PC-DMIS 2025.2

Release Notes

Hexagon Manufacturing Intelligence

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CAD

- You can now see that PC-DMIS imports large CAD models faster. See PCD-278307.

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- PC-DMIS now reads double values that use a comma as the decimal separator. See PCD-276329.
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Application Errors

You no longer get application errors:

- When the UCC Server returns a ChangeTool command. See PCD-277921.
- When you convert Calypso measurement plans. See PCD-277340.
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GD&T Dimensions

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Installation

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Laser (CMM)

- You can now see that the Service Tool application for the HP-L-10.10 launches without issues. See PCD-275321.

What's New

Updates for PC-DMIS Inspect

- You can now add an empty cell to the pallet instead of a measurement routine. To do this, on the **Pallet Execution Options** screen, select the blank option from the drop-down list of the desired cell.
- You can now edit a pallet playlist during execution. This means that you can now change the measurement routines for cells that have not yet been executed.
- You can now manage access to settings that require administrator privileges for non-administrator users from the **User Access Settings** screen.
- You can now add users or groups to the PC-DMIS-Programmer group. This grants full administrator access in Inspect without requiring the user to be a system administrator.
- You can now add a prefix to the Counter type trace field in the **Trace Fields** tab of the **Playlist** dialog box.

See Updates for PC-DMIS Inspect.

Calypso Converter

You can now convert Zeiss Calypso measurement programs into a format that you can import into PC-DMIS.

See Calypso Converter.

Metrology Reporting Update

Metrology Reporting now provides centralized reporting functionality that is simple to use, offers intelligent insight, includes basic statistical calculations, and is accessible on any device at any time.

Metrology Reporting now includes:

- Critical alerts in the event log
- A free Advanced level trial that can be launched from within the app

- A global settings button to apply the preferred report type across the organization and add the company logo across all parts
- Improvements to form plot reports

See Metrology Reporting Update.

Freeform Scan with Fixed Nominals

You can now select **FIXED** from the **Nominals Method** list in the **Execution** tab of the **Freeform Scan** dialog box to obtain measured values at specific, fixed nominal positions on a 3D curve. You can also see that this option uses a GD&T 3D compensation method to precisely calculate the measured values. This enhancement is ideal if you need to evaluate the deviation at specific, critical points on a curve.

See Freeform Scan with Fixed Nominals.

Quick Feature and MSE Improvements

- You can now select **Inner Only**, **Outer Only**, and **Inner And Outer** from the **Perimeter Boundary Type** list in the **Measurement Strategy Editor** dialog box when you use the Adaptive Free Form Plane Scan and Touch Trigger Free Form Plane strategy. This enables you to create two paths at the same time.
- You can now see the **Smart Parameter** grid button for the **Inner offset** and **Outer Offset options** in the **Measurement Strategy Editor** dialog box when you use the Adaptive Free Form Plane Scan and Touch Trigger Free Form Plane strategy. You can use this grid button to enable or disable the associated smart parameters. You can also define the values for **Inner Offset** and **Outer Offset** separately.
- You can now see the **Smart Parameter** grid button for the **Perimeter Offset** and **Perimeter Jump Hole** options in the **Measurement Strategy Editor** dialog box when you use the Auto Feature Plane Scan strategy. You can use this grid button to turn the associated Smart Parameters on or off.

See Quick Feature and MSE Improvements.

Other Improvements

4-Axis Scanning Improvements

- You can now perform continuous 4-axis scanning operations with PC-DMIS on CMMs equipped with a rotary table, including simultaneous measurements across all axes. The rotary table provides complete workpiece access, enabling the quick scanning of intricate parts with fewer probe adjustments and improved throughput.

  PC-DMIS now supports:

  - Measuring more complex parts such as blades and blisks
  - Improved measurement efficiency
  - Defining the rotary table angle in the scan path
  - 4-axis auto move for scanning
  - The 4-axis Move Point command
  - The 4-axis Move All command

ATS800 Tracker Support Improvements

- You can now use the **Move Point** dialog box (**Operation** | **Move To**) to define and execute a positional move. You can perform the move as a one-off instant operation or add it to the measurement routine as a Move Point command.
- You can now right-click a feature label or a CAD surface (provided a CAD model has been imported and the part has been aligned to it) in the Graphic Display window and select the **Move To** option to point the tracker to the clicked location.
- You can now use the **Operation** | **Graphic Display Window** | **Graphic Items** | **Show Probe** menu option or click the **Show Probe** button from the **Graphic Items** or **Quick-Measure** toolbar to show or hide a graphical representation of the laser line or reflector in the PC-DMIS Graphic Display window. This helps to determine whether the tracker has sufficient line of sight to measure surfaces or features.

Documentation

- PC-DMIS Release Notes is now updated with the information that HP-L sensors are compatible with the Windows 11 operating system.

Fast Focus Features for OPTIV Cameras

- PC-DMIS now includes a refined auto-focus approach that delivers consistent results in less time. The focus process refreshes only a small Region of Interest (ROI), enabling a much faster frame rate. PC-DMIS also uses a signal from the DC controller at equal distance steps to trigger image capture for more stable data.

Scan with Avoidance Move

- You can now select **None**, **Both**, **Before**, or **After** from the Type list and **Along Boundary Points Vector**, **Along Tip Vector**, or **Along Cut Vector** from the Approach Path list in the **Avoidance Move** area of the **Execution** tab in the **Scan** dialog box to define the type and direction of the avoidance move.

  This enhancement lets you measure a scan by moving to a safe point, performing the scan, and then returning to a safe point before measuring the next feature. It also integrates scans more easily with ClearanceCube functionality to improve safety and workflow efficiency.

