Installation and Administration Manual for PADS

Release VX.2.6

September 2019

Note - Viewing PDF files within a web browser causes some links not to function (see MG595892).
Use HTML for full navigation.

Table of Contents

End-User License Agreement
with EDA Software Supplemental Terms

Mentor® software uses the Mentor Standard Licensing (MSL) system to administer software licenses. MSL is based on FlexNet™ licensing and uses the FlexNet license file format.

Refer to the *Mentor Standard Licensing Manual* (*mgc_licen.pdf*) for details, including:

- FlexNet components and the benefits of MSL overview
- License types
- License file format
- How to determine your host id for licensing
- Additional licensing resources
- License configuration and management on Linux[1]/UNIX and on Microsoft® Windows®
- Environment variables to control your licensing environment
- Troubleshooting for common licensing issues
- Mentor and key FlexNet licensing utilities that provide the ability to manage your licenses and license servers
- Advanced topics such as the vendor daemon options file, license ordering in a license file, firewall considerations, and the removal of expired licenses from your license file
- Glossary of terms

For more information about FlexNet components, refer to the *FlexNet Publisher License Administration Guide* published by Flexera Software.

Editing the License File for Floating Licenses

The floating license file, which Mentor provides, contains some placeholder information. Edit the placeholder data by replacing it with information correct for your site.

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1. Linux® is the registered trademark of Linus Torvalds in the U.S. and other countries.

> ──── **Tip** ────
> ⓘ This task can be performed automatically during installation. For more information, see
> "Completing License Configuration" on page 29.

Refer to "Configuring a Machine as a License Server" on page 30 for information on the
automated license server installation.

Procedure

1. On the license server computer, open a text editor (for example, Notepad) to edit the
   license file.

2. Acquire the TCP/IP hostname of the server that will host the license server. To find the
   correct hostname, open a command window and execute the ipconfig /all command.

3. Edit the SERVER line of the license file to reflect the correct hostname. You must
   change the field immediately after the keyword SERVER, put_server_name_here, to the
   TCP/IP hostname on which the server is to run. Be sure you replace that entire string
   with the actual hostname.

4. Verify the port number. The fourth field of the SERVER line is the communication port
   number. The default value is 1717. This number can be set to any other port number
   which is currently not in use.

   Here is an example of a SERVER line after editing:

   ```
   SERVER cipher 00C04FA124CB 1717
   ```

5. Edit the DAEMON line to include the path to the mgcld vendor daemon. On the
   DAEMON line, you must edit the third field, path_to_mgcld, to an absolute pathname
   which resolves to the *mgcld.exe* executable, which is located in the directory where the
   license server software was installed. By default, this is the *C:\MentorGraphics\
   Licensing* directory. Locate *mgcld.exe* and specify its path.

   Here is an example of a DAEMON line after editing:

   ```
   DAEMON mgcld C:\MentorGraphics\Licensing\mgcld.exe
   ```

   > ──── **Tip** ────
   > ⓘ The pathname you specify on the DAEMON line must not have spaces. You can use
   > long filenames provided they do not use spaces. If the path specified contains a
   > space, surround the entire path with double quotes, or convert it to a MS-DOS format
   > filename. For example, Program Files becomes Progra~1. If you cannot locate
   > *mgcld.exe* on your license server computer, you probably have not installed Mentor
   > licensing. If you require assistance with this step, submit a Service Request on Support
   > Center for help from Customer Support.

6. In the license file, ensure that there are no blank spaces at the end of any line.

Starting the License Server for Floating and Node-locked Counted Only Licenses

If you are using floating or node-locked counted licenses, use the following procedure to start the license server.

> _____ **Note** _____
> This task can be performed automatically during the install process. For more information, see "Configuring a Machine as a License Server" on page 30.

Prerequisites

- The license server should be installed. Refer to "Configuring a Machine as a License Server" on page 30 for instructions on how to use the automated license server installation provided in the Mentor Install program.

Procedure

1. Define the license server service. You need to configure this application to run the server to your specifications. An application, *lmtools.exe*, controls the license server.

   > _____ **Note** _____
   > Typically, this program is found at **Start menu > Mentor Graphics Licensing**. If you do not see it there, search the license server hard drive for the file name *lmtools.exe*. Some tools store this executable inside the tree.

   a. Invoke **LMTOOLS** from the Start menu or by double-clicking on the executable. The executable is typically located in the Start menu in either Mentor Graphics Licensing or **PADS VX.2.6 (32-bit)**.

   b. On the **Service/License File** tab, select Configuration Using Services.

   c. Select the **Config Services tab**.

   d. Fill in the Path to the *lmgrd.exe* file box. The *lmgrd.exe* file is found in the directory where you installed the license server software. By default, the location is *C:\Mentor Graphics\Licensing*.

   e. Fill in the remaining fields with the information appropriate to your system. Browsing for the license file only looks for files of type **.lic* by default. Change the search criteria if the license file name ends in *.dat* or *.txt*. Make sure to select the "Use Services" and "Start Server at Power Up" check boxes.

   f. Click the **Save Service** button and click **Yes**.

2. You must start the license server before it can serve licenses.

   a. Invoke LMTOOLS from the Start menu or by double-clicking on the executable.

    b.   Select Configuration using Services.

    c.   Select the **Start/Stop/Reread** tab.

    d.   Verify that the desired license server service is highlighted, then click the **Start Server** button.

3. Verify the server is running.

    a.   Invoke LMTOOLS.

    b.   Select the **Server Status** tab.

    c.   Click the **Perform Status Enquiry** button.

    d.   Ensure that the license server reports a status of UP and that there are no errors.

4. On each client computer, define an environment variable to point to the license server. The clients must know how to contact the server in order to check out a license.

    a.   Navigate to System Properties. Right-click on the Windows **Start** menu button and click the **Search** menu item.

    b.   Type "Environment Variables" and then choose the "Edit the system environment variables" search result.

    c.   In the System Properties dialog box, on the **Advanced** tab, click **Environment Variables**.

    d.   Environment Variables dialog box, in the System variables list, create or edit the variable MGLS_LICENSE_FILE. Define the variable using the port number and host name of the license server. For example: 1717@cipher.

Tip

You can execute the **Install License File VX.2.6** menu item from **Start menu > PADS VX.2.6 (32-bit)**. Select the Network/Floating Licensing client.

Tip

MGLS_LICENSE_FILE can be created as a System variable, available to all users that log in to this system, or it can be created as a User variable, available only to the current user. A user with Administrator privileges may create a System variable. Be sure that only one variable points to your license server. Duplicate pointers can slow down performance and may cause other technical problems.

Verifying a Workstation Can Check Out a License

The pcls_ok application tests license checkout on computers running the Windows operating system. This verification method works with both floating and Mobile Compute licenses.

Procedure

1. Invoke pcls_ok from the Start menu or by double-clicking on one of the following:

   - Click the **Start menu > Mentor Graphics Licensing > pcls_ok** menu item.

   - Click the **Start menu > PADS VX.2.6 (32-bit) > pcls_ok** menu item.

   If you do not find it in either of these places or in the C:\MentorGraphics\Licensing\ folder, search C:\MentorGraphics\ for the file name *pcls_ok.exe* since some Mentor tools also store this executable inside the software tree.

2. Test checkout of a specific license by typing the license name pwrshell into the Feature box and click the **Apply** button.

   > **Tip**
   > You can identify license names by looking in the license file. The field to the right of the word INCREMENT is the license name.

   A success or failure message is displayed. If you receive a success message, it indicates you can check out licenses successfully from that workstation. If you receive a failure message, click [>>>Details] for more information. In the event of a failure message, contact Customer Support or your local sales office for assistance.

This section provides information about installing Mentor application software and documentation with the Mentor Install Program (MIP).

Before you begin installation, you should do the following:

- Obtain your Mentor software licenses.

- Install and configure your licensing environment so that you can take advantage of the MIP automatic product selection based on available licenses.

- Check your system requirements. Refer to the Release Highlights document for the release.

- Download the Mentor software from Support Center if you do not install your Mentor software from a DVD or CD.

Prerequisites for Installation

The following are prerequisites to the Mentor PADS product installation.

- Check the system requirements for installing and running the software. Refer to the Release Highlights document for the release.

- You need Administrator permissions to install PADS software.

- You can run the PADS software or switch PADS versions without Administrator permissions. For more information, see "System Permission Requirements for Installation on Windows" on page 15.

- For Floating Network licenses, PADS VX.2.6 requires a minimum of FlexNet 11.16.0.0 software on the license server. Refer to Support Center, and specifically, technote MG55496 for instructions on using the automated method for upgrading the licensing software on the server.

  https://support.mentor.com/en/knowledge-base/MG55496

- This release uses the Microsoft Visual C++ 2017 compiler which has a runtime compatibility requirement. During installation, the installer checks your system automatically to see if it meets these requirements. If not, the Microsoft Visual C++ 2017 Redistribution software is installed.

  In some cases, this requires your system to be rebooted. If a reboot is required, a message appears where you must click the **OK** button. Installation cannot be successfully completed until after a reboot. Once the system has been rebooted, you must restart the Mentor Install program and continue your installation.

  ___Tip___
  You can avoid this potential reboot by pre-installing the Microsoft Visual C++ 2017 Redistribution software package before you install the PADS VX.2.6 release.

  The Microsoft Visual C++ 2017 Redistributable software package may be obtained from Microsoft:

  https://go.microsoft.com/fwlink/?LinkId=746572

> **Note**
>
> If you are performing batch or third party distributed installations of PADS VX.2.6, it is strongly recommended that you install the Microsoft Visual C++ 2017 Redistributable software package on all systems first, reboot, and then install the PADS VX.2.6 release.

- If you are using Windows Server 2016 as an Administrator, make sure that a default web browser is set; otherwise, the product documentation will not open.

System Permission Requirements for Installation on Windows

Administrator privileges are required to complete the software installation. To allow a non-privileged user to perform the release registration process, the administrator must set SDD_USELOCALENV as a system variable as well as manually install the Microsoft Installer redistributable packages. The packages are available on the install media.

> **Tip**
>
> For more information, see the Support Center Knowledge Base Article: Installation best practices if users do not have administrator rights.

> **Note**
>
> In order to properly complete the release registration by a non-privileged user, the SDD_USELOCALENV variable must be defined prior to the installation. If you have completed the installation without first setting the variable, the software must be uninstalled, the variable set, and then you can reinstall.

Table 2-1 describes the SDD_USELOCALENV system variable options.

Table 2-1. SDD_USELOCALENV Settings

SDD_USELOCAL Setting	Description of System Rights
ADMIN	Only the administrator who runs the initial install can see the Mentor EBS programs on the **Start** menu and execute the programs.
POWER_USER	Only the initial installing power user can see the Mentor EBS programs on the **Start** menu and execute the programs. All administrators and other power users can execute the programs if they run the Release Switcher to configure their access to the programs. Users not in these categories cannot run the programs.

Table 2-1. SDD_USELOCALENV Settings (cont.)

SDD_USELOCAL Setting	Description of System Rights
USER	Only the initial installing user can see the Mentor EBS programs on the **Start** menu and execute the programs. All administrators, power users, and any other user can execute the programs. However, other users must run the Release Switcher to configure access to the programs.

Obtain Licenses

If you are a new user, you must order your software licenses before you can use Mentor software. If you are an existing user, you can download a copy of your current licenses.

_____ **Tip** _____

Before you begin installing Mentor software, you should obtain and install your licenses and configure your licensing environment. This facilitates the product installation process because MIP automatically makes product selections based on licenses available in your environment and products you installed previously. For information on installing and managing Mentor Licensing, refer to the *Mentor Standard Licensing Manual* (*mgc_licen.pdf*).

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New Users

Contact your local Mentor sales office to order software licenses. The sales office can provide information about the number of node-locked and floating licenses your company purchased and any current license server configurations you may have.

You must provide the sales office with the following information:

- Any new license server configuration

- The host ID numbers of client and license server workstations for node-locked licenses

- The host ID number of the license server workstation for all floating licenses

Existing Users

Find your licensing information on Account Center at https://account.mentor.com. Click **Licenses** and choose the tab that corresponds to how you would like to view your licenses.

_____ **Note** _____

Support Center and Account Center require a login and password. To register and obtain a password, go to https://support.mentor.com/register.

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If you have difficulties, send an email to csd_registration@mentor.com. If you are already registered but have forgotten your password, go to https://signin.mentor.com/update.

Related Topics

Licensing Installation and Configuration

Downloading the Entire Software Package From Support Center

Licensing Installation and Configuration

You must install and configure licensing correctly before you can use Mentor products. Mentor recommends that you install your licenses and configure your licensing environment before you begin product installation. This facilitates the product installation process because MIP automatically makes product selections based on licenses available in your environment and products you installed previously.

For licensing installation and configuration information, refer to the *Mentor Standard Licensing Manual* (*mgc_licen.pdf*).

Related Topics

Obtain Licenses

Downloading the Entire Software Package From Support Center

Downloading the Entire Software Package From Support Center

If you do not install your Mentor software and documentation videos from a DVD or CD, you must download the software and videos (approximately 4 GB) from Support Center before you can begin the installation process.

As an alternative, you can download the mini installer to only download and install the products you want. For more information, see "Downloading the Mini Online Installer" on page 19.

___ **Tip** ___
Check the system requirements for installing and running the software. Refer to the *Release Highlights* document for the release.

Procedure

1. Create an installation source directory on your computer.

2. Using a web browser, log in to Support Center (https://support.mentor.com).

3. On the MY PRODUCTS page, click your product.

4. Click **Downloads**. The Downloads page shows the most recent release.

5. (Optional) From the "Restrict content to Version" dropdown list, choose a different release to download. The product version appears on the Downloads page.

