

## Pipeline Compliance System Release Notes for Version 7.2.x

This document contains release notes for the following versions of Pipeline Compliance System (PCS) software:

- PCS v7.2.9, see Table 1 on page 1
- PCS v7.2.8, see Table 2 on page 2
- PCS v7.2.6, see Table 3 on page 3

**IMPORTANT:** Transfer all Allegro survey files to PCS **before** upgrading PCS to software version 7.2.6 or higher.

**NOTE:** The PCS installation CD now includes two installers; one for installing PCS software and the other for installing PCS help files. To install the latest version of PCS software on your computer, click the file labeled **American Innovations - PCS 7.2.8.msi**. To install PCS help files, click the file labeled **American Innovations - PCS Manuals.msi** located in the PCS Manuals directory.

**Table 1. PCS v7.2.9 Enhancements and Updates**

Enhancement/Update	Description
Bridge	Bridge automatically resolves incorrectly formatted data in an Excel import file as outlined in the following table. The information applies to .XLSX and .XLS Excel files when using the import option "Import XLS files using 2007 driver in the Bridge".

PCS MP Format	Excel Column Format	Excel Value	Result in PCS	Notes
Station Number	Text	0+01	0+01	No translation.
"	Text	1	0+01	Translates based on <b>footage</b> .
"	Number	1	0+01	No translation ( <b>footage</b> ).
MP 3 Decimal	Text	0.001	0.001	No translation.
"	Text	1	1.000	Translates based on <b>miles</b> .
"	Number (3 decimals)	0.001	0.001	No translation ( <b>miles</b> ).
Metric	Text	0+001	0+001 *	No translation.
"	Text	1	0+001	Translates based on <b>meters</b> .
"	Number (3 decimals)	0.001	0+001	No translation ( <b>kilometers</b> ).

\* All 3 metric delimiters in PCS ( + , and . ) work the same.

**Table 2. PCS v7.2.8 Enhancements and Updates**

Enhancement/Update	Description
Indirect Survey Module (ISM)	<b>Edit ROW Detail:</b> Now displays the correct Default Location Format after creating a new ROW in ISM using Bridge Import and Field Computer/Receive Data.
Field Computer	<ul style="list-style-type: none"> <li data-bbox="743 457 1328 510">■ <b>P/S Offset:</b> Now applies only to Structure, Casing, Foreign, and Insulator test point readings.</li> <li data-bbox="743 531 1336 615">■ <b>Receive Data:</b> Functions correctly when an Allegro survey file includes updated GPS data for a facility with maintenance prompts.</li> <li data-bbox="743 636 1336 699">■ <b>wToCmd.exe:</b> Updated “wToCmd.exe” file for processing survey files between PCS and the Allegro.</li> </ul>
Graphs	<b>Graphs/Metric Mode:</b> Graphing CI (close interval) and facility data on the same graph band in metric mode no longer corrupts the output.
Bridge	<ul style="list-style-type: none"> <li data-bbox="743 814 1336 867">■ <b>Import/Metric Mode:</b> Import process now formats the milepost correctly when importing metric data.</li> <li data-bbox="743 888 1312 1003">■ <b>Import/Metric Mode:</b> Bridging a new ROW in a metric system now creates the new ROW with the correct metric format without having to map the Default Location Format field.</li> </ul>

**Table 3. PCS v7.2.6 Enhancements and Updates**

Enhancement/Update	Description
Backup Data	<p><b>Archive Subfolder/Master Database:</b> The Backup Data process includes all zip files and archived change logs in the Archive subfolder of the master database. (C:\CPDM\archive)</p>
Bridge	<p><b>Data Filtering (Export file):</b> Set up an export file with optional data filtering to control data exported by Bridge. Data filtering can be applied to all data items at the Bridge level or at the PCS Data Item level.</p> <p>When running Bridge manually, the user can choose which data filters are active. When running Bridge during replication (Two-Way Synchronization), data filters set up as Always On apply to the output.</p> <p><b>Deleted UDFs:</b> Bridge definition ignores deleted UDFs included in mappings.</p> <p><b>Export Mode (Export file):</b> Includes two new export options labeled “Data changed since last export” and “Data inserted since last export”.</p> <p><b>Import Voltage Conversion (Import file):</b> Set up a Bridge import file to include one of the following conversion methods to be used with facility readings during data transfer: none; Invert polarity; Invert polarity and convert mV to V; Convert mV to V; Invert polarity and convert V to mV; and Convert V to mV.</p>
Bullhorn Interface	<p><b>Import Log:</b> Each error in the import log includes a corresponding Facility ID, date of inspection, and FTP filename.</p>
Data Entry Grids	<p><b>Data View/Options and Layout tab:</b> Apply button has been removed from the Data View window. Clicking Close applies changes to a data grid and then closes the Data View window.</p> <p><b>Days Since First Bad Reading, Days Since Last Good Reading:</b> New fields available in the Test Points Inspections grid. These are system calculated fields that identify the number of days since the first bad and last good reading.</p> <p><b>Grid Layout Themes:</b> Layout tab of Data View and Customize Data View: Create a new grid layout theme based on a source grid selection. Compatible fields copy from the source grid to the new grid layout theme. Fields in the new grid layout can then be re-organized or removed as needed.</p> <p><b>Invalid Date Progression in Repair Fields (Maintenance grid):</b> A message displays when an invalid date is entered in the Repair fields of a facility maintenance grid. Date entered for “Repair Found Date” must be earlier than the date entered for “Repair Initiated Date” and “Repair Corrected Date”.</p>

