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RELEASE NOTES

PROCALV5 VERSION 5.4.0.1 TO 5.4.0.10

CALIBRATION MANAGEMENT SYSTEM

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RELEASE NOTES FOR PROCALV5, VERSION 5.4.0.1

These notes describe in detail what elements were changed during the release process of applicable modules for the ProCalV5 Calibration and Maintenance and Quality Management Systems.

1.1 RELEASE DETAILS

APPLICABLE MODULES

All application and system modules along with all documentation have been updated to version 5.4.0.1.

1.2 MODIFICATION DETAILS

- **Note: "IT#" stands for Internal Tracking number.**

ENHANCEMENTS

IT# 845: Change in the all date fields to add additional shortcut keys for the non-numeric date format.

IT# 913: Record additional documents on the calibrated item as historical data when creating a calibration, task or maintenance result record.

IT# 955: Changed database structure to allow for Training Module Reminders.

IT# 971: Included System Configuration Reports as part of standard package.

IT# 1240: Added configurable database connections for use of alternate Oracle schemas, databases, and passwords.

IT# 1327: Added configurable font colors for test readings that are out of calibration or control tolerance for immediate technician notification during calibration record entry.

IT# 1328: Added a Calibration grid popup menu for changing view options.

IT# 1333: Allowed date/time stamps to be viewed relative to client time zone on Oracle installations, with Time Zone labels for all installations.

IT# 1334: Added capability for development of Authentication Packages which authenticate user passwords against external systems (LDAP, Windows, etc.).

IT# 1358: Added configurable and automated non-compliance electronic reporting records for tracking failed, found out of cal, or late calibrations without generating maintenance work requests during calibration finalization.

IT# 1361: Added the ability to create filters and display more information on the Schedule Tasks tab of the Work Order screen.

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IT# 1434: Increase the size of the State fields and add Country fields to the Company, Manufacturer and Vendor tables.

CORRECTIONS

IT# 788: Corrected so that Task Work Description fields are locked down when corresponding Work Order is finalized and uneditable.

IT# 1201: Corrected so that the Document record screen is read-only on Mobile Workstations since Documents are not imported.

IT# 1270: Prevent deletion of user groups that are assigned to an approval policy.

IT# 1290: Corrected so that newly added Advanced Queries appear immediately in the query drop-down list on main record forms.

IT# 1297: Corrected Mass Update Utility so that if a save record is canceled during a warning that appears when the user switches to another record, the original record is brought back up instead of canceling the save completely and losing changes due to the navigation action.

IT# 1316: Corrected so that the user cannot inadvertently close the application while a report preview is building.

IT# 1324: Corrected access violation on Configuration Manager when clicking the "File - Reset Tree" menu item.

IT# 1342: Corrected so that during the deletion of an item through Change Control, the required fields are not enforced.

IT# 1349: Corrected the PM screen so that the default Keep on Schedule value is used during new PM additions.

IT# 1350: Corrected the Calibration screen to prevent the user from signing the last signature field on an auto-finalizing approval policy if the "Users Cannot Finalize Calibrations They Entered" option is enabled.

IT# 1362: Corrected processing of First Cal Date on items when using Change Control system.

IT# 1416: Corrected the system to restrict deletion of Instruments if they are currently a part of a loop record.

IT# 1426: Corrected Calibration Screen when using Approval Policies to prevent unauthorized modifications after an approval save action is canceled at Password or Modification Reason prompts.

IT# 1432: Corrected the Notifications section of the Reminders screen to not display acknowledged notifications.

IT# 1435: Correct the audit trail ID mapping when importing Maintenance Requests and Maintenance Results so that all audit trails are associated with the correct record.

IT# 1448: Corrected item screens to correctly restore the state of the "Mark for Deletion"/"Reset Deletion Mark" menu item when canceling changes on a Change Control copy of the record.

IT# 1472: Removed the unique index on the LOG table to prevent issues when two events happen at the same second.

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OBSCURE BUGS

There were no bugs fixed in this release that fall under the classification of *obscure*. An obscure bug is defined as a software bug occurring within a released version of a software product that does not lead to data destruction and does not require a work around because by its nature, it will only be encountered by a user under rare and inconsequential circumstances.

1.3 DOCUMENTATION

ENHANCEMENTS

User Manual and Online Help:

User Manual and Online Help combined for online access.

CORRECTIONS

Several minor corrections have been made in the User Manual.

CALIBRATION MANAGEMENT SYSTEM

RELEASE NOTES FOR PROCALV5, VERSION 5.4.0.2

These notes describe in detail what elements were changed during the release process of applicable modules for the ProCalV5 Calibration and Maintenance and Quality Management Systems.

2.1 RELEASE DETAILS

APPLICABLE MODULES

All application and system modules along with all documentation have been updated to version 5.4.0.2.

2.2 MODIFICATION DETAILS

- **Note: "IT#" stands for Internal Tracking number.**

ENHANCEMENTS

IT# 1457: Change in the Advanced Query selection criteria for the date field, have a formatted date field control available instead of having to enter the numerical format without any shortcuts.

IT# 1470: Add compliance reports to Event History Screen.

IT# 1572: Update Universal Conversion Program for 5.4.0.2 on all DB platforms.

IT# 1573: Change on the Calibration Screen, so that it processes item information as soon as the user selects an item to calibrate if the item is selected using the "Choose Item" screen.

IT# 1645: The List Records button will now pull up a full list of all records of a particular item type after a query which returns no records was executed.

CORRECTIONS

IT# 1295: Corrected so that the Max Password attempts by a user are correctly counted within an open session of the program.

IT# 1300: Corrected so that the user is asked for acknowledgement confirmation and acknowledgement note on the Acknowledgement dialog box.

IT# 1308: Corrected so that the user is able to open the PM screen, list records, open the labels screen, close it and hit the OK button without an error message on the Labels screen of the PM record.

IT# 1312: Corrected so that the Components of items which do match filter criteria should be displayed with an error icon on the first click of the filter button on the Configuration Manager:

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- IT# 1453:** Corrected so that during an assignment of an “Original and New” approval policy the CC record does not change until it is approved.
- IT# 1454:** Corrected so that when opening the Maintenance Result screen to a previously saved record that the header fields are write protected and that the last result viewed is correctly displayed.
- IT# 1468:** Corrected so that when adding a new Maintenance Request with cal specs, if the item has a PM with specs and it is chosen, the record should be saved with the PM specs not the default item specs on the Maintenance Request screen.
- IT# 1477:** Corrected so that when attempting to change a password when it is not old enough, the correct error is displayed.
- IT# 1478:** Corrected the global default audit value is set for compliance reports when saving in the System Options screen.
- IT# 1483:** Corrected so that when the “Force Reentry of Password During Record Save” and “Prevent Modification of Finalized Records” options are turned on, when a user is disabled from too many incorrect password attempts, enabling the user should not cause any access violations.
- IT# 1485:** Corrected so that when calculating outputs, input signal values are allowed to be outside of the specified group test range. Corrected so that the program properly calculates their equivalent value, which will be outside of the output range.
- IT# 1489** Corrected so that The next Due Date for a Calibration or Planned Maintenance is rolled past the Event Date when the “Keep on Schedule” option is turned on.
- IT# 1495:** Corrected so that when changing the labels for the following fields there are no errors: ‘Action Taken’, ‘Closed’, ‘Closed By’, ‘Compliance Report Type’, ‘Date Closed’, ‘Event Date’, ‘PCCompliance Rpt Report’, ‘Performed By’ and ‘Update Sub tables’.
- IT# 1496:** Corrected so that in the Test Types, any package that omits the Input Signal Column does affect the formatting of the spec grid on the calibration screen.
- IT# 1497:** Corrected so that after creating two (2) ‘filters’, saving and closing a work order record, attempting to reopen the record and ‘execute’ a filter, does not cause a message, ‘Cannot get Query Record’ to appear and that subsequent attempts do not cause an access violation.
- IT# 1499:** Corrected so that after opening several (3+) records when using multi-mode in the Calibration screen, modifying and saving them does not cause the error message, ‘Error on Screen: frmCalibration,msg:List index out of bounds (N)’....to appear.
- IT# 1500:** Corrected so that when adding a new test point group, input signals between -.5 and .5 do not round to zero.
- IT# 1501:** Corrected so that when changing the number of divisions in a spec group, the new values are saved to the spec groups table unless some other fields on the group are updated.

