







































































































































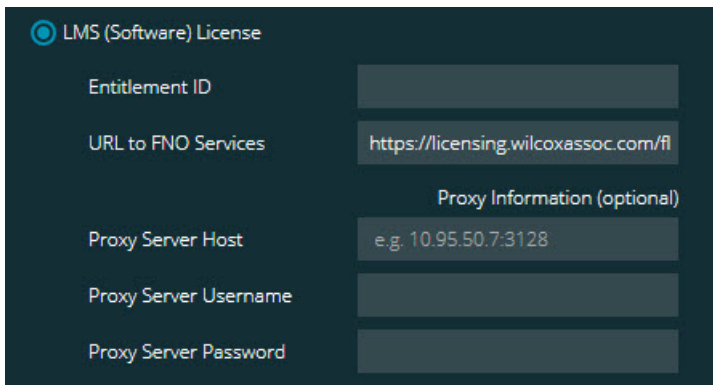




- Set up your LMS (software) license
- Connect to an LMS license server
- Update your LMS license
- Provide licensing information to the installer from the command line

## LMS (Software) License

If you chose **LMS (Software) License** on the [licensing screen \[61\]](#), and the installation cannot find a valid license on your system, you need to complete these options:



### LMS (Software) License option

1. Complete the options:
  - **Entitlement ID** - If you have an Entitlement ID, type or paste the ID you were issued in the box. If you have supplied this value in a previous installation, the installer pulls in that value from the registry.
  - **URL to FNO Services** - This points to the URL that verifies your license. Ensure that it has this URL:  
`https://licensing.wilcoxassoc.com/flexnet/services`
  - **Proxy information** - If your computer is on a network where you need a proxy server to reach the Internet, contact your IT specialist to get this information. Enter the server host, user name, and password.
2. If you do not have an Entitlement ID and you need to activate your license offline, use the CLM Admin application. From the CLM Admin application, choose **Activate new licenses**, and follow the on-screen instructions.



### NOTE

For information on how to use the CLM Admin application, consult the Hexagon Client License Manager (CLM) Software documentation. You can find this in the subfolder for your language (such as the **en** directory for English).

- Click **Next**. The installation software connects to the Internet and activates your license. It then installs the FLEXnet Licensing Service required to use LMS licenses.

## LMS License Server



### LMS License Server option

If you use a license server, select this item, and then type your license server name in the **License Server(s)** box. The format of this line of text is *port number@server name*, where *port number* is the TCP port number for the license server, and *server name* is the name of the server.

The default TCP port number is 27000. If you don't identify a specific port, the license server uses the default. For example, these mean the same thing:

@server1

27000@server1



### IMPORTANT

If you use this option, place the "@" symbol in front of the server address. If the "@" symbol is left off, the installation process attempts to look locally for the license. This may result in an error.

You can also specify multiple license servers. You can separate them with semicolons. For example, suppose that you have three license servers called licenseserver1, licenseserver2, and licenseserver3, and all of them use the default TCP port. You can specify all of them in a single line of text, like this:

@licenseserver1;@licenseserver2;@licenseserver3

## Updating Your LMS License

Once you finish with the license setup and install PC-DMIS 2021.2, it checks for license updates when it starts and after every eight hours of running. If a license update is available, this notification appears:

### PC-DMIS

Updates are available for your PC-DMIS license. Applying them now will require PC-DMIS to restart. Would you like to apply the updates now?



To apply the update, click **Yes**. If you click **No**, PC-DMIS 2021.2 displays the message every eight hours of running or the next time it runs.

- If an option or a feature is added, you are given the choice to apply the changes. A pop-up message displays in the system tray if you apply the changes.
- If an option or feature is removed, a message that requests you to restart PC-DMIS 2021.2 appears. A pop-up message also appears in the system tray to inform you of this.
- If an option or feature is obsolete, it is automatically removed.



#### **NOTE**

After you apply an update, restart PC-DMIS to ensure that it functions properly.

## **Providing LMS Licensing Information to the Installer from the Command Line**

You can send LMS licensing information to the installer through command line parameters. For more information, see "[Providing LMS Licensing Information to the Installer from the Command Line \[79\]](#)" in Appendix A.