Teamcenter Improvements

- You can now use the **Part Number** search box in the **Teamcenter Open** dialog box to search for part numbers or item IDs in the Teamcenter database.

- You can now use the **Back** button in the **Teamcenter** dialog box to return to the search results after you open a model, improving navigation flow.

- You can now use the CadImportLock entry to determine whether PC-DMIS allows the import of CAD models from local or network server locations when connected to Teamcenter. If you set this to **TRUE**, PC-DMIS allows you to import CAD models only from the Teamcenter database. If you set this to **FALSE**, PC-DMIS allows you to import CAD models from the Teamcenter database or from local or network server locations.

- You can now see that NX is integrated into Teamcenter.

Updated CAD Support

- PC-DMIS now supports additional CAD formats through Direct CAD Interfaces (DCI) and Direct CAD Translators (DCT). This means you can now import more CAD formats into PC-

DMIS, providing greater flexibility.

What's Fixed

Application

- PC-DMIS now correctly estimates the execution time. See PCD-269426.
- You can now see that PC-DMIS assigns the current tip to scans that you create through automation. See PCD-270810.
- You can now see that the Scan Plot no longer becomes distorted when you hold down the right mouse button and drag the mouse. See PCD-271117.
- You can now see improved execution speed in Summary Mode and when you select the **Use Program Layout for Execution** check box in the **General** tab of the **Setup Options** dialog box. See PCD-271265.
- You can now use automation with NOMS Mode set to FIXED without mismatches, and you no longer encounter a find nom setting error. See PCD-271981.

Application Errors

You no longer get application errors:

- When you optimize the path. See PCD-269851.
- When you use very small offset and jump hole values to generate a path for the Adaptive Free Form Plane Scan strategy and the TTP Free Form Plane Scan strategy. See PCD-271561.
- When you connect PC-DMIS to a UCC server for the first time, even if you receive the unrecognized tool name string "UnDefTool". See PCD-273826.
- When you click **Create** in the **Size** dialog box after you reset the default dimension information from the **Edit Default Dimension Info** dialog box. See PCD-273898.
- When you use the **Optimize Path** dialog while the Edit window is in Summary Mode. See PCD-273922.
- When you use Auto Feature strategies in a loop. See PCD-274142.
- When you use incorrect vertices to create a mesh triangle. See PCD-275969.
- When you evaluate a pointcloud point colormap or scan a pointcloud. See PCD-276118.

- When you select the menu option **File** | **Partial Execution** | **Dynamic Inspection** with the **ESF (VWMP)** dialog box open. See PCD-274275.
- When you execute an absolute move command. See PCD-274629.

Auto Features (Scanning)

- You can now see the correct number of rings in the Graphic Display window when you use the Adaptive Plane Circle Scan strategy and you modify the **Rings** value in the **Path Definition** tab. See PCD-269341.
- You can now use the Smart Parameters option and define the offset values for the TTP Free Form Plane scan strategy using the **Measurement Strategy Editor** dialog box and the measurement strategy widget. See PCD-271617.
- PC-DMIS now resumes a movement command from the stop position when you stop and then continue its execution. See PCD-275237.

Basic Scripting

- You can now see that the filter parameters in a Basic scan are correctly set when you use automation. See PCD-274505.

Constructed Extracted Features

- You no longer see the Constrained Axis option in the Edit window command block for constructed Extracted features that do not support it. This option now only appears for Constructed Extracted Cylinders or Laser Auto Cylinders. See PCD-266657.
- PC-DMIS now hides the internal COP when you edit an individual feature within an ATS800 feature scan. See PCD-274232.
- You can now create or evaluate a constructed extracted surface even when the CAD model has been transformed. See PCD-275725.

Constructed Features

- PC-DMIS now shows the correct number sequence for the selected features in the Feature list area of the **Construct Plane** dialog box. See PCD-265563.
- PC-DMIS now displays a warning message if the creation of a Line, Point, or Ellipse feature fails. See PCD-271181.

- You now must select an axis when you create Constructed Extreme Point features. See PCD-272171.

- PC-DMIS now retains the specified surface vector values in the **Construct Line** dialog box when you create a Best Fit Recompensate (BFRE) Line feature. See PCD-274801.

Documentation

- The “Positive Reporting” topic in the PC-DMIS Core documentation has now been updated with additional example images to provide more clarity on how the functionality works. See PCD-267156.

- The “Deriving the Tolerance Feature” topic in the PC-DMIS Core documentation now has updated information on how sample points affect Auto Circle feature results when you use ISO Geometric Tolerance commands. See PCD-270120.

- The “Execution Area” topic in the PC-DMIS Core documentation now has information about the **Show offline animation speed slider** check box. See PCD-271377.

Dual Arm

- You can now use ESF (VWMP) Optical features with dual arms consistently with other features (for example, Laser Auto features). PC-DMIS now correctly creates Arm2 features according to the active arm, and when executed (for example, with Ctrl+E), it checks the active arm. If the active arm is not consistent with the arm assignment, PC-DMIS prompts you to switch the active arm, as with other features. See PCD-274190.

ESF (VWMP)

- You can no longer activate non-pertinent functionalities from the toolbars or menus while the **ESF (VWMP)** dialog box is open. See PCD-274280.

GD&T Dimensions

- PC-DMIS Dimension Info commands now handle each individual segment instead of always resetting to match the first segment's setting. See PCD-264007.

- PC-DMIS no longer displays the Upper and Lower Modifiers in the **Feature Control Frame** tab of the **Geometric Tolerance** dialog box when you select **Straightness of an axis** of a feature of size and apply an **ISO code** from the **Specification Mode** list. See PCD-267884.