6. From the **Files** tab, click the product release.

7. Read the Software Terms and Conditions and click **I Agree**.

8. Choose whether you want to download individual files or multiple files.

If you want to...	Do the following:
Download individual files	1. On the Support Center Release Information and Downloads page, and click to download the relevant software file. 2. In Windows Explorer, open your Downloads folder and right-click the *.zip* file you just downloaded. 📄 **Note:** If you are not using Windows Explorer to extract the *.zip* file, be sure to make the appropriate selections to preserve the directory structure of the Mentor software. 3. From the popup menu, choose **Extract All**. 4. Browse to the directory you created in Step 1 at the beginning of this topic. This is the folder to which you will extract the *.zip* file. 5. Click the **Extract** button to extract the data to the directory. 6. Repeat to download additional files.
Download multiple files	1. On the Support Center Release Information and Downloads page, click **Download Preferences** at the top left of the window. 2. In the Download Preferences dialog box, choose Mass Download and click **Save**. 3. Close the Download Preferences dialog box. 4. Refresh the window and click the check box next to the software and documentation files you want to download. 5. Click **Download Selected Files**. Type or browse to the directory you created at the beginning of this topic and click **OK**. You may need to install or update Java for Windows to use this feature. 6. In the directory where you downloaded the files, right-click one of the *.zip* files and extract the files. 📄 **Note:** If you are not using Windows Explorer to extract the *.zip* file, be sure to make the appropriate selections to preserve the directory structure of the Mentor software. 7. Repeat for each *.zip* file.

9. Proceed with installing the software.

Related Topics

Obtain Licenses

Licensing Installation and Configuration

Downloading the Mini Online Installer

The Mini Online Installer, which requires only a small download (50-65 MB) from Support Center, enables you to download and install only the Mentor products you want. This method is faster and uses less space on your system. You can either download and install in one operation or download a local copy for later installation.

Prerequisites

- You have checked your system requirements. Refer to the *Release Highlights* document for VX.2.6.

- You have administrator privileges. To allow a non-privileged user to perform the release registration process, you must set SDD_USELOCALENV as a system variable before running an installation. For more information, refer to "System Permission Requirements for Installation on Windows" on page 15.

- This task assumes that you have obtained your licenses and installed and configured your licensing environment.

Procedure

1. Using a web browser, log in to Support Center (https://support.mentor.com).

2. On the My Products page, click your product.

3. Click the **Downloads** tab. The Downloads page shows the most recent release.

4. (Optional) From the "Restrict content to Version" dropdown list, choose a different release to download. The product version appears on the Downloads page.

5. From the **Files** tab, click the product release.

6. Read the Software Terms and Conditions and click **I Agree**.

7. Download the software Online Installer to your machine.

   - Click *PADSVX.2.6_<ID_number>_win32.exe* to download the mini installer and install your selection of PADS software applications from the cloud server. Run the software online installer executable. Proceed with installing the software.

   - To install all documentation videos after installing your applications, click *PADSVideosVX.2.6_<ID_number>_win32.exe*. Run the software installer executable and in the Mentor Graphics Install window expand Install and click

Install Products. Select the "Install from the cloud" option in the Online Installer Options dialog box. Use the "?" help button for more information.

Installing the Software

After you download either the entire software package or mini online installer, you must run the installer and proceed through the installer screens. The following topics correspond to consecutive screens of the installer.

Plugging in the Hardware Key

The first dialog box to appear in the PADS Flow Installation is the Hardware Key dialog box.

Procedure

1. If you are using a hardware key (dongle) for your licensing, plug it in.

If you encounter any Windows dialog box asking for the whereabouts of certain (driver) files or new hardware detected, click **Cancel** to dismiss. The Mentor Install program offers to install hardware key drivers later in the installation, if necessary.
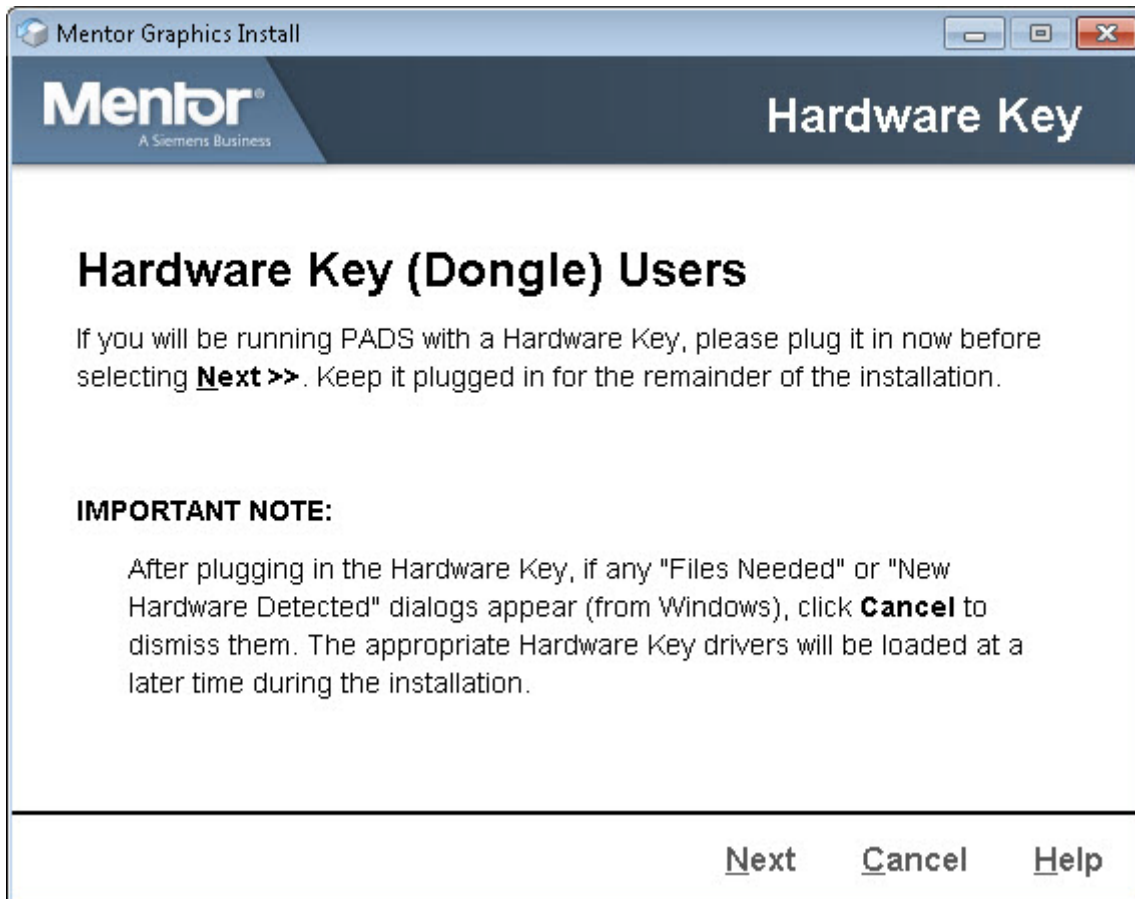
2. Click **Next** to start license checking.

The installer checks the following (core) license features (factors in the minimum required Exact Access version Date for the Main PADS release):

- pwrshell (PADS Layout)

- viewdraw (PADS Designer)

- viewdraw040 (PADS Designer)

These license features may exist within a PADS Suite (composite) license (with the exception of padslogic), yet are not visible in the license file itself. Typically, PADS Suite license feature names start with "pads" and end with "_c". The following are common PADS Suite license feature names containing one or more of the above license features:

- PADS STD (PADS Standard, license feature: padsstd_c)

- PADS STDPLUS (PADS Standard Plus, license feature: padsstdplus_c)

_____ **Note** _____

For PADS VX.2.6, the minimum required Exact Access version Date (EAD) is
2019.08, which represents August 2019. Refer to TechNote MG59373 for a
mapping of PADS Flow versions to their required EAD.

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3. Proceed with "Continuing with a Current License" on page 23 or "Installing a New
   License" on page 24.

Continuing with a Current License

If one or more of the license checks succeeds, a "Welcome to PADS Installation" dialog box
displays and the first sentence states Current license detected, as shown below.
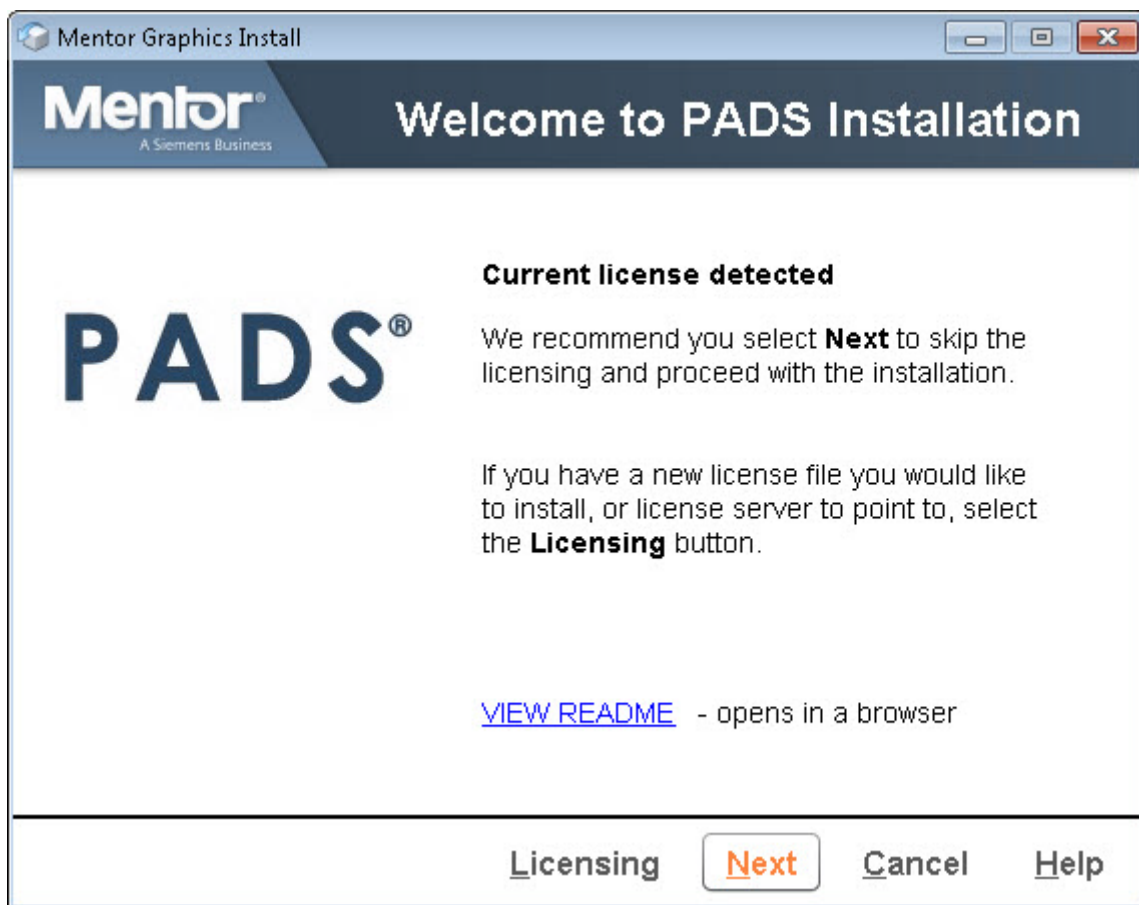
Procedure

Click **Next** (the default and recommended option), to skip the licensing and proceed to the main
part of the installation. Proceed with "Accepting the License Agreement" on page 31.

Other options are:

- Click **Licensing** to proceed with "Choosing Licensing Configuration" on page 25, where you can set up a new Mobile Compute (Node-locked) license or port@host (for a license server).

- Click **Cancel** to exit out of the installation. A confirmation prompt displays in case you unintentionally click **Cancel**.

- Click **VIEW README** to open the README file in the default web browser.

Installing a New License

If none of the license checks succeeds, a "Welcome to PADS Installation" dialog box appears and the first sentence states No current license detected as shown below.
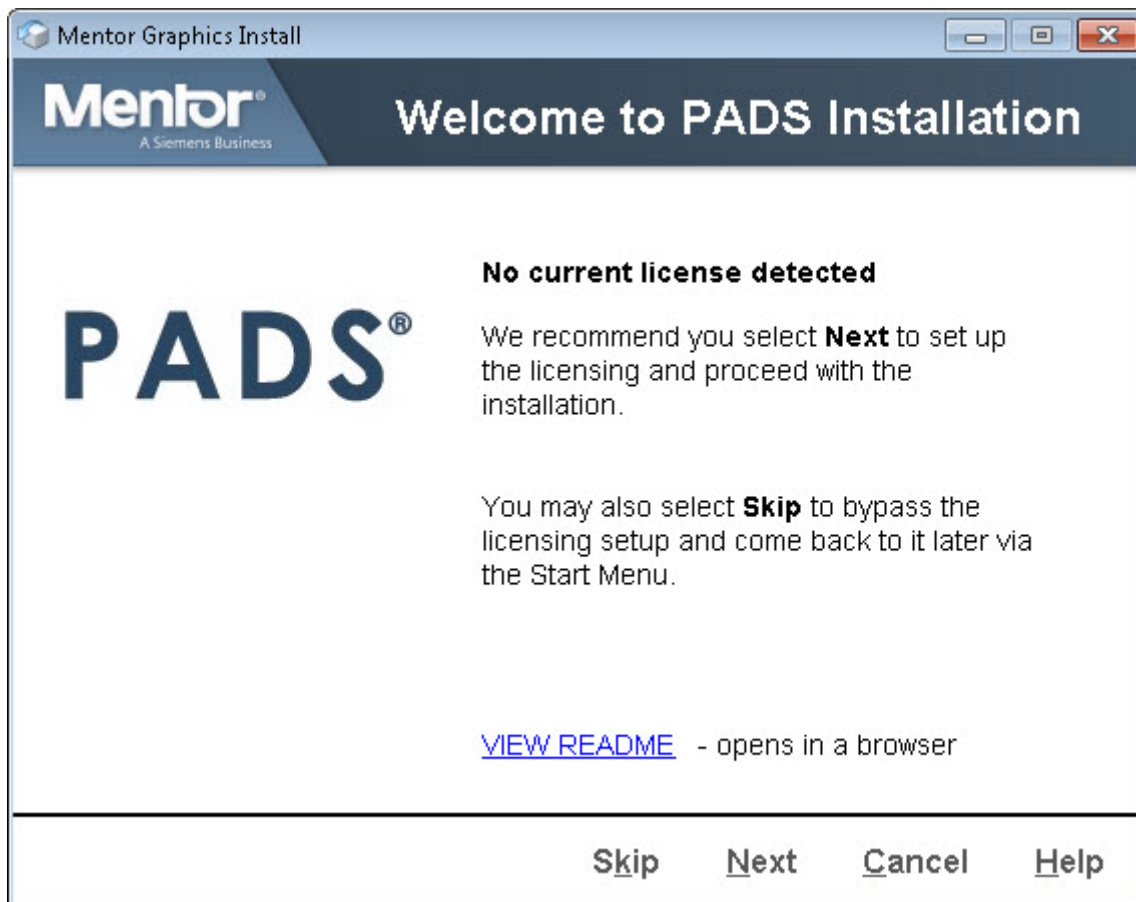
Procedure

Click **Next** (the default and recommended option), to proceed with "Choosing Licensing Configuration" on page 25 since no current license was detected.