## **Administrator Privileges Explained**

Software versions earlier than version 2012 require that you run the software as an administrator because some system settings (such as the last probe used, wrist angles, and other items) were shared among all users on that computer. This required that these settings were placed in the LOCAL\_MACHINE section of the Windows registry instead of in the CURRENT\_USER section (for user-specific settings). Making changes to settings in the LOCAL\_MACHINE section requires administrator privileges.

In PC-DMIS version 2012 and later, the settings mechanism used by PC-DMIS changed to only require administrator access the very first time it runs at the end of the installation. From that point forward, standard user access is sufficient.

The PC-DMIS installer has a flag that is built into the setup executable file (Pcdmis2021.2\_release\_###.#.###.#\_x64.exe) that requires the setup process to run with administrator privileges. If the current user has lesser privileges, the setup program displays a prompt to provide a user name and password of an account with administrator privileges.

Once the installation finishes, the first time you run PC-DMIS 2021.2, you must launch it with administrator privileges. If you mark the [Launch PC-DMIS 2021.2 64-bit check box](#) when the installation finishes, PC-DMIS 2021.2 does this automatically, bypassing the original privilege level of the installer onto PC-DMIS.

Note, however, that if you do not mark this check box, you will need to explicitly right-click on the shortcut and select **Run as administrator** as described in [step 6](#).

For more information on the file system and registry rights that PC-DMIS 2021.2 requires, see "[Required User Access Rights \[80\]](#)" in Appendix B.

## Step 5: Copy Files after Installation

If these files are available, copy them from your old PC-DMIS installation directory to the directory where you installed the newer version:

- Sysparam.dat
- Downl.oad
- Fzyfile.txt
- Rcxfile.txt
- Rmxfile.txt

Starting with PC-DMIS 2010 MR2, PC-DMIS automatically copies common system files to the program data files directory when you install a newer version of PC-DMIS.

The comp.dat, compgrid.at, comp.enc, and compens.dat volcomp files used with volcomp methods 13 (ASI) and 14 (BNS) must be in the program data files directory. When you install a newer version of PC-DMIS, these files automatically copy to the program data files directory for the new version. For the default path location of this directory, see "Understanding File Locations" in the PC-DMIS Core documentation.

For additional information on volumetric compensation files and setup, see the Machine Interface Installation Manual (MIIM).

## Copying Machine Files for an Xcel CMM or a Sharpe Controller

If you are using a Brown and Sharpe Xcel CMM or a CMM that uses a Sharpe controller, and you installed PC-DMIS2021.2 on a new computer, copy the backed-up CMM machine files to the following location on the new computer:

C:\Program Files\Hexagon\PC-DMIS *version*

For more information about these files, see "[Backing Up Machine Files for an Xcel CMM or a Sharpe Controller \[60\]](#)".

## Copying Machine Files for a DEA CMM with a DEA Controller

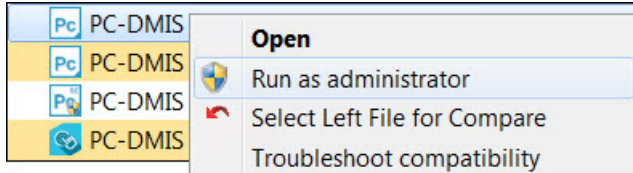
If you are using a DEA CMM with a DEA machine controller, and you installed PC-DMIS 2021.2 on a new computer, copy the backed-up CMM machine files to the following location on the new computer:

C:\Program Files\Hexagon\PC-DMIS *version*

For more information about these files, see "[Backing Up Machine Files for a DEA CMM with a DEA Controller \[60\]](#)".

## Step 6: Launch the Software for the First Time

1. When you run PC-DMIS 2021.2 for the first time, go to **Start** and type **PC-DMIS 2021.2 64-bit**.
2. From the list of shortcuts in the **Start** menu, right-click on either the **Online** or **Offline** icon, and then select the **Run as administrator** option (required only if the **Launch PC-DMIS** check box wasn't checked at the end of the installation).



Run as administrator option

The **Run as administrator** option allows the program to write the needed machine-specific settings.

3. You can import settings from a previous version.  
If your previous version used the pcdlrm.ini file, PC-DMIS 2021.2 asks if the settings in your PCDLRN.INI file should be used as your registry settings. Click **Yes** at the prompt. Otherwise, PC-DMIS 2021.2 loads in the factory defaults.  
If your previous version used the Settings Editor, follow these steps to use your previous software settings:
  - a. Close PC-DMIS 2021.2.
  - b. Launch the PC-DMIS Settings Editor from the **Start** menu.
  - c. Once it opens, click **Import**, and open the PCDRegFile.dat file you backed up in [thStep 3: Back Up Existing Settings \[58\]](#). PC-DMIS 2021.2 imports your settings.
  - d. Close the PC-DMIS Settings Editor.