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IT# 1502: Corrected so that there is not be an error message stating that another user modified the record when a Master Record is saved after the user clicks 'Add New PM Record' the PM info tab, saves, and closes the PM, and then add note on the master record.

IT# 1505: Corrected so that on the PM screen, add a new record and only fill in the Item Type and Item Code fields then press add new record again. There should not be an error message saying the dataset is not in edit or insert mode.

IT# 1508: Corrected so that the find feature of the User Group screen works properly on records added since the screen has been opened.

IT# 1511: Corrected so when the user saves a new record with an approval policy, but does not check the original check box. The date signed fields for each signature are showing the date/time of the save, they should be null.

IT# 1519: Corrected so that in multi-mode, user-defined fields are populated with the correct value from the corresponding item record.

IT# 1522: Corrected so that in the Work Order Screen the task filters work for the Department and Status Fields.

IT# 1524: Corrected so that there is no error when changing from the non-numeric date format to a numeric format.

IT # 1527: Corrected Field Lengths on various fields under the System Options.

IT# 1528: Corrected so that when modifying a Test Instrument, clicking on 'List Records' and selecting a new record, there should not be an error message stating: 'Cannot focus a disabled window'.

IT# 1539: Corrected so that when saving a calibration record the user is not permitted to save with leading white space.

IT# 1543: Corrected so that when "Auto Recalculate Limits" is turned on in any Master Record, if the user adds a new test point but doesn't set the Input Signal value, and if they then attempt to enter an Output Signal value and hit tab the value is not removed from the grid.

IT# 1544: Corrected so that the compliance report options for new records should default to the same values as other similar fields on the user group screen.

IT# 1545: Corrected so that the value is changed in the database and audited when a test point has a High Limit of $0.5 > x > 1.0$, and the resolution is changed to 1.

IT# 1548: Corrected so that when the Maintenance Result screen is Read-Only, the General Info and Notes tabs should not be disabled. The user should be able to use the scroll bar functions.

IT# 1557: Corrected so that when adding a note to a task record the "Task ID #" prefix is not added to the audit record. When looking at the audit from the work orders screen, since there is no task prefix it looks like the note was added to the work order.

IT# 1558: Corrected so that with multiple screens open in ProCal if you activate a Master record screen by clicking on the title bar it does not maximize the window.

IT# 1561: Corrected so that the proper rpt file is used for the default document report.

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Release Notes Versions 5.4.0.1 to 5.4.0.10

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- IT# 1562:** Corrected so that the user can set an Approval policy that is set not to auto-approve.
- IT# 1567:** Corrected so that the User –Defined labels are functioning properly.
- IT# 1568:** Corrected so that the Compliance Report Type list screen should be quick type or drop-down only.
- IT# 1569:** Corrected so that when deleting a Company record the associated user Notifications are deleted as well.
- IT# 1570:** Corrected so that if there is an unmodified document record and the user tries to save the record, the title bar does not reflect a save and the audit trail does not show the Last Modified date is changed as well as the Modified By field.
- IT# 1571:** Corrected so that when using the approval policies and then clearing them, all the approval boxes are removed.
- IT# 1574:** Corrected the modification captions displayed on the Calibration Points tabs in Master Records.
- IT# 1575:** Corrected so when editing an Equipment record, if the user clicks the Add New PM Record button without saving their changes, when they return to the Equipment screen after saving the PM, there isn't a Database Error in Form Activate occurs with the message "Couldn't perform the edit because another user changed the record."
- IT# 1576:** Corrected so that pressing the New Button twice in a row on the Group Records screen should not cause a null value insertion error.
- IT# 1579:** Corrected so that in the empty database the Param Value field in Authentication Params table is not set to "Allow Zero Length". Other database platforms allow null here.
- IT# 1581:** Corrected so that saving of a policy with duplicate signature meanings is not allowed.
- IT# 1582:** Corrected so that when in multi-mode with calibrations of different types open, the new button should not cause errors.
- IT# 1584:** Corrected so that with 'protect exported records' turned on, Approval Policy Combo boxes should be protected on exported records.
- IT# 1585:** Corrected so that the Available Items list is emptied when the user cancels a change on the System screen.
- IT# 1588:** Corrected User Transaction already in Progress error when there is a duplicate key violation in the Employee Record.
- IT# 1609:** Corrected so that the Euro Decimal format in the user defined variables is functioning properly.
- IT# 1610:** Corrected so that the historical P+ID and Revision number on the calibration screens for instruments and loops are correct.
- IT# 1612:** Corrected so that there aren't any more issues when retrieving and saving Calibrations, Work Orders and items with user variables or approvals when the Current Company's name has an apostrophe character in it.
- IT# 1621:** Corrected so that when on the PM Screen's calibration specs when the CC System is in use a "Cannot Focus" error does not appear.
- IT# 1622:** Corrected so that when trying to save a blank User Defined Label a Duplicate Key error does not appear.

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IT# 1623: Corrected so that when saving a PM record after the master record has been approved, a message does not appear.

IT# 1624: Corrected so that when clicking on the “Approved” box in the Instrument screen, the caption above should show the record as “Modified”.

IT# 1626: Corrected so that the Cal Updates list on the calibration screen displays the compliance reports that were generated as a result of the calibration.

IT# 1629: Corrected so that the Calibration screen’s process list is generated on an item if an “Item Not Found” error is detected first.

IT# 1631: Corrected so that Configuration Manager filter problems when applying a “Next Calibration Date” filter once

IT# 1642: Corrected database error when clicking the “Insert before Current Test Point” menu item multiple times.

IT# 1646: Correction to make the “Password Expiration Days” have a higher value than the minimum password age.

IT# 1664: Correction to behavior of a blank filter. Execution of a blank filter will now reset the filter status.

IT# 1676: Correction to grammar errors on List records items.

IT# 1681: Correction to grammar errors on various error messages.

IT# 1682: Correction to the Acknowledged Message screen to allow the Note to be recorded in the database.

IT# 1684: Correction to grammar errors on the Equipment screen.

IT# 1686: Correction to ensure the Copy button is not visible on the List Records screen in Loop records.

IT# 1687: Correction to disable various fields on the Instrument and System screens when in “Read Only” mode.

IT# 1694: Correction to prevent required User Defined signature fields from being left blank with manipulation of the originator check box.

IT# 1696: Correction to add saved Filters to the drop-down menu without the user having to close and reopen the record.

IT# 1697: Correction to grammar errors on the Work Order screen.

IT# 1707: Correction to allow the user to save multiple calibration records of different item types while using Multi-Mode.

OBSCURE BUGS

There were no bugs fixed in this release that fall under the classification of *obscure*. An obscure bug is defined as a software bug occurring within a released version of a software product that does not lead to data destruction and does not require a work around because by its nature, it will only be encountered by a user under rare and inconsequential circumstances.

CALIBRATION MANAGEMENT SYSTEM

2.3 DOCUMENTATION

ENHANCEMENTS

User Manual and Online Help:

User Manual and Online Help combined for online access.

CORRECTIONS

Several minor corrections have been made in the User Manual.

CALIBRATION MANAGEMENT SYSTEM

RELEASE NOTES FOR PROCALV5, VERSION 5.4.0.3

These notes describe in detail what elements were changed during the release process of applicable modules for the ProCalV5 Calibration and Maintenance and Quality Management Systems.

3.1 RELEASE DETAILS

APPLICABLE MODULES

All application and system modules along with all documentation have been updated to version 5.4.0.3.

3.2 MODIFICATION DETAILS

- **Note: "IT#" stands for Internal Tracking number.**

ENHANCEMENTS

IT#1739: DataExchange API for system integration was developed.

IT#1745: ProCal screens were given a more modern appearance utilizing 'skins'.