- PC-DMIS now displays graphical tolerance lines for total runout in the correct location in the Graphic Display window. See PCD-268054.

- PC-DMIS now displays upper and lower size tolerances consistently for both Size and Geometric Tolerance commands. Equal values appear as ± ###.###, and differing values appear as + ###.### / - ###.###. See PCD-274260.
- PC-DMIS now correctly shows the Chebyshev (C) and Gaussian (G) ISO Associated Tolerance Feature Modifiers on the report when the considered feature is a cone. See PCD-274325.
- You can now see that the Geometric Tolerance Size report label correctly shows the selected size math type when the command has LSQ Size Math and an ISO Tolerance Code. See PCD-274339.

Graphical Analysis Window

- PC-DMIS now correctly displays the analysis view in the Graphical Analysis window when you create it from the Pointcloud Operator dialog box. See PCD-241556.

Laser (Portable)

- PC-DMIS now checks for the LaserInterface.All license option when you migrate portable environment files that do not include the All Laser Sensors option. If the license is present, PC-DMIS adds the All Laser Sensors option to the migrated file. You no longer need to run PC-DMIS as an administrator, edit the environment, and then select the **All Laser Sensors** check box in the **Hardware Settings** tab of the **Environment Configurator** dialog box. See PCD-268853.

Localization

- You can now see that the **Insert** | **Scan** | **Linear Closed** menu option has the correct access key ‘C’ in the German version of PC-DMIS. See PCD-270022.

Measurement Strategy Editor

- You can now see that the Measurement Strategy Editor no longer performs unexpected parameter conversions. See PCD-263915.

Moves

- You can now paste parameters in the Edit window without causing out-of-boundary exceptions. See PCD-274978.

Paste with Pattern

- PC-DMIS now shows the correct surface vector when you use Paste with Pattern for a Best Fit Line and Best Fit Recompensate Slot. See PCD-270856.

Scanning (Tactile)

- PC-DMIS now correctly executes the Linear Closed scan in 4-Axis Mode. See PCD-266101.

Summary Mode

- You can now see the feature scan items in the Edit window in Summary Mode. See PCD-272492.

Toolkit

- You can now type values into the input boxes in the **Roughness Scan**, **Constructed Roughness Scan**, **Scan Plot**, and **Blade Scan RT** dialog boxes. See PCD-267395.
- You can now generate a Plane feature from multiple circular paths. See PCD-272116.

Tracker

- You can now use features scanned by the ATS800 sensor in Geometric Tolerance commands. See PCD-272233.
- You can now use ATS800 feature scan commands only in the ATS800 environment. See PCD-272268.

Vision

- You can now see reduced execution time for Auto Vision features when multi-Capture is turned on. The process is about 4.5 times faster than the previous version. See PCD-271982.
- PC-DMIS no longer displays the “Camera None” error in Live View when you use a uEye Peak camera. See PCD-274571.
- PC-DMIS now correctly detects a feature when you use fast focus with Auto Mode. See PCD-275000.

Information about this Release

We at Hexagon Manufacturing Intelligence are proud to bring you PC-DMIS 2025.2. PC-DMIS brings together aspects of the software for the development of a complete manufacturing process control solution. With PC-DMIS, dimensional measurement data can flow through your organization, as it is collected from coordinate measuring machines (CMMs), portable measuring arms, and laser trackers.

The testing of this version has been significant. We'd like to take a moment to discuss this process and also make you aware of the various components of testing.

Testing consists of two parts. These can be described as functional testing and integration testing.

- The vast majority of testing effort goes on in the functional area. This is the testing that determines that specific functions that are core to the software, regardless of what type of machine is used, are working correctly.
- The integration testing is essentially a testing of the interface with a particular type of machine.

In the ideal scenario, Hexagon Manufacturing Intelligence would have access to at least one of every piece of hardware running the software that is operating in the field. However, in practical terms, this is impossible. This integration test plan is then performed on as many types of machines as we have available.

Should you experience problems with your system after you install PC-DMIS 2025.2, it could possibly be an integration problem. If it is a problem of this nature, it will probably be evident immediately upon first use of the possibly untested configuration. To report any integration problems, see "Contact Hexagon Manufacturing Intelligence". Should such a problem materialize on a commercial release, you will be given the highest priority for correcting these problems.

For existing users of the software who currently have earlier versions of the software installed, it is advised that you install PC-DMIS 2025.2 into a new directory. This lets you continue to use your current version if you have problems with the new version.

Important Information about the Geometric Tolerance Command

The release of PC-DMIS 2020 R2 introduced the Geometric Tolerance command which completely replaces XactMeasure (Feature Control Frames). The Geometric Tolerance command offers numerous improvements over XactMeasure and provides these benefits:

- Support for the latest revisions of GD&T standards. The standards governing dimensional analysis have or will soon be updated to define datums in a precise and consistent way and to provide a new, single value definition for profile (ASME Y14.5 – 2009, ASME Y14.5 – 2018, ASME Y14.5.1 - 2019, ISO 1101: 2017, ISO 5459: 2011).
- Robust and intelligent validity checking of feature control frames and measurement strategies of associated features.

With the replacement of the XactMeasure command with the new Geometric Tolerance command, when you open measurement routines in this latest version, PC-DMIS now does an automatic review and migration.

The reason for this automatic review is that in some cases there may be invalid GD&T or measurement strategies in the original routine.

