Wilcox Associates, Inc.

PC-DMIS® Version 2011 Enterprise Metrology Solutions Installation Notes

Contents

1. General System Requirements

Minimum Requirements:

- PC-DMIS® 2011 operates under 32-bit and 64-bit XP; 32-bit and 64-bit Vista; and 32-bit and 64-bit Windows 7. (See info below on XP support. No other operating systems are supported.
  Note, however, that these PC-DMIS Vision hardware components do not support a 64-bit operating system:
  - Matrox Framegrabber
  - CMM-V probe
- Pentium-IV or higher processor is suggested.
- 2 GHZ XEON or Intel processor.
- 2 GB of RAM is recommended but significantly more may be required if working with large CAD models.
- 1 GB of free hard drive space minimum for the application.
- SVGA capable monitor.
- DVD drive.
- USB port available.
- The computer must have a graphics card that supports OpenGL shading. We cannot specify an exact graphics card since every user has varying needs. However, Nvidia is the preferred graphics vendor for PC-DMIS.
- Nvidia GeForce video cards are not recommended for use with PC-DMIS.
- This is defined as a "gaming" card according to Nvidia Engineering.
- Supports a screen resolution of 1280 x 1024 or higher.
- RTF file output requires Microsoft Word to be viewed.
- Microsoft® .NET 3.5.

Recommended Minimums:

- PC-DMIS® 2011 operates under 32-bit and 64-bit XP; 32-bit and 64-bit Vista; and 32-bit and 64-bit Windows 7. (See info below on XP support.) No other operating systems are supported.
  Note, however, that these PC-DMIS Vision hardware components do not support a 64-bit operating system:
  - Matrox Framegrabber
  - CMM-V probe
- 2 GHZ or higher Duo-Core processor for improved performance.
- 4 GB of RAM or higher. More RAM may be required if working with large CAD models. You should have RAM equal to 8 times the size of the largest CAD file you will use. (For example, if you use an IGES model of 250 MB, then 2 GB RAM is recommended.)
- 2 GB of free hard drive space plus allocated Virtual Memory of 8 times the largest CAD file used.
- SVGA graphics card that supports OpenGL shading and that has WHQL certified drivers. On board video card memory should be based on the size of CAD file being used.
- For use without CAD models, 64MB video memory.
- For small to medium CAD files (50-100 MB), 128 MB video memory. |
- For large CAD files (> 100 MB), 256 MB+ video memory. WHQL (Microsoft Windows
- Hardware Quality Labs) video drivers can be downloaded automatically when using the
- Windows Update software.
- SVGA capable monitor.
- DVD drive.

- 2 USB ports available.

    NOTE: Depending on your specific needs, the recommended system specifications for this version of PC-DMIS may be much higher. A more substantial computer system may be required to accommodate part programs using Automation or complex Reporting objects. Be sure to consult with your PC-DMIS distributor to find out the type of computer system you will need in order to run this software at its optimum capability.

    IMPORTANT: When using 3rd-party drivers you should contact your local Hexagon representative to ensure Operating System compatibility.

    ANTI-VIRUS SOFTWARE: The Sophos® Anti-virus tool was used by Wilcox Associates Inc. while testing PC-DMIS. The performance of any other anti-virus tool will need to be confirmed by the user. http://sophos.com/products/enterprise/endpoint/security-and-control/.

    INSPECTION PLANNER: You may need to recreate the IPD file for needed parameters so imported Inspection Plan items are created correctly.

    WINDOWS XP SUPPORT: Beginning with v2010 MR1, we are starting to phase out our support of the Windows XP operating system. While this version likely runs fine in XP, it was not explicitly tested in XP.

2. Information about this Release

We at Wilcox Associates are proud to bring you this new version of PC-DMIS® 2011. This Enterprise Metrology Solutions platform brings together new aspects of PC-DMIS® for the development of a complete manufacturing process control solution. Available in this release are variations of PC-DMIS® designed to assist with every aspect of the fabrication and quality control process. The newly created packages include PC-DMIS® Laser, PC-DMIS® NC, as well as the established PC-DMIS® Pro, PC-DMIS® CAD, and PC-DMIS® CAD++ platforms. Also included with this release is PC-DMIS® ONE, a simplified shop-floor DCC inspection package developed in cooperation with Brown & Sharpe.

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 is comprised 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, WAI would have access to at least one of every piece of hardware that is operating in the field running PC-DMIS®. However, in practical terms, this is impossible. This integration test plan is then performed on as many types of machines as we have available.

