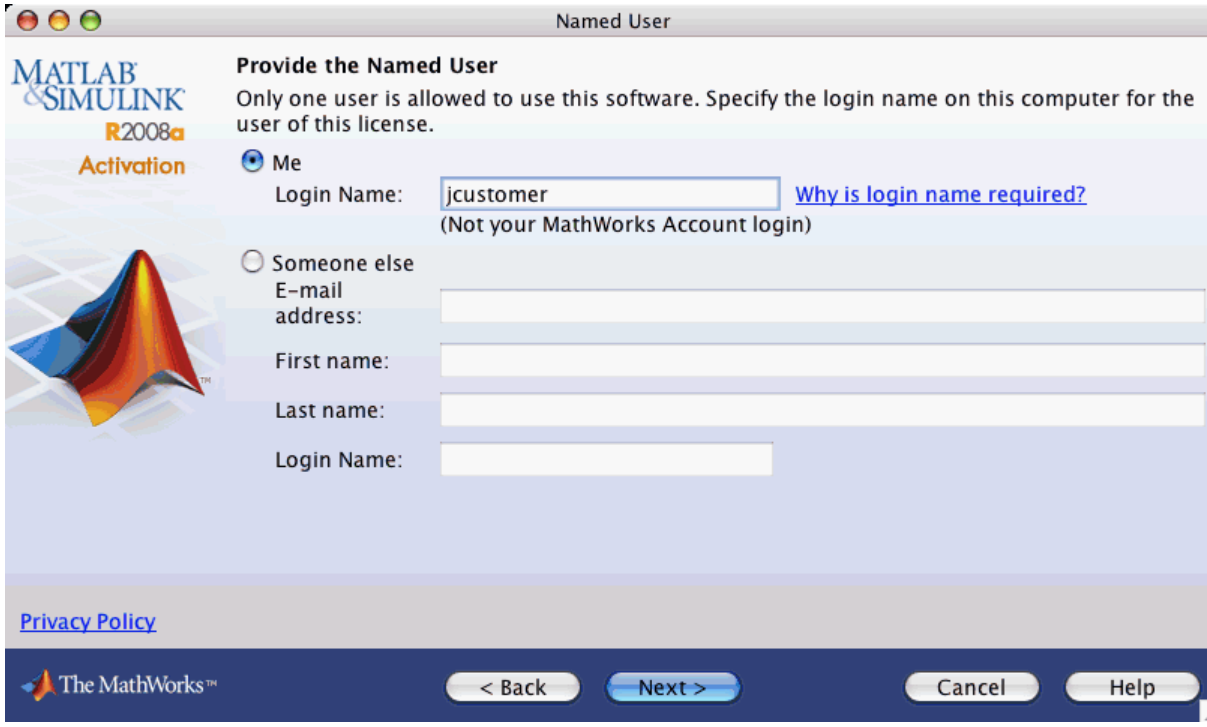
After making your selection, click **Next** to proceed with activation.

Step 5: Specify Login Name

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

If you selected the Standalone Named User activation type, you must specify the *operating system user name* of the person who will use the software. The operating system user name is the ID under which a user gains access to a computer. It is also known as the computer login name. Standalone Named User activation locks to this user name in addition to the computer host ID. To use the MathWorks software, you must be logged into the computer as the user name you specify. By default, the activation application fills in the user name of the person running the application. Click **Next** to continue with activation.

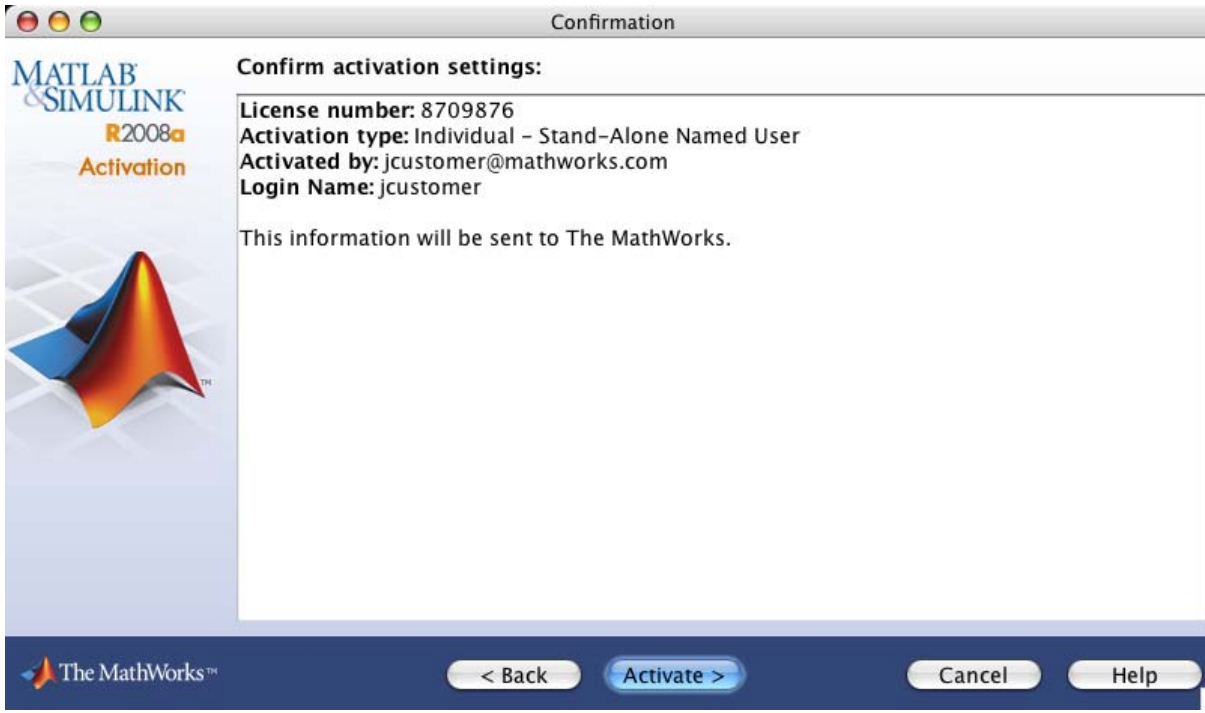
If you are the administrator of the license, you can activate the license for someone else. Select the **Someone else** option and specify their e-mail address, name, and operating system user name. The activation application looks for their MathWorks Account or creates an account for them. Click **Next** to continue with activation.



Step 6: Confirm Your Activation Information

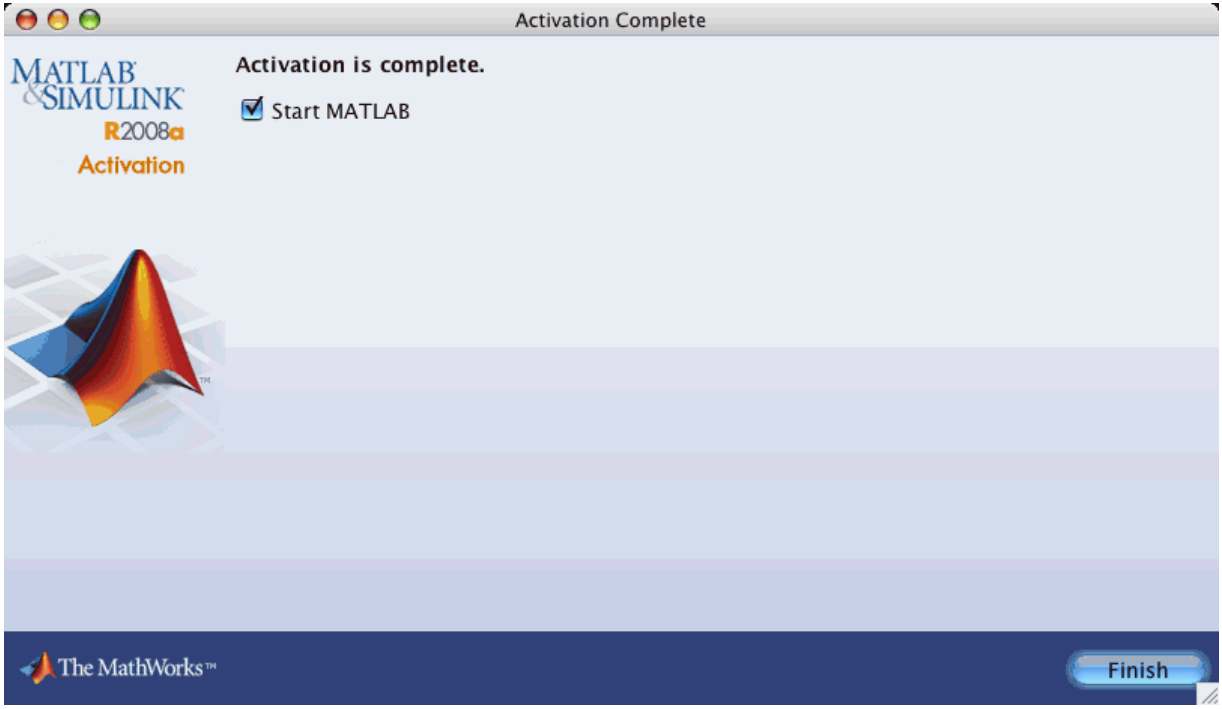
If all the information displayed is correct, click **Activate**.