With this latest version, PC-DMIS now automatically checks for and only allows the creation of correct GD&T commands. In previous versions, this was less stringently enforced. Now, in this latest version, when you open a measurement routine, PC-DMIS performs the validity checks, and then one of these cases occurs:

- All the XactMeasure GD&T commands in the original measurement routine are valid or these routines contain no XactMeasure commands (Legacy dimensions remain unaffected). In this case, PC-DMIS doesn't generate any migration report which indicates that the migration is successful and needs no further action.
- The original measurement routine contains invalid XactMeasure GD&T commands or measurement strategies. In this case, PC-DMIS generates a detailed migration report to notify you of any changes that PC-DMIS made and any other items that require further attention.

	**Important**
	In all cases, to maintain compatibility with your previous versions, PC-DMIS retains the original unchanged measurement routine and sets it aside in this folder: C:\Users\Public\Documents\Hexagon\PC-DMIS\<version>\MigrationBackup, where <version> is the PC-DMIS version. Whenever PC-DMIS performs a migration, the probe hits, and probe paths of those measurement routines remain untouched.

We recommend that you can perform the migration process as a separate offline activity before you update your production machines. To help you with this, Hexagon has created a utility that sorts measurement routines based on the presence of a migration report.

- Routines that generate a migration report require review by a programmer.
- Routines without a migration report do not require a review, and you may release them to production.

To help with this offline migration, if needed, Hexagon can provide free access to an offline subscription to PC-DMIS for a limited time period.

For more details, please contact your local Hexagon representative.

Recommended System Requirements

Operating System

PC-DMIS 2025.2 operates under 64-bit Windows 11 and Windows 10. No other operating systems are supported.

	Important
	Starting with RDS version 6.3, the Windows 11 operating system is supported.

	Note
	For HP-L systems and systems that use RS-SQUARED sensors that run PC-DMIS in DCC mode, you need to use a 64-bit Windows 10 Pro or Windows 11 Pro Computer with at least 4 Cores.

You can find a list of supported operating systems for most versions of PC-DMIS here:

Which versions of Windows will my PC-DMIS software run on?

	Important
	When you use third-party drivers, be sure to contact your local Hexagon Manufacturing Intelligence representative to ensure operating system compatibility. Running PC-DMIS inside a Virtual Machine (VM) is supported only if the VM supports OpenGL 3 or higher.

Microsoft .NET Framework

Microsoft .NET Framework 4.8 for Windows. If you do not have Microsoft .NET Framework 4.8, the PC-DMIS installer will install it for you.

RAM

- 4 GB of RAM or higher

The size of the CAD data file and the tessellation multiplier value used affect the amount of memory needed. These both affect the amount of tessellated facets needed to display the model.

The smaller the tessellation multiplier value used, the more memory needed for the facets. For large CAD models, this could cause an "Out Of Memory" error. If this occurs, the current PC-DMIS session will be left in an unstable state and should be terminated.

The default tessellation multiplier value is 1.0. Setting a tessellation multiplier of 0.1 will result in a 10 to 20 percent increase in the memory required over the default value of 1.0. Decreasing the tessellation multiplier further to 0.01 will result in an additional 50 to 65 percent increase of memory required.

- 1 GB of video RAM
- 64 GB of RAM Dual-Channel @1063 MHz DDR4-2666 MHz ECC RDIMM memory (for HP-L systems and systems using RS-SQUARED sensors)

CPU

- 2 GHZ or higher quad core processor
- Intel Xeon W-2223 Processor (3.6GHz, 3.9GHz) for HP-L systems
- Intel Xeon Processor E3-1505M (3.00 GHz) for systems using RS-SQUARED sensors
- Intel Core i7 9th Generation or higher (for example, i7-9xxxHx) 6 Cores hyper-threading enabled (for HP-L systems and systems using RS-SQUARED sensors)

Graphics

Any popular graphics card that meets or exceeds the following suggested minimums:

- GPU Memory 2 GB DDR3*
- 6 GB Memory Bandwidth 29.0 GB/s (for HP-L systems)
- CUDA Cores 384
- Open GL 3.0
- NVIDIA Quadro P5000 (4 GB) (for HP-L systems and systems using RS-SQUARED sensors)
- AC or AX type Wi-Fi card for systems using RS-SQUARED sensors

* For an RS4 laser sensor or later model, you need to have a GPU with at least 4 GB DDR3.

The graphics driver must support OpenGL 3.0 or higher. A warning message appears on PC-DMIS startup if the driver does not support OpenGL 3.0 or if your graphics driver is more than three years old.

	Important
	To ensure optimal performance, update your graphics drivers to the latest version available from your hardware manufacturer. Outdated drivers can cause the application to crash.

Hard Drive

- 2 GB of free hard drive space plus allocated virtual memory of eight times the largest CAD file used
- SSD drive, HDD 10K, or two disks in RAID 0 mode (high-performance hard disk drive)
- 128 SSD, 128 SSD RAID, 1 TB HDD

Display

Screen resolution of 1920 x 1080 or higher

	Note
	If you use a high resolution monitor under low-light conditions, some PC-DMSI UI elements may be difficult to see. If so, you can try these options: • From the PC-DMIS Home screen, select the theme (**Light** or **Dark**) that provides the best UI visibility. For details on how to change the PC-DMIS theme, see "Changing the Theme" in the online Help. • Increase the ambient lighting.

Connectivity

- One Serial port
- Three Ethernet ports. This may be required for specific installations in consideration of local needs, including but not limited to CMM systems where one port is required for controller communications and another for intranet/Internet communications.

