



PADS Installation Instructions

Software Version 9.5

September 2012

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Contractor/manufacturer is:

Mentor Graphics Corporation

8005 S.W. Boeckman Road, Wilsonville, Oregon 97070-7777.

Telephone: 503.685.7000

Toll-Free Telephone: 800.592.2210

Website: www.mentor.com

SupportNet: supportnet.mentor.com/

Send Feedback on Documentation: supportnet.mentor.com/doc_feedback_form

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For additional reference while loading software, Mentor Graphics provides the following key system documentation on the installation DVD and on SupportNet (unless noted otherwise).

- *PADS 9.5 Release Notes (PADS_rn.pdf)* — available from the Welcome screen in the install
- *PADS 9.5 Release Highlights (PADS_rh.pdf and PADS_rh_ja.pdf)* — unpacked by the installer and available from the Bundles directory
- *Managing Mentor Graphics Systems Software (manage_sw_pads.pdf)*
- *Licensing Mentor Graphics Software (mgc_licen.pdf)*
- *Release Notes for Managing Mentor Graphics Software (mgc_lic_rn.pdf)*
- *License Administration Guide (flexnet_lic_admin.pdf)*

Before You Begin Installation

The following are pre-requisites to the Mentor Graphics product installation.

1. Check system requirements. For current system requirements, refer to SupportNet:
<http://supportnet.mentor.com/systemreqs/index.cfm>
2. Mentor Graphics requires that you have Administrator permissions to install the PADS Flow software.
3. Mentor Graphics recommends you have Administrator permissions to run the PADS Flow software. To be able to run the software or run the Configurator (to switch PADS versions) without Administrator permissions read the “Who Can Run the Configurator” section of the *Managing Mentor Graphics Systems Software* manual (*manage_sw_pads.pdf*) for instructions before starting the installation. The manual is located on the installation DVD and on SupportNet.
4. PADS 9.5 requires FlexNet 11.10 software on the license server. (This applies only to Floating/Network licenses.) Refer to SupportNet and specifically technote MG55496 for instructions on using the automated method for upgrading the licensing software on the server.

<https://supportnet.mentor.com/reference/technotes/public/technote.cfm?tn=MG55496>
5. Support for some hardware keys (dongles) is discontinued in PADS 9.5. The Pink (SSI) and CPLUS parallel port keys are no longer supported in PADS 9.5. Other parallel port keys are also affected by this change depending on the Windows Operating System. For a table of supported hardware keys refer to the [Hardware Key \(Dongle\) Discontinuations and Replacement FAQ](#). To swap your existing parallel port hardware key for a USB hardware key, refer to TechNote [MG577871](#) for details.
6. The PADS 9.5 release uses the Microsoft Visual C++ 2008 compilers which have a runtime compatibility requirement. During installation of PADS 9.5, your system is automatically checked to see if it meets these requirements. If not, the Microsoft Visual C++ 2008 SP1 Redistribution software will be installed.

In some cases, this will require your system be rebooted. If a reboot is required, a message appears where you must click **OK**. Installation cannot be successfully completed until after a reboot has occurred. Once the system has been rebooted, you must restart the Mentor Installation Program and continue your installation of PADS 9.5.



Tip: You can avoid this potential reboot by pre-installing the Microsoft Visual C++ 2008 SP1 Redistribution package before you install the PADS 9.5 release.

Note

If you are performing batch or third party distributed installations of PADS 9.5, it is strongly recommended that you install the Microsoft Visual C++ 2008 Redistributable package on all systems first, reboot, and then install the PADS 9.5 release.

The Microsoft Visual C++ 2008 Redistributable package may be obtained from Microsoft:

<http://www.microsoft.com/downloads/details.aspx?familyid=A5C84275-3B97-4AB7-A40D-3802B2AF5FC2&displaylang=en>

Ordering Licenses

New users must order software licenses prior to installing Mentor Graphics software. To order licenses, contact your local Mentor Graphics sales office. They can provide you with information on the number of node-locked and floating licenses your company purchased and any current license sever configurations you may have. You must provide them with:

- 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 customers are reminded that your licensing report is available at the SupportNet web site (<http://supportnet.mentor.com/myaccount>), then choose the **Licenses** tab.

Note

The Customer Support web site requires a login and password. To register and obtain a password, go to <http://supportnet.mentor.com/user/register.cfm>. If you have difficulties, email csd_registration@mentor.com.

If you are registered, but have forgotten your password, go to http://supportnet.mentor.com/user/forgot_password.cfm.

Downloading Software From SupportNet

The PADS Flow installation is downloaded as a single executable.

Create a PADS 9.5 folder on your computer and download the executable to it. Mentor Graphics recommends installing to the default target location of C:\MentorGraphics. Downloads are available at:

<http://supportnet.mentor.com/downloads>

Starting the Installation

Navigate to and double-click the executable name (**PADS9.5_mib.exe**).