IT#1786: Enhance the functionality of the Configuration Manager to load data in a thread, add grouping options, add work items and have more useful context menus. The Configuration Manager is now the ProCal Explorer.

IT#1805: Added LE Registration.

CORRECTIONS

IT#1357: The Max value of the following fields now unlimited, were 365: 'Failure Alert Due Days', 'Found Out of Cal Alert Due Days', 'Period'.

IT#1373: Put Reminders screen into a separate thread to increase speed.

IT#1430: (SQL Server Only) System no longer locks on save when setting the Status to the closed work status on Work Order Screen and in the same transaction adding tasks.

IT#1703: Original decimal format is maintained for As Found and As Left readings and no longer reverts to scientific notation if too many decimal places are entered.

IT#1708: Corrected grammar in the warning message for restricting unapproved items from calibration.

IT#1722: Corrected grammar in 'Password Expiration must be greater than Minimum age error message'.

IT#1727: A User with Read Only access to Document Records is no longer able to click Linked File '...' button and enter a URL.

CALIBRATION MANAGEMENT SYSTEM

- IT#1728:** (SQL Server Only) System no longer locks up when applying changes to subtables in the Test Instrument screen.
- IT#1734:** Import/Export – An invalid CC import attempt is no longer made for an item when the item follows another item alphabetically that has a Change Control record which should be verified and attempted on import. This prevents excess data transfer.
- IT#1735:** Corrected automatically calculated output values when the Input Low Range is > than the Input High Range.
- IT#1746:** (SQL Server Only) The program no longer freezes when opening the same PM Record 2 times from a Master Record PM tab.
- IT#1747:** Corrected to allow negative integer values for Test Type fields.
- IT#1749:** Corrected error messages on the Work Order screen.
- IT#1754:** Incomplete Calibrations no longer appear on trending reports.
- IT#1756:** Import/Export – Multiple Company selection for “Import into Original Company” option is now disallowed.
- IT#1758:** Changed error message when trying to save a blank calibration record, to be more consistent with the rest of the application.
- IT#1759:** Corrected the label for the Instrument Name in the Configuration Manager.
- IT#1763:** Creating a Document as active in one Company is no longer prevented when that Document / revision number is active in another Company.
- IT#1764:** Corrected Error when saving a compliance report record when a record list is invoked.
- IT#1772:** Added message to save a new record when changing to another record from the list screen on the Maintenance Result screen.
- IT#1782:** Added warning if the user tries to save a Maintenance Result for a PM without entering an “End Date”.
- IT#1783:** “User List” report now shows Departments if no associated Approval Policy exists.
- IT#1791:** Import/Export – Added ability to import a calibration record if the item record was exported again after the calibration record was entered.

OBSCURE BUGS

There were no bugs fixed in this release that fall under the classification of *obscure*. An obscure bug is defined as a software bug occurring within a released version of a software product that does not lead to data destruction and does not require a work around because by its nature, it will only be encountered by a user under rare and inconsequential circumstances.

CALIBRATION MANAGEMENT SYSTEM

DATABASE

ENHANCEMENTS

No Enhancements have been made to the Database for this release.

CORRECTIONS

No Corrections have been made to the Database for this release.

3.3 DOCUMENTATION

ENHANCEMENTS

User Manual and Online Help:

IT#1739: A User Manual was developed for the DataExchange API.

IT#1745: The User Manual was enhanced to provide information and guidance on the use of ProCal "Skin" appearance functionality.

CORRECTIONS

Several minor corrections have been made in the User Manual.

CALIBRATION MANAGEMENT SYSTEM

RELEASE NOTES FOR PROCALV5, VERSION 5.4.0.4

These notes describe in detail what elements were changed during the release process of applicable modules for the ProCalV5 Calibration and Maintenance and Quality Management Systems.

4.1 RELEASE DETAILS

APPLICABLE MODULES

All application and system modules along with all documentation have been updated to version 5.4.0.4.

- Main Program updated to version 5.4.0.4
- Pcbase package updated to version 5.4.0.4
- Mass Update Utility updated to version 5.4.0.4

4.2 MODIFICATION DETAILS

- **Note: "IT#" stands for Internal Tracking number.**

ENHANCEMENTS

There were no enhancements made for this release.

CORRECTIONS

IT#1867: Corrected so that Approval Policy screen Check box values show in the database.

IT#1928: Corrected to use the correct character case when finding the User ID in the Session table when using an external Authentication Method.

IT#1954: Replace the User of the FormatFloat() function for converting floating point numbers to strings with PCFormatFloat to use 'Always Up' rounding logic. This Correction includes **IT#1961 & IT#1962**.

Fields Formatted by Format Float Function

The existing Delphi FormatFloat() function, used to covert floating point number to formatted strings, does not use a consistent or documented rounding algorithm.

A new function, PCFormatFloat() will replace all calls to FormatFloat(). The rounding logic for PCFormatFloat() will use an 'Always Up' algorithm. This means if the first non-significant digit to the right of the decimal place is 5 or greater the number will round up towards infinity (down towards negative infinity for negative number) and 4 or smaller will be truncated.

CALIBRATION MANAGEMENT SYSTEM

IT#1961: Plus/Minus column on all Spec grids reformat on cell exit to be consistent with other fields displayed on grids. This Correction includes **IT#1954 & IT#1962**.

IT#1962: Range and Reading Accuracy % columns on Spec and Calibration grids reformat on cell exit to be consistent with other fields displayed on grids, and maintain these values for limit calculations and when the grid cell is re-highlighted by the user. This Correction includes **IT#1954 & IT#1961**.

IT#1964: (Mass Update Utility) Corrected so that modifications made under Tracker #1206, which set appropriate grid columns to 0 when the accuracy changes, are incorporated into the Spec Frame.

OBSCURE BUGS

There were no bugs fixed in this release that fall under the classification of *obscure*. An obscure bug is defined as a software bug occurring within a released version of a software product that does not lead to data destruction and does not require a work around because by its nature, it will only be encountered by a user under rare and inconsequential circumstances.

DATABASE:

ENHANCEMENTS

There were no enhancements made to the database for this release.

CORRECTIONS

No Corrections have been made to the Database for this release.

4.3 DOCUMENTATION

ENHANCEMENTS

User Manual and Online Help:

There were no modifications made to User Manuals for this release.

CALIBRATION MANAGEMENT SYSTEM

RELEASE NOTES FOR PROCALV5, VERSION 5.4.0.5

These notes describe in detail what elements were changed during the release process of applicable modules for the ProCalV5 Calibration and Maintenance and Quality Management Systems.

5.1 RELEASE DETAILS

APPLICABLE MODULES

All application and system modules along with all documentation have been updated to version 5.4.0.5.

5.2 MODIFICATION DETAILS

- **Note: "IT#" stands for Internal Tracking number.**

ENHANCEMENTS

There were no Enhancements for this release

CORRECTIONS

IT#1371: Mass Update – Problems when not using change control system with required fields.

IT#1407: On the PM Screen, if CC is on. Form Activate needs to check if the CC state has changed (due to modifications made on another screen) since the last time the form was Active

IT#1413: Import/Export – “By Work Due” option does not handle blank dates well.

IT#1418: Import/Export – “By Responsibility” option does not export Equipment records that otherwise qualify.

IT#1625: Loop screen should verify the existence of the Instrument during the save of new components

IT#1662: Save a Calibration with no notes, without closing make a modification and resave – an audit detail for the NOTEID being change from 0 to blank/null is present. This should not happen

IT#1705: When deleting a PM with the Master Record open, the PM list on the Master records needs to be updated or the program becomes non-responsive

IT#1709: Approval signatures do not get cleared when updating a test point and returning directly to the approval tab.

IT#1711: USERLOGON field LOGONDATE is actually entered as a Time Only

IT#1713: The help screen for Find Maintenance Result Record screen retrieves the Finding Maintenance Records help topic which is slightly inaccurate

IT#1724: Error on system screen after adding a new PM record.

IT#1729: Required fields check is not performed for UDV signature fields if the signature was applied in the same save as the Originator signature.