- Two USB ports
- A properly-configured LMS license or a HASP key (a physical USB portlock)
- LAN port with Intel Chipset (for example, I219) (for HP-L systems)

	Note
	A HASP key does not act as general-purpose data storage; therefore, you cannot use a HASP key to store (download) arbitrary data from a computer. Similarly, you cannot use a HASP key to put (upload) arbitrary data on a computer. Also, only Hexagon Manufacturing Intelligence applications can read or write to a HASP key; other applications do not have this capability. As a result, you cannot use a HASP key to load and unload data to and from a computer.

Firmware Distributed Controller (FDC) Connection

PC-DMIS establishes a connection with FDC through the following parameters:

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

Pcdlrn.exe and PC-DMIS process listens on port 1294.

Some other ports used are 138 and 1900. The port 1900 was listed as a UDP port.

LMS Licensing

The License verification server and ClmAdmin utility for node locked licenses:

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

The Floating License servers with Flexnet LmAdmin64.exe uses port 27000-27009 on the server. 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.

Hexagon Universal Updater

WebSocket URL - ws://webupdater.hexagonmi.com

Server - http://webupdater.hexagonmi.com/v2/db.live

Username - Null

Password - Null

Port - 80

File - updates_v4.20190702090658181.db

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.

CrashSender1403.exe

This executable is of PC-DMIS Crash Report Utility tool. You can turn off this option because of Windows Event management.

C:\Program Files\Hexagon\2025.2 64-bit\Launcher\HexagonLauncher.exe

LauncherPC-DMIS.config/nocrashdump

A few Hexagon products need to establish remote connections such as Pulse, Notification Center/Message Lights and Smart Factory.

Browsers

- Microsoft Edge, Mozilla Firefox, Google Chrome

	**Note**
	We recommend that you keep your browser up to date by installing its latest version.

Antivirus Software

Hexagon Manufacturing Intelligence used the Microsoft Defender Antivirus tool to test PC-DMIS 2025.2. You will need to confirm the performance of any other anti-virus tool.

https://www.microsoft.com/en-us/windows/comprehensive-security

Solutions for CMMs Using RS-232 Communications

If you are installing PC-DMIS 2025.2 on a new or existing computer, but you have an older CMM model that uses RS-232 communications, then you will need to install one of these solutions on your computer:

- An external RS-232 serial-to-USB adapter cable plus the serial-to-USB adapter cable driver
- An internal serial adapter card with serial ports

HP-L-10.10 Laser Scanner System

If you need to use the HP-L-10.10 laser scanner system, your laser scanner controller firmware version must be updated to the latest version. Please contact your local Hexagon representative to perform the firmware upgrade.

	Note
	To use the HP-L-10.10 sensor, your computer must meet these specifications: • Maximum number of Operations Per Second (MOPS) - Floating Point Math must be greater than or equal to 59 • Number of physical cores (P-cores) must be greater than or equal to 8 You can find these values in your computer's processor specifications.

Installing the Software

To install the software, follow these steps:

Step 1: Check System and Hardware Requirements

Before you attempt to install a new version, ensure that you meet the system and hardware requirements discussed in "Recommended System Requirements". You must also have a USB portlock or valid LMS license for the installation to work. Your IT specialist can help you with this information.

- To get your computer's properties, highlight the **This PC** icon, right-click on it, and select **Properties**.
- To check the display properties for the graphics card, go to **Start** and type **Control Panel**, and then select **Display and Settings**.

Step 2: Log on as an Administrator

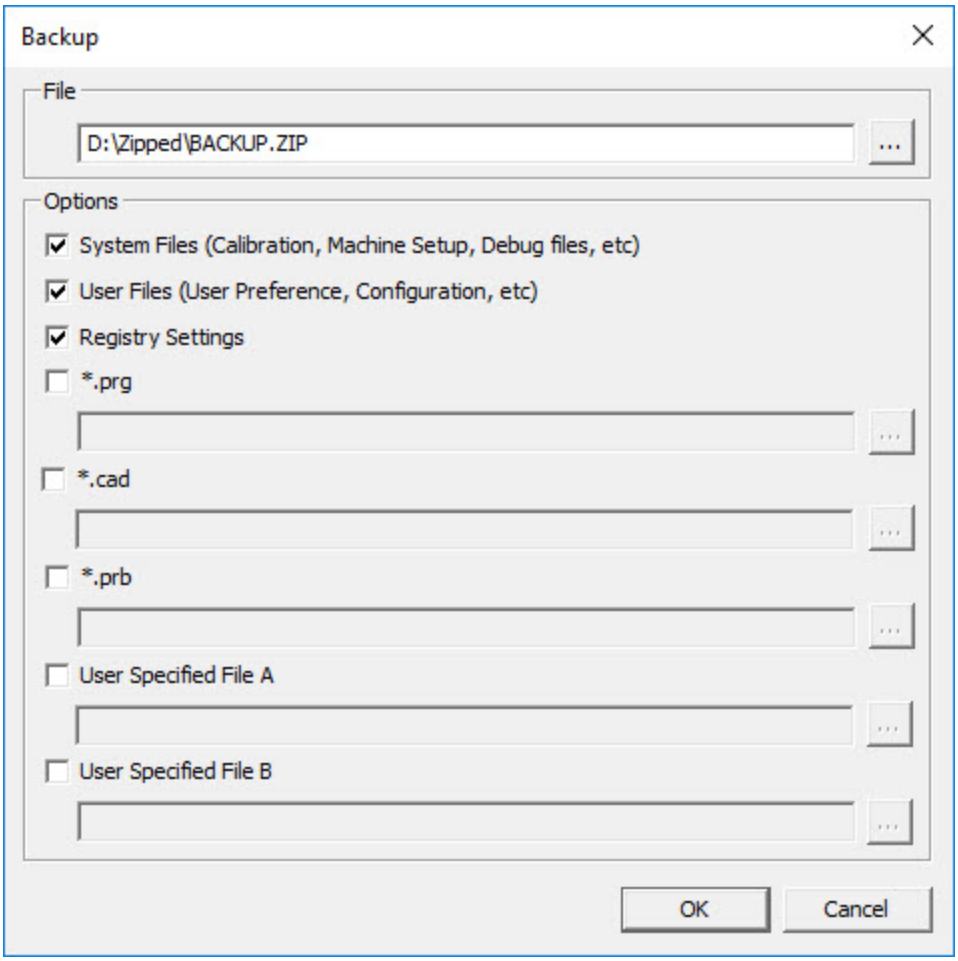
To install and run your new version for the first time, you must be logged on as a user with administrator privileges.