**Table 3. PCS v7.2.6 Enhancements and Updates** (continued)

Enhancement/Update	Description
Data Entry Grids, continued	<p><b>Print Grid (View menu):</b> Use Print Grid in the View menu to print a data grid, including Facility Manager. Set paper and font properties, view a print preview, and select a printer. This feature only applies to a primary grid. It does not apply to mini-grids, such as ROW Links and Test Point Linking in the Rectifiers Information grid.</p> <p><b>Replace All Values (Information grid):</b> When replacing values for a field in the Information grid using Replace All Values, PCS creates a history record and allows you to specify the Effective Date to be assigned to new records. PCS does not create a history record when no changes occur. To use Replace All Values, right-click the mouse in a column heading of the data grid.</p> <p><b>ROW Links Mini-grid (Rectifiers Information grid):</b> Creating calculated fields based on System or ROW Information fields no longer crashes the grid. Fields in ROW Links are also available in the calculation editor.</p> <p><b>Search Filter “Does Not Contain”:</b> New filter is available for selection in a grid search of character and memo type fields.</p>
Database Cleanup	<p><b>Archive Change Log Records (Database Cleanup for Two-Way Synchronization; Master Database):</b> Before the archive process begins, a message displays with information about not interrupting the archive process. During the archive process, a progress meter displays with status information.</p>
Edit Schedule Settings	<p><b>Early Survey Limit/Months Between Survey Settings:</b> Early Survey Limit for 12 month surveys no longer causes the scheduler to skip annual rectifiers and annual bond scheduling.</p> <p><b>Scheduling Facility Type:</b> Facilities due for inspection include the Scheduling Facility Type that cause the inspection.</p>
Email Notifications	<p><b>Record Sorting:</b> Email Notifications sort by the email date and then by ROW Code, Milepost, and Inspection Date.</p>
Field and UDF Customizations	<p><b>System Default Properties:</b> Set system-wide default values for character, date, integer, logical, memo, numeric, and date/time fields using the following system default properties in Field and UDF Customizations: System Default Maximum, System Default Minimum, System Default Negative, and System Default Uppercase.</p>

**Table 3. PCS v7.2.6 Enhancements and Updates** (continued)

Enhancement/Update	Description
Field Computer	<p><b>DVM Setting / Field and UDF Customizations:</b> Specify how readings are entered in an Allegro survey file with one of the following options:</p> <ul style="list-style-type: none"> <li>✓ Use system setting</li> <li>✓ Uses setting on Field Computer tab of System Settings labeled “Require voltage readings to be taken using voltmeter only.”</li> <li>✓ Require DVM reading</li> <li>✓ Readings <b>cannot</b> be entered manually on the Allegro.</li> <li>✓ Allow manual entry</li> <li>✓ Readings <b>can</b> be entered manually on the Allegro.</li> </ul> <p><b>Open Maintenance Items (Send Survey/Route):</b> Facilities with one or more pending maintenance records are included in the survey file sent to the Allegro by selecting the option Open Maintenance Items. PCS adds pending maintenance records before all other prompts currently set up in the prompts theme.</p> <p><b>PCS and Allegro Mandatory Data Entry Fields:</b> Mandatory data entry fields in PCS (such as Record Casing P/S in an Information grid) become mandatory data entry fields in an Allegro survey file.</p> <p><b>Prompts/Pages (Customize Prompts and Sorting):</b> Add maintenance fields in multiple prompt pages. This feature allows the technician to create more than one maintenance record on the Allegro. When the Allegro survey file is transferred to PCS, a separate maintenance record is created for each page of maintenance prompts with data entered by the technician.</p> <p><b>Send Survey/Route:</b> Send Survey/Route properly handles sending UDFs from ROW Links.</p> <p><b>Send Survey/Route, Customize Prompts and Sorting, Survey Grouping:</b> When an Allegro Prompts Theme is set up to use survey grouping, PCS groups on/off reading pairs in the order listed in the prompts theme. For example, prompts for multiple test points load in the following order: E P/S, E IRF, N P/S, N IRF, S P/S, S IRF, W P/S, W IRF.</p> <p><b>Survey Grouping of On/Off Field Pairs:</b> On/Off field pairs are grouped together for each facility in a survey group. The survey file sent to the Allegro must be set up with on/off field pairs and a Sorting Theme that uses Survey Grouping. For example, Structure P/S &lt;white&gt; is grouped with Structure IRF &lt;white&gt; and Structure P/S &lt;blue&gt; is group with Structure IRF &lt;blue&gt;.</p>