Plugging in the Hardware Key

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

The Mentor Install Program will unpack all necessary files to a newly created temporary directory under tmp where the Mentor Install Program exists (by default:

C:\MentorGraphics\Install). The temporary directory is automatically removed once the installation completes

Procedure

1. If you will be using a hardware key (dongle) for your licensing, now is the time to plug it in.
2. Click **Next** to start license checking.

Note



If you encounter any Windows dialogs asking for the whereabouts of certain (driver) files, click **Cancel** to dismiss. The PADS Flow installation will offer to install hardware key drivers later in the installation, if necessary.

The following (core) license features are checked (factors in the minimum required Exact Access version Date for this PADS Flow release):

- **pwrshell** (PADS Layout)
- **viewdraw** (PADS Logic/DxDesigner)
- **viewdraw040** (PADS Logic/DxDesigner)

These license features may exist within a PADS Suite (composite) license, 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 a few of the more common PADS Suite license feature names containing one or more of the above license features:

- PADS ES Suite (license feature: **padses_c**)
- PADS LS Suite (license feature: **padsls_c**)
- PADS DS Suite (license feature: **padsds_c**)

Note



For PADS 9.5, the minimum required Exact Access Date (EAD) is 2012.060, which represents June 2012. Refer to TechNote [MG593737](#) for a mapping of PADS Flow versions to their required EAD.

If the License Checking is Successful

If one or more of the license checks succeeds, a “Welcome to PADS Installation” dialog will appear and the first sentence will state **Current license detected**.

Procedure

Click **Next** (the default and recommended option), to skip the licensing and proceed to the main part of the installation.

Other options are:

- Click **Licensing** to open the Licensing Configuration dialog where a new Mobile Compute (Node-locked) license or Port@host (for a license server) can be set up.
- Click **Cancel** to exit out of the installation. A confirmation prompt displays in case Cancel was selected by accident.
- Click **VIEW README** to open the README file in the default web browser.

If the License Checking is Not Successful

If none of the license checks succeeds, a “Welcome to PADS Installation” dialog appears and the first sentence will state **No current license detected**.

Procedure

Click **Next** (the default and recommended option), to proceed to licensing configuration since no current license was detected.

Other options are:

- Click **Skip** to bypass licensing configuration and proceed to the main part of the installation.
- Click **Cancel** to exit out of the installation. A confirmation prompt displays in case Cancel was selected by accident.
- Click **VIEW README** to open the README file in the default web browser.

Choosing Licensing Configuration

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

Procedure

1. Choose from the following options:

- **Mobile Compute (Node-locked) Licensing**

Select this option if you have a new Mobile Compute (Node-locked) license file to install. The license could 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 if 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.

- The license server software can be installed as a product (shows up in the list of products during product installation).
- Refer to TechNote [MG59429](#) for details on configuring the license manager on the Windows machine.



Tip: To learn more about the different types of licenses, refer to TechNote [MG59430](#).

2. Click **Next**.

If you selected the **Mobile Compute (Node-locked) Licensing** option, this button takes you to the Enter License File dialog.

If you selected the **Network/Floating Licensing** option, this button takes you to the Set Port and Server dialog.

Alternatively, you can click **Back** to return to the Welcome to PADS Installation dialog, or, click **Cancel** to exit out of the installation. A confirmation prompt will appear in case Cancel was selected by accident.

Specifying the Location of the License File

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

Procedure

1. Type a path or click **Browse** to select the path to the license file.

Note



If you don't 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).

Once complete, the installation proceeds to the Licensing Configuration Complete dialog.

Alternatively, you can click **Back** to return to the Choose Licensing Configuration dialog or click **Cancel** to exit out of the installation. A confirmation prompt will be offered in case Cancel was selected by mistake.



Tip: For a list of possible error messages, refer to the *Troubleshooting PADS Installation* manual available in the installation help or Appendix A in the *Managing Mentor Graphics Systems Software—PADS Installation and Licensing* manual (*manage_sw_pads.pdf*).

Note



The default license file location is C:\MentorGraphics\license_files\license.txt.

Specifying the Port Number and Host Name of License Server

If you selected the Network/Floating Licensing option, you are presented with the Set Port and Server dialog where you 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: If you are not sure about either the Port number or host name, consult the system administrator for the license server.

3. Click **Next** to validate the port number and host name of 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).

Once complete, the installation proceeds to the Licensing Configuration Complete dialog.

Alternatively, you can click **Back** to return to the Choose Licensing Configuration dialog or click **Cancel** to exit out of the installation. A confirmation prompt will be offered in case Cancel was selected by mistake.