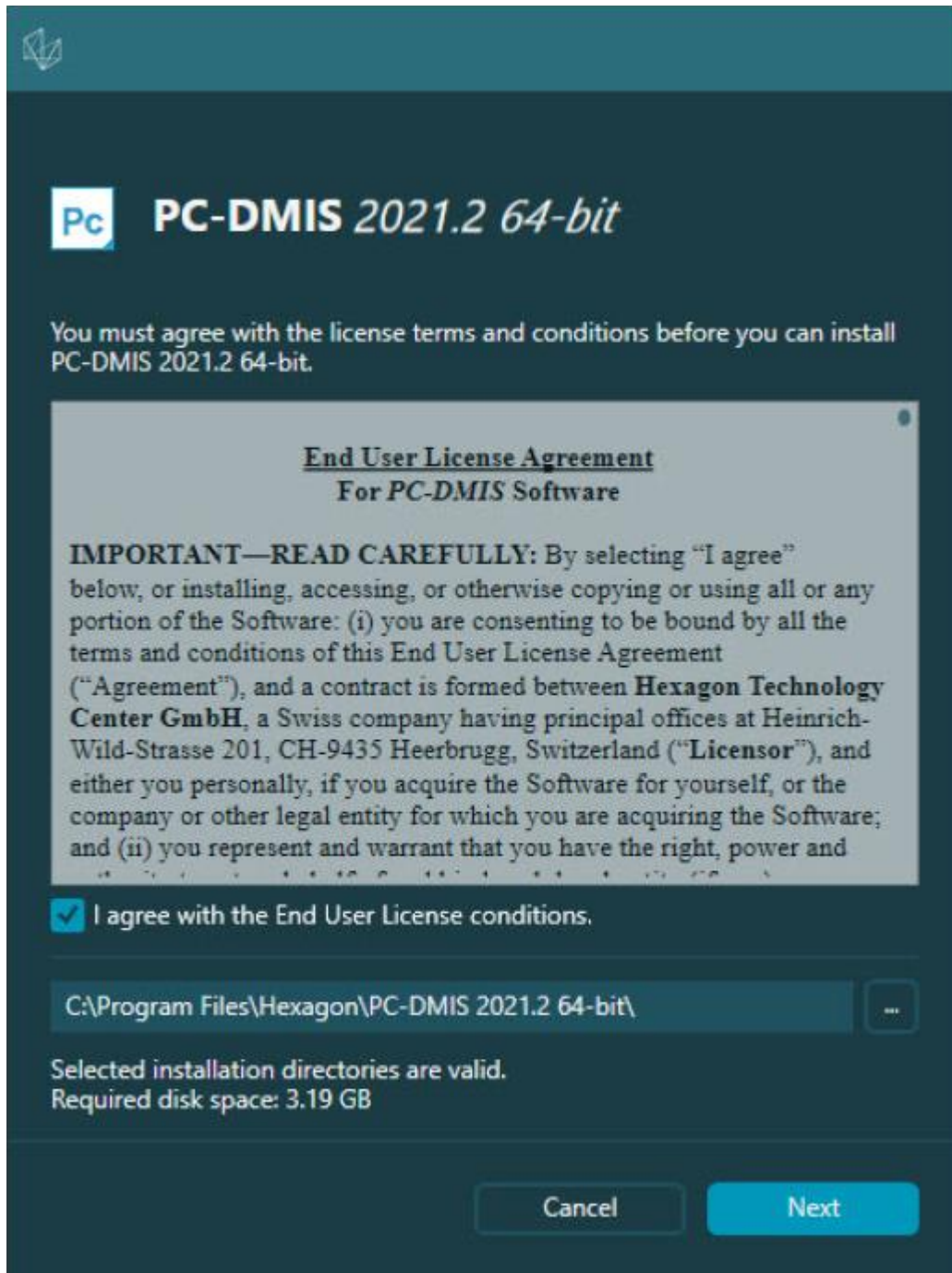
## Subsequent Startups

For subsequent startups, click the usual **Offline** or **Online** shortcut to launch PC-DMIS 2021.2 normally :