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



Step 7: Complete Activation

After activation is complete, you can run the MathWorks software on your computer. If you want to start MATLAB® software immediately, leave the **Start MATLAB** check box selected and click **Finish** to exit the activation application.


Activation Complete
MATLAB
SIMULINK
R2008a
Activation
Activation is complete.
Start MATLAB
The MathWorks™
Finish

Installing and Activating Without an Internet Connection

In this section...

"Step 1: Before You Install" on page 1-25
"Step 2: Start the Installer" on page 1-26
"Step 3: Enter System Authentication Information" on page 1-26
"Step 4: Choose Whether to Install Automatically or Manually" on page 1-27
"Step 5: Review the Software License Agreement" on page 1-29
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"Step 7: Enter the File Installation Key" on page 1-31
"Step 8: Select the Products to Install" on page 1-31
"Step 9: Complete the Installation" on page 1-32
"Step 10: Start the Activation Application" on page 1-33
"Step 11: Specify the Location to License File" on page 1-34
"Step 12: Complete Activation" on page 1-35

Step 1: Before You Install

Before you run the installer:

- Make sure you have a *File Installation Key* and a License File. The File Installation Key is a code that determines which products you can install. The File Installation Key is not unique to a license. The License File identifies the products you can run. The administrator on the license can retrieve the File Installation Key and License File at the License Center at the MathWorks Web site. See License Center Help for instructions.
- Get the name and password of the administrator account on the system.

If you have an Internet connection, follow the instructions in "Installing MathWorks™ Software in a Standalone Environment" on page 1-3. The MathWorks recommends installing and activating automatically using an Internet connection.

You can use this procedure to install the software in a standalone environment and in network configurations. For detailed instructions about performing installing in a network configuration, see “Installing MathWorks™ Products in a Network Configuration” on page 1-37.

Note MathWorks products running on a Macintosh® system require X11 for Mac OS® X software. The MathWorks™ recommends installing this software before installing MathWorks products. See “System Requirements” on page 1-62 for more information.

Step 2: Start the Installer

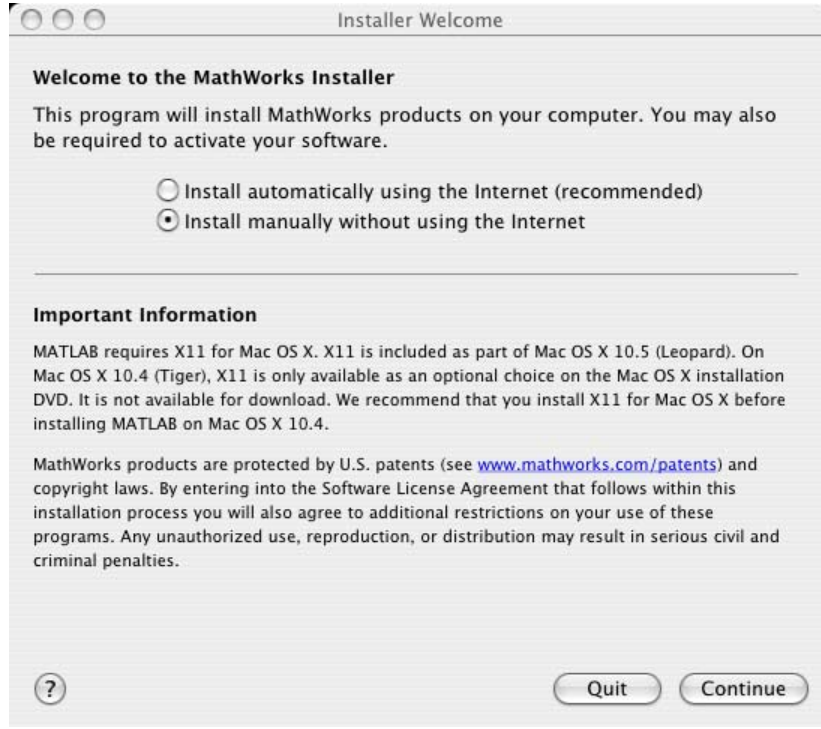
The MathWorks products are distributed on a DVD or over the Internet. Place the DVD in the DVD drive. When the DVD icon appears on the desktop, double-click the icon to display the DVD contents. Double-click the `InstallForMacOSX` icon to begin the installation.

Step 3: Enter System Authentication Information

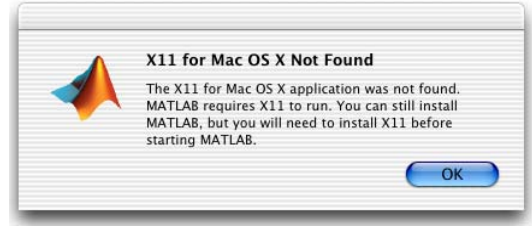
To install software on a Macintosh system, you must be the administrator of the system. Enter the name and password of the administrator account in the Authenticate dialog box. (The administrator account is the user account you set up when you configured your Macintosh system; this is not your MathWorks Account.) If you don’t know the user name and password for the administrator account on the system, ask your system administrator. Click **OK** to proceed with the installation.

Step 4: Choose Whether to Install Automatically or Manually

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



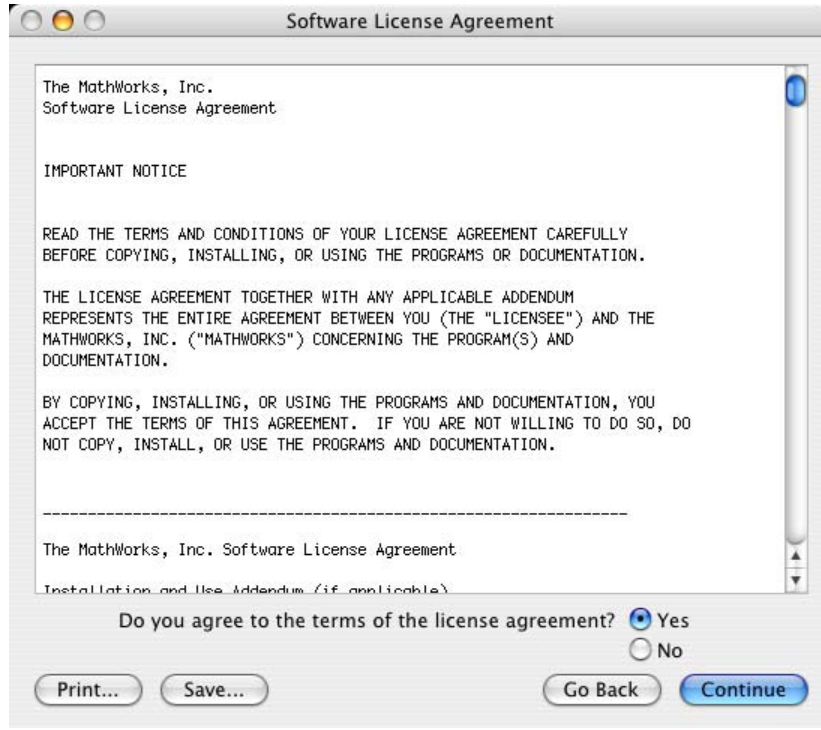
If you did not previously install X11 for Mac OS X software, you will see the following message.



You can continue with the installation by clicking **OK**, but you will not be able to run the MathWorks products until you install the X11 for Mac OS X software.

Step 5: Review the Software License Agreement

Review the Software License Agreement and, if you agree to its terms, select **Yes** and click **Continue** to proceed with the installation.



Step 6: Specify Installation Folder

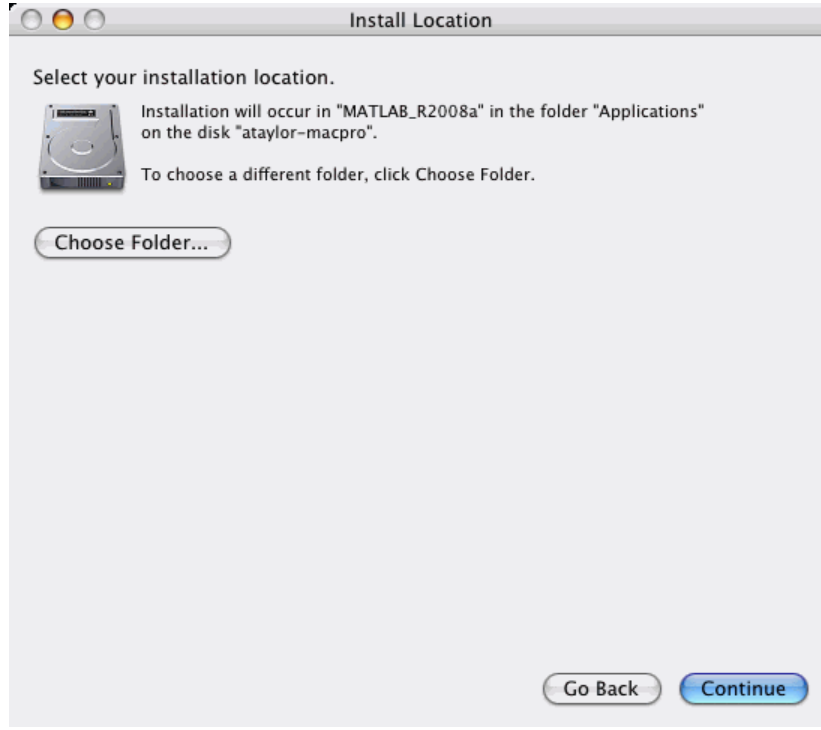
Specify the folder in which you want to install MathWorks products. The default installation location is a folder in the `Applications` folder on your system disk. To accept the default, click **Continue**. To change the location, click **Choose Folder**, and then navigate to the desired location.