Unfortunately, there will inevitably be machines to which we do not have access and that cannot be

fully tested in this manner. To this end we have made an effort at closing this gap by partnering with our customers through the Beta Test Program. On our web site you will find an application for this program here: http://www.wilcoxassoc.com/usersarea/beta_test_application.php. We urge you to consider signing up for the program as it provides the mutual benefit of helping us create the best product possible for you, our customer.

Should you experience problems with your system after installation of PC-DMIS® 2011, 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. Should such a problem materialize, you will be given the highest priority for correcting these problems. Please call Tech Support immediately to report any integration problems.

For existing users of PC-DMIS who currently have earlier versions of PC-DMIS® installed, it is advised that PC-DMIS® 2011 be installed into a new directory. In this way, you can be assured of continuous use of the existing version should problems arise with this newer version.

3. New Product Information

NOTE: EMS products remain in Early Adopter stage until formal release of each is announced.

- WAI Toolkit - Allows for the creation of custom commands in PC-DMIS

Important 2D Distance Change: In PC-DMIS v2010 and later the 2D Distance dimension and the DIST2D expression have changed somewhat; they no longer use the workplane as part of the calculation when the third argument is set to a plane and the distance is being calculated perpendicular to the third argument ("perpendicular to" is always used by the DIST2D expression).

See the "2D Distance" and "Pointer Expressions" topics in the help file for more information.

Major Enhancements

1) Flush & Gap AutoFeature

2) FDC Interface (Firmware Distributed Controller)

3) Bi-Directional XML Support

4. Release Notes

Version 2011 of PC-DMIS is a significant development release of the software.
Initial Release Date: April 01, 2011

**** Prior to the release of Version 2011, Version 2010 was last official release of PC-DMIS by Wilcox Associates, Inc. and the Brown & Sharpe Metrology Group of Hexagon Metrology.

2011 Major Release Updates (April 01, 2011)

Enhancements

108998 – Added ability for user to save work before PC-DMIS exists when a network shuts down.

101571 - Added a method to allow Sales/AEs to easily disable unwanted options on their locks based on the current demo or training needs.

106880 - Made changes to solve problems from a new OGP software structure which no longer uses a separate dsp.out file.

107471 - Fixed so the VW reference part imports correctly to PC-DMIS and Planner.

107689 - Implemented a feature extraction library able to work with all the non-contact sensors supported by the company. Implemented the control for Extrusion.

108266 - Implemented a feature extraction library where users can work with all the non-contact sensors supported by the company. Added the CONE element.

108423 - Implemented a feature extraction library able to work with all the non-contact sensors supported by the company. Changed CONE parameterization.

107734 - Optimized the tip change when angle does not change.

107806 - Added HSSDAT improvements.

108018 - Extended Edge Point and added RMeas info to the internal commands.

108140 - Removed 'Shutdown' button from the Error dialog box.

108155 - Added basic object hierarchy (PartProgram, Commands, and Command) for Automation 2.0

108222 - Divided the Pointcloud Alignment dialog box in two screens for easier alignment in COP and CAD.

108223 - Deleted the rough alignment arrows when exiting from the Alignment dialog box to improve the manual pointcloud best fitting routines.

108260 - Added RS232 support to the new LK-Direct interface.

108295 - Created IPCommand(s) from the selected CAD GD&T.

108297 - Modified the appearance of the Pointcloud Alignment dialog box.

108298 - Created a menu item for the Pointcloud Alignment dialog box inside the Insert Alignment menu.

108315 - Built a skeleton of a dialog-based server to 'talk' CMM-OS.

108318 - Redesigned the Flush & Gap creation process to update CAD selection and parameters definition.

108379 - Corrected DLL for use in VW benchmark on manual machines.

108382 - Changed title to 2011 and updated information.

108385 - Migrated to Datakit's Version 6.6 libraries.

108409 - Simplified Scan RDV procedure by adding a secondary calibration option in the Measure Probe dialog box.

108410 - Added Cylinder Strategy to perform a centering scan on a thread.

108411 - Added ability to change tips with same A/B angles during toolkit DoExecute.

108413 - Applied the latest NMATH changes from the related surfer library.

108414 - Limited the points used by the Wai Feature Extraction module to evaluate the feature to a maximum of 20 thousand.

108415 - Added the ability to query a part's temperature via automation's ExecuteCustomCommand.

108420 - Improved Automation Creation Tool to work directly with PC-DMIS Source Code.

108422 - Added more startup log entries and permanently enabled logging.

108425 - Added the ability to handle scan data in different units.