Other options are:

- Click **Skip** to bypass licensing configuration and proceed with "Confirming Installation Choices" on page 32, the main part of the installation.

- Click **Cancel** to exit out of the installation. A confirmation prompt displays in case you unintentionally click **Cancel**.

- Click **VIEW README** to open the README file in the default web browser.

Choosing Licensing Configuration

The Choose Licensing Configuration dialog box provides an option to set your licensing configuration to be either Mobile Compute or Network/Floating Licensing.
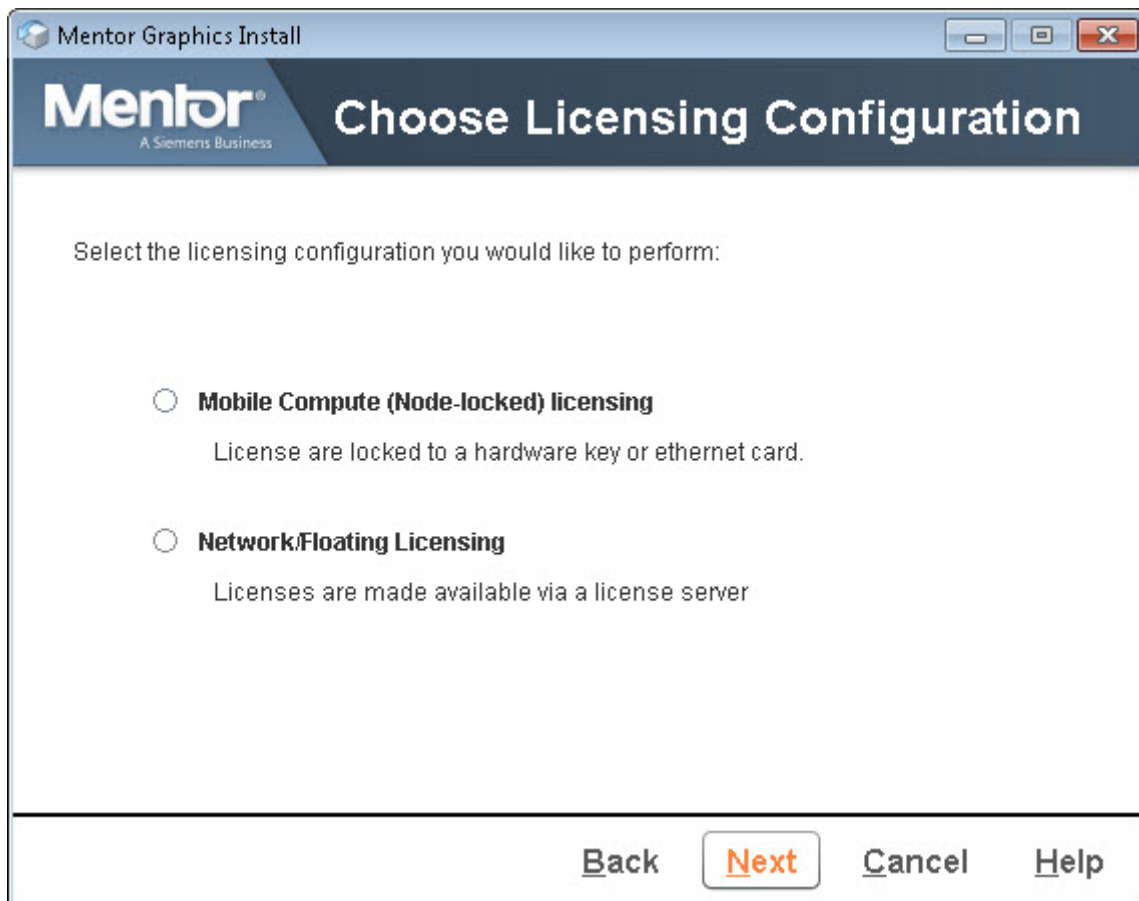
Procedure

1. Choose from the following options:

    - Mobile Compute (Node-locked) Licensing — Select this option when you have a new Mobile Compute (Node-locked) license file to install. The license may be attached to a USB or parallel port hardware key (dongle), or to the Ethernet

(physical) address of a Network Interface Card (NIC) inside of or attached to the machine.

- Network/Floating Licensing — Select this option when you want to point to a license server for licenses (uses the Port@Hostname FlexNet syntax). This option does not install the license server software, nor does it configure the license manager in order to serve the licenses.

    o The license server software can be installed as a product (shows up in the list of products during product installation).

    o An alternative option is available outside of the PADS installation. You can run the following procedure to automate the license server setup:

    a. Click the **Start menu > Mentor > Mentor Install** menu item.

    b. Expand **Manage Licensing** and click **Configure Licensing**.

    c. If prompted to install or update licensing, click **Yes**.

    d. Click **Install** or **Update**.

    e. In the Licensing Software Installation Complete dialog box, click **OK**.

    f. Select the Import License File option and click **Next**.

    g. Browse to the license file containing licenses for your machine (as the license server) and click **Next**.

    h. On the License Importing Complete dialog box, click **Done**.

_____ **Tip** _____
To learn more about the different types of licenses, refer to TechNote MG59430.

_____ **Note** _____
To configure a machine as a license server, refer to "Configuring a Machine as a License Server" on page 30.

2. Click **Next**.

If you selected the Mobile Compute (Node-locked) Licensing option, proceed with "Specifying the Location of the License File" on page 27.

If you selected the Network/Floating Licensing option, proceed with "Specifying the Port Number and Host Name of License Server" on page 28.

Specifying the Location of the License File

If you select Mobile Compute (Node-locked) Licensing as your licensing option, use the Enter License File dialog box to specify the location of the license file.

Procedure

1. Type a path or click **Browse** to select the path to the license file. The default license file location is C:\MentorGraphics\license_files\license.txt.

   > **Note**
   > If you do not have a copy of your license file, you may click on **Download License File** to download one (opens in a browser window).

2. Click **Next** to validate the license file, and if there are valid Mobile Compute (Node-locked) licenses in the file, those licenses are installed to the <installation_target>\license_files\license.txt file. The full path to this file is added to the MGLS_LICENSE_FILE environment variable. If the MGLS_LICENSE_FILE environment variable already exists, it adds the path to the front of the value (and uses the semi-colon character as the delimiter).

After license file validation completes, the installation proceeds with"Completing License Configuration" on page 29.

Results

For a list of possible error messages, refer to "Troubleshooting" on page 65.

Specifying the Port Number and Host Name of License Server

If you select the Network/Floating Licensing option, use the Set Port and Server dialog box to specify the port number and the host name of the license server.

Procedure

1. Type in the Port number. The default value in the license file is 1717.

2. Type in the host name of the license server.

> **Tip**
> ℹ If you are not sure about either the Port number or host name, consult your license server system administrator.

3. Click **Next** to validate the port number and host name of the server. This step adds the port@host value (FlexNet syntax) to the MGLS_LICENSE_FILE environment variable. If the MGLS_LICENSE_FILE environment variable already exists, it adds the port@host to the end of the value (and uses the semi-colon character as the delimiter). After validation completes, the installation proceeds with "Completing License Configuration" on page 29.

   If you need to define three license servers as part of a redundant server configuration, you need to set the MGLS_LICENSE_FILE environment variable manually. For example:

   MGLS_LICENSE_FILE = 1717@red_server1;1717@red_server2;1717@red_server3

   For more information on setting environment variables, refer to "Environment Variables" on page 47. For more information on the MGLS_LICENSE_FILE variable or redundant server configurations, refer to the Licensing Mentor Graphics Software manual (mgc_licen.pdf) available from the release_documents directory in the download or from Support Center.

Results

For a list of possible error messages, refer to "Troubleshooting" on page 65.

Completing License Configuration

The Licensing Configuration Complete dialog box appears after the licensing configuration completes successfully.

> **Note**
> 🗋 This task can be performed manually. For more information, see "Editing the License File for Floating Licenses" on page 7.

If you selected and installed Mobile Compute (Node-locked) Licensing, you should see the C:\ MentorGraphics\license_files\license.txt path in the MGLS_LICENSE_FILE environment variable field, as shown below. This is the location of your new Mobile Compute (Node-locked) license file.

If you selected and installed the Network/Floating Licensing, you should see the port@host (FlexNet syntax) value in the MGLS_LICENSE_FILE environment variable field (1717@starship, for example).
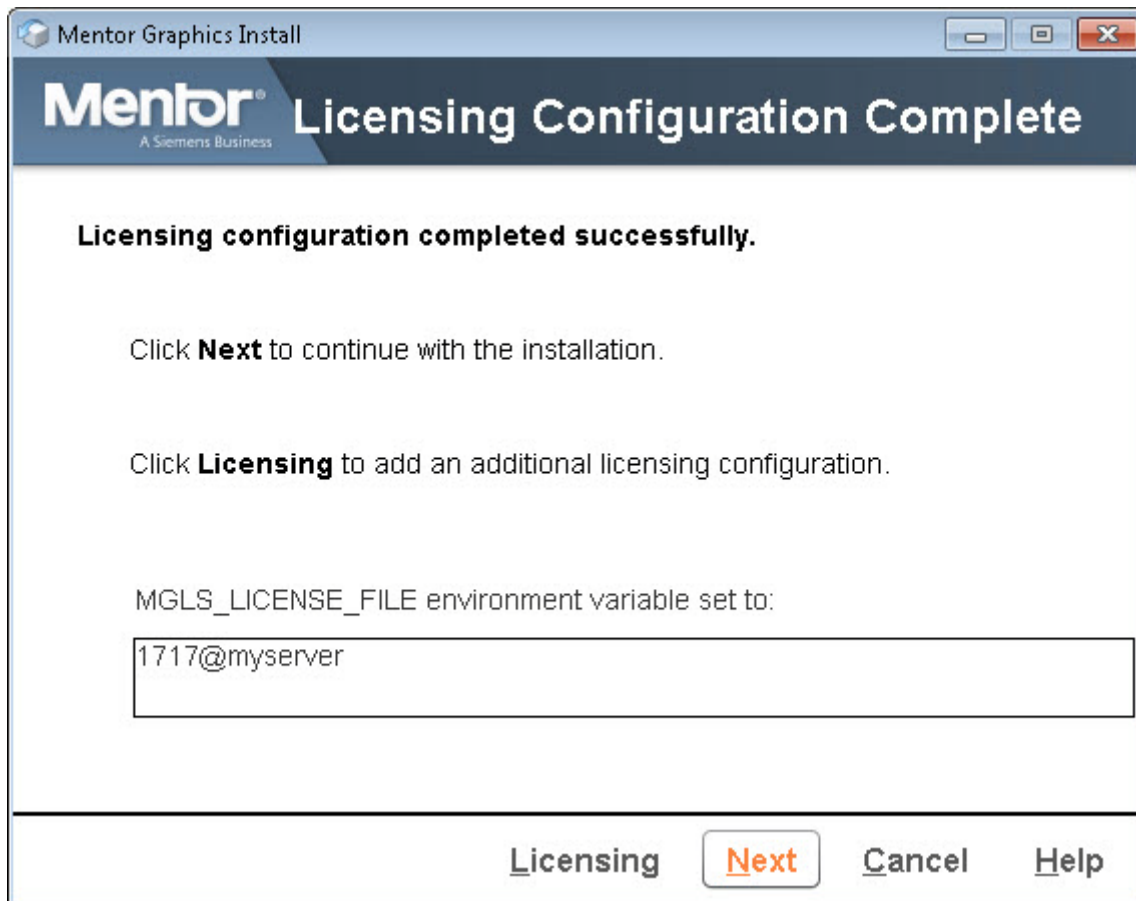
Procedure

Click **Next** to proceed with "Confirming Installation Choices" on page 32 or click **Licensing** and proceed with "Choosing Licensing Configuration" on page 25 to install an additional licensing configuration.

> _____ **Note** _____
> You many see many additional values in the MGLS_LICENSE_FILE environment variable field if the environment variable was set prior to the installation (all license file paths and port@host values should be separated by a semi-colon).

Configuring a Machine as a License Server

When the first PADS installation dialog box appears, an automated license server installation is available via the following Start menu shortcut: Mentor Graphics > Mentor Install.

Whether or not your licensing is successful, you can use the Mentor Installer to install licensing and continue on to configure the licensing.

_____ **Note** _____

This task can be performed manually outside of the install process. For more information, see "Starting the License Server for Floating and Node-locked Counted Only Licenses" on page 9.

Prerequisites

- If you have a hardware key, make sure it is plugged in.

  _____ **Note** _____

  If the machine you are using serves as a license server only, you can exit the PADS Flow installation program. If the same machine will also run the PADS Flow software, you may keep the PADS Flow installation program open and continue after the license server configuration is complete.

Procedure

1. Using the Mentor Install program, click **Manage Licensing > Configure Licensing**.

2. If you are prompted with a dialog box with the message "Licensing is not installed or needs updating", click **Yes**. Otherwise, continue to step 6.

3. Accept the default Licensing installation location (recommended) by and click **Install** or **Upgrade** (in the case where an older version of licensing is already on the machine).