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

When creating an installation folder, do not use spaces, the `@` character, the percent`%` character, or the `$` character in the name. Do not install into a folder named `private`, but you can have a folder named `private` on the path.

To create a folder on your system, you must have administrator privileges. For information on setting privileges, see Macintosh Help (**Command+?** from the desktop).

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



Step 7: Enter the File Installation Key

Enter your File Installation Key and click **Continue**.

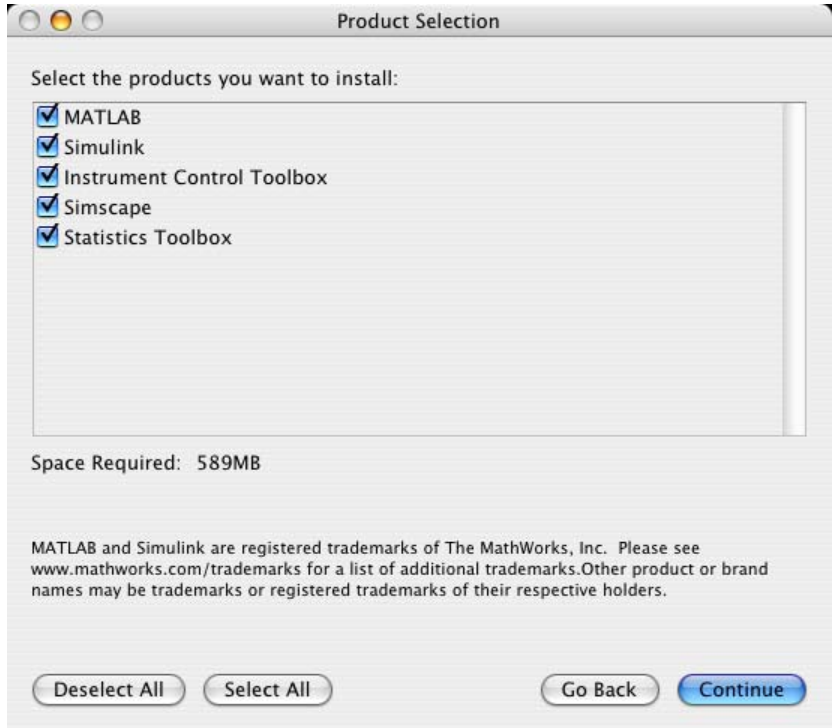
If you do not have your File Installation Key, note the host ID and release number information provided in the File Installation Key dialog box (you can print it) and exit the installer. Take this information to the License Center at the MathWorks Web site and retrieve the File Installation Key and License File you need to install and activate the software on this computer.

Step 8: Select the Products to Install

Select the products you want to install from the list of products available for installation. All products on the license are preselected for installation. For a complete list of MathWorks products that are supported on Macintosh systems, see Platform/Version Availability in the Products section of

`www.mathworks.com`. When you click **Continue** the installer starts copying product files to your destination folder.

If you are installing a network license option, the product list includes the license manager. For information about when to install the license manager, see “Installing MathWorks™ Products in a Network Configuration” on page 1-37.



Step 9: Complete the Installation

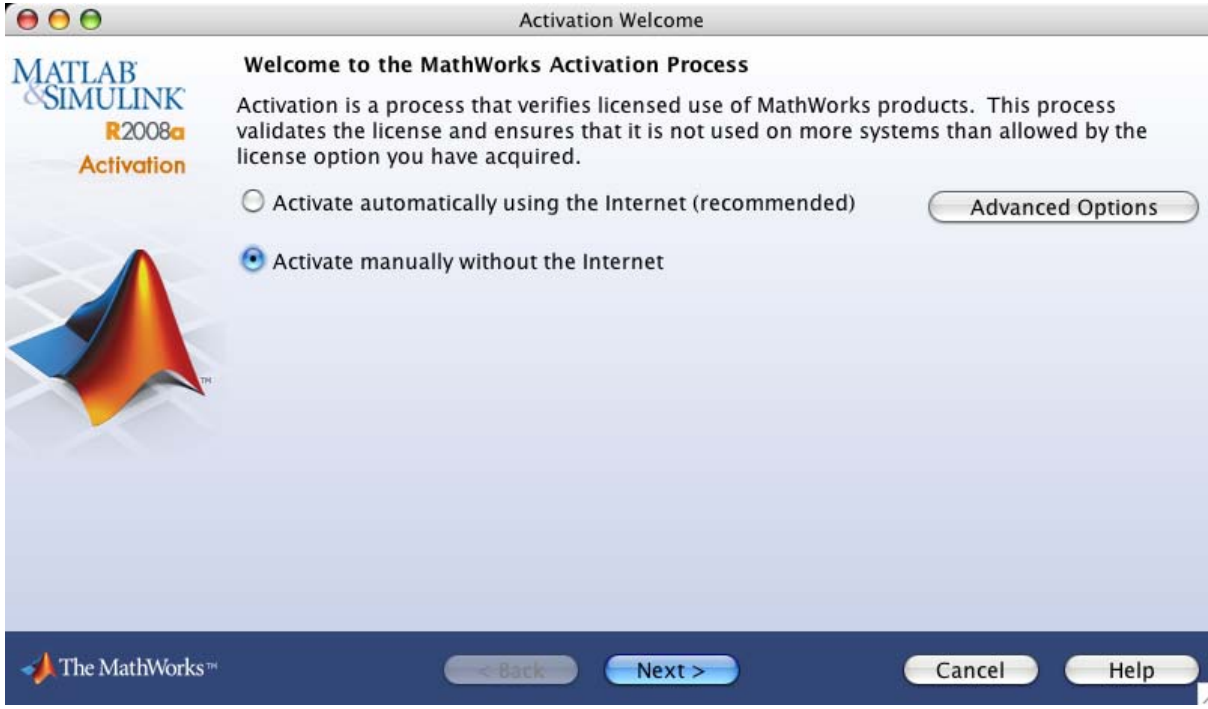
When the installation successfully completes, the installer displays the Installation Complete dialog box. This dialog box gives you the option to proceed directly to activating your installation. While you can activate as a separate process, The MathWorks recommends activating immediately after installing.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

This procedure for installing and activating without an Internet connection assumes you choose to continue with the activation process at “Step 10: Start the Activation Application” on page 1-33.

For general information about some common post-installation tasks, see “After You Install” on page 1-52.

Step 10: Start the Activation Application

If you left the **Activate MATLAB** option selected on the Installation Complete dialog box, or started the activation application independently, the activation application displays the welcome dialog box. Select the **Activate manually without the Internet** option and click **Next**.



Step 11: Specify the Location to License File

Specify the full path for the License File associated with the installation of this license or use the **Browse** button to find the file. The administrator on the license can retrieve the License File and File Installation Key at the License Center.

If you do not have your License File, select the **I do not have a License File** option. See “When You Do Not Have a License File” on page 1-35 for more information.

Click **Next** to proceed with activation.

When You Do Not Have a License File

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

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

Step 12: Complete Activation

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

Activation Complete
MATLAB
& SIMULINK
R2008a
Activation
Activation is complete.
Start MATLAB
The MathWorks™
Finish

Installing MathWorks™ Products in a Network Configuration

In this section...

"Step 1: Before You Install" on page 1-37
"Step 2: Start the Installer" on page 1-38
"Step 3: Enter System Authentication Information" on page 1-38
"Step 4: Choose Whether to Install Automatically or Manually" on page 1-39
"Step 5: Review the Software License Agreement" on page 1-41
"Step 6: Specify Installation Folder" on page 1-41
"Step 7: Log In to Your MathWorks Account" on page 1-43
"Step 8: Select the License You Want to Install" on page 1-44
"Step 9: Select the Products to Install" on page 1-45
"Step 10: Specify Location of License File " on page 1-46
"Step 11: Configure the License Manager (License Server Installations Only)" on page 1-49
"Step 12: Complete the Installation" on page 1-50

Step 1: Before You Install

Before you run the installer:

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

  If you don't have a MathWorks Account, you can create one during installation. However, to do this, you must have an *Activation Key*. An

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

- Get the name and password of the administrator account on the system.