108428 - Installed CTOV exe generator if SRM installs and added two shortcuts inside the licensing folder.

108436 - Changed language handling so new installs of a version will reset the language for a user.

108438 - Removed GreenKey warning message.

108449 - Added calibration option to DCC measure sphere even if it has moved, assuming the

same approximate location as before.

108455 - Provided code to test the presence of HASP with EDM bit set in .NET.

108470 - Fixed the Extended Edge Point so the TK commands don't update when tolerances get changed in automation.

108474 - Added IgnoreSkippedFeatureRule registry entry to allow the users to ignore the SKIP rule.

108475 - Changed Portable Laser so it will scale to fit while scanning.

108757 – Added the ability to update Measured feature nominals from CAD AFTER the feature has been measured.

108477 - Replaced the WAI Feature Extractionmethod for logging the clouds from a text file to a faster bin format.

108486 - Added another menu item under Import | Pointcloud for STL so the user can import an STL file directly into the pointcloud object.

108493 - Removed the ability to log under NCSensorsLogs for third party applications.

108494 - Added ManualScan for Laser probes on DCC machines. Implemented the ManualScan Command.

108501 - Added the possibility for the application bin2xyz to abort during conversion.

108530 - Added Methods functionality to automation creation tool so users can create new functions or connect to existing functions as part of the bridge.

108531 - Animated the rotary table.

108532 - New icon added to GD&T selection button.

108540 - Made feature-based laser alignment split the screen in 2 views: one for CAD and one for the COP.

108555 - Removed the Move to Feature from the move rotary table dialog box.

108557 - Reduced the amount of time the target and points are displayed on the screen.

108558 - Removed the Feature Name text from the Live View when Multi-Capture is active.

108559 - Added an option to show or hide the Live View positional text on the screen.

108560 - Added the ability to change the Font Size for the text in the Live View.

108562 - Added a Scale Marker to the Live View.

108564 - Added a UI option where the user can set the point size or marker type for the measured point display.

108567 - Added an option so the user can select if PC-DMIS will automatically guess the edge strength required.

108579 - Implemented Freeform Line using the Freeform Plane as a basis.

108581 - Added the Flush & Gap calculation feature.

108586 - Fixed in Extended Edge Point - AudiExtendedEdgePoint MakeInternalCommands exception.

108587 - Fixed in Extended Edge Point : EEP increasing the PRG file size by about 1 MB.

108588 - Fixed in Extended Edge Point: The outer EEP feature now shows in the PC-DMIS dialogs.

108603 - Allowed crashdump to be switched off from command line.

108681 - Implemented new 'Clearable Error' flag in Emscon.

108685 - Added Event Creation Handling to the new Automation Creation Tool.

108687 - Enabled Pointcloud Box Selection for Cylinder, Cone, and Flush & Gap features.

108697 - Fixed broken builds of ZEISS interface for older version of PC-DMIS.

108744 - Created Licensing Scheme for Toolkit Modules.

108759 - Added automation to Universal Jog Box (UJB) Project to signal when PC-DMIS dialog and message boxes are closed.

108764 - Installed Zeiss upgrade / Caterpillar FR.

108765 - Changed the current MultiCapture combo box to a check box.

108766 - Changed large crosshair check box to a combo box with None, Small, and Large options.

108772 - Added LEGACY_DIMENSION_RMS.LBL file to install.

108801 - Added support for Auto Feature creation from automation to select alternative measurement strategies.

108807 - Upgrade to Datakit v6.7 libraries to provide support for Catia V5 r20.

108822 - Made Exposure changes available during calibration.

108824 - Added support for Ring Gage Scan Calibration.

108829 - Added support to allow writing/reading stripe information in pointcloud xyz files.

108839 - Made the clearance distance on the qualification set by probe.
108840 - Added CylinderCenteringThreadScan to BaseToolkitStrategies.
108859 - Added correct reference to WAITookit.dll for Audi.
108908 - Tidied up live image changes.