Step 3: Back Up Existing Settings

Back up your settings from your previous version. By default, PC-DMIS 2025.2 attempts to migrate existing settings from previous installs on the same computer, even from very old versions of the software where settings were stored in the pcdlrn.ini file.

- If your current version uses the pcdlrn.ini file for its settings, back up your pcdlrn.ini file. This file is in the Windows system directory. Save a copy of the file in a safe place.
- If your current version uses the PC-DMIS Settings Editor, back up your PC-DMIS Settings Editor data. To do this, follow these steps:

    1. Start the Settings Editor.
    2. Click the **Backup** button (or **Export**) to open the **Backup** dialog box.

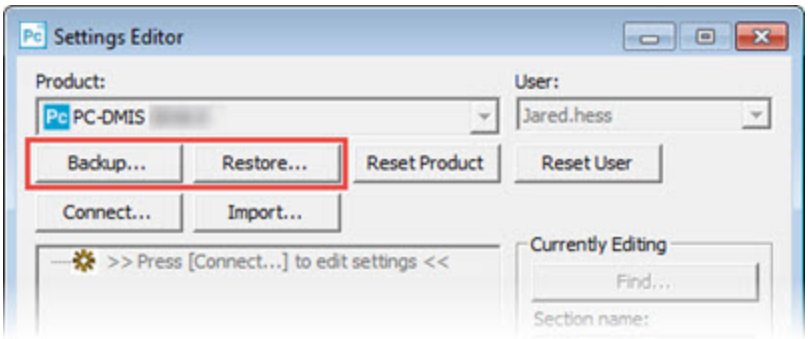


Backup Dialog Box

3. In the **File** box, define a safe location to save the backed-up files, and give the file a .zip extension.

4. Under the **Options** area, select the first three check boxes, and click **OK**.

If you replace your computer or transfer settings that reside on another computer, you can use the Settings Editor's **Backup** and **Restore** buttons:



Backup and Restore Buttons

For more information on the backup and restore functionality, refer to the Settings Editor documentation.

Backing Up 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 are going to install PC-DMIS 2025.2 on a new computer, save copies of the following CMM machine files from your previous version to a safe place:

- comp.dat

  Starting with PC-DMIS 2013 MR1, the comp.dat file moved to:

  C:\ProgramData\WAI\PC-DMIS*version*

- downl.oad

The files are located in the installation (root) directory for all software versions prior to 2013 MR1, regardless of the operating system.

The location of the installation (root) directory is:

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

For versions of PC-DMIS up to and including 3.7 MR3, the location of the installation (root) directory is:

C:\PCDMISW

Backing Up Machine Files for a CMM with a DEA Controller

If you are using a DEA or other CMM with a DEA machine controller, and you are going to install PC-DMIS 2025.2 on a new computer, save copies of the following CMM machine files from your previous version to a safe place (the files vary according to the type of CMM):

- cosdat1.bin
- compens.dat

  Starting with PC-DMIS 2013 MR1, the compens.dat file moved to:

  C:\ProgramData\WAI\PC-DMIS*version*

- Fzyfile.txt
- Rcxfile.txt
- Rmxfile.txt
- Any file with your machine's serial number in its name

The files are located in the installation (root) directory for all software versions prior to PC-DMIS 2013 MR1, regardless of the operating system.

The location of the installation (root) directory is:

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

For software versions up to and including 3.7 MR3, the location of the installation (root) directory is:

C:\PCDMISW

Step 4: Install the Software

The following steps run you through a typical installation. Your installation screens may differ if you are running a different version of PC-DMIS 2025.2 or if you are installing a custom build with additional options. In addition, your license may be configured with different options.

1. Locate the installation file on your installation media; or, if you downloaded it, open the directory that contains the downloaded file. The name of the installation file is:

   Pcdmis2025.2_release_##.#.###.#_x64.exe

   The # symbols represent the version and build numbers.

2. Right-click on this executable file and click **Run as administrator** to open the installation program.

3. If a security warning appears, click **Run**.

4. From the initial license screen, read the license agreement, and select the **I agree with the End User License conditions** check box.

5. In the box at the bottom, you can define the installation folder. By default, the file installs to:

   C:\Program Files\Hexagon\PC-DMIS 2025.2 64-bit

To change the folder, either click the browse button () and choose a folder, or in the box, type a new path.

6. If you want to install the Universal Updater application, select the **Install Universal Updater** check box.

7. Once you accept the license agreement and choose the installation folder, click **Next** to open the licensing screen.

8. From the licensing screen, choose your license type:

   - **LMS (Software) License** - If you have a software license (called an Entitlement ID), select this option. Complete the boxes beneath this option.

   - **LMS License Server** - If you have a license server to connect to, select this option and then type the server address.

   - **HASP** - If you have a portlock (a physical USB device with the licensed options), ensure that it is connected to your computer, and then select this option.