If you do not have an Internet connection during installation, see "Installing and Activating Without an Internet Connection" on page 1-25. Note that for network installs there are a few additional steps during installation.

If you need to perform an installation in a standalone environment, see "Installing MathWorks™ Software in a Standalone Environment" on page 1-3.

Note MathWorks products running on a Macintosh® system require X11 for Mac OS® X software. The MathWorks recommends installing this software before installing MathWorks products. See "System Requirements" on page 1-62 for more information.

Step 2: Start the Installer

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

When the DVD icon appears on the desktop, double-click the icon to display the DVD contents. Double-click the `InstallForMacOSX` icon to begin the installation.

Step 3: Enter System Authentication Information

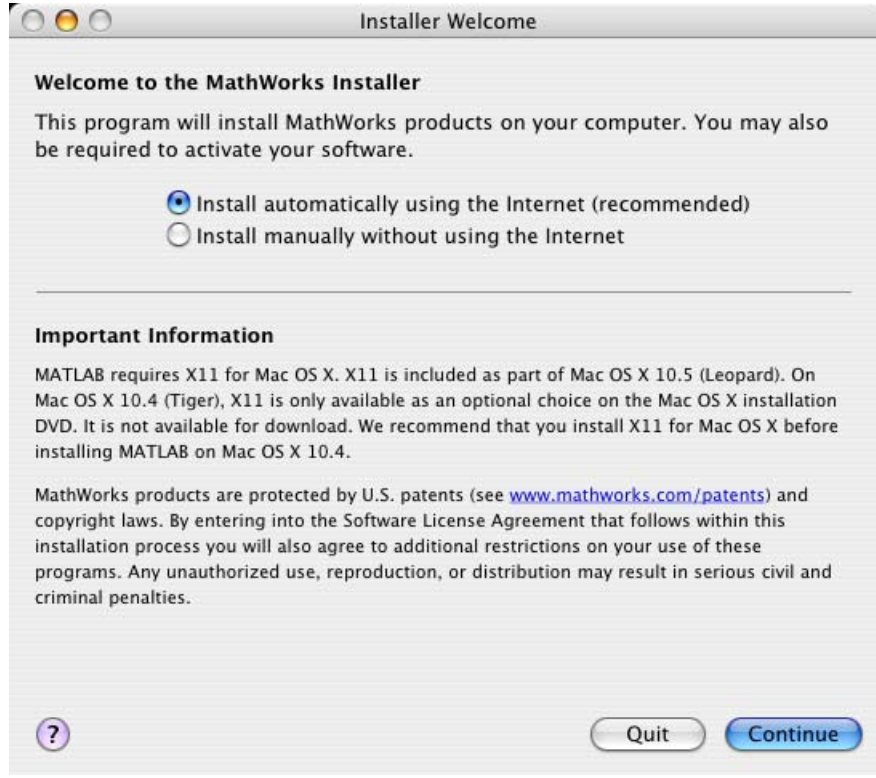
To install software on a Macintosh system, you must be the administrator of the system. Enter the name and password of the administrator account in the Authenticate dialog box. (The administrator account is the user account you set up when you configured your Macintosh system; this is not your MathWorks Account.) If you don't know the user name and password for the administrator account on the system, ask your system administrator. Click **OK** to proceed with the installation.

Step 4: Choose Whether to Install Automatically or Manually

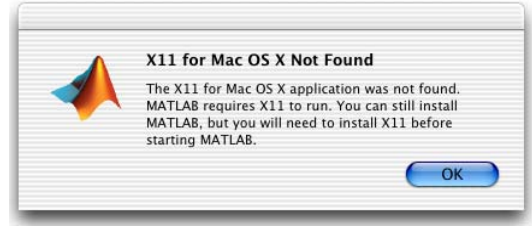
The installer displays the welcome dialog box. You must choose whether you want to install automatically or whether to install manually. If you install automatically, the installer contacts The MathWorks during installation. The MathWorks recommends installing automatically. If you choose to install manually, see “Installing and Activating Without an Internet Connection” on page 1-25 for step-by-step instructions.

For a network installation, you can choose either option.

Make your selection and click **Continue** to proceed with the installation.



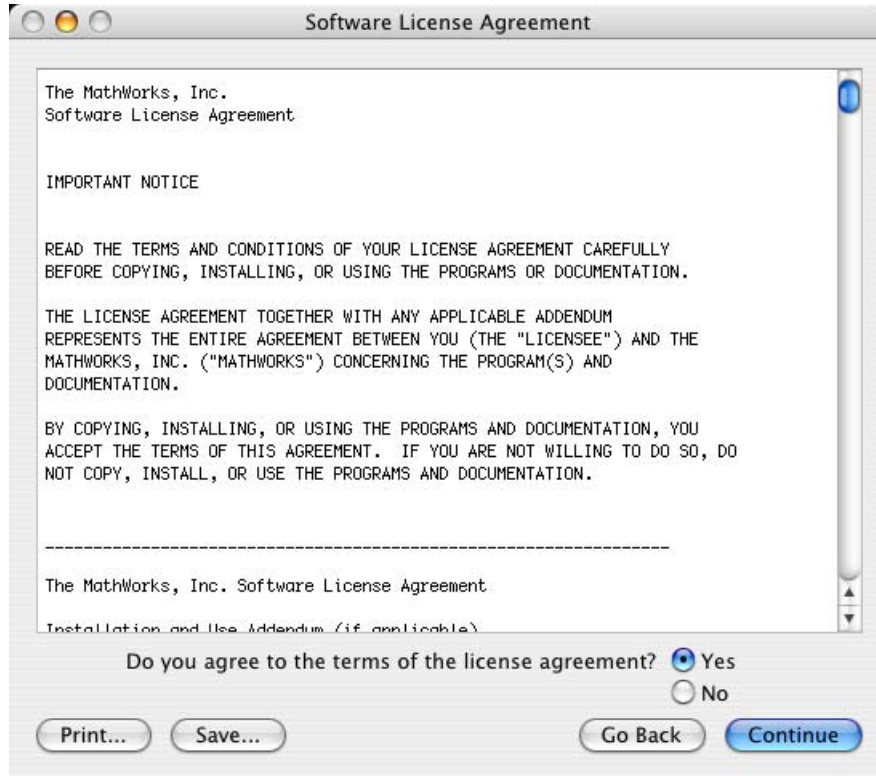
If you did not previously install X11 for Mac OS X, you will see the following message.



You can continue with the installation by clicking **OK**, but note that you will not be able to run the MathWorks products until you install the X11 for Mac OS X software on your computer.

Step 5: Review the Software License Agreement

Review the Software License Agreement and, if you agree to its terms, select **Yes** and click **Continue** to proceed with the installation.



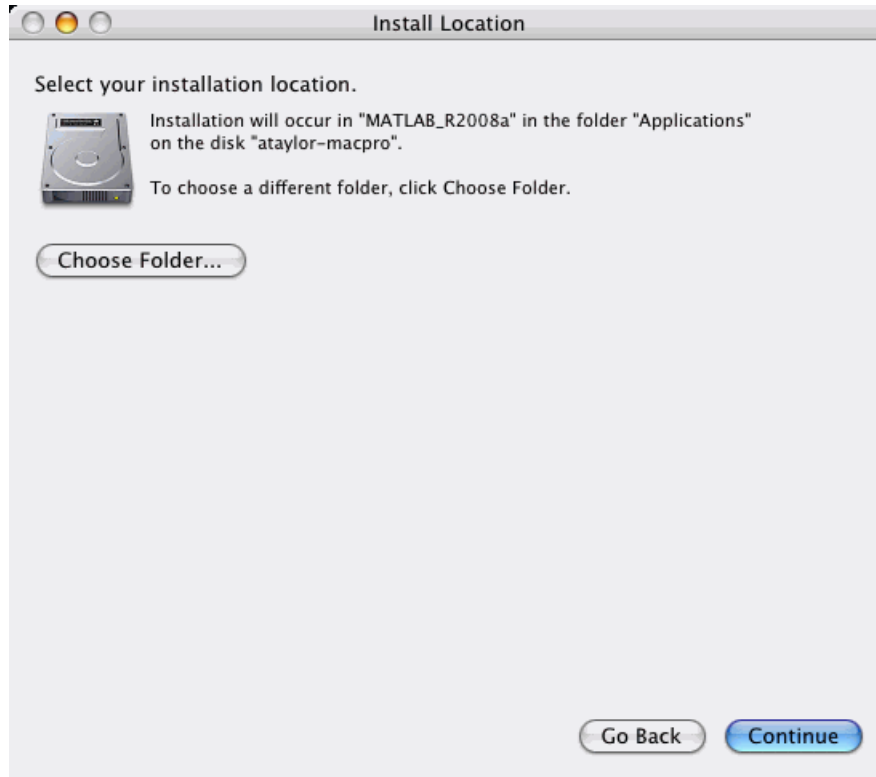
Step 6: Specify Installation Folder

Specify the folder in which you want to install MathWorks products. By default, the installer puts the products files in a release-specific folder in the `Applications` folder on your system disk. To accept the default, click **Continue**. To change the location, click **Choose Folder**, and then navigate to the desired location.