4. Click **Ok** when the Licensing Software Installation Complete dialog box appears

5. At the Configure Licensing dialog box, select Import license file and click **Next**.

6. Type the path of your license file (or click **Browse** to navigate to the file) and click **Next**.

7. The Floating Licenses Found dialog box displays asking Would you like to install and start a license server on this machine? Click **Yes**.

8. After the setup is complete you can view the license log information. Click **Done** to complete the licensing configuration.

Accepting the License Agreement

The License Agreement dialog box asks you to carefully read the license agreement before installing software.

Procedure

1. Read the licensing agreement.

2. Click **Agree** to proceed with "Confirming Installation Choices" on page 32 - software installation.

Confirming Installation Choices

The Confirm Installation Choices dialog box (shown below) identifies all products automatically selected based on the licenses detected for installation.

If no products are listed and the *** NO PRODUCTS SELECTED *** sentence displays, then the installer did not detect any valid or current licenses. PADS Flow products can still be installed, but may not run until a valid and current license file is installed.

_____ **Note** _____

The license file can be installed at a later time via the Start menu > PADS VX.2.6 (32-bit) > PADS Licensing Assistance > Install License File VX.2.6.

In addition to the list of products, the installation location appears (C:\MentorGraphics in this example), along with the Release (PADS VX.2.6), the PADS Projects location (C:\PADS Projects), and the (disk) Space required and Space available.
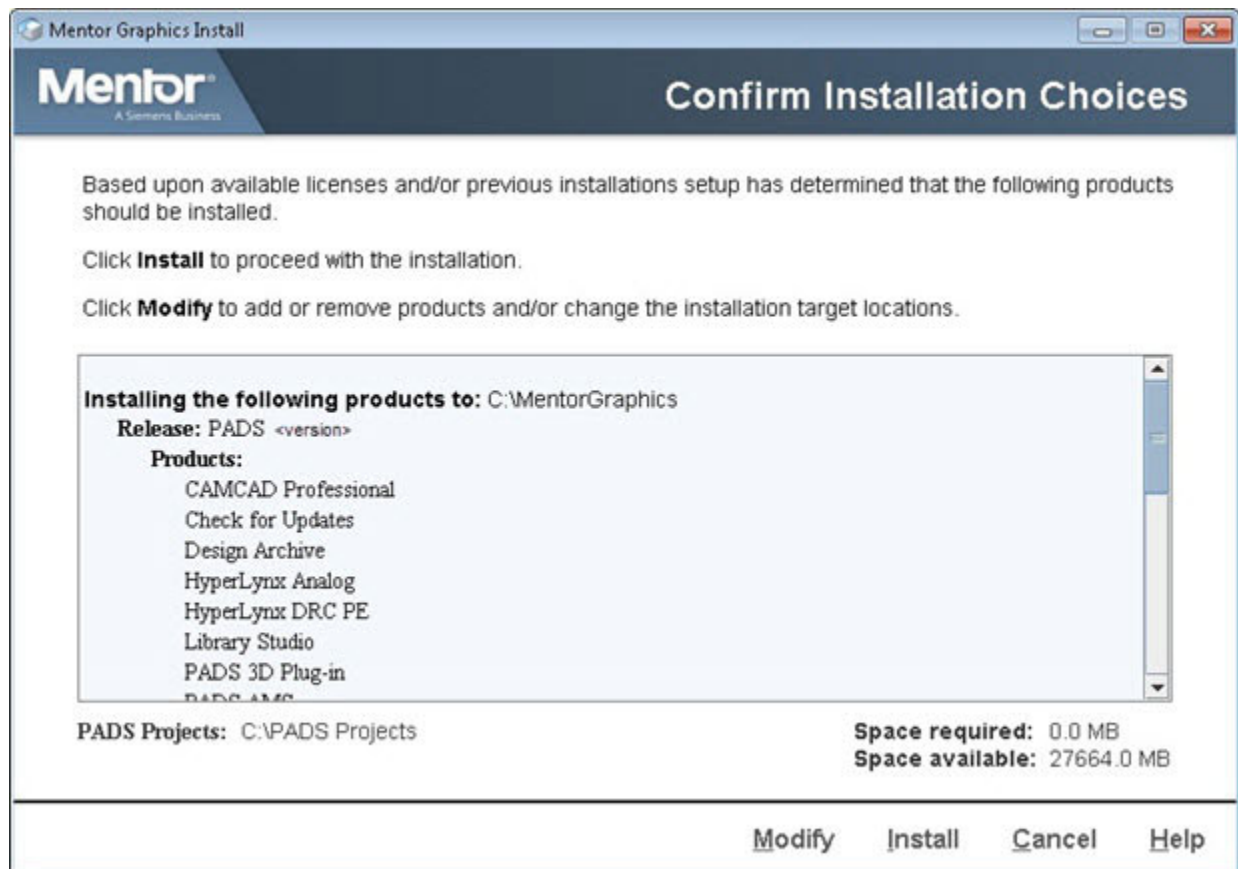
Procedure

Click one of the following:

- **Install** — starts the product installation with the default selection of products.

- **Modify** — allows you to proceed with "Modifying Product Selection and Target Locations" on page 34.

Results

The installation begins after clicking the Install button. There are a few stages that the installation goes through, including:

- running of self installation scripts

- running pre-installation scripts

- main installation (where the files are copied to the target)

- running post installation scripts

Each of these stages progress from 0 to 100% so it may look as though the installation is going backwards but, in fact, it is probably just progressing to the beginning of the next stage.

Additional dialog boxes may appear during the self and pre installation phases (before the main installation), and during the post installation phase (after the main installation). An example of a dialog box that comes up during the post installation phase is the MGC EBS Registrator.

_____ **Caution** _____
It is critical that these dialog boxes and any blank DOS (command prompt) dialog boxes be allowed to finish, and to close on their own. Terminating any of these dialog boxes before they complete may result in an incomplete and non-functioning installation.

After a successful installation, proceed with "Completing PADS Installation" on page 35.

Modifying Product Selection and Target Locations

Use the Modify Product Selection and/or Paths dialog box (shown below) to add or remove products for installation and change the PADS Software and PADS Projects target locations.
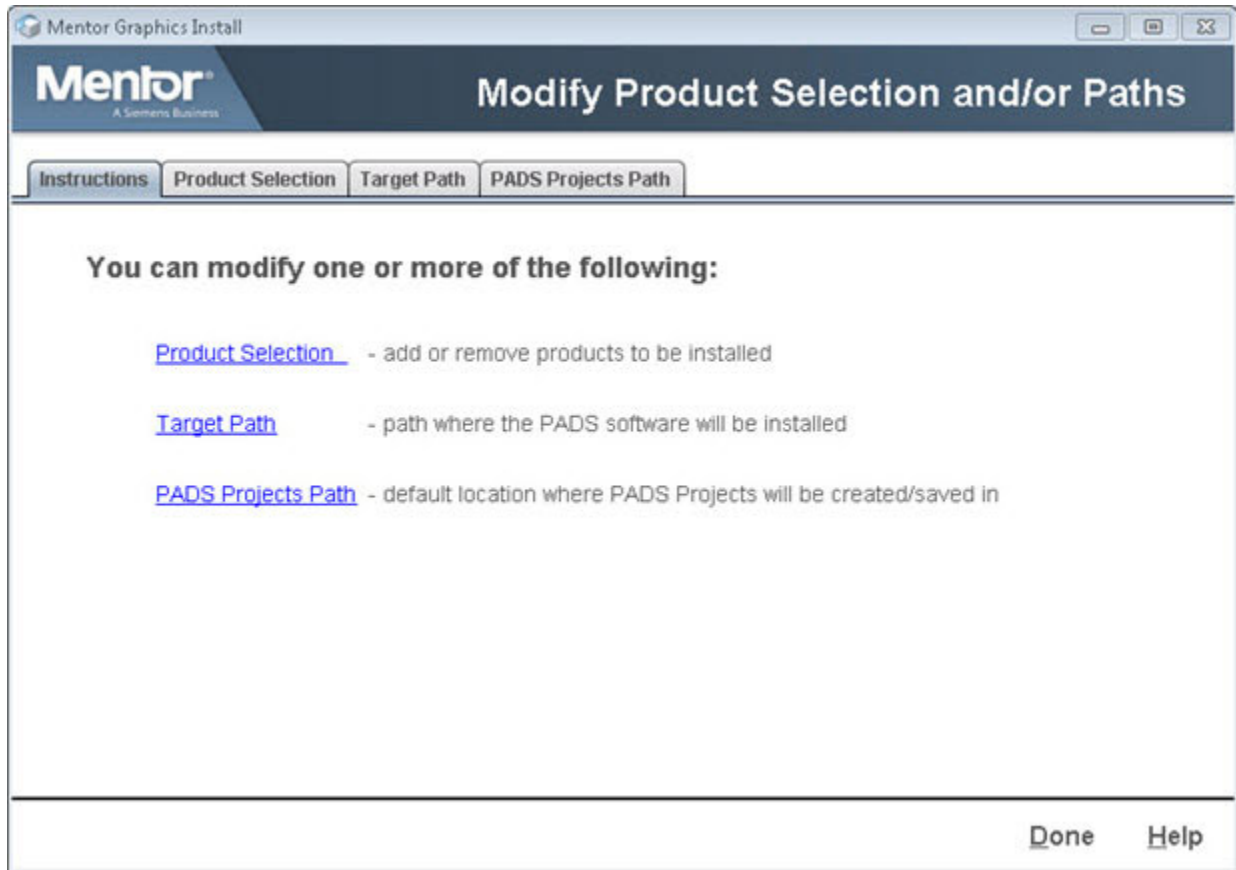
Procedure

1. Click one of the following:

   - **Product Selection** — Select this option to display the Product Selection and/or Paths dialog box where you can add or remove the products to be installed. Using the Name column, you can click the various checkboxes to select or unselect products to install.

   - **Target Path** — Select this option to display the Target Path dialog box where you can change the PADS Flow installation location. The default and recommended location is C:\MentorGraphics. Use the Browse button to browse for a suitable Target Installation Path to install the PADS Flow software.

_____ **Note** _____

Every PADS Flow (dot) release creates a new version sub-directory under the target location. Therefore, there is no need to manually create a version-specific sub-directory as the installation takes care of this for you. Update releases are not full releases. They are incremental releases and update the applicable PADS Flow (dot) release. For example: PADS VX.2.6 Update 1 updates the files in the existing PADS VX.2.6 (full release) installation.

_____ **Note** _____

If you are using Windows Server 2016 as an Administrator, make sure that a default web browser is set; otherwise, the product documentation will not open.

- **PADS Projects Path** — Select this option to change the location of the PADS Projects or WDIR (PADS Designer personal settings) directories. The default for both is the _C:\PADS Projects_ directory, unless the WDIR is previously defined, in which case WDIR defaults to the first value in the WDIR environment variable.

  Use the use PADS Projects directory for WDIR checkbox to force the WDIR directory to be the same as the PADS Projects directory. Clear the checkbox to set a WDIR directory that is different from the PADS Projects directory.

  Use the Browse buttons to locate the preferred directories.

2. Click **Done** to accept any changes made in the Product Selection, Target Path, and PADS Projects Paths areas. This returns you to the "Confirming Installation Choices" dialog.

Completing PADS Installation

The PADS Installation Complete dialog box displays when the installation has finished, shown in the following figure. Use this dialog box to choose how you want to register the software

with Mentor. You can also view any README files associated with the PADS Flow installation.
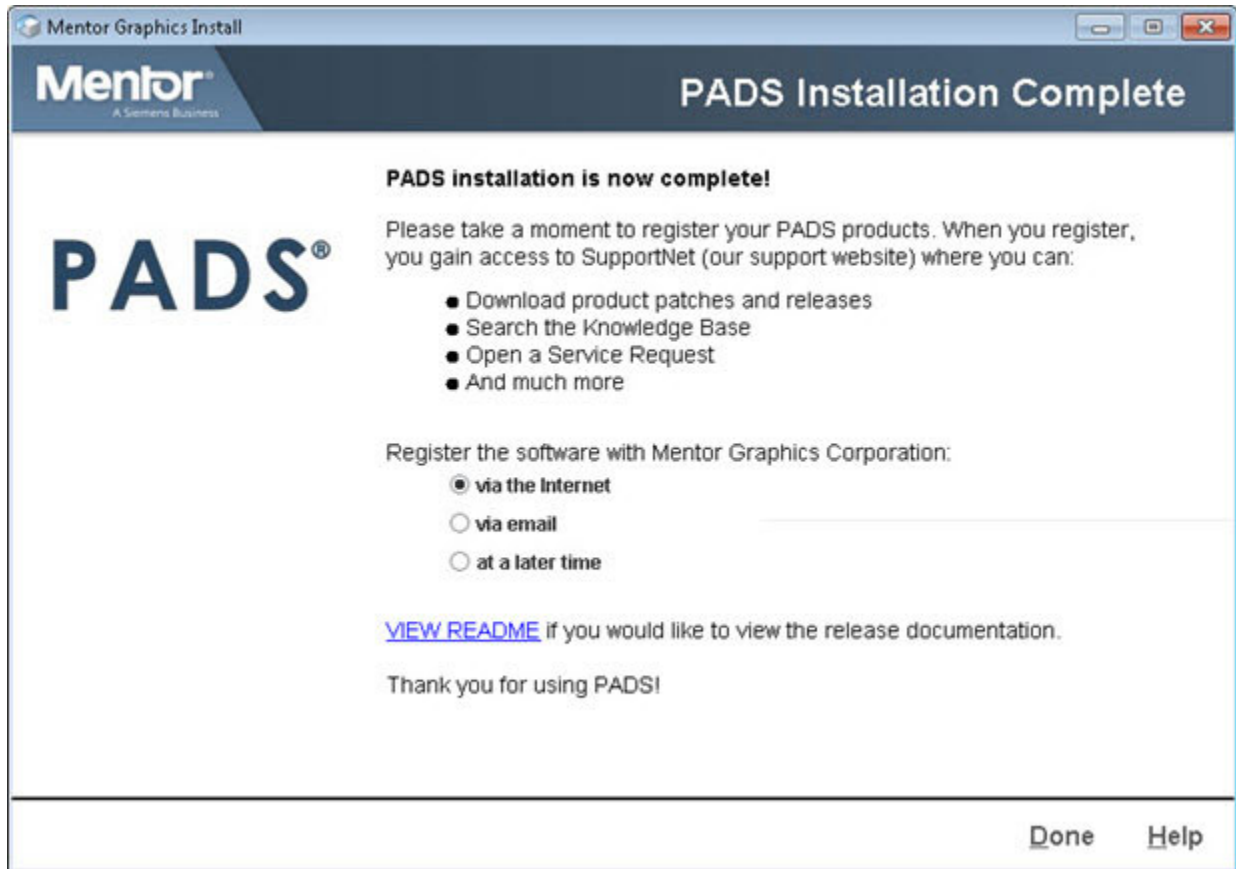
Procedure

1. Register the software with Mentor by choosing one of the following:

   - **via the Internet** — Select this option to register your PADS Flow product(s) through the Internet. The PADS registration page opens in your default Web browser. Fill out the required fields on the web-form and submit to complete the registration process.