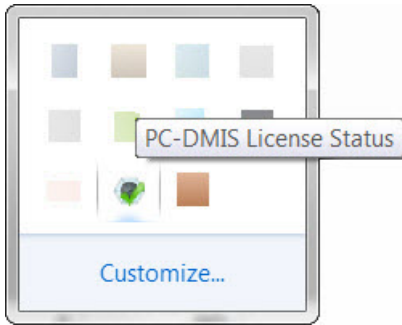
PC-DMIS 2021.2 shortcuts

Once PC-DMIS 2021.2 starts, the **Software License** screen displays the current license agreement. Read the agreement carefully and then at the bottom, click **I agree with the License terms and conditions** to proceed:



### Software License screen

Once PC-DMIS 2021.2 runs, an icon displays in your system tray. If your portlock or LMS license is programmed correctly, the icon displays a green check mark as shown below:



### Message for valid PC-DMIS license

If your portlock is not connected or is not programmed correctly, or if you are using an LMS license and your software has not been properly licensed, the icon appears with a red exclamation point overlay. A pop-up message says that the license is disconnected:



### Message for disconnected PC-DMIS license

If the license is disconnected, PC-DMIS 2021.2 functions normally, but after 5 minutes, it automatically closes. Be sure to save your data immediately before this occurs.

## Note About CMMs Using RS-232 Communications

By default, PC-DMIS 2021.2 communicates through the COM1 communications port. You need to change this port number to the number that Windows automatically created if a serial-to-USB adapter cable or serial adapter card was installed for communicating with an older RS-232 CMM.

To change the COM port number, follow these steps:

1. In Windows Device Manager, note the number that Windows assigned to the communications port on your computer. For help, refer to Windows Help.
2. Open PC-DMIS in Online mode, and then open or create a measurement routine.
3. Select **Edit | Preferences | Machine Interface Setup**.
4. In the **Comm port** box, enter the port number from Windows Device Manager.

## Command Line Installation

You can install PC-DMIS from the command line instead of double-clicking on the PC-DMIS installation executable. In addition, you can turn various command line arguments on or off to speed up the installation process.

This topic lists the supported command line arguments.



### NOTE

Command line arguments are case sensitive.

## User Interface Parameters

**-q, -quiet, -s, -silent** - Installs without any user interaction

**-passive** - Does a progress-bar-only install

## Installation Commands

**-uninstall** - Removes the application from the computer

**-repair** - Repairs (or installs if not installed) the application

**-package, -update** - Install (default)

**-layout** - Creates a local/admin image

**HEIP** - This parameter sets the Opt-in option for the Hexagon Customer Experience Improvement Program. This provides analytics for PC-DMIS to help us improve the application. By default, this option is on ( **HEIP=1** ). Set this parameter to 0 (zero) to turn this option off.

**USELMSLICENSING** - When this parameter is turned on ( **USELMSLICENSING=1** ), PC-DMIS checks for an LMS license. Set this parameter to 0 (zero) to turn this option off.

**INSTALLPDFCONVERTER** - When this parameter is turned on ( **INSTALLPDFCONVERTER=1** ), the PC-DMIS installation installs the PDF Converter. By default, this option is turned on. Set this parameter to 0 (zero) to turn this option off.

**INSTALLOFFLINEHELP** - When this parameter is turned on ( **INSTALLOFFLINEHELP=1** ), the PC-DMIS installation installs the offline English help system. By default, this option is turned on. Set this parameter to 0 (zero) to turn this option off.

## Restart Handling

**-norestart** - Suppresses any restarts

**-promptrestart** - Prompts if a restart is required (default)

## Logging

**-l, -log** - Creates an installation log to a specific file (default TempFolder)

**-logtoconsole** - Logs installation information to the console, if started from the console

## Help

**-?** - Shows the **Supported command line arguments** information screen

## Additional Parameters

**INSTALLDIR** - Specifies the installation folder for the PC-DMIS application. The default location is "C:\Program Files\Hexagon\PC-DMIS <version>", where <version> is the PC-DMIS install version.