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

When creating an installation folder, do not use spaces, the `@` character, the percent `%` character, or the `$` character in the name. Do not install into a folder named `private`, but you can have a folder named `private` on the path.

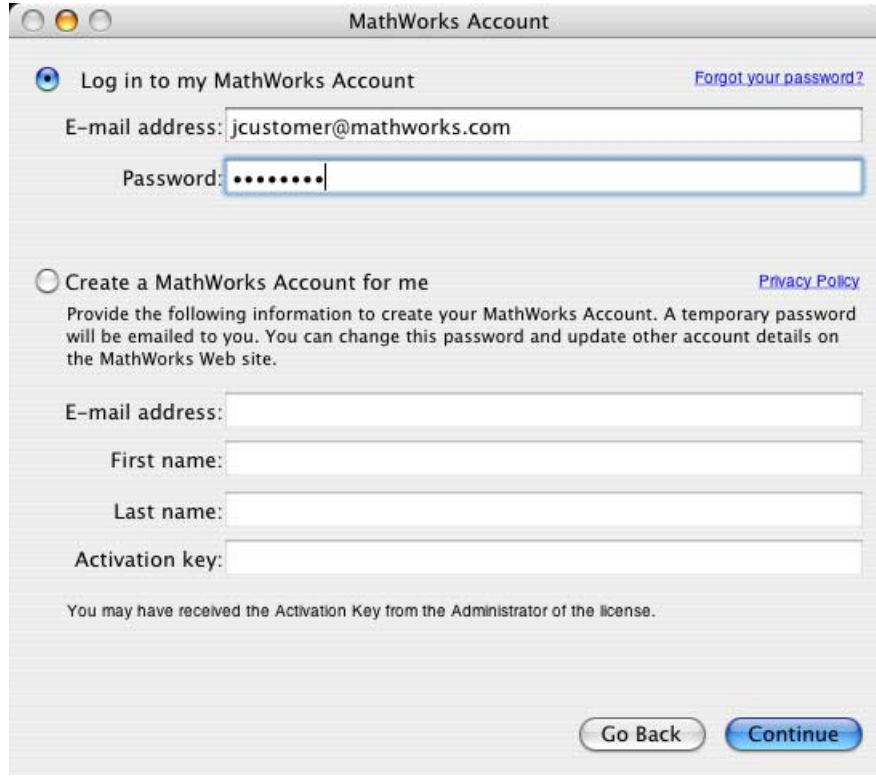
To create a folder on your system, you must have administrator privileges. For information on setting privileges, see Macintosh Help (**Command+?** from the desktop).



Step 7: Log In to Your MathWorks Account

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

If you do not have a MathWorks Account, select the **Create a MathWorks Account for me** option and enter the information requested. To create a MathWorks Account during installation, you must provide an Activation Key. A new account will not have any licenses associated with it. The Activation Key identifies the license you want to install. After entering your account information, click **Continue** to proceed with installation.



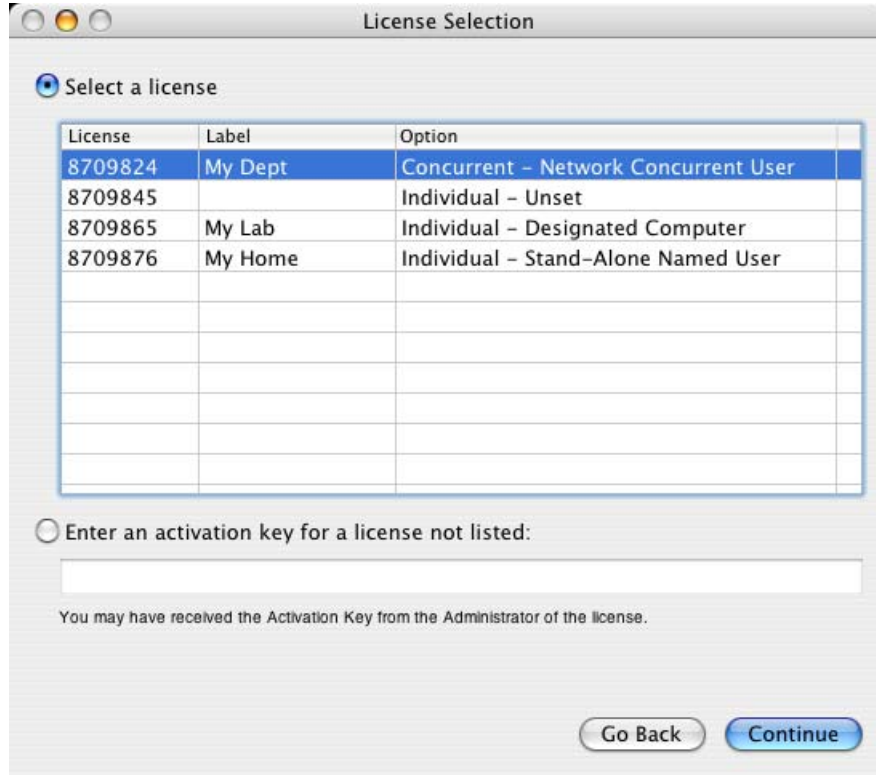
Step 8: Select the License You Want to Install

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

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

Select the license you want to install by clicking anywhere in the row. For a network configuration, select a Concurrent license from the list. Click **OK** to proceed with the installation.

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

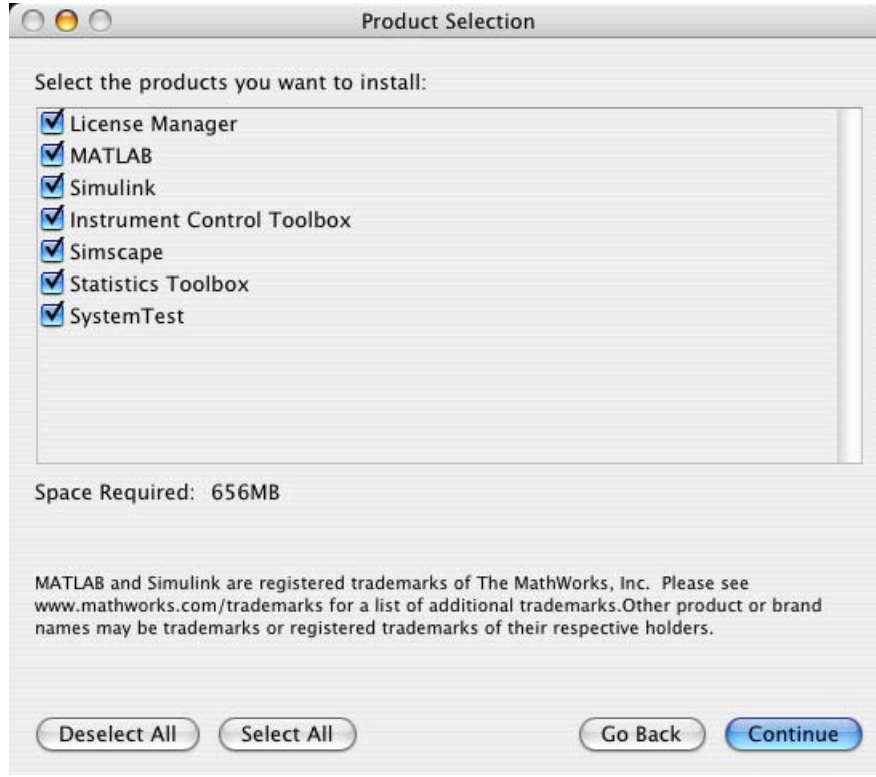


Step 9: Select the Products to Install

Specify the products you want to install in the Product Selection dialog box, and then click **Continue**. Your product selection depends on your network configuration:

- If you are installing only the license manager on a server, leave the check boxes next to all the other products clear.
- If you are installing the license manager and MathWorks products on the same server, select all the products including the license manager.
- If you are installing the software on a client computer, leave all the products on the list selected, except the license manager. You do not need to install the license manager on client systems.