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
```



Tip: For a list of possible error messages, refer to the *Troubleshooting PADS Installation* manual available in PDF format as part of the documentation set shipped on the application DVD, or you can view it on SupportNet:
<http://supportnet.mentor.com>.

Completing License Configuration

The Licensing Configuration Complete dialog appears once the licensing configuration has completed successfully.

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. 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. For example, the port@host would look like: 1717@starship.

Procedure

Select **Next** to continue to the Confirm Installation Choices dialog.

Select **Licensing** to install an additional licensing configuration.

Note

You may see 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).

Confirming Installation Choices

The Confirm Installation Choices dialog identifies all the products that have been automatically selected based on the licenses detected for installation.

If no products are listed and the ***** NO PRODUCTS SELECTED ***** sentence displays, then no valid or current licenses were detected. 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 **Mentor Graphics SDD > PADS Licensing Assistance > Install License File** Start Menu entry.

In addition to the list of products, the installation location is listed ("C:\MentorGraphics" in this example), along with the Release ("PADS 9.5"), the PADS Projects location ("C:\PADS Projects"), and the (disk) Space required and Space available.

Procedure

Select **Install** to start the product installation.

Other options are:

- **Modify** takes you to the Modify Product Selection and/or Paths dialog where you can add or remove products for installation and change the PADS Software and/or PADS Projects target locations.
- **Cancel** exits the installation. A confirmation prompt is offered in case Cancel was selected by accident.

Modifying Product Selection and Target Locations

Use the Modify Product Selection and/or Paths dialog to add or remove products for installation and change the PADS Software and PADS Projects target locations.

Procedure

1. Select from the following:

- **Product Selection**

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

- **Target Path**

Select this option to display the Target Path dialog where you can change the location where you will install the PADS Flow software to. 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 to.

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 will update the applicable PADS Flow (dot) release. For example: PADS 9.4 Update 1 will update the files in the existing PADS 9.4 (full release) installation.

- **PADS Projects Path**

Select this option to change the location of the PADS Projects or WDIR (DxDesigner working directory) 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. Unselect 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 Confirm Installation Choices dialog.

Installing Products

After selecting the **Install** button on the Confirm Installation Choices dialog, the installation begins.

There are a few different stages that the installation goes through, including

- running of self installation scripts
- pre installation scripts
- main installation (where the files are copied to the target)
- post installation scripts

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

Additional dialogs 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 that comes up during the post installation phase is the MGC SDD Configurator.

Caution



It is critical that these dialogs and any blank DOS/command prompt dialogs be allowed to finish, and to close on their own. Terminating any of these dialogs before they complete may result in an incomplete and non-functioning installation.

Completing PADS Installation

The PADS Installation Complete dialog displays when the installation has finished. Use this dialog to choose how you want to register the software with Mentor Graphics. You can also view any README files associated with the PADS Flow installation.

Procedure

1. Register the software with Mentor Graphics by choosing one of the following:
 - **via the Internet** — Select this option if you would like to register your PADS Flow product(s) via the Internet. The PADS registration page will open 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 if you would like to register your PADS Flow product(s) using your local email program. Your default email program will open and a new email containing the registration template will appear. 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 via the **Start Menu**.
2. (Optional) Click **VIEW README** to view the release documentation in a browser.
 3. Click **Done** to exit the PADS Flow Install program.



Tip: For Licensing and Installation assistance (FAQs, setup, and troubleshooting information), see TechNote MG58662 on SupportNet:

<https://supportnet.mentor.com/reference/technotes/public/technote.cfm?tn=MG58662>

Supported Tools Matrix

PADS products are compatible with the following tools:

Tool	Version
CAM350 [®]	10.x
Pro/ENGINEER [®]	Wildfire [®] 5.0
AutoCAD [®]	2010
SPECCTRA [®]	16.2
FlexNet [™]	11.10 or higher

Installing PADS 9.5 with Previous Versions

PADS settings for older versions can be migrated to PADS 9.5 by running the PADS User Setting Migration program in **Start > Programs > Mentor Graphics SDD > PADS 9.5**.

If you have a previous version of PADS installed on the computer and do not want to migrate or save any PADS settings, perform the following steps:

1. Back up any libraries that contain custom parts you created.
2. Back up any critical design files on your computer.
3. If you do not want to continue using any existing PADS software, uninstall it before installing this release from **Start > Programs > Mentor Graphics > Mentor Uninstall > Uninstall Mentor Products**.

If any PADS settings need to be migrated from an older version, perform the following steps:

1. Install PADS 9.5.
2. Run the PADS User Settings Migration program found in **Start > Programs > Mentor Graphics SDD > PADS 9.5**.

3. If you do not want to continue using the older version of PADS software, uninstall it from **Start > Programs > Mentor Graphics > Mentor Uninstall > Uninstall Mentor Products**.

Uninstall V9.5 Beta version

If you participated in the Beta program for this release, uninstall any previous version of V9.5 prior to installing this version. To uninstall a Beta version:

1. Back up any libraries that contain custom parts you created.
2. Back up any critical design files on your computer.
3. If you do not want to continue using any existing PADS software, uninstall it before installing this release from **Start > Programs > Mentor Graphics > Mentor Uninstall > Uninstall Mentor Products**.

Licensing

For complete information on licensing, see the *Managing Mentor Graphics Systems Software—PADS Installation and Licensing* manual (*manage_sw_pads.pdf*) in the release_documents folder on this DVD.

Starting Products

To start the main products, use the Desktop icons.

To start any application in the PADS release:

1. **Start > Programs > Mentor Graphics SDD.**
2. Select the folder for the product and click the name of the product to start.

Location of Design Samples and Projects

The following table shows the location of design sample files and the default location of your design project files:

C:\PADS Projects	
Subfolder	What is Installed
<root>	An empty folder to hold design files and folders for: <ul style="list-style-type: none">• PADS Layout and PADS Router• PADS Logic• DxDesigner
CAM	An empty folder to hold PADS Logic and Layout CAM files.
Reuse	An empty folder to hold PADS Layout Reuse files.
Samples	Sample, demo, example, and script files for PADS products. Tip: This folder contains files you can use and change. A backup-only folder is located at C:\MentorGraphics\9.5PADS\SDD_HOME\Samples

Switching Between SDD Product Versions or Flows

If the computer has multiple Mentor Graphics Systems Design Division (SDD) product versions or product flows, use the MGC SDD Configurator to switch between different product versions or flows.

To start the MGC SDD Configurator:

Start > Programs > Mentor Graphics SDD > The MGC SDD Configurator.

Note



By default, Administrator permissions are required to run the MGC SDD Configurator. Restricted Users and Power Users can run the MGC SDD Configurator but must follow instructions for setting the SDD_USELOCALENV variable prior to installation as described in \release_documents\manage_sw_pads.pdf from the download or application DVD.



Tip: If you install an earlier version of SDD software after you install V9.5, the Configurator does not display V9.5 in its list of product versions or flows to which you can switch. Instead of V9.5, the list shows a blank item. To select V9.5, select the blank item. Reinstalling one or more of the V9.5 products will resolve this issue.

Note



For more information on installation and licensing, including types of licensing, batch installation, environment variables and documentation, see *Managing Mentor Graphics Systems Software—PADS Installation and Licensing (manage_sw_pads.pdf)* in the release_documents folder on this application DVD.

Managing Mentor Graphics Documentation

The PADS 9.5 release includes the Mentor Graphics Documentation System. The System consists of a search and navigational interface called InfoHub™, and documents in PDF and HTML formats.

- **InfoHub** — An embedded product information portal that provides links to all your locally installed documentation and SupportNet.
- **Help & Manuals** — User, reference, and process documentation.

The typical Mentor Graphics Documentation System has the following directory structure.