   For help on how to set up an LMS license, see "LMS License Setup".

9. Click **Next**.

10. You can choose to install additional software components. If you selected a custom path, the additional software still installs to your default measurement routine directory (usually C:\Program Files\Hexagon\).

    - **PDF Converter 5.0** - This third-party tool converts PC-DMIS 2025.2 reports to PDF outputs.

      If you are a Portable user and you have the appropriate license, you can select a Portable interface as your default. For details, see "Switchable Portable Interface" in the PC-DMIS Portable documentation.

    - **Offline English Help** - This option installs the English HTML5 Help into an installation folder that you define in step 14. When you access the Help, PC-DMIS tries to use the Internet-based Help, but if it cannot detect an Internet connection, it then attempts to access this offline fallback Help. If you mark the **Use Offline Help** option from the **Help** menu, then it also accesses this offline fallback Help even if you are connected to the Internet. This option appears if you have not installed the offline Help yet. Once you install the offline Help, and you later install an update to PC-DMIS, any updates to

the Help occur automatically without presenting a prompt.

If you need a non-English offline Help, see "Installing Non-English Offline Help Files from Language Packs".

- **Select default portable interface** - From the list, select the Portable interface that you want defined when PC-DMIS starts up. You can choose from any of these supported Portable devices:

  RomerRDS Arm

  Romer Arm (WinRDS)

  AT40x Leica Tracker

  AT500 LeicaLMF Tracker

  AT9x0 LeicaLMF Tracker

  AT901 Leica Tracker

  ATS600 Leica Tracker

  TDRA6000 LeicaTPS Tracker

  Aicon - Offline

  MoveInspect

  Faro Arm

- **Join the Hexagon Customer Experience Improvement Program** - To help improve the product and send usage data to Hexagon Manufacturing Intelligence, select this check box. To opt out of sending usage data, clear the check box. For more information about this program, visit the Hexagon Customer Experience Improvement Program website.

11. Click **Install** to start the installation. A progress bar shows the overall progress.

12. When the installation finishes, a screen shows any warnings or errors. It also contains these options:

- **Launch PC-DMIS 2025.2 64-bit** check box - To launch PC-DMIS 2025.2 now, select this check box. If this is your first time installing this version on this computer, you should do this to initialize registry entries. For more information, see "Administrator Privileges Explained".
- **Show Release Notes** check box - Select this check box to display a Readme.pdf file that shows what is new or has changed in this release once you click **Close**.

13. Click **Close** to close the installation program.

	Note
	If you selected the **Offline English Help** check box in step 10, the English help installer starts up as soon as the PC-DMIS application installation is complete.

14. In the box at the bottom, you can define the installation folder. By default, the file installs to:

    C:\Program Files\Hexagon\PC-DMIS 2025.2 64-bit English Help

    To change the folder, either click the browse button (...) and choose a folder, or in the box, type a new path.

15. Click **Install** to start the installation. A progress bar shows the overall progress.

16. When the installation finishes, a screen shows any warnings or errors. Click **Close** to close the installation program.

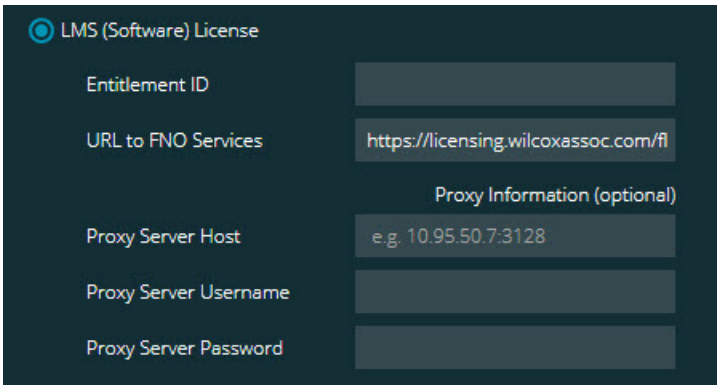
LMS License Setup

This topic provides information if you need to:

- 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, 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:

   - **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).

3. 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 2025.2, 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 2025.2 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 2025.2 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" in Appendix A.

Administrator Privileges Explained

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 (Pcdmis2025.2_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 2025.2, you must launch it with administrator privileges. If you mark the **Launch PC-DMIS 2025.2 64-bit** check box when the installation finishes, PC-DMIS 2025.2 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.

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-DMIS2025.2 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".

Copying Machine Files for a DEA CMM with a DEA Controller

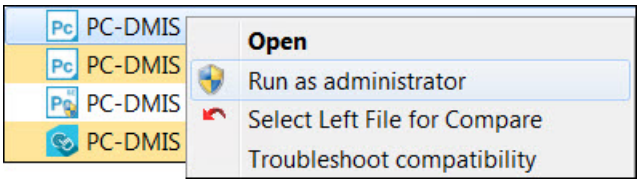
If you are using a DEA CMM with a DEA machine controller, and you installed PC-DMIS 2025.2 on a new computer, copy the backed-up CMM machine files to the following location on the new computer:

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".

Step 6: Launch the Software for the First Time

1. Select **Start** and then type **PC-DMIS 2025.2 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 was not selected 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 Settings Editor, follow these steps to use your previous software settings:

   a. Close PC-DMIS 2025.2.

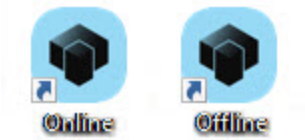
   b. Launch the PC-DMIS Settings Editor from the **Start** menu.

   c. Once it opens, click **Import**, and open the PCDRegFile.dat file you backed up in the Step 3: Back Up Existing Settings. PC-DMIS 2025.2 imports your settings.

   d. Close the PC-DMIS Settings Editor.