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

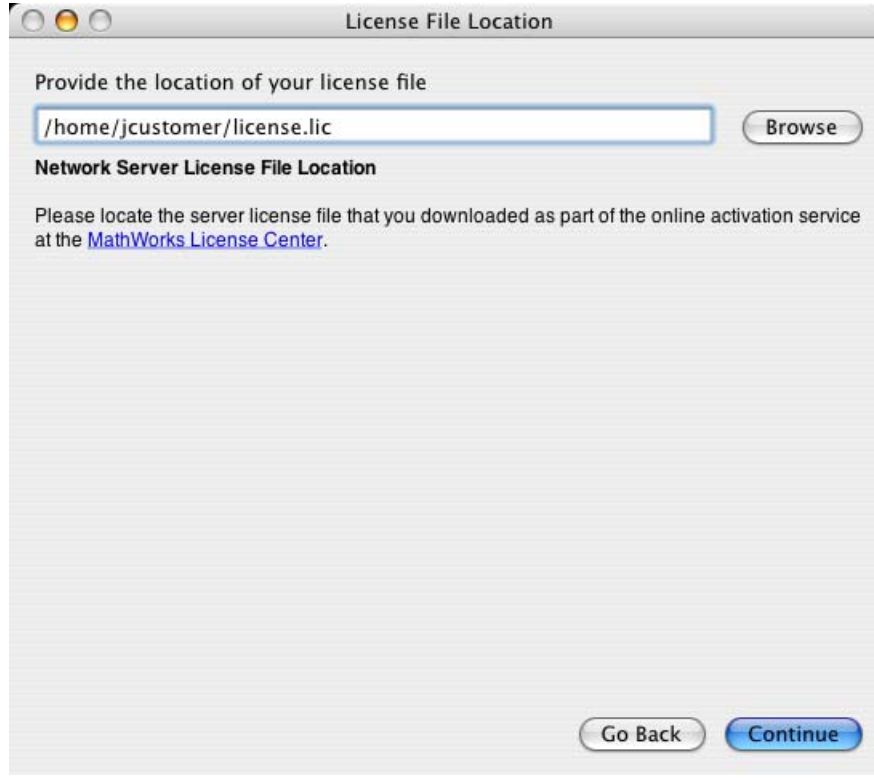


Step 10: Specify Location of License File

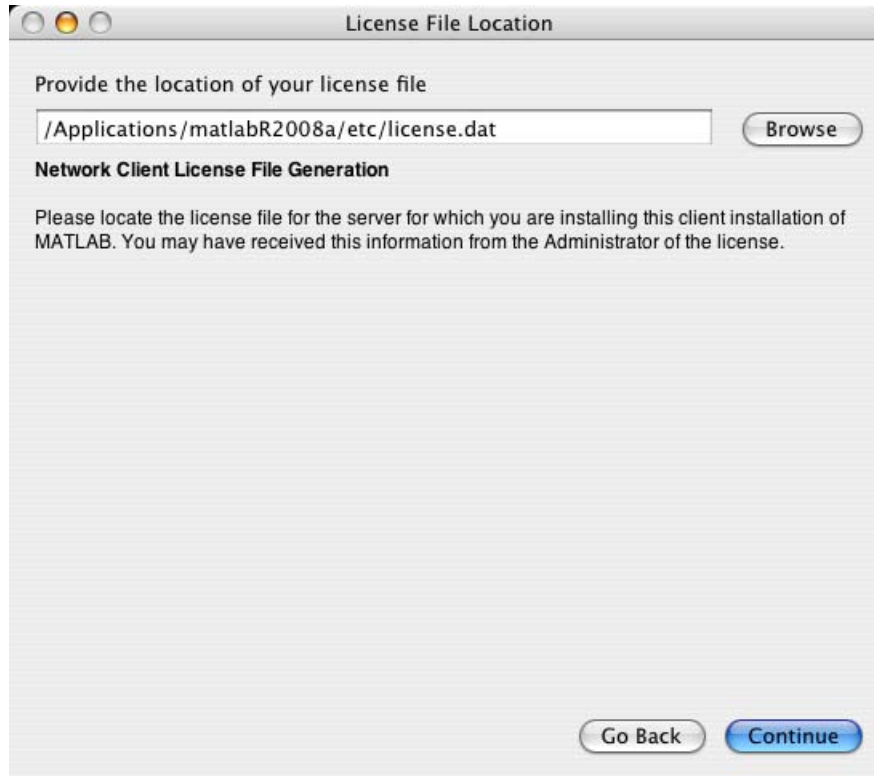
Specify the path for the License File and click **Continue**.

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

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



- If you are *not* installing the license manager, specify the name of the License File on your license server—see "License File Processing on Server and Client Installations" on page 1-48 for more information.



License File Processing on Server and Client Installations

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

- Makes a copy of your License File, naming it `license.dat`, and puts this copy of the License File in the `/etc` directory of your MATLAB® installation directory.
- 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 (`matlabroot/etc/lm_matlab`)

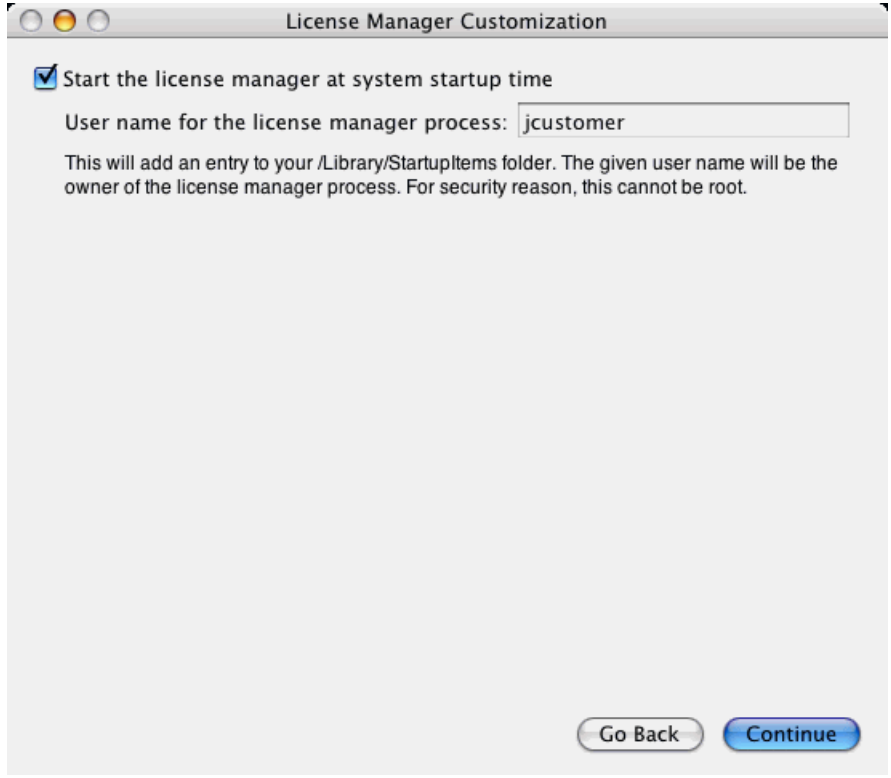
During a client installation, where you do not install the license manager, you must specify the location of the License File that the installer processed during installation of the license manager on the server. The installer performs this processing of the License File on client systems:

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

Step 11: Configure the License Manager (License Server Installations Only)

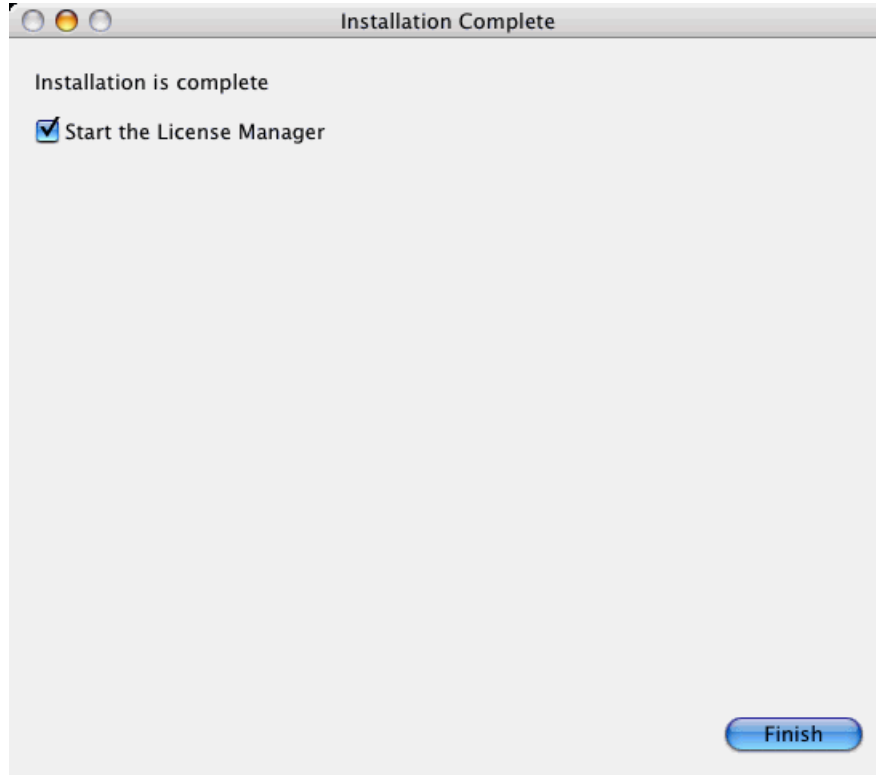
If you selected a network license in the License Selection dialog box, and you specified that you wanted to install the license manager, the installer displays the License Manager Customization dialog box. To configure the license manager to start at system startup time, leave the option selected and click **Continue**.