Fixes

269396 - Selecting USE - NO in a Best Fit or Vector Fit alignment causes the alignment to go crazy.
270330 - Alignment dialog crashes.
271822 – Using six vector points in a best fit alignment from the Quick Start interface results in "Error in A1" alignment
269092 - No feature in the analysis view.
268732 - Auto Insert Moves doesn't always create moves that clear the part.
263230 - Path lines of Cylinder Auto Feature are not correct.
266533 - Inserting a square slot in some programs incorrectly results in this message "Slot Math failed, points on the first edge are too close together!"
267788 - When creating an Auto Vector Point feature with thickness type ACTL, the ACTL values of the added feature are incorrect.
268270 - Using a camera sensor, and clicking Test on an Auto Feature, and then clicking Cancel at the Execution Mode Options dialog causes PC-DMIS to crash.
270020 - Reflex Vision: Editing measured feature deactivates the Re-measure function.
269325 - Measuring an Edge Point with probe angles that are not perpendicular to the Edge Point surface, yields poor results.
269818 - When right-clicking on an Auto Feature Sphere's path lines and choosing Using User Defined Hits, PC-DMIS gives an "Invalid Sphere Level Start and End Angles" message.
270442 - When using WAI feature extraction, the Edge Points are not reacting to the Test button.1
270540 – Program an Auto Plane and most of the Probe Toolbox disappears.
271231 – When saving a part program backwards form 2010 mr3 to 2010 the Auto Features will be red and if you execute that part program it will jump over them
270520 - CRASHDUMP 2010 MR2 RELEASE: CPCDpart_program::IsAutoFeatureDialogOpen (8 occurrences)
270592 - When selecting 'Both' for Avoidance move, the machine crashes into the part
270686 - When measuring an internal cone, this message appears: "Error: TR_EXE11 Direction not clearly defined".
270797 - Dimension Theo values are not updated when changing the feature theoretical (with F9 in the feature).
256647 - Object type does not work properly in the Basic Script Editor.
266251 - When importing a large CAD file, the hourglass goes away and frees up the mouse before it finishes reading the file. (FS#2371 FS#2372)
268085 - Box-selecting circle data from an imported XYZIJK file creates circles from point data in the file.
270023 - Importing a CATIA v5 file results in wrong and missing nominals and tolerances (FS#2596).
270748 - The trihedron of the AWO changes size when printed on different machines.
270752 - Hidden CAD Assembly nodes still appear in the report.
270826 - 'Transform' context menu item is disabled if only one node is present in the CAD Assembly tree.
271459 - Doing a Save as back to 2010, results in a CAD file you cannot open.
270855 - The 'CAD Levels' dialog and the 'View Setup' dialog are out of sync for the CRO in the reports.
270983 - Needs to be a way to determine if Parasolid and CATIA v4 files are valid.

271033 - Spherical surfaces don't draw correctly on the Hexagon test block model.
270555 - Unimportant changes for a Plane feature appear in the Change Manager.
270562 - Distances don't work in the Change Manager.
271006 – In certain port lock configurations PC-DMIS crashes when importing an IP file.

270763 - A parse error is received when using an IP file in the change manager containing a FCF with a negative tolerance.

270437 - Depth field is not available in the Polygon Auto Feature dialog.

270548 - There is no Form evaluation for cylinders extracted using WAI Feature Extraction.

270342 - Turn the RDS sound guide on only when scanning, not when previewing.

270480 - The Feature Extractor Configurator doesn't work for SE or SI CMS systems. Also, the Laser Line Auto feature is not supported and should be removed.

270503 - Since a CMS is always previewing, the Scan Line Indicator should be turned on automatically.

270665 - When a CMS on an RDS arm is set to "Keep Button Pressed" for very short scans, it misses the "End Scan Event" and PC-DMIS thinks it's still scanning.

270741 - The CMS on an RDS arm should show the Scan Line Indicator while scanning too, not just when previewing.

270790 - The Scan Line Indicator with a V5 while previewing is drawn in the wrong location.

271382 - If scanning with a CMS using a point filter, extracting a feature from a reduced point cloud the extraction should continue if the user clicks Yes to continue past the warning message.

264333 - Some constructed features' centroid values can not be change at once based on the input feature, but others can.

269224 - Constructing a Curve feature with "Use Tolerances" marked and a Thinning Value of 0 crashes PC-DMIS.

270448 - Feature set construction encounters a random failure.

269480 - Constructing an Offset Point feature with Specify Theos enabled asks to update nominals but then it doesn't update them.

269704 - A Constructed Offset Point executes even if the reference feature is missing.

269869 - Line Offsets dialog in some cases displays incorrect and/or missing information when re-opened by pressing F9.

269897 - You can incorrectly select non-ellipse features when constructing a Reverse Ellipse.

270049 - Constructing an Intersect Point between a CYL and a PLN returns a completely wrong result.

270320 - Constructing a Line using Scan Segment discards the first 7 hits.

266659 - Datakit will crash PC-DMIS if importing unsupported NX versions. It should inform the user when file versions are not supported (FS#2268).