   - **via email** — Select this option to register your PADS Flow product(s) using your local email program. Your default email program opens and a new email containing the registration template displays. To complete the registration process, fill out the required information and send the email message.

   - **at a later time** — Select this option to skip the registration process and come back to it later through the Start menu.

2. (Optional) Click **VIEW README** to view the release documentation in a browser.

3. Click **Done** to exit the Mentor Install program.

Note - Viewing PDF files within a web browser causes some links not to function. Use HTML for full navigation.

Overview of Installed Components

The installer extracts the software packages from the release media and installs the software in the Mentor target location folder. After extraction, the PADS installation process executes post-installation scripts to configure and prepare your software for use.

The PADS installation process on Windows performs the following tasks:

- Installs runtime libraries (core components install). Updates legacy Microsoft and Microsoft Partner dll, ocx, and exe libraries located in the Windows System32 directory (*%WINDIR%\system32*). The installation process also installs fonts.

- Creates and updates the WDIR and MGLS_LICENSE_FILE environment variables.

- Registers executables and dynamic linked libraries (DLLs).

- Creates a default, static folder in the **Start** menu called *PADS VX.2.6* and creates icons below that folder.

- Provides **Start** menu access to the Release Switcher. For a definition of the Release Switcher, see "Key Terminology" on page 53.

Verifying Product Installation

To ensure that products have installed correctly, you can verify the product installation from within the Mentor Install program.

Procedure

1. To access the installer, click on the **Start menu > Mentor > Mentor Install**. On the Mentor Install Home box expand **Manage Software** and click **Verify Installation**.

2. After you have selected products to verify, click **Verify** to proceed to the Results dialog box.

3. Use the Results dialog box to view the results of the verification process and save installation verification results.

> **Note**
> On a lengthy verification log, a summary of any errors found appears at the bottom of the log. Use the scroll bar to scan through the entire log.

> **Tip**
> If errors occur during verification, re-install the products to rule out any system glitches that may have disrupted the product installation. Should that not solve the error(s), contact Customer Support.

Click **Cancel** to cancel the verification process. Cancel pauses the verification process. A popup window displays asking you to confirm the Cancel. Clicking **Yes** results in an incomplete verification and returns you to the window where you began the verification process. Clicking **No** continues the verification process.

Click **Save** to save the results of the verification. A dialog box displays where you can specify a file name and directory to save the results to. Saving to a file is useful when the verification log is lengthy and you want to review it separately from the Mentor Install program.

Click **Done** on the Results window to return to the window where you began the verification.

Software Directory Structure

The general structure of a Mentor Electronic Board Systems (EBS) software installation consists of the Mentor target location folder, which contains one or more root folders for a specific Mentor EBS product release. The SDD root product release folder contains the SDD Home and MGC Home root folders and the product documentation folder.

The following graphic shows an example of a locally installed tree.

Figure 2-1. Simple Tree Structure Example
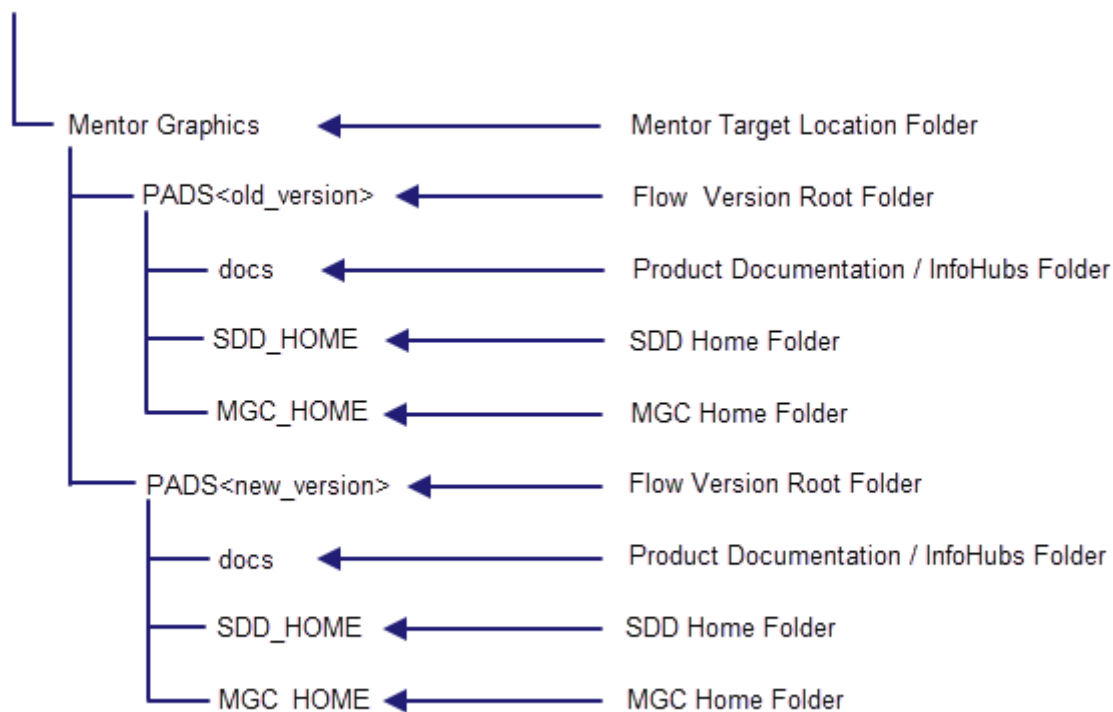
The software tree has the following folders:

- **Mentor Target Location Folder** — The single root folder for all Mentor EBS software residing on a system. The default folder name is *MentorGraphics*.

  You can keep complete installs for different flows in sibling folders under the Mentor target location folder.

  _____**Note**_____
  The installer enables you to set the name of the Mentor target folder. However, do not change the names of the subfolders. Also, after you perform the installation, do not change the name of the Mentor target folder.

  _____**Note**_____
  To facilitate software administration, install all Mentor EBS software in the same Mentor target location folder.

- **Flow Version Root Folder** — This root folder is specific for each Mentor EBS software release. MIP sets the name of the flow version root folder and uses the convention *<flow><version>*. In the graphic above, the PADS<old_version> root folders would be PADSVX.2.5 and the PADS<new_version> would be PADSVX.2.6.

  The flow version root folder, which exists one level below the Mentor target location folder, contains the *MGC_HOME*, *SDD_HOME*, and *docs* folders.

- **Product Documentation / InfoHubs Folder** — The *docs* folder contains the product documentation packages. For details, refer to "Documentation Directory Structure" in the *Mentor Documentation System* manual.

- **SDD Home Folder** — The *SDD_HOME* folder contains the software trees for individual EBS product releases. The applications install under *C:\MentorGraphics\ <release_version>\SDD_HOME*.

- **MGC Home Folder** — The *MGC_HOME* folder contains software for printing, licensing components, and certain legacy applications.

Desktop Shortcuts Discontinued

Beginning with PADS VX.1, the installer no longer creates desktop shortcuts. The VX releases contain an improved architecture that allows concurrent installations of different versions and/ or different flows.

Now you can create and control your own shortcuts to different versions or software in different flows without them being deleted when you switch the active release (the release associated with the software file types).

> **Tip**
> ⓘ If you create your own shortcuts, copy the Start menu shortcuts instead of generating ones
> from the executables in the install directory. Start menu shortcuts contain a "wrapper" that
> allows the proper environment variables to be defined as the program launches.

Installing a License File After the PADS Flow Installation

You can install a license file during the initial stages of the PADS Flow installation or after the installation is complete.

Procedure

1. Click the **Start > PADS VX.2.6 (32-bit) > Install License File VX.2.6** menu item.

2. Follow the prompts to install the license file. Refer to the previous sections beginning with "Choosing Licensing Configuration" on page 25 for information on how to complete these steps.

Installing Hardware Key Drivers After the PADS Flow Installation

You may be prompted to install hardware key drivers during the PADS Flow installation (license install phase). If not, you can also load the drivers via the **Start** menu after the installation is complete.

Procedure

1. Click the **Start > Mentor > Mentor Install** menu item.

2. Click **Manage Licensing > Install Hardware Key Drivers**.

3. Select the drivers to be installed and click **Install**.

4. Click **Done**.

Performing a Batch Installation

The Batch Tool in the Mentor Installer enables system administrators to create an executable batch script that performs the installation with little or no user interaction. The script pre-selects the software packages.

Refer to "Tools" in the Mentor Install Program online help or in the installHelp.pdf file (available at C:\MentorGraphics\Install) for batch installation details and the following:

- creating a batch script

- setting up a repository where the installation source and the Mentor Install Program executable are located

- specifying the installer, source, and default target location for a batch install

- selecting the releases, install type, platform, products, and license agreement viewing preferences for a batch install

- specifying optional script behavior for a batch install

- confirming and saving the batch script

- performing a batch installation

- performing a batch verification

- performing a product update batch install

- performing a batch installation of all products

- performing a batch installation of only licensed products

- performing a batch update of mgg.pkginfo files

- performing a batch import of a license file

- performing a batch removal

An experienced batch file programmer can create a custom, turnkey installation solution by modifying a Mentor Install Program Batch Tool-created script.

Installing the Batch Tool

If you have not yet installed any Mentor software, you must start a software installation to install the Mentor Installer where you can access the Batch Tool.

Procedure

1. Run the *PADSVX.2.6_mib.exe* to start the installation.

2. When the Hardware Key dialog box appears, click **Cancel**.

3. Run the Mentor Install shortcut from the following **Start** menu location to access the Batch Tool:

   Start > Mentor > Batch Tool

4. In the Welcome to the Batch Tool screen, click **Wizard**. At any time, click the "?" help button for more information.

5. Proceed through the Wizard to create a batch script (*.bat*).

6. Click **Done** to exit the Batch Wizard.

7. To set the licensing and PADS Projects location, open the batch script using a text editor (for example, Notepad).

8. For setting the licensing, after the first section of lines starting with "REM" add:

   ```
   set MGLS_LICENSE_FILE=<value>
   ```

   For the PADS Projects location add:

   ```
   set SDD_PADSPROJECTS_DIR=<value>
   ```

   Below is an example where the license server port@host is 1717@server and the PADS Projects directory is to be *C:\PADS Projects VX.2.6*:

   ```
   set MGLS_LICENSE_FILE=1717@myserver
   set SDD_PADSPROJECTS_DIR=c:\PADS Projects VX
   ```

   The following is a sample excerpt (top section) of the batch script showing where to place these two lines:

   ```
   @echo off
   SET LC_ALL=en_US
   VER | FINDSTR /IL "6." > NUL
   IF %ERRORLEVEL% EQU 0 CHCP 65001
   REM
   ******************************************************************
   REM *** This file is provided as-is.  Modifications to this file are
   at your own risk.   ***
   REM *** The End User License Agreement was accepted during the
   creation of this script. ***
   REM
   ******************************************************************
   REM Generated by MIP v5.9-022
   SET MGLS_LICENSE_FILE=1717@myserver
   SET SDD_PADSPROJECTS_DIR=C:\PADS Projects VX
   SET PROMPT_TARG=F
   ...
   ...
   ```

9. Select **File > Save** to save changes to the batch script and Exit the text editor.

10. To start the batch installation, execute the batch script. The batch script is directly executable (assuming you are in the repository location), for example, *myBatch.bat*

Modifying a Batch Script

Batch installation scripts that are created with the Batch Tool Wizard in MIP ordinarily do not need any modification. However, if the script needs to run without user interaction or requires customization, the system administrator can modify the script to perform pre- and post-installation tasks.

Procedure

1. If you want the installation to proceed without prompting the user for license path or WDIR path information, create a *registrator.ini* file and define these values to automate this part of the registration process.

    For example:

    ```
    [defaults]
    MGLS_LICENSE_FILE=1717@licenseserver
    WDIR=C:\my_WDIR
    WDIR_PADSVX.2.6=C:\WDIR\PADSVX.2.6
    ```

    For more information, refer to "CFGR_INI" on page 50.

2. Modify the batch file that MIP created (*myBatchFile.bat*, for example) within the pre-install or post-install areas.

    _____ **Tip** _____

    ⓘ Be very careful, however, if you modify any commands outside of those areas. You could inadvertently modify code and cause the installation to fail.
    _____

    a. Using a text editor such as Notepad, open the *myBatchFile.bat* file.

    b. Add any pre-installation commands (programs or environment settings that you want to run before the installation starts) between these lines in the batch script file:

        ```
        REM***ADD YOUR OWN PRE INSTALL COMMANDS BELOW HERE***


        REM***ADD YOUR OWN PRE INSTALL COMMANDS ABOVE HERE***
        ```

        The following is an example of a pre-installation command that creates CFGR_INI as a system variable and assigns a value to the variable. The command then creates a folder and copies the *registrator.ini* file into the folder. Because this occurs pre-installation, the installation program recognizes the variable at runtime.

```
REM *** ADD YOUR OWN PRE INSTALL COMMANDS BELOW HERE ***
:: If you want to run any pre-install scripts, this is where they
go.

:: Create a temporary registry value for the configurator.ini
file.
set SYSENVKEY="HKLM\SYSTEM\CurrentControlSet\Control\Session
Manager\Environment"
set CFGR_INI=C:\MentorGraphics\registrator.ini
REG ADD %SYSENVKEY% /v CFGR_INI /d "%CFGR_INI%" /f

:: Copy a pre-configured registrator.ini.
mkdir C:\MentorGraphics
call copy Z:\mgc_configs\registrator.ini C:\MentorGraphics\
registrator.ini

REM *** ADD YOUR OWN PRE INSTALL COMMANDS ABOVE HERE ***
```

c. Add any post-installation commands (programs or environment settings that you want to run after the installation completes) between these lines in the batch script file:

```
REM***ADD YOUR OWN POST INSTALL COMMANDS BELOW HERE***

REM***ADD YOUR OWN POST INSTALL COMMANDS ABOVE HERE***
```

The following is an example of a post-installation command that removes the CFGR_INI environment variable from the system environment and removes a drive mapping.

```
REM *** ADD YOUR OWN POST INSTALL COMMANDS BELOW HERE ***

:: Here is where you can remove the drive mapping if you want.
net use Z: /DELETE

:: Delete a SYSTEM environment variable.
REG DELETE %SYSENVKEY% /v CFGR_INI /f

REM *** ADD YOUR OWN POST INSTALL COMMANDS ABOVE HERE ***
```

Removing Installed Products

To free up disk space, you can remove any or all products installed with MIP.