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- IT#1730:** Mass Update Utility – Cannot clear the Location and Building field at the same time.
- IT#1732:** Company Screen, if the user uses the *New* button to change the Manual Due Date Extension Alert Type field, the modified flag is not set
- IT#1733:** Email Utility – Changes to the Company Name label are not reflected in the Notifications.
- IT#1736:** (SQL Server Only): On an Item in CC with 3 or more PMs, mark all PMs for deletion and approve the master record. The System Locks up on the PM deletion
- IT#1738:** With CC on and a master record (any but instrument) open, open the company screen. Get an error saying you must close the master record screen before changing this option. The OnClick event handler of the CC check boxes is triggering when it shouldn't
- IT#1742:** Fix spelling error (Accuracies) on the Calibration Points tab, restore defaults button
- IT#1755:** Cannot finalize a work order if the company's closed and cancelled work statuses are the same
- IT#1766:** Mass Update Utility – Grouping buttons don't work correctly.
- IT#1769:** Mass Update Utility – Selection causing errors when 'Update Specs' is used.
- IT#1787:** Test point groups disappear from PM screen if changing the "Use Default Specs" box after saving and then resaving without leaving the screen.
- IT#1795:** When entering a Calibration record that uses a Test Type and the package does not correctly load the user should be prevented from saving the record.
- IT#1807:** When adding a new company, the Reminders screen may show the previous company's reminders if you don't fill in the company name in time.
- IT#1808:** Remove old, invisible query items from the company screen (dead code, does not affect functionality).
- IT#1810:** Errors when saving a TTP with more than two "Restrict Edit" checkboxes checked.
- IT#1811:** Correction: Set max length of Method Name field to 50 and the "Description" field to 255 on the Authentication Methods.
- IT#1827:** You must leave the "Policy Name" field on the Approval Policy screen before the record is marked as modified.
- IT#1828:** Saved Advanced Queries do not show up on list on the Compliance Reporting Screen until it is reopened.
- IT#1831:** Universal Conversion Program – when converting from SQL Server the target string is built assuming the pc2kus01 user is used for the login.
- IT#1835:** The three list fields on the Department screen don't get refreshed when you close the screen with the "X" button so they are there when you reopen the screen.
- IT#1836:** "Can't Focus on an Invisible Component" error when typing non-numeric characters into the "Days to Keep History" field and changing tabs then saving the record.

CALIBRATION MANAGEMENT SYSTEM

- IT#1842:** Correct sidelines in the User List Report.
- IT#1844:** Don't allow equipment deletion if the equipment record is on a CC record.
- IT#1845:** A new Loop, System, Test Instrument, Calibration, Work Order or Compliance Report does not show up in the current list of items unless you re-open the query.
- IT#1846:** You must tab off of a field in the Maint Request screen before the record realizes the field has been set, causing required field messages to be erroneously displayed.
- IT#1851:** Compliance Reports, Maint Results and Tasks are not deleted when deleting an item associated with them.
- IT#1858:** Assigning documents to a System CC record assigns them to the production copy of the record.
- IT#1860:** Inconsistent errors when saving a blank equipment record.
- IT#1863:** The Employee screen always starts up with the ADMIN user, causing problems when the Group screen is active at the same time.
- IT#1864:** The background image does not reappear when returning to the home screen from the User-Defined Variables screen.
- IT#1866:** Remove unnecessary caption on Vendor screen.
- IT#1867:** Check boxes on Approval Policy screen was not showing value in the database.
- IT#1868:** Audit Trail tree view was not set as Read-Only, so the text was editable (not affecting the db values though).
- IT#1870:** In Multi-Mode on the calibration screen, the roll dates box sometimes is generated using the wrong item.
- IT#1875:** The Delete PM function updates Maintenance Request that reference the PM for cal specs. However, when this updated is performed neither the LASTMODIFIED or MODIFIEDBY fields are updated or audited.
- IT#1882:** Reports such as Master/Calibration/Worksheet:ID and description fields don't fit max number of characters, or don't word-wrap either. All fields should be able to accommodate in some way the maximum character length in all reports.
- IT#1890:** Make the Work Order Date Closed a timestamp.
- IT#1891:** The Audit Trail tree view is missing the printing popup menu.
- IT#1892:** The Audit Trail report record's Selection Table field is set to default in the empty database. It should be blank.
- IT#1899:** Changing only the order of the Instruments in the Loop screen does not get saved when you save the record.
- IT#1902:** Do not allow the "Cancelled" and "Closed" work statuses on the company to be the same value.
- IT#1904:** The System Option report does not handle a zero Default Input and Spec Resolution setting.
- IT#1905:** The Users and Security report omits the "Instrument Approval Access" field.
- IT#1907:** Audit Trail Report use the PC2kAudit.filename field for the report heading instead of the actual parameter.
- IT#1908:** Correct the Allowable Deviation and the As Found Deviation formulas in the Trending Reports

CALIBRATION MANAGEMENT SYSTEM

- IT#1910:** The Detailed and Summary Calibration reports do not display incomplete calibrations correctly.
- IT#1911:** Date field shortcut hints are not popping up on several screens
- IT#1914:** Correct formatting of “Planned Maintenance ID” and “Maintenance Request ID” on the “Completed Task Report”.
- IT#1915:** Completed Task Report: Work Description field should be moved to the bottom of the section. It's formatted as Can Grow and overlaps the fields below it.
- IT#1916:** The position of Loop Instruments is not audited.
- IT#1920:** Mass Update Utility: The ‘Validate Update’ button only displays results if the last item in the list fails a check.
- IT#1928:** Allow logon after program crashes with lower-case character user IDs, when using an external Authentication Method.
- IT#1929:** Avoid program crash during “Delete Current Test Point” operations.
- IT#1937:** When a location is clear the building combo box should also be cleared
- IT#1939:** Calibration Alert Report: The instrument sub-report is suppressed if empty, but the loop, system and test instrument sub-reports aren't. (Same as Failed Calibration Report). Should be consistent.
- IT#1954:** Rounding issues also fixed in 5.4.0.4
- IT#1958:** The Company Configuration Report only lists 1 required field regardless of the actual # of required fields.
- IT#1960:** Create a new calibration record, and enter readings or Test Type settings to make at least one group fail, but save as incomplete. Without closing the screen, hit modify specs and modify an In Val value. Save without tabbing off the field. Warnings appear, but as long as you can get through them without the system automatically setting the Failed flag, the record is then saved with IncompleteCal set to False.
- IT#1963:** Calibration Screen: Auto-Recalculate Limits ON for current test point group. The application does not automatically recalculate limits when Accuracies (Range Acc %, Reading Acc % or Plus / Minus) are changed at a test point. It only checks for updates to the Out Val
- IT#1972:** Worksheet Specs/Test Point reports: when Pct of Reading Range is used and separate AF/AL is turned on, the sheet has two rows of data in one report section. The Stated Accuracy value overlaps with the 'as left' extra row of the test point.
- IT#1982:** Calibration Screen: Prevent Modification of Finalized records on, record finalized. Add a note to record in a state where the Status modification Yes/No prompt would appear - save record. Status mod from Cal record should not be allowed if the record is finalized and preventing modification of finalized records is on, even if it is one of the pre-set statuses.
- IT#1983:** Test Instrument screen, General Info tab, Instrument Types list. Open a record which uses a particular Instrument type. Then add a new record and on the first save, assign that same Instrument type plus others. Save the record initially. The Instrument Type that was used by the previously opened record is NOT saved to the list, but DOES appear in the Audit Trail, incorrectly. Only the newly assigned items are saved.

CALIBRATION MANAGEMENT SYSTEM

IT#1984: If the user desires to use a User DSN for PROCAL54X or PROCAL54I for exporting and importing, the "Find" button does not point the User DSN to the newly requested location. This is due to the SetODBC function - The TRegistry object needs to be closed and then reopened to the ODBC/ODBC.INI file. Currently it will create a new key under ODBC/ODBC.INI/SOFTWARE/ODBC/ODBC.INI.

IT#1985: The notifications thread causes excessively high processor usage.