**SQLCONNECTIONSTRING** - Defines the connection string if required by the application

**LICENSESTRING** - Defines the license string if required by the application

**LMSENTITLEMENTID=<EID>** - This parameter specifies the LMS Entitlement ID (EID) for your LMS license. Replace "<EID>" with your actual Entitlement ID. For example: **LMSENTITLEMENTID=99999-12345-67890-12345-67890**

**LMSURLTOFNOSERVICES=<FNO server address>** - This parameter defines the URL address to the LMS FNO server. Replace "<FNO server address>" with the actual URL to the LMS server. For example: **LMSURLTOFNOSERVICES=https://licensing.wilcoxassoc.com/flexnet/services**

**LMSPROXYHOST=<{\proxyhostname}>** - This parameter defines the name of the proxy host server. Replace <{\ProxyHostName}> with the name of the proxy host server. For example: **LMSPROXYHOST={fnoserver}**

**LMSPROXYUSERNAME=<{\proxyhostusername}>** - This parameter defines the user name of the proxy server. Replace <{\proxyhostusername}> with the user name of the proxy server. For example: **LMSPROXYUSERNAME={jrjones}**

**LMSPROXYPASSWORD=<{\proxyhostpassword}>** - This parameter defines the password for the proxy server. Replace <{\proxyhostpassword}> with the password for the proxy server. For example: **LMSPROXYPASSWORD={AS4BGxpZyu}**

**LMSLICENSESERVERS (@{\ipaddress})** – This parameter defines a comma-separated list of the LMS license servers.

**LICENSETYPE** - This parameter specifies the license type. The options are HASP, LMSEntitlement, or LMSServer. For example: **LICENSETYPE=LMSEntitlement** .

The correct usage for the additional parameters is:

**PARAMETER=value**

## Unattended Installation Example

To perform a fully-unattended installation into a directory named **C:\PCDMISW\**, use the following command line argument:

```
Pcdmis<installer information>.exe -q INSTALLDIR="C:\PCDMISW"
```

Where <installer information> is the PC-DMIS version and build numbers of the .exe file that you are installing.

## Network Connections

This section describes network access details for some Hexagon products.

### Firmware Distributed Controller (FDC) Connection

PC-DMIS uses these parameters to establish its connection with FDC:

- Controller address - 100.0.0.1
- PC-DMIS computer address - 100.0.0.2
- Subnet mask - 255.255.255.0
- Port - 1234

### LMS Licensing

You can find the license verification server and the ClmAdmin utility for node-locked licenses here:

<https://licensing.wilcoxassoc.com/flexnet/services>

The Floating License server with Flexnet LmAdmin64 uses ports 27000-27009 on the server. Imgrd and lmadmin listen on TCP port 27000 by default. Communication must be allowed from the client computer to the network license server on this port (or another port if the network license administrator has changed the default). Communication is transitioned from Imgrd / lmadmin to the vendor daemon after the initial connection is made. By default, this is done on a random TCP port. Unless your firewall has built-in support to recognize the randomly chosen port, you need to manually specify a port for the vendor daemon.

The LocalHost server on port 8090 and older versions defaults to port 8080. You can define these ports when you install license server or through the server interface. These are only Offline licenses when you are not connected to a machine.



## Offline Help

If you select to install Offline Help when you update the software, it opens the second remote address on port 443. This port verifies the license.

## Hexagon Universal Updater

Servers - <http://webupdater.hexagonmi.com/v2> (catalogs and configurations) and <http://webupdater.hexagonmi.com/Management> (SignalR)

Port - 80 and 8089 (SignalR)

## CrashSender1403.exe

This executable is for the PC-DMIS Crash Report Utility tool. If you run this executable with the /nocrashdump switch, the Event Viewer screen takes over the crash report functionality.

C:\Program Files\Hexagon\PC-DMIS 2021.2 64-bit\Launcher\HexagonLauncher.exe


LauncherPC-DMIS.config /nocrashdump

## Other Products

A few Hexagon products need to establish remote connections which enables them to send emails and text alerts. These products include Pulse, Notification Center/Message Lights, and SMART Factory.

## Updating the Software

The Hexagon Universal Updater application automatically checks for software updates if your computer is connected to the Internet. This application is installed with PC-DMIS and Inspect. If the updater detects that an update is available, the updater uses the Windows notification area to the right of your clock on your taskbar to inform you of the update. You can then click on a notification to open the updater to download and install that update.

If the updater is running, a small icon for the updater appears in your taskbar's Notifications area (). You can click this icon to open the updater.

If the updater is not running, you can manually run the updater to check for updates. You can also use the updater to launch software or install new software applications. To run the updater, from the **Start** menu, type **Universal Updater**, and select the shortcut for the updater.