269563 - Unigraphics model crashes when loaded into PC-DMIS, but it functions fine when loaded directly into NX 7.5.

267906 - A FCF Position dimension in the attached program is not updating correctly.

268162 - A GDT Standard is not being initialized properly when the FCF Profile dimension is created using Automation.

269082 - Cannot do a Total Runout using a Plane and an axis feature (Cylinder). (Working as designed, but Help file topic clarified)

269194 - Mismatch with the ISO Limits and Fits table.

269274 - The default selections in the FCF dialog do not apply to all dimension types.

269945 - Angularity does not evaluate correctly in some circumstances.

270231 - Application error when opening the attached part program.

270390 - Test records 4 failures with True Position dimension datums.

270452 - Can't dimension the diameter of a Polygon Auto Feature.

270466 - Improper argument encountered when deselecting features in Feature List of the Location dimension.

257968 - Illumination folder incorrectly displayed in Edit window's Summary mode when a target's Density is set to None.

269016 - Pressing CTRL + M doesn't always insert a MOVE command.

270088 - When adding auto features into the Edit window's Summary mode by using the Add Command list, the list shows the auto features twice.

270254 - PC-DMIS crashes when reverting extracted features to measured.

270262 - Edit window automatically marks unmarked Auto Circle features when reopening the part program.

270287 - When adding a "Basic Scan" into the Edit window's Summary mode by using the Add

Command list, the list shows two items of this type, and the first item doesn't work.

270519 - CRASHDUMP 2010 MR2 RELEASE: CEditWin::update_fields (8 occurrences)

270632 - The software incorrectly complains that it "Can't Insert at current Postion" when inserting dimensions.

269910 - CRASHDUMP 2010 MR2 RELEASE #18: CFindNomsProc::EndExec (4 occurrences)

269911 - CRASHDUMP : CRegExecutor::regmatch

267598 - Summary table for FCFs is incorrect; the Axes orientation is not controlled.

267646 - FCFs should output the Datum shift table for composite Profile.

267647 - FCF Position should not report the Datum shift table if the dimension is fully constrained.

269859 - Bonus from Datum is miscalculated when program units are Inches and FCF dimension is MM.

270360 - ISO 8015 local min / max diameters are calculated incorrectly.

270594 - Position FCF with MMC on datums reports incorrect values in Datum shift.

270973 - An internal graphical analysis method can cause the UseIsoCalculations registry setting to be lost.

270995 - FCF Profile for ISO1101 has the wrong OUTTOL when a program is loaded.

271738 - Unit flatness has an incorrect tolerance value.

266199 – Position evaluation of a cylinder does not display the correct axis values for evaluation point in summary table

271568 - Positive Reporting is broken in 2010MR3.

271057 - Dimension Colors are off by one zone.

264746 - Executing the attached program, PC-DMIS takes up to 40 minutes to evaluate dimensions and generate the DMO file.

270516 - CRASHDUMP 2010 MR2 RELEASE: CGDispData_L::DropGraphElem (30 occurrences)

270603 - CRASHDUMP 2010 MR2 RELEASE: CGDispView::GetGLFontSpecs (14 Occurrences)

270842 - CRASHDUMP 2010 MR2 RELEASE : CDialog_with_feature_list::OnG2MSelection (20 occurrences)

270045 - LOADPROBECHANGER command is adding invisible moves which make the offline pp execution fail.

270766 - Custprog.exe doesn't list the MTA-Converter option.

270277 - English install displays 2010 MR2.

270634 - PC-DMIS crashes when converting a HyperView report to Report.

270281 - Zeiss machines sometimes do not stop after clicking Cancel or Stop on the execution dialog.

268188 - TEMPCOMP for Machine is not working in I++ environment (VW MOSEL).

270067 - Exporting partial circles to IGES does not export the measured arc segment.

270572 - Application Error occurs during the import of a plan using the All Features option.

269737 - Error message on startup about the ArmScanner library not being registered properly.

270274 - Swedish PC-DMIS menu is not in Swedish.

270276 - Portuguese and Italian both have English menus.

270607 - PCDLRN.INI file should be not used if registry settings from higher versions are available.

270772 - PCD2EXCEL wizard is missing the MSCOMCTL.OCX file.

270780 - Installing PC-DMIS to Windows 7 results in missing shortcuts for subsequent user logins with Administrator privileges.

271273 - Installer prompts refer to Planner 2010.

256189 - Interface PC-DMIS to Mora Pico.

263853 - The LK-Direct interfaces will not home the cmm. (4.3mr1)

268220 - In dual arm mode, cannot load a probe on arm2 with an active probe changer.