IT#1994: Import / Export – Associated documents are not transferred with calibration records in either direction.

IT#1995: Data Exchange – Having a blank modification reason causes the exchange to prematurely exit with a null pointer error.

IT#1996: Data Exchange – With both Location & Building lists configured as 'MUST ADD', attempting to insert a new building that also has a new location is rejected.

IT#1997: Data Exchange – The setup scripts do not create a synonym for the D_LOCATION table

IT#2000: Add New System Level Options added in 5.4.0.3 to the 'System Options' Configuration Report.

IT#2002: Properly update the User Logon record when a user logs back in after a program crash and an authentication method is used.

IT#2003: Archive Utility – Archive & Restore Item Docs with Calibration Records.

IT#2042: Read Only users with Finalization access to Compliance Reports and Calibration screens were able to un-finalize a record even if the "Prevent Modification of Finalized Records" System Option was enabled.

OBSCURE BUGS

There were no bugs fixed in this release that fall under the classification of *obscure*. An obscure bug is defined as a software bug occurring within a released version of a software product that does not lead to data destruction and does not require a work around because by its nature, it will only be encountered by a user under rare and inconsequential circumstances.

5.3 DOCUMENTATION

ENHANCEMENTS

CORRECTIONS

User Manual and Online Help:

There were no changes made to the User Manual

CALIBRATION MANAGEMENT SYSTEM

RELEASE NOTES FOR PROCALV5, VERSION 5.4.0.6

These notes describe in detail what elements were changed during the release process of applicable modules for the ProCalV5 Calibration and Maintenance and Quality Management Systems.

6.1 RELEASE DETAILS

APPLICABLE MODULES

All application and system modules along with all documentation have been updated to version 5.4.0.6.

6.2 MODIFICATION DETAILS

- **Note: "IT#" stands for Internal Tracking number.**

ENHANCEMENTS

There were no Enhancements for this release.

CORRECTIONS

IT#1794: "Grid index out of range" error can occur on the calibration screen when navigating from one record to another if the original record has a Test Type that has omitted the Input Signal column in the calibration point grid.

IT#1980: Check the record stored with the calibration record when the test instrument is assigned to the calibration record when checking for an out of calibration test instrument, not the actual test instrument record.

IT#2059: Calibration Alert Report - subreport selection formula for Instrument calibrations incorrectly filters for the 'Loop' Item Type.

IT#2065: Do not allow a zero value for the "Check for Notifications Every X Minutes" in the system options.

IT#2067: If more than one Test Type is on a calibration, the visual prompt for wrong Test Type can be displayed if warnings occur during saving of the record.

IT#2068: Correct the Man Hours label in the empty database.

IT#2070: Correct the pop up grid for exporting lists to Excel in the Maintenance Result, Maintenance Request, Work Orders and Tasks screens.

IT#2074: Correct saving of item records when changing resolutions and plus/minus values and using very small numbers and high resolutions.

IT#2092: Protect the Modify Specs and Recalculate buttons on the calibration screen after finalizing the record.

IT#2105: Calibration Screen: Data corruption can occur when using a Test Type that does not use Test Points with multiple test groups.

CALIBRATION MANAGEMENT SYSTEM

IT#2106: The hot link for the SOP linked file on the calibration screen is not active until after you change the SOP.

OBSCURE BUGS

There were no bugs fixed in this release that fall under the classification of *obscure*. An obscure bug is defined as a software bug occurring within a released version of a software product that does not lead to data destruction and does not require a work around because by its nature, it will only be encountered by a user under rare and inconsequential circumstances.

6.3 DOCUMENTATION

CORRECTIONS

Several minor corrections have been made in the User Manual.

CALIBRATION MANAGEMENT SYSTEM

RELEASE NOTES FOR PROCALV5, VERSION 5.4.0.7

These notes describe in detail what elements were changed during the release process of applicable modules for the ProCalV5 Calibration and Maintenance and Quality Management Systems.

7.1 RELEASE DETAILS

APPLICABLE MODULES

All application and system modules along with all documentation have been updated to version 5.4.0.7.

7.2 MODIFICATION DETAILS

- **Note: "IT#" stands for Internal Tracking number.**

ENHANCEMENTS

IT#1849: Upgraded ProCalV5 to use Crystal Reports 9, 10 or 11 version reports, with backward compatibility to 8.5.

IT#2128: Changed the available Task list during form Activate or on a New Record so it does not build & removed the call the Refresh List button event handled from the Item Type Check Boxes.

CORRECTIONS

IT#1641: Corrected the Calibration Screen so after the calibration record is finalized using a policy, and if the record is further modified by some user other than the originator, this user becomes the new originator rather than a reviser to the record.

IT#1714: Corrected so # of invalid login attempts for all user IDs tried in a login session is kept track of.

IT#1919: Corrected so password reentry occurs on all list screens such as Signal Type, Status, Maintenance Type, etc.

IT#1927: Corrected so that when a calibration range goes down (high to low) from the "In Low Range" to the "In High Range" the application's check for Input Values within range accounts for the different direction and the item does not become grayed out. The application now checks the direction of the range in order to make the appropriate comparison.

IT#2046: Corrected so that when Warn on Out of Cal Test Instruments is on and warning selected Test Instrument's Next Cal Date is blank/null, the software logic now skips these records, rather than considering this to be less than (<) the Calibrated date.

IT#2056: Corrected the Email Reminder Utility to include Compliance Report and Training Reminders

IT#2071: Corrected the Calibration Screen so that when a modification is made to Man Hours and saved, when the user clicks the Next record button, the next record is displayed.

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- IT#2073:** Corrected the Archive Utility so that the timer for checking the session time out is incremented by 1 second.
- IT#2094:** Corrected the Oracle system, Document record screen so when the user has data in the Procedure tab and removes all data from the memo box and saves, no error messages appear.
- IT#2127:** Corrected the System screen auto-approval function with approval policies so that when all signatures required for the approval policy are affixed, the record is approved automatically.
- IT#2129:** Corrected the comparison logic on the Calibration Screen so all floating-point numbers are converted to Integers before being compared. This is to prevent data that is at the low or high limit exactly from failing.
- IT#2137:** Corrected the Maintenance Result report by fixing various problems with the report.
- IT#2152:** Corrected Low and High Range fields so they allow more than 6 digits to the left the decimal point.
- IT#2156:** Corrected the Mass Update Utility key violation on some SQL Server systems.
- IT#2162:** Corrected the System Options screen drop-down combo fields so the key press or key down events reject the use of the delete key for quick-type.
- IT#2165:** Corrected the Status Screen so that if the previous status the user was on was the Initial Production Status, the "Indicates an Active Status" box does not remain disabled when a new status is being entered. Upon clicking Save to do a new record, the checkbox is reset back to an enabled state.
- IT#2167:** Corrected so that when the user makes a change and saves a Test Instrument record and tries to navigate to the next record, the next item on the list appears. All screens for master, calibration and result records are able to navigate consistently even after modifications are made and saved.
- IT#2174:** Corrected so that the new button for the Location field on master records automatically places the value in the field when the user saves a new Location.
- IT#2176:** Corrected the Compliance Report screen so that the Report ID field does not allow modifying.
- IT#2180:** Corrected a security flaw. The login logic does not attempt to validate the passwords of disabled users.
- IT#2184:** Corrected the Reminders in a multi-company system when Remind at Startup is on and Remind at Company Change is off so when the user opens a Reminder item that points to a different company, or changes companies manually, the Reminders are not cleared. The Reminders screen is now smart enough to maintain what is there and simply ends up reloading the same stuff on company change.
- IT#2186:** Corrected the Document Screen so it allows users to enter a procedure or any memo on the first save and get no error messages.
- IT#2187:** Corrected the Oracle system, Document Screen to allow users to blank out any memo in Oracle and not cause any errors.
- IT#2197:** Corrected the Field Calibrator Utility so that there is no error when uploading items with IDs that are of invalid format.
- IT#2205:** Corrected so that the System works using the European number format (1.000,00).

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IT#2206: Corrected so that the rounding in the Control % field on all master and calibration records is functioning correctly when .05 is entered to the right of the decimal.