**Table 3. PCS v7.2.6 Enhancements and Updates** (continued)

Enhancement/Update	Description
Field Computer, continued	<p><b>Technician Name Carry-forward:</b> The Allegro tracks and displays the name of the previously entered technician as each facility is visited. When a reading is taken, the technician name is recorded and sent in the survey file that transfers to PCS. PCS populates the Technician field in the Inspections grid with the technician's name; the Technician field can also be changed manually.</p>
Reports/Graphs	<p><b>Comparisons Report: Facility Comparisons Report (Test Points, Rectifiers, Foreign Bonds, Galvanic Anodes, and Tanks):</b> Set up a Comparisons report to only include facilities that meet comparison criteria. Select the option labeled "Only include facilities which meet comparison criteria". All inspection records that meet the report's filters are included, similar to an inspection report. When the option is not selected, the report includes all facilities.</p> <p><b>CPDM Survey Report/Survey Summary:</b> Report includes a new distributed summary layout labeled Survey Summary. The report layout is available for selection in the Select Layout field of the Summary Report tab.</p> <p><b>Exceptions Report (Test Points, Rectifiers, Foreign Bonds, Galvanic Anodes, and Tanks):</b> Set up the report with the optional exception filter "Days Until Delinquent is less than [runtime]". This is a calculated field, which is the number of days from today's date until the delinquent date, based on scheduling settings.</p> <p><b>Generic Report:</b> Report provides the user more control of report output. Areas in PCS that use the generic report include: Print Grid; Schedule Details and Calendar view; Print Route and Print Unrouted; Field Computer log; Define Schedules; and Validation Tables.</p> <p><b>Graph Reports:</b> Graph reports include the following updates:</p> <ul style="list-style-type: none"> <li>✓ Dates after 2000 print correctly in the format mm/dd/yyyy.</li> <li>✓ Color assignments match for both Y-axes in a graph with right and left axes using different colors for pipelines.</li> <li>✓ Mileposts print with each band for graphs with multiple bands.</li> <li>✓ The vertical line in a graph with multiple bands snaps to the nearest point in the graph that the mouse is over.</li> </ul> <p><b>Print Date:</b> Select the option "Print current date in report footer" to set up a columnar report to include a print date. The print option is available in the Layout tab of a columnar report.</p>

**Table 3. PCS v7.2.6 Enhancements and Updates** (continued)

Enhancement/Update	Description
<p>Reports/Graphs, continued</p>	<p><b>Summary Report/Report Level Filters:</b> Filters can be active at the report level for a given field before the summation displays in the Summary Report output. This resolves a usability issue with summations, such as Miles Below Criteria, which would not function properly without a filter on Survey set.</p> <p><b>Summary Report/Test Point Compliance:</b> Miles Above/Below summations now properly calculate distances when using the Location ID milepost format.</p> <p><b>Summary Report Wizard/Collapsed Option in Define Row Fields:</b> Set up a row field in a summary layout to start “collapsed” (hidden). For example, if row fields include ROW Code and Technician, set up ROW Code as “collapsed” to only see a list of Technicians by expanding a ROW Code in the report.</p> <p><b>Summary Report Wizard/Count Summation Type:</b> Logical fields are available only for the “Count” summation type. These fields are counted only when a value is present. Fields with no value or a zero are not included in the report.</p> <p><b>Summary Report Wizard/Report Summation Versus Latest Date:</b> Set up a summation to use only the “latest date” for the data set in the summation. This option can be applied before or after summation filters are applied. Use this option to create a summation such as “TPs Below Criteria,” which should only reference the latest date.</p> <p><b>Summary Report Wizard/Unique Summation Type:</b> The “Unique” summation type has been renamed as “Count Unique”.</p>
<p>System Settings</p>	<p><b>Server Shutdown Frequency in Days/Replication tab:</b> The server shutdown date/time schedule only occurs when a frequency value is entered in the field “Server Shutdown Frequency in Days”.</p> <p><b>Survey Status Behavior/General tab:</b> New setting labeled “Survey status behavior” can be set up with one of the following settings:</p> <ul style="list-style-type: none"> <li>✓ <b>Any indicator can be populated:</b> at least one inspection field must be populated in the data grid. PCS places a check mark in the Surveyed check box to indicate the technician inspected the site and recorded inspection data.</li> <li>✓ <b>All indicators must be populated to be surveyed:</b> all fields related to the inspection field must be populated. The Record field associated with the inspection field must be enabled on the Information grid. The setting labeled System-Inspection Surveyed associated with the inspection field must be set as Yes in Field and UDF Customizations.</li> </ul>

**Table 3. PCS v7.2.6 Enhancements and Updates** (continued)

Enhancement/Update	Description
Two-Way Synchronization	<b>Sync and Verify:</b> Processed change logs properly transfer to the target machine if a sync session fails when updating a master database and replica. This prevents data loss in subsequent sync and verify sessions with other replicas.