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 start-up process on the computer, before network users are available.



Step 12: Complete the Installation

When the installation successfully completes, the installer displays the Installation Complete dialog box. For network licenses, you do not need to continue with the activation application. The License File you specified during installation was already activated by The MathWorks. The installer can start the license manager for you as it exits if you leave the option selected. If you clear this option, you must start the license manager yourself. Click **Finish** to exit the installer.



After the installation is complete, you can drag the DVD icon to the trash and remove the DVD from the DVD drive.

After You Install

In this section...

"Starting MATLAB® Software" on page 1-52
"Validating an Installation" on page 1-52
"Putting the MATLAB® Installation Directory on the Path" on page 1-53
"Setting Up MATLAB® Printing Options" on page 1-54
"Starting the License Manager" on page 1-54
"Disabling the License Manager" on page 1-56

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

Starting MATLAB® Software

To be able to start MATLAB® software:

- X11 for Macintosh® OS X software must be installed on your system
- License manager must be running (if your installation requires it)

To start MATLAB, navigate to the MATLAB installation folder and double-click on the MATLAB icon.

If you installed the license manager and accepted the defaults, the license manager automatically starts at system startup. If you choose to run the license manager manually, see "Starting the License Manager" on page 1-54.

Validating an Installation

Throughout the term of your license, your MATLAB installation periodically contacts the MathWorks to verify that your license is up-to-date. If your license is up-to-date, the validation process is transparent. If it determines that you need to update your license, the validation process displays a dialog box giving you the option to update your license. Validation updates

expiring licenses and License Files with product configuration changes. (You can also check for License File updates at any time by selecting the **Help>Licensing>Update Licenses** option from the MATLAB desktop.)

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

Putting the MATLAB® Installation Directory on the Path

If you want to start MATLAB software by just typing `matlab` at the UNIX® prompt, you must put the location of the MATLAB software have on your path. If the MATLAB software is not on the path, you will need to type the full path each time to run the MATLAB software from the prompt.

To put the MATLAB software on the path, you can add a symbolic link to the `matlab` command in a directory that is already on your path. For example, on a standalone, single-user machine, you can use `/usr/bin`.

You can add the symbolic link at the UNIX prompt by entering

```
ln -s matlabroot/bin/matlab
```

where *`matlabroot`* is the full path to your top-level MATLAB installation directory (as returned by the `matlabroot` command.) You must execute this command in a directory that is currently on the path, for example, `/usr/bin`. (To add `mex` and `mbuild` to the path, you must repeat the same process.)

For information on adding symbolic links on multiuser machines, see the installation guide for UNIX systems..

Note If you add symbolic links, you might need to rehash the UNIX path. Type `rehash` at the UNIX prompt.

Setting Up MATLAB® Printing Options

Printers must be added to the Printer Setup Utility in the `/Applications/Utilities` directory for MATLAB to recognize them. The MATLAB `print` command uses `lpr` like other UNIX systems. MATLAB uses the Macintosh default printer as set in the Printer Setup Utility if you do not use `-P<printer>`. For example, to print the current figure to printer `trinity`, you can use

```
print -Ptrinity
```

To set up a printer, open the Printer Setup Utility in `/Applications/Utilities`. Click **Add Printer**. Refer to Macintosh Help (**Command+?**) for additional information.

Starting the License Manager

In installations where the license manager is needed, the installation process automatically configures the license manager to start when you start your system. If you accepted the defaults when you installed your MathWorks products, the installer configures the license manager to start automatically when you start your machine. If you chose not to configure the license manager during installation, the following sections describe how to configure the license manager to start at startup time or to start the license manager manually:

- "Copying the License Manager Startup Script into the Macintosh® `StartUpItems` Folder" on page 1-55
- "Starting the License Manager Manually" on page 1-55

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 start-up process on the computer, before network users are available.

Copying the License Manager Startup Script into the Macintosh® `StartUpItems` Folder

The following procedure explains how to set this up manually. You must be an administrator to install this startup folder:

1. Navigate to the top-level `/Library` folder.
2. Create a folder within `/Library` called `StartupItems`, if it does not already exist.
3. Copy the *`matlabroot`*`/etc/MATLABLmgr` folder into the `StartupItems` folder.
4. Run the `Terminal` application (located in `/Applications/Utilities`) and in the Terminal window enter the commands:

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

5. The `config_lm.sh` script asks you to enter the directory where your MathWorks products are installed, that is, the MATLAB root directory (*`matlabroot`*). For example, if your MATLAB products are installed in `/Applications/MATLAB_R2008a`, you would enter:

   ```
   /Applications/MATLAB_R2008a
   ```

6. The script then asks for 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 "Troubleshooting" on page 1-64 for more information.

Starting the License Manager Manually

To start the license manager manually,

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_R2008a/etc
```

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