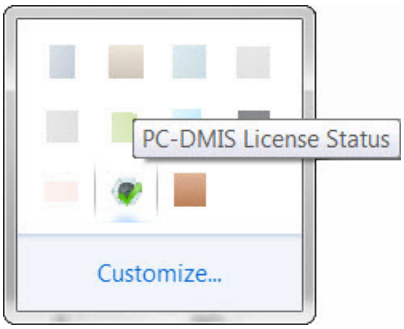
Subsequent Startups

For subsequent startups, click the usual **Offline** or **Online** shortcut to launch PC-DMIS 2025.2 normally :



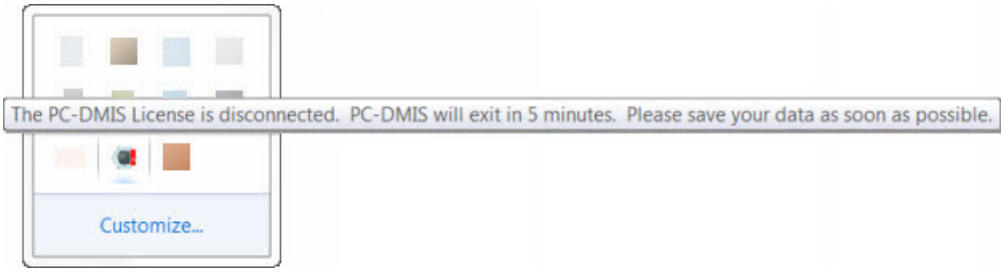
PC-DMIS 2025.2 Shortcuts

Once PC-DMIS 2025.2 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 a 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 a disconnected PC-DMIS license.

If the license is disconnected, PC-DMIS 2025.2 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 2025.2 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-S=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. lmgrd 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 lmgrd / 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

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 2025.2 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

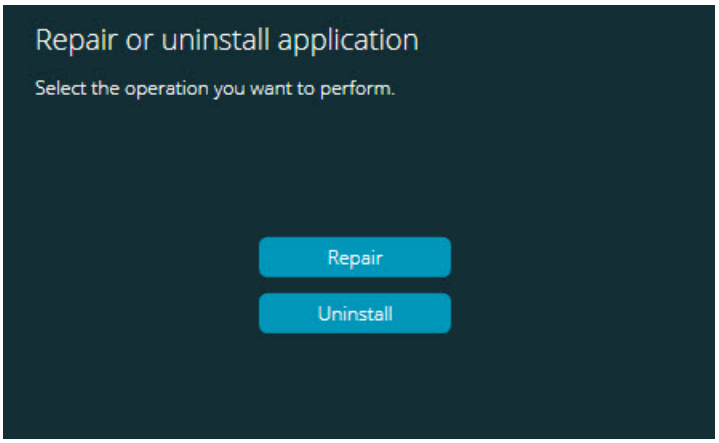
Inspect - This software provides a simplified operator interface for operators to execute measurement routines from supported products and then generate reports.

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 Pcd-mis2025.2_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 2025.2 contains the user-interface files for all of the supported languages. When you install PC-DMIS 2025.2, it installs the language files based on your operating system's language.

To run PC-DMIS 2025.2 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 2025.2 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".

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 2025.2 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 2025.2 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/2025.2/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.

Starting PC-DMIS with an Online License in Offline Mode

To start PC-DMIS with an Online license in Offline mode when you are not connected to a machine:

1. From the Windows **Start** menu, locate the PC-DMIS 2025.2 Online shortcut and click on it.
2. Once PC-DMIS opens, it displays an error message that says the machine is not connected. It then shows this message and asks you if you want to switch to offline mode.

PC-DMIS MESSAGE:
Do you want to switch to offline mode?

To start PC-DMIS in Offline mode, Click **Yes**.

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" 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 2025.2 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".

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 2025.2 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 2025.2.)

Description: A firewall on your computer may be blocking the Hexagon Universal Updater application from connecting to the server. If PC-DMIS 2025.2 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. 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 2025.2 without administrator privileges, DPUPDATE.EXE does not work.

Solution: Run PC-DMIS 2025.2 with administrator privileges.

Contact Hexagon Manufacturing Intelligence

If you are participating in the *technical preview* of PC-DMIS 2025.2, please post your feedback in the appropriate technical preview forum located at https://nex-us.hexagon.com/community/public/pc-dmis/. Please do not contact Hexagon Technical Support for technical previews.

If you are using the *commercially-released version* of PC-DMIS 2025.2 and would like further information or technical support, please contact https://hexagon.com/company/contact-us or visit https://hexagon.com/products/product-groups. You can also reach Hexagon Technical Support at https://hexagon.com/support-success/manufacturing-intelligence/metrology-support 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.
- 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 2025.2 in silent mode:

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

On a system that already has a license, the following line installs PC-DMIS 2025.2 in silent mode:

-passive USELMSLICENSING=1

On a brand-new system using license servers, the following line installs PC-DMIS 2025.2 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-T="123.123.123.123" LMSPROXYUSERNAME="bob" LMSPROXYPASSWORD="marley"

Appendix B

Required User Access Rights

File System

- C:\ProgramData\Hexagon\PC-DMIS\2025.2
- C:\Users\Public\Documents\Hexagon\PC-DMIS\2025.2
- C:\Users\UserName\AppData\Local\Hexagon\PC-DMIS\2025.2
- Any user-specified folder locations for storing measurement routines, probes, subroutines, and so on

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.

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\NCSENSORSETTINGS

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 2025.2 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.
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.