If you need additional help with the updater, you can access the help content available from within the updater itself.



### IMPORTANT

During the download and installation processes, your firewall must allow the <http://www.wilcoxassoc.com/WebUpdater> Internet address. In addition, you must have Administrator privileges to install the software update.

For information on the installation process, follow the installation steps described in the topics above. Once the installation process finishes, you can use the latest version.

When you update PC-DMIS from the Universal Updater, the software opens the **Associated Products** dialog box. The software displays a list of the required and recommended products.

### Required

**HxGN SFX | Connector** - This software connects your assets to your SFX account. It also monitors your assets and sends data to your SFX account.

### Recommended

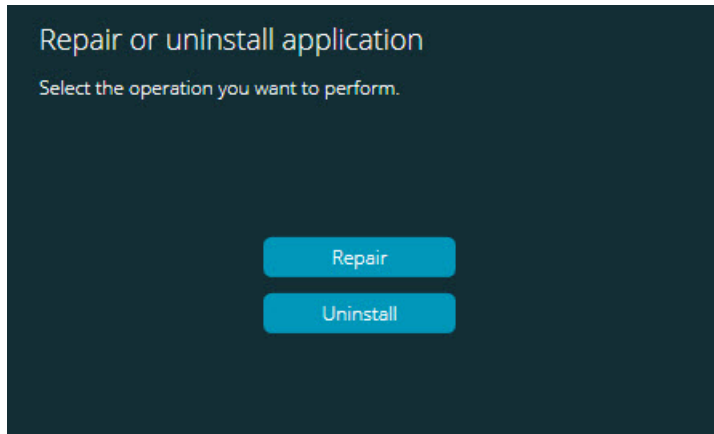
**Inspect** - This software provides a simplified operator interface for operators to execute measurement routines from supported products and then generate reports.

**Notification Center** - This software sends notifications from a client application (such as PC-DMIS) to a measurement device (such as a CMM) during certain events (such as when the machine has an error).

For information on evaluation versions and changing HASP to LMS, see "Updating the Software" in the PC-DMIS Core documentation.

## Repairing or Removing an Installation

You can also repair or remove an installation once you install it. To do this, double-click the Pcdmis2021.2\_release\_###.#.###.#\_x64.exe file as if you were beginning the installation process. The setup displays a screen with these options:



"Repair or uninstall application" dialog box

- **Repair** - This option reinstalls all of the product files as they were originally installed. This option may help resolve issues where an installation didn't properly install all of the files.
- **Uninstall** - This option removes the application from where you installed it. You can also use the **Apps and features** screen or the **Programs and Features** control panel item in Control Panel to uninstall the application.

## Running the Software in Another Language

The initial installation setup file for PC-DMIS 2021.2 contains the user-interface files for all of the supported languages. When you install PC-DMIS 2021.2, it installs the language files based on your operating system's language.

To run PC-DMIS 2021.2 in a language other than the operating system's language, select **File | Language**, and then click the desired language. PC-DMIS shows a message that says the application will be shut down and restarted. Click **Yes** to continue. PC-DMIS 2021.2 immediately closes and then reopens in the selected language.

To get the help content available in a non-English language, see "[Installing Non-English Offline Help Files from Language Packs \[76\]](#)".

## Installing Non-English Offline Help Files from Language Packs

This topic only applies to users who don't have Internet access.

- With Internet access, the online Help for PC-DMIS 2021.2 is already available from a public web server in all supported languages. The Help opens in your browser whenever you access it.
- Without Internet access, PC-DMIS 2021.2 uses the Help where you installed the offline Help for your version.

With the main installation file, you can install the offline Help in English. However, non-English offline Help files are not included in the main installation file. This means if you intent to use a non-English language, and you don't have Internet access, in order to see any Help content, you *must* also install a language pack for that language.

A language pack contains all of the offline Help content for that language.

To install a language pack, follow these steps:

1. Locate the desired language pack (and .exe file) on your installation media or download it from the Internet here:  
<https://downloads.ms.hexagonmi.com/PC-DMIS-Versions/Release/2021.2/Release/x64/Lang>
2. Run the .exe file and follow the setup instructions. You do not need to have administrator access to do this step.

This procedure installs the Help content into the folder where you installed the offline Help for your version.

You can then switch to that language in the software and access the Help content as expected.

## Troubleshooting

This topic provides information for you to troubleshoot installation, startup, and software update problems.