Procedure

1. Open the Product Removal Selection window in MIP.

    - From the Mentor Install home window, choose **Manage Software > Remove Products**.

- From outside of MIP:

On this platform...	Do the following:
Windows 7	Choose **Start > All Programs > Mentor > Mentor Uninstall**.
Windows 8.1 or newer	From the **Start** menu, locate Mentor, and choose **Mentor Uninstall**.

2. Follow the instructions in the MIP online help. (Click the **?** Help button in the upper right corner of the window.)

3. After you click **Done**, the following may occur:

   - If one or more release installs remain in the target location, the Release Switcher prompts you to choose an active release.

   - If no Mentor installs remain in the target location, the product removal is finished. However, if a valid install exists in a different target location, the install may now be in an unusable state if the Release Switcher did not run automatically. To fix this, register the release with the Release Switcher.

Technical Support Resources

Mentor provides a range of industry-leading support services that keep design teams productive and up-to-date with Mentor products.

A Mentor support contract includes the following:

- **Software Updates** — Get the latest releases and product enhancements to keep your environment current.

- **Mentor Support Center** — Access our online knowledge base, personalized to your Mentor products.

- **Support Forums** — Learn, share, and connect with other Mentor users.

- **Technical Support** — Collaborate with Mentor support engineers to solve complex design challenges.

- **Regular Communications** — Receive the latest knowledge base articles and announcements for your Mentor products.

- **Mentor Ideas** — Share ideas and vote for your favorites to shape future products.

More information is available here:

https://support.mentor.com/

If your site is under a current support contract, but you do not have a Support Center login, register today:

https://support.mentor.com/register

For answers to frequently asked licensing and installation questions and to collaborate with Mentor community members and technical experts, visit the Licensing and Installation Mentor Communities site:

https://communities.mentor.com/community/licensing_installation

Note - Viewing PDF files within a web browser causes some links not to function. Use HTML for full navigation.

PADS applications use wrapper scripts to create the environment at runtime. The installation process sets most environment variable values automatically. However, you must set MGLS_LICENSE_FILE / LM_LICENSE_FILE and WDIR. The registration process prompts you to set these values or to accept the previously defined values. Optionally, you can provide these values by defining the CFGR_INI environment variable and creating a *registrator.ini* or *configurator.ini* file.

_____ **Note** _____
If you want to change environment variable values or add them prior to installation, refer to "How to set an environment variable on Windows" on Support Center.

Table 3-1. Environment Variable Summary

Environment Variable	Description
MGLS_LICENSE_FILE or LM_LICENSE_FILE	The applications use the MGLS_LICENSE_FILE Mentor environment variable or the LM_LICENSE_FILE FlexNet environment variable to determine the location of the license files or servers. For Mentor applications, the MGLS_LICENSE_FILE setting overrides the LM_LICENSE_FILE setting. You must set at least one of these environment variables.
WDIR	Applications in the PADS flow require a personal settings folder (WDIR). A WDIR path consists of one or more folder locations, each of which has a unique function and scope. The WDIR environment variable defines the WDIR path.
CFGR_INI	Use the optional CFGR_INI environment variable to point to the *registrator.ini* file or, if you have pre-VX releases, to the *configurator.ini* file. When registering and configuring installs on Windows, you can create this *.ini* file, which provides the values for the license path and WDIR path, thereby enabling you to avoid prompts asking for this information during installation or when you use the Release Switcher. The *.ini* file also enables you to use unattended or silent mode, essential during batch installation.

MGLS_LICENSE_FILE or LM_LICENSE_FILE

The applications use the MGLS_LICENSE_FILE Mentor environment variable or the LM_LICENSE_FILE FlexNet environment variable to determine the location of the license files or servers. For Mentor applications, the MGLS_LICENSE_FILE setting overrides the LM_LICENSE_FILE setting. You must set at least one of these environment variables.

If neither MGLS_LICENSE_FILE nor LM_LICENSE_FILE is set, the installation process on Windows prompts you for a value. If you want to avoid the prompt for situations such as batch installation, refer to "CFGR_INI" on page 50.

For more information about the MGLS_LICENSE_FILE and LM_LICENSE_FILE variables, refer to "Environment Variables for Licensing" in the *Mentor Standard Licensing Manual* (*mgc_licen.pdf*).

WDIR

Applications in the PADS flow require a personal settings folder (WDIR). A WDIR path consists of one or more folder locations, each of which has a unique function and scope. The WDIR environment variable defines the WDIR path.

Each release has a uniquely named WDIR environment variable based on the flow version root name of the release. For example, WDIR_PADSVX_2_6 or WDIR_PADSVX_2_5. The registration process defines these environment variables; each should have a unique value assigned to prevent sharing WDIR content between releases.

During runtime, PADS applications use environment wrapper scripts to create the WDIR environment variable and to assign the appropriate value based on the version of the application being executed. The scripts assign the WDIR_*<flow_version_root>* environment variable values to the WDIR environment variable. For example, suppose two releases are currently installed on your system, PADS VX.2.5 and PADS VX.2.6. If you do not modify the default values that are assigned during the registration process, the following two environment variables exist in your environment:

```
WDIR_PADSVX_2_5 = your WDIR value for PADS VX.2.5

WDIR_PADSVX_2_6 = your WDIR value for PADS VX.2.6
```

When you invoke an application from, for example, the PADS VX.2.6 release, the environment wrapper scripts detect the version and create a new runtime environment variable:

```
WDIR=<your_WDIR_value_for_PADSVX.2.6>
```

> **Note**
> The WDIR_*<flow_version_root>* variables are available in the standard Windows environment, but the WDIR environment variable is available only in the Mentor EBS environment. To see this environment, you must use the Mentor EBS Command Window (Start menu > PADS [version] > MGC EBS CMD [version]) to query for environment variable values.

On Windows, the registration process prompts for setting the WDIR. Accepting the default value ensures that the registration process sets the variable correctly for the version of software you are installing.

The first element of the WDIR path must point to a local, writable location. At runtime, the standard location is appended to the WDIR path.

If WDIR is not set, *$HOME/wdir* is created and used as the writable location.

WDIR Path

The WDIR path consists of required and optional folder locations: a local path, a corporate path, a project path, and a standard path. A semicolon on Windows separates each part of the WDIR path. When parsed, the WDIR path typically is read from left to right.

The following describes each element of the WDIR path.

- **Local WDIR Path —** A personal settings folder that stores project settings and a variety of files such as log and application configuration files. The folder must be writable and unique to the user.

  Mentor recommends that you put the local WDIR on a local file system because network latency between the client system and the system hosting the folder could negatively impact performance. Also, user account control on Windows operating systems may make it difficult to write to a WDIR location on a remote drive when registering or installing software.

- **Corporate WDIR Path —** A shared location where you can place files containing settings common to all users, such as templates, configuration files, and so on. Because this location is parsed after the local WDIR, any conflicts in application settings usually resolve to the value found in the corporate WDIR.

  In the Windows environment, the corporate WDIR path should be a UNC pathname to support concurrent design.

  > **Note**
  > The Remote Server Configuration Manager (RSCM) must have a WDIR path defined as a system environment variable.

Following is an example of how to configure a corporate-wide WDIR on Windows:

```
WDIR_PADSVX_2_6=C:\WDIR\PADSVX.2.6; \\appserver\shared\Mentor\
Site_Config_VX.2.6
```

Where *C:\WDIR\PADSVX.2.6* is the local writable WDIR location and *\\appserver\ shared\Mentor\Site_Config_VX.2.6* represents a shared WDIR location, such as a corporate WDIR.

- **Project WDIR Path** — A shared location similar to the corporate WDIR path but that has files containing settings that are project-specific. Because this location is parsed after the local WDIR and corporate WDIR, any conflicts in application settings usually resolve to the value found in the project WDIR.

  In the Windows environment, the project WDIR path should be a UNC pathname to support concurrent design.

- **Standard WDIR Path** — A working directory that is always located in *<flow_version_root>\SDD_HOME\standard*. The folder contains application defaults and other settings that the end-user typically does not modify. At runtime, the environment wrapper scripts automatically append this location to the WDIR path. Therefore, you do not need to manually add this location to the WDIR path.

Related Topics

[Managing Multiple Releases](#)

CFGR_INI

Use the optional CFGR_INI environment variable to point to the *registrator.ini* file or, if you have pre-VX releases, to the *configurator.ini* file. When registering and configuring installs on Windows, you can create this *.ini* file, which provides the values for the license path and WDIR path, thereby enabling you to avoid prompts asking for this information during installation or when you use the Release Switcher. The *.ini* file also enables you to use unattended or silent mode, essential during batch installation.

Examples

The following CFGR_INI example points to the *registrator.ini* file on the computer.

```
CFGR_INI=C:\<my_loc>\registrator.ini
```

The following example shows the contents of a *registrator.ini* or *configurator.ini* file. The version number after each "WDIR_" line must exactly match the flow version root folder name under the Mentor target location folder.

```
[defaults]
MGLS_LICENSE_FILE=27009@<my_server>.domain.com
WDIR=C:\WDIR
WDIR_9.4PADS=C:\WDIR\9.4PADS
WDIR_PADSVX.2.6=C:\WDIR\PADSVX.2.6
```

Usage Notes

- The *.ini* file only can set the MGLS_LICENSE_FILE and WDIR environment variables.

- In the example, WDIR defines the default. The Registrator or Configurator uses the default value if the release version you are using does not match the flow version root value of any entry in the *.ini* file.

- You can add multiple WDIR paths by separating them with a semicolon. For example:

```
WDIR_PADSVX.2.6=C:\WDIR\PADSVX.2.6;
\\appserver\shared\Mentor\Site_Config_VX.2.6
```

Related Topics

Software Directory Structure

Using the Release Switcher

Your work may require you to use multiple releases of Mentor software installed on the same Windows computer and switch between those products.

For example, you may have multiple pre-VX releases of PADS software and are now installing a VX release, and you need the ability to switch between them. Perhaps you have X-ENTP, PADS, and PADS Professional VX releases installed on the same Windows computer and you want to switch between the product flows. Or you want to configure all of your VX software to run simultaneously and have one version designated as the default. The default version runs when you double-click a file with an extension such as *.prj* or *.pcb* or use automated functionality through scripts.

To manage multiple releases on a single machine, you must make sure that the software is correctly configured and registered. To do this, use the Release Switcher, which is available in all VX.0 and newer releases.

You should understand some key terminology and configuration setting options for managing multiple releases before you use the Release Switcher.

Key Terminology

When you work in a multiple-release environment in the PADS flow, certain terms are important for you to understand.

- **active release** — A release that has applications you can invoke directly without requiring any further registration or configuration. If a pre-VX release is active, no other release can be active at the same time. Multiple VX releases can be active simultaneously because they are side-by side compatible. See *side-by-side releases*.

- **Configurator** — The primary registration tool in pre-VX releases. A pure VX environment no longer requires the Configurator; however, all 32-bit VX releases for Windows deliver an updated version of the tool for backward compatibility. The registration process uses the Configurator, along with the Registrator, when switching to or from a pre-VX release.

- **default release** — The release that starts when you double-click a file with an extension such as *.prj* or *.pcb* or run an automation script. The most recently registered and configured release is the default, but you can use the Release Switcher to choose a new default.

- **inactive release** — A release that is installed but not currently registered. You cannot use the release until it is registered. For more information, refer to the descriptions of active release, Release Switcher, and side-by-side releases. If all releases are unregistered, no applications will run or appear in the **Start** menu except for the Mentor Install program, the license software (if installed), and the Mentor EBS Admin Utilities folder (which contains the MGC EBS Release Switcher).

- **Registrator** — A tool that sets up your Windows environment to run your Mentor products. The Registrator replaces the Configurator in VX.0 and newer releases. The Release Switcher calls the Registrator as needed to configure or unconfigure a VX release. For more information about what happens during the installation, refer to "Overview of Installed Components" on page 37.

- **Release Switcher** — A program included with VX.0 and newer releases that enables you to switch between pre-VX and VX releases, register or unregister releases, re-register a release, or change the default release. For more information about the Release Switcher, including its location, refer to "Using the Release Switcher" on page 56.

- **side-by-side releases** — Multiple releases that are active, meaning they are fully registered and simultaneously functional. All VX releases (X-ENTP VX.2.6 and PADS VX.2.6, for example) are side-by-side compatible. However, pre-VX releases are not; only one can be active at a time. You use the Release Switcher to set which active release is the default or to switch between VX and pre-VX releases.

WDIR and License File Location Settings for Multiple Releases

During an initial software installation or when switching between existing releases, the registration process asks for configuration information such as the WDIR and MGLS_LICENSE_FILE environment variable values. You can avoid these prompts by creating a *registrator.ini* or *configurator.ini* file that provides these values and then using the CFGR_INI environment variable to point to the *.ini* file. This *.ini* file is especially useful in batch installation mode.

_____ **Note** _____

Each software release must have a unique WDIR location.