268543 - An Auto Feature's Auto Move functionality set to "BOTH" does not function as expected.

269126 - Using Elm Titan machine with Tech 80 PCI card, counters do not update and appear to only do so when a hit is taken.

269416 - On 16-bit controllers, when switching to manual mode, the dcc speed is set to jog box speed.

269606 - PC-DMIS will not startup with Leitz B4 controller in PARK.

269646 - Using Inches, retracts inside measured features, some retracts are huge. (Metris Server).

269652 - Faro Arm RS-232 has an intercepted communication problem.

269709 - PC-DMIS REMIUM 4.3 MR2 freezes until the GMServer is running.
270031 - LOADPROBE command doesn't send to CMMOS interface in Multiple Arm mode.
270188 - Auto Feature Find Hole operation does not work on an FDC controller.
270249 - PC-DMIS does not start correctly when homing the machine and the cmm's "machine
start" is off.
270279 - No error recovery for unexpected touches or end-of-stroke errors; the machine locks up
and has to be restarted and homed again.

270453 - Probe file for Reflective Tape appears with two different names.
270678 - Too many memory leaks when running an online part program.
270777 - Scan with old PMM and B1 controller.
270782 - Move circular is disabled in the controller for FDC interface.
270807 - Pressing OK in the Select Probe File dialog at startup deletes the CMMOS node in
the registry, making the machine unusable.
270867 - CMMOS interface doesn't store debug options into USER level but on administrator level
- not persistent for non-administrator users.
270879 - Machine options showing Refraction index for IFM on AT401.
270923 - AT401: ADM and ANGLE Compensation shortcuts to TrackerPilot in TRACKER MENU
are interchanged.
270921 - AT401: PC-DMIS opens an instance on its own after closing PC-DMIS after the message:
"Controller already in use".
270925 - AT401: on TPI command, SetReflector, PC-DMIS does not wait for an answer before
continuing
271846 - AT401: PC-DMIS does not automatically activate the Meteo Station after initialization.
272090 - Nivel toolbar is sometimes disabled even if nivel has been recognized correctly.
270924 – Cannot automatically measure points when multiple reflector types are used because
LOAD PROBE message is not suppressed.
270731 - CMS on RDS: the Scan Line Indicator needs color.
270834 - Rare crash occurs with CMS when a wrong probe file is used.
271513 - Unmarked features execute with Romer RDS
271499 - Portable Laser execution broken.
271842 - Total Station: PointTo/ MoveTo on Vector Points not working --> TDRA Points/Moves
to wrong position
271555 - ATR commands (ATR_ON or ATR_OFF) are not executed in execution mode.
270929 - Romer RDS, the Scan Line Cursor in the Graphics Display window blinks as data is taken.
267799 - The ExternalTipMirrorTool registry entry doesn't work.
268380 - After a Mirror operation, the beginning of the program works but breaks in the middle.
268388 - The MEAS values of some Points are incorrect after mirroring.
268835 - Mirroring the attached program on X-axis and Y-axis does not work in 2010 MR1
(AUDI PRESSHOP).
269346 - The New Hasp SRM coming message isn't always on top, making it unclear why
PC- DMIS does not start.
269916 - Running and editing PC-DMIS offline while executing online causes application errors.
271052 - CRASHDUMP 2010 MR2 RELEASE : AfxWinMain (12 occurrences)
270094 - Broken fly mode sequence is NOT correctly continued.
270095 - Continued fly mode sequence will be canceld by PC-DMIS
270446 - MOVE/CLEARPOINT doesn't work with a rotary table.
270756 - A Laser Surface Point Auto Feature gives a "Feature calculation error" if
Horizontal clipping is < 4 mm.
270976 - The Flush and Gap Cad selection results in the GAP point on one side of the gap
instead of in the middle.
269698 - A strange change of the path lines occurs after pressing F9 to verify the Auto Feature.
269952 - Expanding a contact feature in the Edit window's Summary mode causes an open Auto
Feature dialog box to have all its fields grayed out.
270845 - CRASHDUMP 2010 MR2 RELEASE : CActiveCursor::DrawItem (18 instances).
270026 - Laser stripes remain in the Graphics Display window even after closing the Auto
Feature dialog.