### Startup is Slow

**Problem:** You use a computer with at least the recommended system requirements as detailed in the "[Recommended System Requirements \[53\]](#)" topic, and it takes longer than 30 seconds to launch the software.

**Description:** This happens if you try to run PC-DMIS, but you didn't mark the **Launch PC-DMIS 2021.2 64-bit** check box on the installation wizard. This results in a problem loading the HASP driver. Note that this problem only occurs when you install with a HASP license type, as discussed in "[Step 4: Install the Software \[61\]](#)".

**Solution:** Uninstall PC-DMIS and then reinstall it. To reinstall it, right-click on the installation file and choose **Run as administrator**.

## Setting Up the Network to Send Crash Reports

**Problem:** PC-DMIS 2021.2 cannot automatically send crash reports to Hexagon Manufacturing Intelligence even when your software configuration does not use the / **nocrashdump** switch. (This switch disables crash reports in PC-DMIS 2021.2.)

**Description:** A firewall on your computer may be blocking the Hexagon Universal Updater application from connecting to the server. If PC-DMIS 2021.2 crashes, it uses a PHP script over HTTP to send the crash report. If this fails, it then tries to send the report to [crashreport@wilcoxassoc.com](mailto:crashreport@wilcoxassoc.com). It tries using the standard SMTP email protocol. If that fails, it tries to send the email through MAPI.

**Solution:** The crash report system needs to be able to use port 80 to get out to the server, <http://www.wilcoxassoc.com/>.

## Installing on top of an Existing Version Results in Unexpected Behavior

**Problem:** You installed on top of an existing version of the software, and now the software does not behave normally. Potential symptoms include:

- After you start up the software, you get a "Procedure Entry Point" error.
- When you select **Help | About**, it does not show the new build number.
- Reported bug fixes do not seem to be fixed, and PCDLRN.EXE does not have a newer date and time than the original release.

**Description:** Something did not install properly on top of the existing version.

**Solution:** Use **Apps & Features** or Control Panel to completely uninstall the existing version and then reinstall the version you're trying to install.

## Running the Legacy DPUPDATE.EXE Does Not Work

**Problem:** The legacy DPUPDATE.EXE does not run.

**Description:** If you run PC-DMIS 2021.2 without administrator privileges, DPUPDATE.EXE does not work.

**Solution:** Run PC-DMIS 2021.2 with administrator privileges.

## Contact Hexagon Manufacturing Intelligence

If you are participating in the *technical preview* of PC-DMIS 2021.2, please post your feedback in the appropriate technical preview forum located at [www.pcdmisforum.com/forum.php](http://www.pcdmisforum.com/forum.php). Please do not contact Hexagon Technical Support for technical previews.

If you are using the *commercially-released version* of PC-DMIS 2021.2 and would like further information or technical support, please contact [hexagonmi.com/contact-us](http://hexagonmi.com/contact-us) or visit [hexagonmi.com/products/software](http://hexagonmi.com/products/software). You can also reach Hexagon Technical Support at [support.hexagonmi.com](http://support.hexagonmi.com) or by calling (1) (800) 343-7933.

## Appendix A

### Providing LMS Licensing Information to the Installer from the Command Line

You can send LMS licensing information to the installer by using the command line:

- If the installer is running in silent mode (**-q**) or basic silent mode (**-passive**), and the correct information is provided, everything runs without user interaction. The command switch **-q** displays the progress bar and handles installer errors. The **-passive** switch hides the user interface.
- If the installer is not running in silent mode, the information provided is used to populate the LMS activation form and skip the [license screen \[61\]](#).
- You can provide the **-?** to review additional command line arguments.

Descriptions of the parameters follow, along with examples.

#### Descriptions

**USELMSLICENSING=1** - This flag is useful only if the system already has an LMS license that the user is using. It allows silent mode to work without having to prompt the user for a license choice. If the installer is not running in silent mode, it still allows the install process to skip the license type selection dialog (thus saving some time).

**LMSENTITLEMENTID=entitlement id** - This parameter and value are useful on a new system where no LMS license was previously installed. It indicates that you want LMS licensing and provides an Entitlement ID to try and activate. When this value is specified, there is no need to specify **USELMSLICENSING**.

**LMSLICENSESERVERS="server1,server2..."** - This parameter is used on systems that communicate with a license server. It also allows the license type selection dialog box to be skipped and the installation to be done silently.