Related Topics

Environment Variables

Performing a Batch Installation

Using the Release Switcher

The Release Switcher, a program that is available in all VX releases, enables you to manage software releases installed on the same Windows computer. You can switch between pre-VX and VX releases, register and unregister releases, refresh a release registration, or set a default release when you have side-by-side compatible releases.

The Release Switcher location differs by operating system:

Operating System	Release Switcher Location
Windows 7	Choose **Start > All Programs > Mentor EBS Admin Utilities > MGC EBS Release Switcher**.
Windows 8.1 or newer	From the **Start** menu, locate Mentor EBS Admin Utilities and choose **MGC EBS Release Switcher**.

_____ **Note** _____

All installed releases should be available from the dropdown lists in the Release Switcher. If not, select the release by browsing to its location in the flow version root folder. For example, *C:\MentorGraphics\PADSVX.2.6*.

Switching Between Side-by-Side Compatible Releases

All VX releases are side-by-side compatible, which means multiple releases can be registered, and therefore active, at the same time. However, you can choose to have only one active release, either a particular flow or version.

The following procedure shows an example that removes the registration for PADS VX.2.5 and replaces it with PADS VX.2.6.

Prerequisites

- You have at least two VX releases (PADS VX.2.5 and PADS VX.2.6 in this example) installed.

- You have administrator privileges on the system.

Procedure

1. Open the Release Switcher.

2. In the Switch From Release field, use the dropdown list or **Browse** button to select the PADS VX.2.5 release.

3. In the Switch To Release field, use the dropdown list or **Browse** button to select the PADS VX.2.6 release.

4. Click **OK**.

Results

The *registrator.exe* program runs from the PADS VX.2.5 installation tree with the -clean option and removes the PADS VX.2.5 registration and items from the **Start** menu.

The *registrator.exe* program runs again from the PADS VX.2.6 installation tree and creates the PADS VX.2.6 registration and **Start** menu items. PADS VX.2.6 becomes the new default release. An asterisk preceding the pathname in the Release Switcher identifies the current default release.

Switching Between Releases When One or More is Not Side-by-Side Compatible

Pre-VX releases are not side-by-side compatible. If you have both pre-VX and VX releases installed, and a pre-VX release is active, no other release can be active at the same time. Switching to a pre-VX release registers the release and unregisters all others.

The following procedure shows an example of switching from PADS VX.2.6 to PADS 9.5.

Prerequisites

- You have at least one VX release (VX.2.6 in this example) installed.

- You have at least one pre-VX release (PADS 9.5 in this example) installed.

- You have administrator privileges on the system.

Procedure

1. Open the Release Switcher.

2. In the Switch From Release field, use the dropdown list or **Browse** button to select the VX.2.6 release.

3. In the Switch To Release field, use the dropdown list or **Browse** button to select the PADS 9.5 release.

4. Click **OK**.

Results

The *registrator.exe* program runs from the VX.2.6 installation tree with the -clean option and removes the VX.2.6 registration and items from the **Start** menu. If your system has any other registered VX releases, the *registrator.exe* program repeats the process for each one.

The *configurator.exe* program runs and creates the PADS 9.5 registration and **Start** menu items.

Refreshing a Release Registration

If you experience instability while running applications, refreshing the release registration may solve the problem.

The following procedure shows an example of refreshing the registration of the current default release.

Prerequisites

- You have a release of any version installed.

- You have administrator privileges on the system.

Procedure

1. Open the Release Switcher. The current default release appears in the Switch From Release field.

2. In the Switch To Release field, use the dropdown list or **Browse** button to select the same release as appears in the Switch From Release field.

3. Click **OK**.

Results

If you refreshed a pre-VX release, the *configurator.exe* program runs with the -clean and -version= options and removes the **Start** menu items. The *configurator.exe* program runs again and creates a new registration and the **Start** menu items.

If you refreshed a VX release, the *registrator.exe* program runs with the -clean option and removes the registration and **Start** menu items. The *registrator.exe* program runs again and creates a new registration and the **Start** menu items.

Adding a Release Registration

All VX releases are side-by-side compatible, and you can register multiple releases to run simultaneously.

The following procedure shows an example of registering additional releases and keeping the same default release.

Prerequisites

- You have at least two VX releases installed.

- You have administrator privileges on the system.

Procedure

1. Open the Release Switcher. The current default release appears in the Switch From Release field.

2. Select the Don't Unregister Anything check box.

3. In the Switch To Release field, use the dropdown list or **Browse** button to select the same release as appears in the Switch From Release field.

4. Click **Select Additional Releases to Register**.

5. In the dialog box that appears, select all releases that you want to register.

6. Click **OK**.

Results

For each release you selected for registration, the *registrator.exe* program creates the registration and the **Start** menu items. The default release is unchanged.

Changing the Default VX Release

An application in the default release starts when you double-click a file with an extension such as *.prj* or *.pcb* or run an automation script. Normally, the release registered last is the default, but you can choose a different release to be the default.

The following procedure shows an example of choosing a new default VX release.

> **Note**
> If you want a pre-VX release to be the default, follow the procedure in "Switching Between Releases When One or More is Not Side-by-Side Compatible" on page 57. The pre-VX release you choose will be the only registered release and, therefore, becomes the default.

Prerequisites

- You have at least two registered VX releases.

- You have administrator privileges on the system.

Procedure

1. Start the Release Switcher. The current default release appears in the Switch From Release field.

2. Select the Don't Unregister Anything check box.

3. In the Switch To Release field, use the dropdown list or **Browse** button to select the release you want to designate as the default.

4. Click **OK**.

Results

The *registrator.exe* program runs from the installation tree of the release in the Switch To Release field, making that release the default. Now when you double-click a file with an extension such as *.prj* or *.pcb* or run an automated script, an application in that release starts.

Removing a Release Registration

You can remove any or all release registrations. Unregistering a release removes its **Start** menu items but does not uninstall the release. To use the release again, you can re-register the release later.

Prerequisites

- You have one or more releases of any version installed.

- You have administrator privileges on the system.

Procedure

1. Open the Release Switcher.

2. In the Switch From Release field, use the dropdown list or **Browse** button to select the release you want to unregister. If you want to remove registrations from additional releases, click **Select Additional Releases to Unregister** and choose all releases that you want to unregister.

> _____ **Note** _____
> If you do not remove the registrations from all releases, you may receive a message to choose a new default release.

3. If you want to specify a new default release, use the dropdown menu or **Browse** button in the Switch To Release field to select a release. If you are unregistering all releases, leave the Switch To Release field empty and select the Don't Register Anything check box.

4. Click **OK**.

Results

Depending on the releases you chose to unregister, either the *registrator.exe* or *configurator.exe* program runs with the -clean option and removes the registrations and items from the **Start** menu. If any active releases remain, the Release Switcher automatically re-registers them. If your environment prevents this, you must manually re-register the remaining active releases.

_____ **Note** _____
If you unregistered all releases, the system will not have a functional runtime environment configured for any Mentor EBS product.

Chapter 5
Documentation System

All Mentor product releases provide the Mentor Documentation System as part of the installation process. At the center of the system is the InfoHub that supports both PDF and HTML content. From the InfoHub, you can access all locally installed user documentation, videos, and tutorials.

Also, the system sometimes includes the PDF bookcase file, which provides access to all installed PDF files. Both the InfoHub and PDF bookcase provide direct access to Support Center for software downloads and Knowledge Base (KB) articles.

_____ **Note** _____
If you are using Windows Server 2016 as an Administrator, make sure that a default web browser is set; otherwise, the product documentation will not open.
_____

The *Mentor Documentation System* manual provides more information, including the following:

- InfoHub Help
- HTML Document Help
- PDF Bookcase
- Documentation Directory Structure
- Documentation Options
- Hosting Documentation on an Internal HTTP Server
- Setting Your HTML Preferences
- Browser Settings
- Document Search
- Search Tips
- Printing HTML Manuals
- Custom Tab
- Pointing to a Common Customer.js File
- Troubleshooting the InfoHub and HTML Documentation

Documentation Options

Mentor applications support a set of variables that control different aspects of your access to the Mentor Documentation System. These documentation variables control the default HTML browser, the default PDF reader, and an alternate location of the documentation tree. For example, you can copy the documentation tree from your software tree to another location such as to a web server that is internal to your company's network and then use a documentation variable to specify that location.

To use the documentation variables, you specify them in the *mgc_doc_options.ini* and *mgc_viewer_config.ini* files. You must create these files and place them in specific locations.

- **mgc_doc_options.ini** — Located at the top of the *docs*, *doc*, or *shared* directory in the installed software tree, the *mgc_doc_options.ini* file specifies where to find the documentation and which PDF and HTML viewer to use. This file is optional, and any of the three variables is optional. The file uses the following format:

  ```
  # Comment line.
  MGC_ALT_DOC_PATH="<alternate_path>"
  MGC_HTML_BROWSER="<browser_executable_path>"
  MGC_PDF_READER="<viewer_executable_path>"
  ```

- **mgc_viewer_config.ini** — Located in *C:\users\<username>\AppData\Local\ MentorGraphics*, the *mgc_viewer_config.ini* file defines only the PDF and HTML viewers that the software uses. This file enables you to specify different viewers from those defined for an entire organization in the *mgc_doc_options.ini* file that is located in the software tree. The viewers that you specify in the *mgc_viewer_config.ini* file also override the viewers that your system uses for *.pdf* and *.html* file-type associations.

  This file cannot specify where the software finds an alternative documentation tree. You define that location in the *mgc_doc_options.ini* file.

  The *mgc_viewer_config.ini* file uses the following format:

  ```
  # Comment line.
  MGC_HTML_BROWSER="<browser_executable_path>"
  MGC_PDF_READER="<viewer_executable_path>"
  ```

For more information, refer to "Documentation Options" in the *Mentor Documentation System* manual.

Chapter 6
Troubleshooting

You may encounter problems during installation or receive an error from the Mentor Install Program (MIP) if the installation process cannot complete. This section explains the probable causes and provides solutions.

For help with licensing issues that are not product specific, refer to the "Troubleshooting" chapter in the *Mentor Standard Licensing Manual* (*mgc_licen.pdf*).

For additional help, refer to "Technical Support Resources" on page 45.

Troubleshooting Common Licensing Errors

This section lists some of the more common errors encountered during the licensing part of the PADS installation.

___Note___

For help with PADS Licensing configuration, or to troubleshoot licensing problems when attempting to run the PADS applications, refer to TechNote MG58662. For general information on setting up your authorization code (license file) and for examples of what a typical authorization code looks like, refer to the following URL: http://communities.mentor.com/mgcx/docs/DOC-2811.

Table 6-1. Common Licensing Errors Summary

Error #	Description
L101	Missing License File
L102	Not a Valid License
L103	No Node-locked Licenses
L104	Expired Licenses
L105	Mobile Compute (Node-locked) license file issue(s) were found
L106	Exact Access version Dates are older than the required date
L107	No matching HostIDs found
L108	Network/Floating licenses were detected
L109	Cannot install Dongle Drivers
L110	Host Not Detected
L111	lmgrd Not Detected
L112	mgcld Not Detected

L101

Missing License File

Causes

License file does not exist or is not readable.

Solution

Click **OK** and browse to a valid file.

L102

Not a Valid License

Causes

License file does not contain any valid (mgcld daemon) INCREMENT lines.

Solution

Click OK and browse to a valid file. Refer to TechNote MG59430 on Support Center for examples of what a typical INCREMENT line for a Mobile Compute (node-locked) license file looks like.

L103

No Node-locked Licenses

Causes

License file does not contain any mobile compute (node-locked) licenses. It contains only Network/Floating licenses.

Solution

Click OK and browse to a license file containing mobile compute (node-locked) licenses. Alternatively, go back and install Network/Floating licenses. For help with the differences between floating (network), node-locked counted, and mobile compute (node-locked uncounted) refer to TechNote MG59430 on Support Center.

L104

Expired Licenses

Causes

All INCREMENT lines in the license file are expired.

Solution

To download the most current license file for your Site (excludes temporary/evaluation licenses), click here. For more details on why licenses expire, refer to the Exact Access information page on Support Center.

L105

Mobile Compute (Node-locked) license file issue(s) were found

Causes

Mobile Compute (Node-locked) license file issue(s) were found

Solution

See error message descriptions "L106" on page 68, "L107" on page 68, and "L108" on page 69 as required.

L106

Exact Access version Dates are older than the required date

Causes

License versions are too old to support this version of the PADS Flow software. The PADS Flow software requires a minimum Exact Access Date (EAD) of 2019.08 (format: YYYY.MM). EADs in your license file represent the support contract expiration date. For an index of PADS Flow versions and their required minimum Exact Access version dates, refer to TechNote MG59373.

Solution

You may not be able to launch the PADS products until the license versions are updated. To download the most current version of your license file, click here.

- Click **OK** to continue the installation of this license file.

- Click **Cancel** to go back and select a different or more current license file.

L107

No matching HostIDs found

Causes

The HostIDs found on this computer do not match the HostIDS found in the license file. When using Mobile Compute (Node-locked) licensing, PADS products must be able to match a HostID from this computer (or a hardware key) to a HostID in the license file.

Solution

If you have a hardware key for licensing and it is not attached, this may not present a problem provided the key is attached when you run PADS products.

If you have your hardware key attached, and you skipped the prompt to load hardware key drivers, click **Cancel** and re-do the Mobile Compute (Node-locked) license installation so that you can allow the drivers to be installed.

If you do not have a hardware key and licenses are locked to an Ethernet address, check to make sure you are installing PADS (and the license file) on the correct machine. Contact your local Mentor Sales Office if you think your license was generated incorrectly.

_____ **Note** _____

The hardware key drivers can also be installed and tested outside of the PADS installation from the following Start menu location: **PADS VX.2.6 (32-bit) > PADS Licensing Assistance > Test and Install Hardware Key Drivers**.

L108

Network/Floating licenses were detected

Causes

The license file contains some Network/Floating licenses. These licenses will be ignored by this Mobile Compute (Node-locked) installation.

For help with the differences between floating (network), node-locked counted, and mobile compute (node-locked), refer to TechNote MG59430 on Support Center.