IT#2211: Corrected the Oracle system, the problem with case sensitive finds of the Location record. The lookup & save on the Location screen works when there are multiple locations with the same spelling, but different letter cases.

OBSCURE BUGS

There were no bugs fixed in this release that fall under the classification of *obscure*. An obscure bug is defined as a software bug occurring within a released version of a software product that does not lead to data destruction and does not require a work around because by its nature, it will only be encountered by a user under rare and inconsequential circumstances.

DATABASE:

ENHANCEMENTS

There were no enhancements made to the database in this release.

CORRECTIONS

IT#2136: Corrected the Selection Table in the REPORTS table of the empty database

7.3 DOCUMENTATION

ENHANCEMENTS

User Manual and Online Help:

Section 2: Minimum Requirements for ProCal V5.4.0.7:

Access: Minimum RAM changed from 128 MB to 256 MB and recommended RAM changed from 256 MB to 512 MB.

Oracle: Minimum RAM changed from 128 MB to 256 MB.

SQL Server: Minimum RAM changed from 128 MB to 256 MB and recommended RAM changed from 256 MB to 512 MB.

Section 31: Reporting System: Updated the user manual by removing references to Seagate Software and changing it to Business Objects and modifying documentation and screen prints which were of the old reporting system. Made modifications noting that the reporting system is now compatible with Crystal Report 8.5 or above.

Section 32: Setting Up New Reports: Updated the user manual by removing references to Seagate Software and replacing it with Business Objects. Made modifications noting that the reporting system is now compatible with Crystal Report 8.5 or above.

CORRECTIONS

Several minor corrections have been made in the User Manual.

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Release Notes Versions 5.4.0.1 to 5.4.0.10

CALIBRATION MANAGEMENT SYSTEM

RELEASE NOTES FOR PROCALV5, VERSION 5.4.0.8

These notes describe in detail what elements were changed during the release process of applicable modules for the ProCalV5 Calibration and Maintenance and Quality Management Systems.

8.1 RELEASE DETAILS

APPLICABLE MODULES

All application and system modules along with all documentation have been updated to version 5.4.0.8.

8.2 MODIFICATION DETAILS

- **Note: "IT#" stands for Internal Tracking number.**

PRODUCT:

- Main Application
- Mass Update Utility
- Import/Export Utility
- Archive Utility

ENHANCEMENTS

IT#1721: Add ability to copy the current test point group as a new group within a set of test point groups, available from the Edit menu.

IT#1930: Import/Export – Add additional filter for Test Instrument selection by existing Advanced Query or built on-the-fly query.

IT#1931: Import/Export – Add additional filter for Test Instrument selection by multi-select lists of Responsible Technicians, Statuses and Departments.

IT#1933: Import/Export – Always include System Administrator Users for export, allow password reset only on Mobile Workstation database.

IT#1934: Import/Export – Attempt to limit actual number of user groups sent during export when user groups purely for Approval Policy may not be needed to be present in the mobile environment, where most approvals are not allowed.

IT#2061: Import/Export – Optionally save and automatically load the export filtering options selecting by the user during their last export on a given workstation, to expedite the processing of the export.

IT#2271: Allow double-click to Open Selected Item in ProCal Explorer if no child items appear.

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CALIBRATION MANAGEMENT SYSTEM

- IT#2301:** Add “Work Due by Location” and “Work Due by Department” filters to the ProCal Explorer.
- IT#2302:** Add pop up menus to the ProCalV5 Explorer for “Expand Selected” and “Expand All” that will expand the appropriate nodes when selected.
- IT#2303:** Automatically save to the registry the last filter a user runs in the ProCalV5 Explorer to be used as the default the next time that user opens the Explorer.
- IT#2397:** Enhance the Calibration screen so that any Test Types that keep the Low Limit & High Limit columns visible will have the out of spec font colors applied to the As Found & As Left columns when the numbers are out of limit.

CORRECTIONS

- IT#1815:** Calibration Screen: In multi-mode the button for the 1st calibration entered doesn’t update the ID in the caption until another cal is entered; the menu never updates.
- IT#1948:** Fix exception handling logic to make all applications close more gracefully when network errors occur.
- IT#1988:** Import/Export Utility: Test Instruments stored in a service company, non service company to do calibrations in with Only Show Active Test Instruments turned on – export data include the service company’s test instruments. The Test Instrument list for new calibrations doesn’t get the service companies because the STATUS list is not exported with the service company data.
- IT#2101:** Deleting a Frequency did not update the Main listing so the deleted value is available on all forms until a restart. The list is refreshed automatically
- IT#2130:** Attempting the change the Review Frequency on a document (all review dates must be populated) caused a ‘Dataset not in edit or insert mode’ error. Allow the field to be changed without errors.
- IT#2140:** Fix the suppression formula on the Accuracy fields in the Test Instrument Calibration Report (Specs/Test Point) report.
- IT#2182:** On all records that have Test Groups (Master or Calibration) do not always go back to group 1 on a save. The current group should be maintained.
- IT#2196:** Compliance report screen: When you create an Action Taken AND sign off as the Originator on the first save of a compliance report (conformance report), the Signed By Name field is left BLANK even though the originator field is technically signed. If a mod is made and saved without the user touching the originator box, it is re-signed automatically but still the name is not filled in.
- IT#2200:** Use a Test Type (on any item) that omits a field that has a company default. Changing the company default value then causes a modification to trigger during navigation on any record that uses the Test Type.
- IT#2203:** While testing Task List Test Type – Insert Before Current Test Point – the Control Limit columns appear until you save the record. They should not appear if they are not supposed to.
- IT#2225:** Deleting a System with Change Control on which contains multiple components caused a system lock.

CALIBRATION MANAGEMENT SYSTEM

IT#2228: When finalizing a calibration, using an approval policy signature where the calibration finalization will generate a compliance report, the SQL Server system locks up upon saving the signatures to the database.

IT#2229: CC Processing on Test Instruments with Approval policies sometimes causes a "Connection busy with results for another hstmt..." error when signing the originator.

IT#2240: Make sure the reminder thread is created before attempting to access its methods, preventing an "Access Violation" error.

IT#2256: Import/Export Utility: Change Control (CC) turned on for the item type. Export an item that has a PM (Planned Maintenance) record. Initiate CC and make a modification on Mobile. Import the data. PM record's CCPLANNEDMAINT record is not imported, but should be. This causes errors when the CC copy is approved.

IT#2259: Rewrite CC Processing logic to eliminate SQL Server locking during approvals.

IT#2268: On the Work Order Screen, when filtering Tasks by Item Type, Loops always show up.

IT#2274: Ability to add a new calibration maintenance type for an item with specs and save the new record.

IT#2285: Fix the "View Selected PM Record" button on the Location screen so that it actually opens the PM record.

IT#2290: Prevent entering of an ID if the user selects "General Service" on the Task screen, and allow entry of an ID if the user elects a different item type after selecting "General Service".

IT#2294: Cancelling changes on PM screen should reset the notes modified flag.

IT#2309: Include the OUTPUTSIGNAL TYPE and DESCRIPTION in auditing of test points on all master records & PM screen.

IT#2315: On the Work Order screen, using multi-select to assign tasks only removes the 1st selected task from the available list, allowing the same item to be assigned multiple times.

IT#2316: Modify a record, go into list mode, select a record to navigate to and save when asked. The following screens generate errors during save: Loop, System, Test Instrument.

IT#2323: Corrected so that if a User Defined Label for a ProCal Explorer filter is changed (Department, Location, etc.) while the explorer is open, no errors occur and the label is updated.

IT#2339: Required field configuration was not removed with the Company on a deletion of that Company record.

IT#2342: The PM screen should not go into 'Add' mode on a mobile workstation if there are no exported PMs. PM addition is not allowed on Mobile.

IT#2350: When overriding the selection formula for a report, if parameters are not used, data from companies other than the current may appear if it matches the selection criteria.

IT#2355: Standard Reports: Prevent "Vendor Code" errors from occurring in some reports on the SQL Server Platform, when the server does not include the same database name that the report files were designed against originally.