**LMSPROXYHOST="proxyhostaddress"** - This optional parameter gives the address of a proxy host. In silent mode, it is used directly in activation. In non-silent mode, it populates the activation form with this value.

**LMSPROXYUSERNAME="user name"** - This parameter is another optional parameter for the proxy user name. It behaves in the same manner as **LMSPROXYHOST**.

**LMSPROXYPASSWORD="unencrypted password"** - This parameter is another optional parameter for the proxy password. It behaves in the same manner as **LMSPROXYHOST**.

**LMSURLTOFNOSERVICES=URL to FNO server** - This parameter is mostly for internal development. The default URL is to the production server. The new value can be used to override the default value and point to the development server.

## Examples

On a brand-new system with a node-locked Entitlement ID, the following line installs PC-DMIS 2021.2 in silent mode:

**-q LMSENTITLEMENTID=99999-88888-77777-66666-55555**

On a system that already has a license, the following line installs PC-DMIS 2021.2 in silent mode:

**-passive USELMSLICENSING=1**

On a brand-new system using license servers, the following line installs PC-DMIS 2021.2 in silent mode:

**-passive LMSLICENSESERVERS="123.12.134.42"**

On a brand-new system with no license, the following line skips the license type selection dialog box and populates the activation form:

**LMSENTITLEMENTID=99999-88888-77777-66666-55555  
LMSPROXYHOST="123.123.123.123" LMSPROXYUSERNAME="bob"  
LMSPROXYPASSWORD="marley"**

## Appendix B

### Required User Access Rights

PC-DMIS 2021.2 requires read, write, and create access to the locations defined below in the file system and registry.

### File System

Windows 10, Windows 8, Windows 7, and Windows Vista:

- C:\ProgramData\Hexagon\PC-DMIS\2021.2
- C:\Users\Public\Documents\Hexagon\PC-DMIS\2021.2
- C:\Users\UserName\AppData\Local\Hexagon\PC-DMIS\2021.2
- Any user-specified folder locations for storing measurement routines, probes, subroutines, and so on

### Registry

All of these versions have their own registry settings, which are stored in a version-specific registry key. The items shown below are for version 2021.2.

- HKEY\_LOCAL\_MACHINE\SOFTWARE\Wow6432Node\Hexagon\PC-DMIS\2021.2  
Key and all sub keys
- HKEY\_CURRENT\_USER\Software\Hexagon\PC-DMIS\2021.2 and all sub keys



- HKEY\_USERS\DEFAULT\Software\Hexagon\PC-DMIS\2021.2 and all sub keys

## Notes

The first time you run a new version, PC-DMIS automatically copies the settings from the most recent version of PC-DMIS that is installed. For this to work, PC-DMIS needs to run with administrator privileges the first time you run it. During the installation, if you select the **Launch PC-DMIS** check box in the setup wizard, it runs PC-DMIS as an administrator and completes this first step.

This initial migration automatically sets read, write, and create permissions on the registry for the relevant keys.

If you are using fixturing or laser sensors, the following registry keys are stored back one level:

- HKEY\_LOCAL\_MACHINE\SOFTWARE\Hexagon\FxtServer
- HKEY\_LOCAL\_MACHINE\SOFTWARE\Hexagon\PC-DMIS\NCSSENSORSETTINGS

It may be easier to just apply create/read/write privileges to the HKEY\_LOCAL\_MACHINE\SOFTWARE\Hexagon\ key and all sub keys to cover these also.

## Appendix C

### First-Time Installation with Flexible Fixturing

To be compliant with the permission rules for PC-DMIS products, files associated with fixturing are now located in this folder:

C:\Program Files\Hexagon\PC-DMIS 2021.2 64-bit\Models\QuickFix

This allows access to the files without needing administrator privileges on the computer running PC-DMIS. To accomplish this, the following steps are required when you install PC-DMIS for the first time:

1. The first time you install PC-DMIS and FxtServerInterface, run the FxtServerInterface installation program for the first time with administrator privileges (as is required for the PC-DMIS installation).
2. When you run FxtServerInterface, a message states that the system will migrate all of your data files to the "FIVEUNIQUE" Documents folder described above.
  - If you choose **Yes**, the files are moved, and the original folder is deleted.
  - If you choose **No**, the files are copied, but the original folder is kept.

Once this is done, the files are moved (or copied), and you are able to run FxtServerInterface.exe without administrator privileges.