270393 - Crash occurs when dimensioning a cylinder's location.
270740 - Offline execution for arm 2 doesn't work if a Perceptron probe is loaded.
270260 - Expected "No Stripes for extraction warning" never appears, resulting in a hung execution.
270759 - Scanning with a V5 in RDS delays from new scan-time functionalities.
270090 - Inserting a COP / CAD alignment after a laser auto feature alignment has been done, does not work
270137 - COP commands are missing from Feature Appearance dialog
270170 - Deleting COP after Face Colormap causes the Colormap to reset.
270363 - Memory allocation needs to be changed to a more efficient way in pointcloud/auto features related code to eliminate memory leaks.
270445 - Pointclouds are not being used as the center of rotation.
270833 - Errant points on cross sections of a pointcloud when using DistributePointsEvenly registry setting.
270495 - Cop alignment is lost if trying to change the last point when executing the alignment itself
270496 - CMS –Face colormap with attached STEP File isn't working correctly
270526 - Real-time scale-to-fit scanning not working correctly.
270658 - Editing a pointcloud Import command in the Point Cloud Operation Steps dialog hangs PC-DMIS.
270702 - A crash occurs after executing a point colormap and then closing the part program.
271147 – A crash occurs when deleting everything after a COP and then inserting a Face Colormap.
271398 - Point Colormap returns wrong results when compared to a Surface Colormap.
270770 - Incorrect colors are used on a surface color map when the deviation is negative.
270917 - No Laser Stripes when trying to extract a Flush and Gap feature on this cloud.
262973 - Random loud noise occurs when using guided mode.

268556 - Build/Inspect with polar Coordinates shows wrong deviations if Probe Position in readout window is turned off.
269759 - CMS Laser Interface does not allow pressing 'right side' button to acknowledge dialog boxes.
271526 - A crash occurs after second execution for the CROSS cloud in attached part program.
269881 - Executing a program with a COP to CAD alignment does nothing.
269927 - Sound Events: Pressing the button to assign a sound event opens the Desktop folder inside Explorer, not the sounds folder in the WAI installation folder.
270057 - No probe in a new program after locking onto a probe and closing the previous one.
270143 - Single Point Circle fails if plane has Noms from CAD
270270 - Crash and upcoming unexpected PCDLRN.exe instances appear in process viewer after 'Controller Already in use' error message.
270299 - Improve RDS scanning experience - Turn point counters on in the status bar and in the Edit window by default.
270527 - Scanning data into a COP is broken; it puts an arrow on the CAD along with the stripe and makes a strange sound.
270619 - Move Feature Command always refers to station 1.
270644 - Single-clicking a quick start line results in an incorrect vector.
271229 – Single-click programming of Measured Features causes failure in Point Only mode programming.
264080 – The workplane setting on a measured feature is incorrect when opening the Quick Start midway through a program.
270700 - Memory Leak in laser's box-select functionality when solve fails.
270875 - Cannot box-select when there is an alignment.
271035 - Error message displays when starting Romer Integrated Scanner with RDS HASP: "RDSArmScanner library has not been registered".
271036 - Deleting a COP breaks dimension links and removes RECALL/ALIGNMENT statements from part programs.
269733 - Add an option to abort calibration if no tips selected in named sets.
270622 - Cylinder probe gives different results between 2010R and MR1.
270701 - "Used in Program" option overrides explicit tip selection when run via Autocalibrate.
270315 - ProE DCI: Auto Feature Circle creation crashes PC-DMIS.

270422 - Enable single-click cylinder Auto Feature creation.
270668 - ProE DCI fails to load proewildfire4.dll.
269630 - Distance to target field in the Readout window doesn't keep machine axes.
270785 - In the Readout window, the text shows up too small to use.
270573 - PC-DMIS crashes when on-line and generating a report.
270060 - Arrow property added for Analysis window object.
270184 - =GDT_SYMBOL does not display dimension symbol for FCF dimension commands.
270447 - Enabling positive reporting does not flip the sign of the measured value to positive.
270543 - Reporting issues as defined by task #108543.
108927 - The Amyuni PDF driver doesn't properly set permissions on its registry key.
270718 - When generating labels, add a limit to control the size of the rectangle.
270743 - Cannot drag and drop dimensions to a custom report with a huge header label.
270990 - When refreshing the attached report and enabling 'View Report Mode', the page is empty.
270746 - When TitleShow property is set to 1, it displays the string 'NULL' in the Analysis Window object.
270832 - Enabling leader lines in the Select Point Info dialog, the view changes so that the profile isn't visible any longer.
270936 - It takes 48 minutes to open the attached part program and to refresh the Report window.
270269 - Scale to fit doesn't work well, especially with the Probe Readout window open.
262950 - Cannot control the Default ID name for Scans.
269197 - Often, the Patch scan ignores the boundary on the first row of the scan.
270013 - All the vectors, except the first few points in a Linear Open scan with Cad flipped (incorrectly) causes the measurements to be off by a probe diameter.
270058 - Patch scan is generated incorrectly and most of the part is missed.
270928 - Application error received after creating a BasicCircle scan from a script.
269523 - Backup from the Settings Editor doesn't collect the registry settings.
270004 - The migration from old PC-DMIS version to MR3 also needs to move the USRPROBE.DAT file.
270212 - CopyRegistrySection doesn't take care of nested keys entries.
270228 - Settings Editor error occurs during backup.
270962 - The tool change cycle appears to be lost in 2010 MR3.