CALIBRATION MANAGEMENT SYSTEM

IT#2371: When opening the cal screen to the first cal (a smaller Instrument calibration) and then trying to navigate to a later System cal (with 99 groups) get a Connection busy with results of another hstmt error when the code opens the qryItem to the System Record. SQL Server only.

IT#2406: Ensure that tabbing through fields on the Document screen does not cause any errors and that new revisions can be made while preserving current memo data.

IT#2418: Ensure the form caption accurately reflects the current record's state on all screens when modifying and adding records.

IT#2422: Moving Test point groups around caused test point groups to be lost during save.

OBSCURE BUGS

There were no bugs fixed in this release that fall under the classification of *obscure*. An obscure bug is defined as a software bug occurring within a released version of a software product that does not lead to data destruction and does not require a work around because by its nature, it will only be encountered by a user under rare and inconsequential circumstances.

DATABASE:

ENHANCEMENTS

No Enhancements have been made to the Database for this release.

CORRECTIONS

IT#2289: Fix the SQL Server Setup script so that the PolicySignature Index is not unique. This is also available as a patch script.

8.3 DOCUMENTATION

ENHANCEMENTS

User Manual and Online Help:

- **Section 8: Test Type Packages:** Updated the user manual by adding references to the ability of some Test Types to use the configurable out of spec font colors.
- **Section 16: Instrument Screen:** Added information regarding the new Copy Test Point Group and Load Test Point Group From Item menu items on the Edit menu for Test Point Group manipulation.
- **Section 29: ProCal Explorer:** Added information about the new filters for "Work Due By Department" and "Work Due By Location".
- **Section 35: Import/Export Utility + Mobile:** Added information for new Test Instrument filtering capabilities as well as ability to save most recently used export settings to a local file.

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CALIBRATION MANAGEMENT SYSTEM

- **Section 38: Mass Update Utility:** Added information regarding the new Copy Test Point Group and Load Test Point Group From Item menu items on the Edit menu for Test Point Group manipulation.

CORRECTIONS

Several minor corrections have been made in the User Manual.

CALIBRATION MANAGEMENT SYSTEM

RELEASE NOTES FOR PROCALV5, VERSION 5.4.0.9

These notes describe in detail what elements were changed during the release process of applicable modules for the ProCalV5 Calibration and Maintenance and Quality Management Systems.

6.1 RELEASE DETAILS

APPLICABLE MODULES

All application and system modules along with all documentation have been updated to version 5.4.0.9.

6.2 MODIFICATION DETAILS

- **Note: "IT#" stands for Internal Tracking number.**

Product:

- **Mass Update Utility**
- **Import/Export Utility**
- **Archive Utility**

ENHANCEMENTS

There were no Enhancements for this release.

CORRECTIONS

IT#2531: Import/Export Utility: Fix the method of Exporting so that the Export process does not crash in the SQL Server platform, when exporting multiple items of the same type with associated Approval Signatures.

IT#2532: Mass Update Utility: If the date format is entered incorrectly or has changed, fix the utility so that an "Unknown Error" message does not occur. Instead, log the error properly as part of the results so the user can fix the issue and re-apply.

IT#2876: Archive Utility: Archiving Calibrations that have Approval Policy signatures attached removes the ITEMSIGNATURES and ITEMSIGNATUREGROUPS records but does not transfer them, thus deleting them from the database.

[Audit trails are maintained, and does not impact signatures for assets]

OBSCURE BUGS

There were no bugs fixed in this release that fall under the classification of *obscure*. An obscure bug is defined as a software bug occurring within a released version of a software product that does not lead to data destruction and does not require a work around because by its nature, it will only be encountered by a user under rare and inconsequential circumstances.

CALIBRATION MANAGEMENT SYSTEM

6.3 DOCUMENTATION

CORRECTIONS

Several minor corrections have been made in the User Manual.

CALIBRATION MANAGEMENT SYSTEM

RELEASE NOTES FOR PROCALV5, VERSION 5.4.0.10

These notes describe in detail what elements were changed during the release process of applicable modules for the ProCalV5 Calibration and Maintenance and Quality Management Systems.

6.1 RELEASE DETAILS

APPLICABLE MODULES

All application and system modules along with all documentation have been updated to version 5.4.0.10.

6.2 MODIFICATION DETAILS

- **Note: "IT#" stands for Internal Tracking number.**

ENHANCEMENTS

IT#'s 829, 1514 & 2670 ProCal: Generally improved the ProCal 'History' experience by:

- adding a 'Show Maintenance History' function to all item screens
- adding 'As Found Failure' fields to the "Show Cal History" (Calibration History) window that's accessible from each master record
- expressing results more clearly when displaying "Cal History" from item record screen

IT# 869 ProCal: Added a 'Record Number / Total Records' display function based on the 'Current Query' on all item screens that indicates the 'total number of records found of the type viewed' and the 'number of the specific record viewed with respect to the total number of records', i.e. '5 of 5000'. The 'Current Query: <Query Name>' is also displayed with a 'Default' of all records. If the query used is changed to limit the list, the 'Record Number / Total Records' displayed is adjusted to reflect the resulting filtered list.

IT# 2038 ProCal: Added the ability to select work with blank due dates in the Schedule Tasks tab of the Work Orders Screen.

IT# 2171 ProCal: Added a 'User Logoff' mode that allows System Admins to log on when user licensing is depleted, with access only to the User Administration screen for viewing and logging off logged on users to free up licensing.

IT# 2354 ProCal: The ProCal Explorer Window re-opens after the data is refreshed when the user right clicks the "Refresh Tree" button.

IT# 2366 ProCal: Added a warning message to the Calibration Frequency screen when the user is saving a Frequency with a Period of Zero days - informing them that they would only be able to perform 'on time' or 'late' calibrations.

IT# 2403 E-Mail Reminder Utility: Enhanced the Email Reminder Utility to run against an SMTP host that requires a User ID and a Password for connection.

CALIBRATION MANAGEMENT SYSTEM

IT# 2440 ProCal: Added option to NOT have ProCal Explorer start loading automatically to improve system performance.

IT# 2445 ProCal: The "Set ProCalV5 Defaults" [Set ProCal V5 Default] initialization utility, PCV54init.exe, has been modified to make it easier to manage many different multi-user installations.

IT# 2517 ProCal: Added ability to do a simple Find by Calibration ID on the Calibration screen when the user knows the Calibration ID as an alternate to the current method (item type, item ID, date)

IT# 2751 Standard Reports: Added compatibility with standard Test Types (Switch Test, Test Omission, Manual Pass/Fail) with standard Calibration reports.

IT# 2977 ProCal: Added new System Option to display ProCal Explorer Items in a choice of three different display formats.

"Description: Item ID"

"Item ID"

"Item ID: Description"

- The Company screen will contain an extra "Use System Default" setting, which refers back to the System Option selected.
- Instruments, Loops, Test Instruments, Systems, Equipment and "Cals Due" nodes will appear with the requested format.
- If the description is blank the ": " delimiter will not be displayed and the Item ID will be displayed alone.

IT# 3008 ProCal: Added the email address field to the Responsible Technician screen.

IT# 3038 Email Reminder: Added an option to display each item's location in the reminders.

CORRECTIONS

IT# 1482 ProCal: Corrected to not display "Open" Maintenance Request records in the update window after a Calibration record is Finalized.

IT# 2045 ProCal: Corrected to allow 'Read -Only' users with Finalization access to finalize Maintenance Results and Work Orders.

IT# 2118 ProCal: Corrected to refresh the Records menu properly when changing the access level for current user.

IT# 2157 ProCal: Corrected error message on the Company screen when "Calibration Failed Status" & "Calibration Passed Status" or "Open Work Status" & "Closed Work Status" are set to the same value.

IT# 2159 ProCal: Corrected to return all the records, even the ones those with blank values, when utilizing the advanced query screen, doing a selection on a text field not equal to blank (e.g. Instrument Description).