```
MentorGraphics ($SDD_ROOT)
|-- 9.5PADS
    |-- docs
        |-- htmdocs
        |-- infohubs
        |-- legal
        |-- pdfdocs
        |-- system_admin_docs
        |-- index.html
    |-- MGC_HOME.{vco}
    |-- SDD_ADDINS
    |-- SDD_HOME
```

The documentation directory is either named *docs*, *doc*, or *shared*. The *docs* directory is self-contained, in that, all links between documents (PDF and HTML) are relative. This enables you to make a copy of the documentation and store it in any location and still have it function as a complete tree.

Mentor Graphics applications support an optional set of variables to control different aspects of your access to the Mentor Graphics Documentation System. These variables are stored in the *mgc_doc_options.ini* file at the top of the documentation tree and are used to control the alternate location of the documentation tree, the default HTML browser, and the default PDF viewer. For example, you can copy the documentation tree from your software tree to a webserver, internal to your company's network.

Refer to “Setting Your Documentation Location and Browser” in the *Mentor Graphics Documentation System* manual for more information on these variables. The manual is available on SupportNet and in the InfoHub.

Additionally, prior to installing the documentation, you can access information relating to documentation browser requirements and documentation options from SupportNet:

http://supportnet.mentor.com/sysadmin/browser_requirements.cfm

http://supportnet.mentor.com/sysadmin/environment_variables.cfm

Getting Technical Support

If you have questions about this software release, please log in to SupportNet. You can search thousands of technical solutions, view documentation, or open a Service Request online at:

<http://supportnet.mentor.com/>

If your site is under current support and you do not have a SupportNet login, you can easily register for SupportNet by filling out the short form at:

<http://supportnet.mentor.com/user/register.cfm>

All customer support contact information can be found on our web site at:

<http://supportnet.mentor.com/contacts/supportcenters/>