```
./lmstart
```

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.

Disabling 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 the folder** field 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 and Deactivating a MATLAB® Installation

In this section...

"Deactivating an Installation" on page 1-57

"Removing a MATLAB® Installation" on page 1-60

"Removing the License Manager" on page 1-61

Deactivating an Installation

Deactivating an installation renders the MathWorks software unusable on a particular computer. After deactivating an installation, you might want to also remove the installation from your computer. Deactivating an installation and removing the software are separate steps. You can deactivate an installation without removing the software from your computer. To use the deactivation application on your computer, deactivate before removing your MATLAB installation. For more information about removing an installation, see "Removing a MATLAB® Installation" on page 1-60.

To deactivate a MATLAB installation on your computer, follow this procedure.

Note When you deactivate a license, you deactivate all the installations for that license on a particular computer.

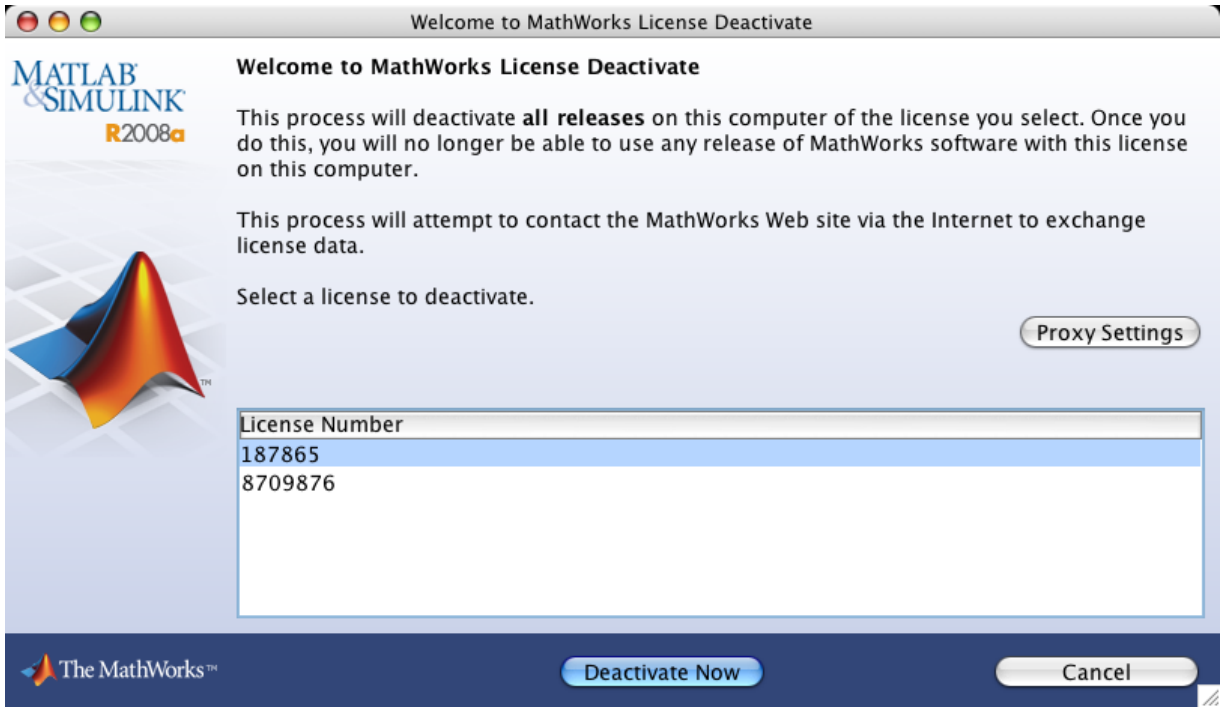
---

1. Start the deactivation application. Navigate to the *matlabroot*`/bin` directory and run the `deactivate_matlab.sh` script, where *matlabroot* represents your MATLAB installation directory.

   ```
   cd matlabroot/bin
   ./deactivate_matlab.sh
   ```

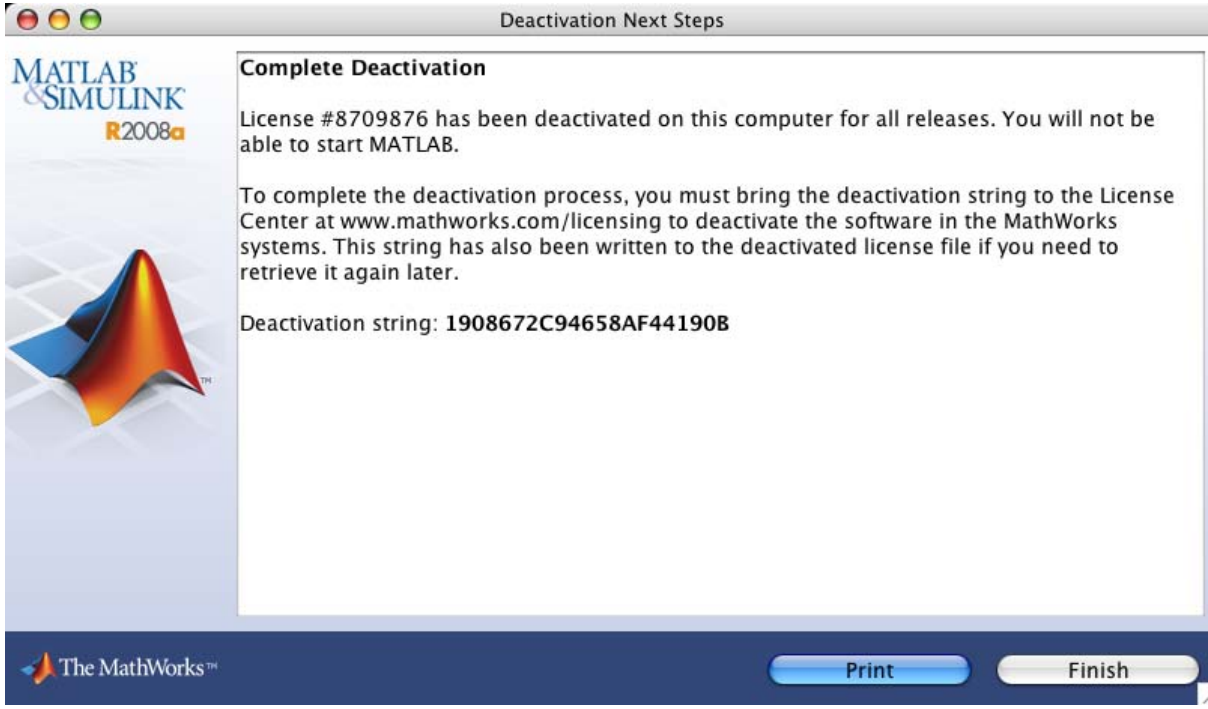
   You can also deactivate a MATLAB installation by choosing the **Help>Licensing>Deactivate Current License** option on the MATLAB desktop.

2. Select the license you want to deactivate in the deactivation application welcome dialog box and click **Deactivate Now**.



3 When the deactivation application finishes deactivating your license, it displays the Deactivation Complete dialog box.

If it cannot contact the MathWorks, the deactivation application 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, click Manage Licenses, and enter the deactivation string. See the License Center help for more information.



Removing a MATLAB® Installation

Removing a MATLAB installation deletes the MathWorks product files from your computer. After removing an installation, you might want to also deactivate the installation. Removing the software and deactivating an installation are separate steps. You can deactivate an installation without removing the software from your computer. For more information about deactivation, see “Deactivating an Installation” on page 1-57.

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.

See the installation guide for UNIX® for information about the `lmdown` command.

3 Navigate to your MATLAB installation folder. For example, the installation folder might be named `MATLAB_R2008a` in your `Applications` folder.

4 Drag the `MATLAB_R2008a` folder to the trash, and then select **Empty Trash** from the **Finder** menu.

Removing the License Manager

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

2 In the **Go to the folder** field 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.

System Requirements

In this section...
“Platforms” on page 1-62
“Graphics” on page 1-63
“Java Virtual Machine” on page 1-63
“Compilers (for MEX Files)” on page 1-63

Note For the most up-to-date information about system requirements, go to the MathWorks™ Web site (`www.mathworks.com`) and click **Support**. On the Support page, click **System Requirements**.

The MathWorks products running on Macintosh® systems require X11 for Mac OS® X software. The MathWorks recommends installing this software before installing MathWorks products. On Leopard, this software is part of the default system installation. For other systems, you can either install X11 from Optional Installs on the Installer Disk that came with your Macintosh system or download it from the Apple® Web site. For Mac OS 10.4 (Tiger), you must install the X11 software from the Apple developer DVD; it is not available for download at the Apple Web site. Be sure to use the appropriate DVD for your platform.

Platforms

Macintosh®

	Operating Environment	Processor	Disk Space	RAM
32-bit MathWorks Products	Mac OS X 10.4 (10.4.8. and above) Mac OS X 10.5	Intel®	510 MB (MATLAB® only)	512 MB (1024 MB recommended)

Graphics

X11 (X server) for Mac OS X

Java Virtual Machine

Java™ Runtime Environment 1.5 Release 4.

Compilers (for MEX Files)

For the most up-to-date information about compilers, go to the MathWorks Web site (`www.mathworks.com`) and click **Support**.

Troubleshooting

The following sections describe some common trouble spots when working with the license manager. For more help, visit the Support page at the MathWorks Web site.

In this section...
“Activating Without a MathWorks Account” on page 1-64
“Getting Help with License Manager Error Messages” on page 1-65

Activating Without a MathWorks Account

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

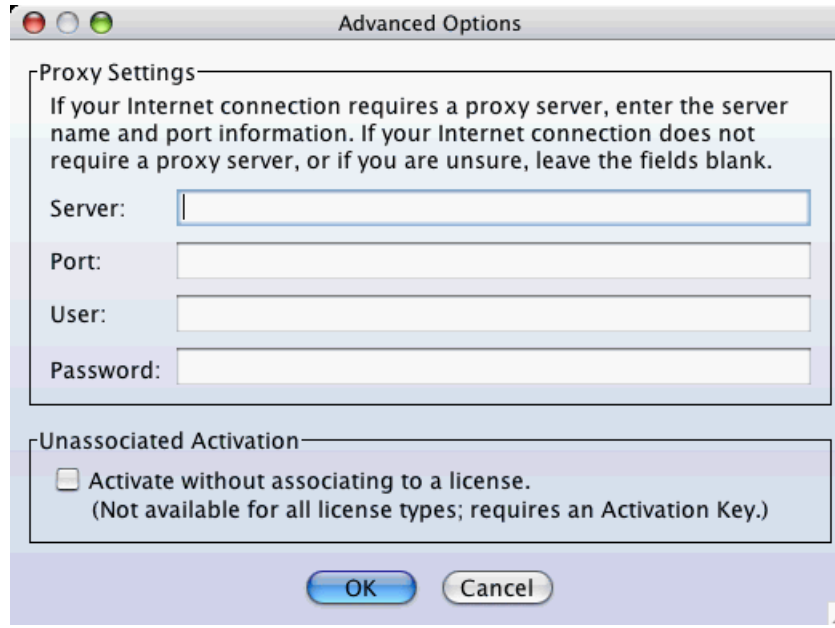
To activate without providing MathWorks Account information, follow this procedure.

1. Start the installer. On the welcome dialog box, select the install manually without using the Internet option. You will need a File Installation Key. (See “Installing and Activating Without an Internet Connection” on page 1-25 for complete instructions.)

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

3. In the Activation Welcome dialog box:

   - Choose **Activate automatically using the Internet**. To perform install and activate without associating with a MathWorks Account, you must use the Internet.
   - Click **Advanced Options**. In the Advanced Options dialog box, select the **Activate without associating to a license** option and click **OK**.



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

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

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

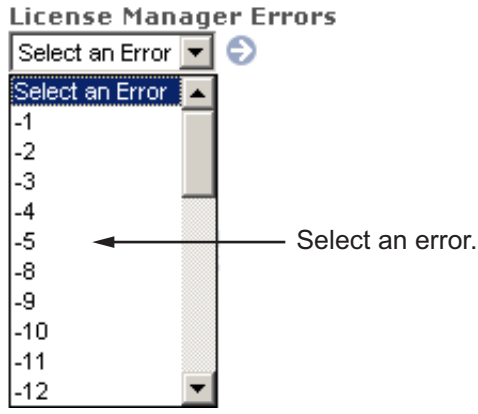
---

5 Click **Activate**.

Getting Help with License Manager Error Messages

When a problem occurs, the license manager displays an error message in a window on your display. Read the error message carefully—it provides information that can help solve the problem. For more complete diagnostic information about an error message, visit the Support page at the MathWorks Web site (`www.mathworks.com`) and click **Installation Troubleshooting**.

On this page, you can search the support database for solutions by license manager error number or you can select the error number from the **License Manager Errors** menu.



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

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