IT# 2225: ProCal: Prevent SQL Server locks when deleting systems through Change Control

CALIBRATION MANAGEMENT SYSTEM

- IT# 2243** ProCal: Corrected to bring up the "User has been force logged off" message when the user has been force logged off the system and is trying to access the reporting system, similar to the response when trying to access any of the item type screens.
- IT# 2264** ProCal: Corrected to check the Instrument Type list associated with Test Instruments and NOT allow deletion of assigned items.
- IT# 2279** ProCal: Corrected to update the reports package to always include the current company name in the selection formula if parameter exists.
- IT# 2296** ProCal: Corrected to close a Maintenance Request when it is with other roll date requests in the Roll Dates and/or Close These Items On Calibration Completion box on the Calibration screen when the user saves the calibration record.
- IT# 2309** ProCal: Corrected to audit the OUTPUTSIGNALTYPE and DESCRIPTION fields for Master Record, PM and Calibration SPEC tables.
- IT# 2326** Standard Reports: Corrected Master Reports to not display the PM info headings when there are no PM records and/or when there is no PM system installed into ProCal.
- IT# 2353** ProCal: Corrected to prevent losing Spec Groups on a PM that uses default specs and has multiple groups when Un-checking the 'Use Default Calibration Specs' checkbox and Saving.
- IT# 2382** Mass Update Utility: Corrected to keep the "Replace Specs" checkbox after first save, when checked before first save attempt.
- IT# 2401** ProCal: Corrected to use the xlsx extension during the save when Excel 2007 is installed and a Save to Excel Spreadsheet item is used from a query result.
- IT# 2463** ProCal: Corrected to update the item without removing the approval when a user saves a calibration that they entered that will cause the item's Status to be updated if the User doesn't have Allow Instrument or Loop or System Approval rights according to the item being calibrated. This scenario doesn't make sense when Change Control is active
- IT# 2466** ProCal: Corrected to not generate the Get List Index Out of Bounds error (at zero index) when the PC running ProCalV5 has no printers installed.
- IT# 2499** ProCal: Corrected to bring up Choose Instrument pop-up menu when right clicking on Instrument ID in the Compliance / Non-conformance report screen.
- IT# 2506** NT Auth Package: Corrected to protect the ID and Package Name fields on the Authentication Methods screen.
- IT# 2513** ProCal: Corrected to make the checks to see if deletion should be allowed (lead component both in Prod & CC Versions, assigned to a loop, etc) when the item is marked for deletion through CC. ProCal now provides a list of the reasons why the User is unable to delete the item.

CALIBRATION MANAGEMENT SYSTEM

- IT# 2518** ProCal: Corrected to allow initiation of CC for a component of a System when the System is in CC and vice versa.
- IT# 2551** ProCal: Corrected to allow Users to set the Production record's Status to a Status other than the Initial Production Status on first save.
- IT# 2562** ProCal: Corrected to allow query to handle both Item ID AND the user variable.
- IT# 2563** ProCal: Corrected to prevent saving the OrderID in the Task screen as a value from a different company that has the same Work Order Number [e.g. "WO-00004" is in more than one Company] when in "Quick Add a Task" mode.
- IT# 2572** ProCal: Corrected to activate Task Screen pop-up menu for the list grid's Export to Excel or Save to Text file options.
- IT# 2584** ProCal: Work Order and Company Screens; Corrected to give access to the existing FILE User Defined fields via the ellipsis button when the user is Read-Only, or the record is otherwise un-modifiable (Exported, or Finalized).
- IT# 2591** ProCal: In the ProCal Explorer - Corrected so that Open Work nodes for Tasks appear with the Task icon, and Maintenance Result items in the history appear with the Maintenance Result icon.
- IT# 2592** ProCal: Corrected so the Logon screen does not trim the password field of leading and trailing spaces/blanks before sending to the authentication method.
- IT# 2595** ProCal: Corrected so ITEMDOCS records for additional associated documents are deleted when a Calibration record is deleted from ProCalV5/LE.
- IT# 2613** ProCal: Corrected so the Frequency entered for a Calibration PM Record is used instead of the Master Record's Frequency when entering a new Calibration for an Item's PM Record.
- IT# 2625** Import/Export Utility: Corrected so the Import logic checks for importable calibrations and potentially brings in the record, if the Mobile and Production database copies of a Master record (Instrument, Test Instrument, System, Loop) both have the same Last Modified date/time values and the Mobile's date exported value is earlier than that date. If the User has selected to Import with "Warn on Each Conflict" turned on a Warning will be generated.
- IT# 2633** Mass Update Utility: Corrected so the Mass Update Utility does not take Windows date format changes into account while running - only the ProCal date format is be used.
- IT# 2636** ProCal: Corrected so the "Finalized" checkbox is locked down when the User entering the calibration has selected Pass or Fail (not Incomplete), to properly enforce "Users Cannot Finalize Calibrations They Entered" when "Allow the User to Finalize Incomplete Calibrations" is OFF, and "Users Cannot Finalize Calibrations They Entered" is ON.
- IT# 2644** ProCal: Corrected so Classification of Test Standard Records appear in ProCal Explorer.
- IT# 2651** ProCal: Corrected so some values such as readings, Input Signals and/or Output Signals do not have their values switched to a copy of another test point or switched positions during a modification to the test points of a calibration record.

CALIBRATION MANAGEMENT SYSTEM

IT# 2684 ProCal: Corrected so record does not appear to be modified when the user simply shows or hides columns in the Test Results tab of the Calibration screen.

IT# 2700 ProCal: Corrected so Lists menu screens check the CC tables for to see if they can be deleted or not. Deletion is prevented if an open CC record uses the value. E.g. - Manufacturer

IT# 2902 Email Reminder: Correct reminder building logic to use the closed/cancelled work statuses from the correct company, since the global values have no context in reminders since there is no "current company"

IT# 2930 ProCal: Corrected so the Advanced Query code does not generate a lookup failed message when attempting to compare a user defined variable as "not equal" to a value.

IT# 2931 ProCal: Corrected so that a message is generated when saving a company record with a non-numeric value for "Days to Keep History".

IT# 2933 ProCal: Enhanced data access components used on Calibration and Work Order screens for better efficiency.

IT# 2946 Installation Package: Correcting the default file locations to be more compatible with Windows Vista and 7. For example, use local Common Application Data directory instead of subfolders in Program Files.

IT# 2948 Archive Utility: Corrected the Archive Utility to handle larger sets of data at one time through the use of smaller transactions.

IT# 2966 ProCal: Corrected the Equipment screen to not save upon close and re-open of the screen when there are unsaved modifications to the record.

IT# 2980 ProCal: Corrected the Calibration barcode label to work with all Item Types

IT# 2994 ProCal: Corrected to prevent the application from generating an "Insufficient disk space" error when the user's free hard disk space is a multiple of 4GB.

IT# 3004 ProCal: Corrected so that associated documents and signatures are removed correctly when deleting master records.

IT# 3027 ProCal: Corrected to prevent SQL Server from locking when saving a calibration which generates a maintenance request.

IT# 3046 ProCal: Corrected to prevent the next calibration date from being incorrectly set to "12/30/1899" when approving a Change Control record with a blank next calibration date.

IT# 3053 Import/Export Utility: Corrected so that exporting the same item multiple times without clearing the database no longer causes a duplicate key error.

OBSCURE BUGS

There were no bugs fixed in this release that fall under the classification of *obscure*. An obscure bug is defined as a software bug occurring within a released version of a software product that does not lead to data destruction and does not require a work around because by its nature, it will only be encountered by a user under rare and inconsequential circumstances.

CALIBRATION MANAGEMENT SYSTEM

DATABASE:

ENHANCEMENTS

No Enhancements have been made to the Database for this release.

CORRECTIONS

IT# 2970 ProCal: Fixed setup scripts so that all non-primary key numeric fields have a default value of 0. This lets queries such as "Man Hours <> 0" work properly. This was also corrected in the empty database

6.3 DOCUMENTATION

ENHANCEMENTS

User Manual and Online Help:

IT# 2873 ProCal: Converted ProCal Help Files to CHM format.

CORRECTIONS

Several minor corrections have been made in the User Manual.