Solution

Click **OK** to continue the installation of this Mobile Compute (Node-locked) license file.

Click **Cancel** to go back and select a different or more current license file.

For assistance with installing Network/Floating licenses on a Windows license server, refer to TechNote MG59429.

If the license server is another machine and you need to consume licenses from it:

- Go back (to the Choose Licensing Configuration dialog box).

- Select the Network/Floating Licensing option.

- Enter the port@host of the license server (ask your system administrator if you don't know these values).

L109

Cannot install Dongle Drivers

Causes

Dongle drivers cannot be installed because you do not have Administrative permissions.

You can install a license file without Administrative permissions. However, if your license file is based on a hardware key and the hardware key driver is not installed, you may not be able to launch the PADS products until the drivers are loaded.

Solution

- Click **OK** to skip the dongle driver installation dialog box and continue.

  _____ **Note** _____

  The hardware key drivers can be installed and tested outside of the PADS installation from the following Start menu location: **PADS VX.2.6 (32-bit) > PADS Licensing Assistance > Test and Install Hardware Key Drivers**

- Click **Cancel** to go back.

L110

Host Not Detected

Causes

Host <machine hostname> cannot be reached. The PADS products may fail to launch if the license server cannot be reached.

Solution

Check with your administrator to make sure you have the correct host name. Check that the host name can be resolved (via DNS or some other method).

For assistance with installing Network/Floating licenses on a Windows license server, refer to TechNote MG59429.

- Click **OK** to continue.
- Click **Cancel** to go back.

L111

lmgrd Not Detected

Causes

The license manager (lmgrd) was not detected on the specified host and port. The PADS products may fail to launch until both the lmgrd and mgcld daemons are up and available.

Solution

Check with your administrator to make sure the license manager (lmgrd) is running.

Check that you have the correct port number and host name.

Check that no firewall is blocking the communication. If there is a firewall between the license server and client machines, you must open the firewall to the lmgrd port (fourth field on the SERVER line in the license field, default value is 1717).

The port for the mgcld (vendor daemon) must also be opened. By default the mgcld port number is dynamic. To assign a static mgcld port refer to the Licensing Mentor Graphics Software manual, and specifically the Firewalls section.

For assistance with installing Network/Floating licenses on a Windows license server, refer to TechNote MG59429.

L112

mgcld Not Detected

Causes

The license manager (lmgrd) is running, but no Mentor Graphics licenses are available because the mgcld (vendor daemon) is not running. The PADS products may fail to launch until both the lmgrd and mgcld are up and available.

Solution

Check with your administrator to make sure the license manager has been configured for Mentor Graphics (mgcld) licensing.

Check that no firewall is blocking the communication. If there is a firewall between the license server and client machines, you must open the firewall to the lmgrd port (fourth field on the SERVER line in the license field, default value is 1717).

The port for the mgcld (vendor daemon) must also be opened. By default the mgcld port number is dynamic. To assign a static mgcld port refer to the Licensing Mentor Graphics Software manual, and specifically the Firewalls section.

For assistance with installing Network/Floating licenses on a Windows license server, refer to TechNote MG59429.

Troubleshooting Common Errors

You may encounter common errors, identified by number, during installation such as an out-of-date install program or the inability to write to or read a file. This section explains the probable causes and provides solutions.

Table 6-2. Common Errors Summary

Error #	Description
CP0008	The current version of MIP on your system is out of date.
CP0030	MIP encountered an error while trying to read the startup data and cannot continue.
IPW112 / IPW113	An error occurred when MIP tried to open a script archive file.
IPW114 / IPW122	A file write error occurred. MIP could not write to the specified file.
IPW116 / IPW118	An error occurred while attempting to write to a file. MIP could not write to the specified file, and the installation was canceled.
IPW123	A file read error occurred. MIP could not read the specified file.
IPW338	The version of MIP you are using is older than the minimum version required to install to the existing target.

CP0008

The current version of MIP on your system is out of date.

Causes

A newer version of the install program is available on the latest installation media.

Solution

Rerun your installation executable. This updates your MIP to the version contained in the installation media. If you do not want to install products, exit MIP.

CP0030

MIP encountered an error while trying to read the startup data and cannot continue.

Causes

The *installData.xml.gz* file needs to be in the Mentor Install data directory; the directory may have been moved or renamed. On Linux, the filename is case sensitive.

Solution

From the command line, install the latest version of MIP by running the installation executable with the -force option. This repairs the MIP installation.

IPW112 / IPW113

An error occurred when MIP tried to open a script archive file.

Causes

The installation script could not be found. Therefore, the install program could not proceed.

Solution

If you downloaded installation media in the form of a *.zip* file, make sure to extract the *.zip* file before you begin installation.

IPW114 / IPW122

A file write error occurred. MIP could not write to the specified file.

Causes

- The file or directory that contains the file does not have write permissions.

- The disk has inadequate space.

Solution

- Verify that the permissions are open on the file or directory and click **Retry** to continue installation.

- Verify that the disk has adequate space before you begin installation. The bottom of the Product Selection window in MIP shows the space required for the install and the space available at the target.

IPW116 / IPW118

An error occurred while attempting to write to a file. MIP could not write to the specified file, and the installation was canceled.

Causes

- Write permissions are not available.

- The disk has inadequate space.

Solution

- Ensure that write permissions are available.

- Verify that the disk has adequate space before you begin installation. The bottom of the Product Selection window in MIP shows the space required for the install and the space available at the target.

IPW123

A file read error occurred. MIP could not read the specified file.

Causes

- The file or directory that contains the file does not have read permissions.

- MIP could not find the specified file.

Solution

- Verify that the file or directory has adequate read permissions and click **Retry** to continue installation.

- Although MIP cancels the install if the specified file does not exist, you may want to try re-executing the install, especially if you were trying to install from the cloud. The file may not have been available from the cloud when you first attempted to run the install.

IPW338

The version of MIP you are using is older than the minimum version required to install to the existing target.

Causes

A newer version of MIP was used to install at the existing target. If you continue with this installation using an older version of MIP, a corrupted installation could result.

Solution

Run the installation executable from the release you are trying to install.

Troubleshooting Common Problems

You may encounter problems during installation such as the inability to remove a product or release, reinstall MIP, or install MIP to an alternate location. This section describes the probable causes and provides solutions.

Table 6-3. Common Problems Summary

Problem	Description
Product or Release Not Visible For Product Removal	In MIP, when you choose **Manage Software > Remove Products**, the product or release you want to remove does not appear in the Product Removal Selection window.
Unable to Reinstall MIP	The version of MIP that you are trying to reinstall is the same version as the one already installed.
Unable to Install MIP	You are unable to install MIP to an alternate location.

Product or Release Not Visible For Product Removal

In MIP, when you choose **Manage Software > Remove Products**, the product or release you want to remove does not appear in the Product Removal Selection window.

Causes

Either the product is not installed or the release is missing from the list of location targets.

Solution

To add the release to the list of location targets so that it can be selected for removal, follow these steps:

1. Click **Back** and choose **Tools > Installation Preferences**.

2. In the Installation Preferences window, click the **Target List** tab and click **Add**.

3. In the Select Target dialog box, browse to the release location that you want to add to the target list and click **Select Target**.

4. Verify that the target appears in the target list and click **Done**.

5. Choose **Manage Software > Remove Products** and proceed with the release removal.

Unable to Reinstall MIP

The version of MIP that you are trying to reinstall is the same version as the one already installed.

Causes

The same or newer version of MIP already exists.

Solution

Do one of the following:

- Run the installation executable with the -force option, which enables you to install the same version of MIP.

- From the **Start** menu on Windows, choose **Mentor > Mentor Uninstall > Uninstall Mentor Install**. Then install MIP by running the installation executable. If you do not want to install products, exit MIP.

Unable to Install MIP

You are unable to install MIP to an alternate location.

Solution

Table 6-4. Causes and Solutions

Cause	Solution
The same or a newer version of MIP already exists in the alternate location.	If a version of MIP currently exists in the alternate location and is the same or newer than the version of MIP you are trying to install, run the installation executable with the -force option to overwrite the existing version of MIP.
You did not use the -msiloc option to specify the alternate location.	Run the installation executable with the -msiloc option, which enables you to install MIP to an alternate location.
	For more information, refer to KB article MG63745 "How to load the Mentor Install Program (MIP) to a non-default location."
You do not have access permissions for the alternate location.	Verify that you have write permissions for the alternate location.
The disk space in the alternate location is inadequate.	Verify that the alternate location has adequate disk space (approximately 250 MB).

This section explains how to install 64-bit and 32-bit ODBC drivers side by side to support 32-bit Microsoft Access with 64-bit Mentor applications.

Supporting 32-Bit Microsoft Access Databases With 64-Bit Mentor Applications

To support 32-bit Microsoft Access with 64-bit Mentor applications, users who host their library parametric data in Microsoft Access in 32-bit versions of Office 2010/2013 must update their ODBC drivers to 64-bit. This topic explains how to install 64-bit ODBC drivers side by side with 32-bit drivers.

To use Mentor's 64-bit version of Databook with the 32-bit version of Microsoft Access, install the Microsoft Access Database Engine 2010 and then set up the Database DSN.

Prerequisites

- You have 32-bit Microsoft Office installed.

- You uninstalled previous versions of the Microsoft Access Database Engine executable.

- You intend on having PADS 64-bit applications VX.2.x.

Procedure

1. Go to the Microsoft web site at https://www.microsoft.com/en-us/download/details.aspx?id=13255 and click **Download**.

2. Choose the *AccessDatabaseEngine_X64.exe* executable and click **Next** to download the file.

3. Run the file from a command window with the **/passive** option.
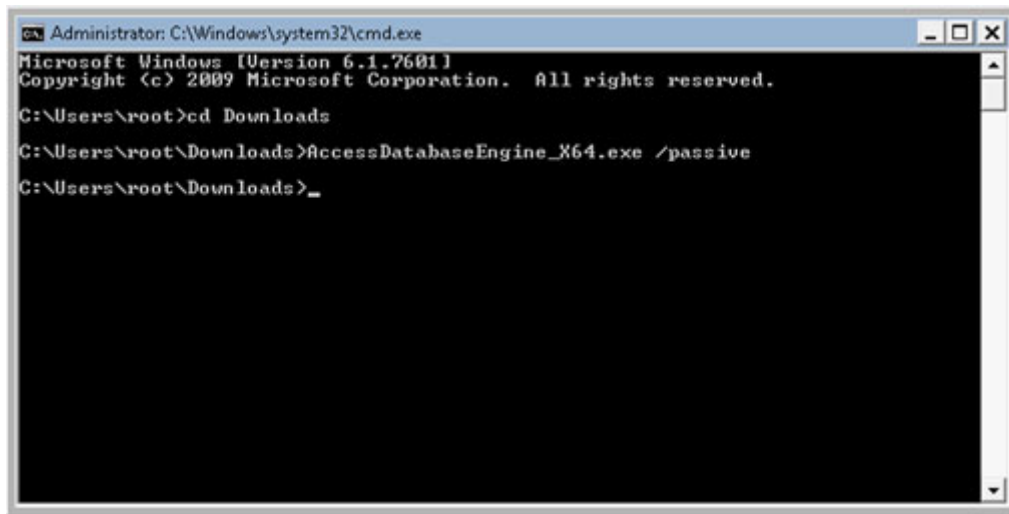
4. Once you have installed the new ODBC driver, configure the Database DSN using the 64-bit ODBC Data Source Administrator application by running *C:\Windows\System32\ odbcad32.exe*.
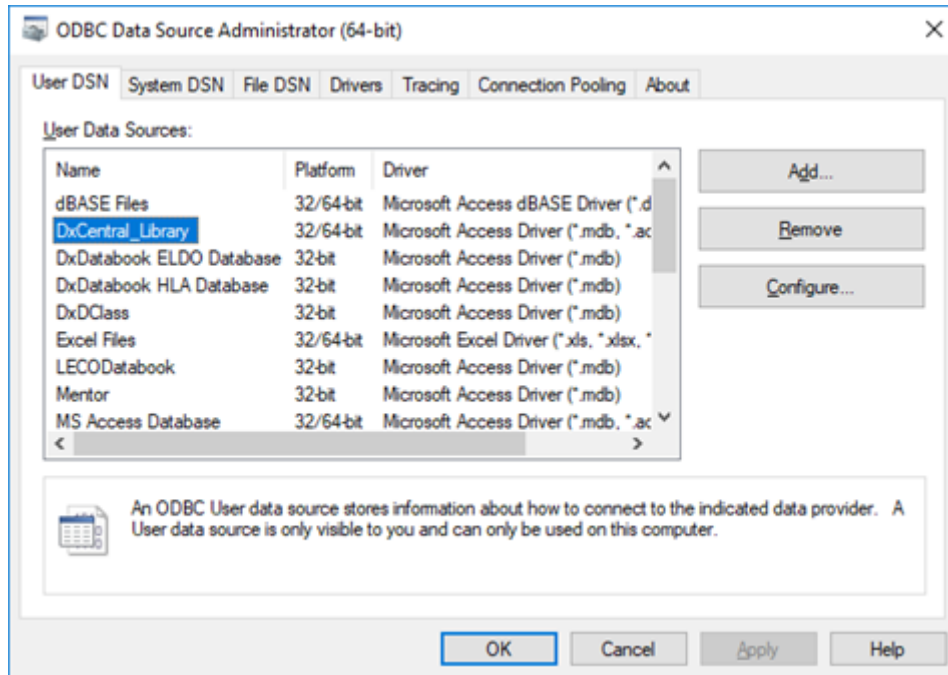
_____ **Note** _____

If you have an existing 32-bit DSN and want to reestablish the same DSN name with the 64-bit driver, you must first remove the 32-bit DSN using the 32-bit ODBC Data Source Administrator. Run *C:\Windows\SysWOW64\odbcad32.exe*.

_____

5. After you create the 64-bit DSN, you should see an entry similar to the figure below where the source shows both 32-bit and 64-bit support. Click **OK**.

Results

Your existing database connections in your Xpedition, PADS Professional, or PADS projects should work as normal, whether running 32-bit or 64-bit versions of Mentor tools.

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