270517 - CRASHDUMP 2010 MR2 RELEASE: CSpaceBallSymbol::DrawIt (20 Occurrences).
270359 - The Xstat11.tmp file is not created.
270133 - Bad and incorrect STEP file conversion.
262515 - Out-of-date CurTemp values applied even if temp comp is not active for a part program.
262589 - TESA: VISIO500: Invalid thermal compensation when entering Material Coefficient for the part (Sensor 4).
270055 - HMV: After using unload probe, the next probe is not loaded.
270508 - Multisensor is not updating last used probe
270064 - The toolkit CircleAnalogScan feature draws in the wrong location.
271756 – Measuring an autofeature scan cylinder produces a zero diameter.
270068 - Application error when copy/paste and then editing FFP commands.
270075 - Couldn't create Auto Features using strategy with Tracker and Leica interfaces.
270656 - Toolkit: Implementing IInternalCommandContainer that returns a null list crashes PC-DMIS.
270713 - Unhandled Exception measuring a cylinder with CircleAnalogScanStrategy, CylinderAxisScanStrategy, or CylinderThreadedAxisStrategy
270735 - Cylinder Measurement Strategies (CylinderSpiralScan, CylinderAxisScan, and CylinderThreadedAxisScan) return a diameter that's off by the probe's diameter.
270757 - Plane Circle Scan Strategy is messed up.
271735 - Auto Circle Scan Strategy does not measure a hole correctly.
271715 - The Avoidance move is not working correctly in the Auto Circle Scan Strategy.
271009 – Auto Circle Scan Strategy results in a bad form.
271030 - FreeformLine doesn't show up in dimension dialogs.
270387 - Typo in IDD_RULESETWIZARD4_DIALOG
266930 - PC-DMIS UJB software will not update the Jog-Box display screen when the program is

executing.

267085 - The UJB application does not seem to work with Gear.

267402 - UJB Utility gets a "Run Time Error" when PC-DMIS encounters a "File Not Found" error.

268870 - The icon (spherical W) color is the same for the UJB app as it is for the Planner.

269817 - Some PC-DMIS 2010 dialogs need internationalization improvement.

270156 - CRASHDUMP 2010 MR2 RELEASE #10: CPcdmislApp::RestoreCustomUserMenuItems (5 occurrences).

271031 - 2011 Release version displays an "InitString: Unable to load string" message at startup.

268172 - Slot Math Failed during the path visualization.

270779 - Viewing Path lines in online mode removes the part alignment.

270844 - CRASHDUMP 2010 MR2 RELEASE : CPCDviewset::GetViews (14 occurrences).

241394 - Auto Tune should only offer to apply features that have been block-selected when running in block-select mode.

266174 - UniVolComp has an error on certain Zeiss files.

271318 - UniVolcomp doesn't run on Win7.

239943 - Wrong text is displayed in the Iterative Alignment Wizard dialog. "Use 3D features as inputs" should contain text describing appropriate 3D feature selection.

271537 – When using Automation, a Skipped property returns a wrong value if "Find Hole" fails.

270606 - CRASHDUMP 2010 MR2 RELEASE CHyperFrame::Serialize (Unexpected File Format ErrorThen Crash).

271627 - CRASHDUMP: CPCDcommand::GetDTypeInfoList Part program opened from 2010 MR2 Custom is crashing PC-DMIS.

271216 - Imported XML file of Feature Based Measurement can't mark the relative commands of adjust filter.

109019 - PC-DMIS crashes when launched on a computer without any printing devices installed.

270814 - CRASHDUMP 2010 MR2 RELEASE : start_save_stats (28 occurrences)

5. Contact Hexagon Metrology

For further information regarding this release of PC-DMIS® 2011, please feel free to contact sales@wilcoxassoc.com or visit www.pcdmis.com.

Hexagon Metrology Technical Support can be reached by calling (800) 343-7933.