

What's New or Changed in Bentley InRoads XM Edition

08.09.02.13

Adds to 08.09.01.45

New

General Enhancements

- Added support for running Inroads Group within MicroStation on a 64 bit operating system. Running Inroads Group within AutoCAD on a 64 bit operating system is not supported.

File

- Import> Survey Data> Trimble DC. Import now ignores 92FC lines with a period (.) in the value.

Geometry

- Horizontal Curve Set> Table Editor is a new command allowing edits of a horizontal alignment within a table format. This command only works with simple alignments containing linear elements, simple curves, and/or Spiral-Curve-Spiral curve set elements.
- Vertical Curve Set> Table Editor is a new command allowing edits of a vertical alignment within a table format. This command only works with simple alignments containing linear elements, parabolas, and/or circular curves.
- Light Rail Manufacturing> Annotate Rail Offsets now annotates the horizontal and vertical offsets from a Primary Control Baseline to the lead rail of all selected alignments.

Drainage

- View> Annotate Structures and Evaluation> Profile> Annotate Drainage Profile. The option to annotate the ID of all inverts at structures was added.

Survey

- Survey to Drainage. The associated structure roughness is now automatically assigned when a structure material is found in the structures.dat.
- Survey to Drainage. If a circular pipe only has an attribute of either height or width assigned, the software now automatically assigns the diameter to the unassigned attribute.
- View Survey Data> Write Survey Data to Graphics. Tags are now placed on all custom operations.

Tools

- Variable Manager> Survey - Use Spaces in Surface and Geometry Description. If checked, prompts the software to use spaces instead of commas when separating attribute values in the surface description of features created through Survey> Survey Data to Surface and geometry alignments and cogo points created through Survey> Survey Data to Geometry.
- Variable Manager> Survey - Exclude Generated Points from the Cogo Buffer. If checked, excludes generated points from the cogo buffer when running Survey Data to Geometry. One cogo point will be created for dual-coded points, and points generated by creating a curve will be excluded.

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- Variable Manager> Survey - Modifications for Trimble DC Import. Modified the variable to attach all attribute values to the note field also.

Fixes

Explorer

- Access Control Details. The Check In, Check Out, and Free buttons were not changing the access.

File

- Translators> LandXML Translator> Export Alignment tab. On a particular dataset, the software crashed when exporting geometry in LandXML Version 1.1 format.
- Translators> LandXML Translator did not export correctly when the computer's decimal symbol was set to comma (,). This is normally language specific.
- Import> Survey Data. When importing a particular PAC file, there was a chain with points in ascending order that was not being connected properly.
- Import> Survey Data. When importing an ASC file with more than four digits in the point name, the point code was being appended to the point name.

Geometry

- Horizontal Element> Define Spiral. Viennese transitions were not assigning the start and end cant values prior to computing the transition length.

Survey

- Survey to Drainage. The Preferences button was not working.
- Network> 2D Least Squares Adjustment. A report could not be generated if there were over 3500 observations in the network.
- Survey to Drainage. Inroads Survey was not reading the structures.dat until a new drainage database was created or File> Project Defaults was closed.

Evaluation

- Cross Section> Create Cross Section. The MS_CELLLIST configuration variable was affecting the initialization of this command.
- Cross Section> Annotate Cross Section. Two surface features with the same offset but different elevation would not annotate if selected for annotation at the same time.

Modeler

- Create Template> Component Properties for an end condition. The Target Type of Style was not being retained. The Surface Target Type would display even though Style was selected and applied previously.
- Modeler> Roadway Designer. IRD files were either being overwritten or would not save when the associated geometry was not found. Now the IRD save first looks for the alignment GUID assigned to the corridor and then the alignment name. If neither or these can be found, the corridor is saved with the current information.
- Roadway Designer. A memory leak for each displayed cross section was fixed.

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- Roadway Designer> Corridor> Point Controls. When a vertical control was added to a point that already had a horizontal control that used a secondary alignment, the vertical was not applied.

Quantities

- Compute Quantities was producing inaccurate station locations in the Elements table of the Quantity Manager.

Tools

- Survey Options> General tab. The Point Seed field now allows the entry of an alphanumeric point seed.

08.09.01.45

Adds to 08.09.00.51

New

General Enhancements

- Added support for AutoCAD 2007 and AutoCAD 2008.
- The Explorer will now sort the date / time as a date / time sort instead of an ASCII sort.

File

- Added support for ProjectWise XM with MicroStation 2004 Edition.
- Project Defaults - Added integration with ProjectWise for all default directory paths.
- Text Import Wizard - Added enhancements.
- Text Import Wizard - Added "Parent" as an option to apply to surface points upon import.
- Save As > Project > Options - Added an option to save only the file name without the path information.
- Import > Survey Data - You are now able to set the Files of Type to the data collector type and then multi-select the files to be imported.
- Translators > Import SRV - Removed the Append/Rename option and added a check box to Skip Duplicates in a File.

Surface

- View Surface > Annotate Features - Slope arrows can be placed to show the direction of features in plan.
- Design Surface > Drape Surface - Added a toggle to control whether the original graphic/feature is deleted when draping.
- Design Surface - Added preferences to the Set Elevation and Drape Surface commands.
- Edit Surface > Delete Triangles - Added the removal of displayed triangles.

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Geometry

- Added tooltips for Cogo Points.
- View Geometry - Added the Annotate Graphics command which annotates MicroStation elements according to geometry styles.
- View Geometry > View Horizontal Annotation - Enhanced style overrides to include elements as well as points.
- View Geometry > View Horizontal Annotation > Tabling - Added an option for tabling to have all elements of a figure numbered sequentially, no matter the type of element.
- View Geometry > Added a command to Display All Horizontals plus for Rail, All Turnouts and All Rails, Joints and Distance Keepers.
- View Geometry > Curve Set Annotation - Added the ability to annotate deflection angle for multiple closed alignments that contain only PI's.
- View Geometry > Curve Set Annotation - Added a toggle to drop station equation names.
- View Geometry > View Vertical - Added functionality to View Vertical Annotation to distinguish between a PVI and POVB / POVE.
- Horizontal Geometry - Added the ability to edit reverse Spirals based on Length/Ratio.
- Superelevation > Cant Editor - Added a column called Non-Compensating Lateral Acceleration for European Rail Standards.
- Horizontal Curve Set > Events - The Define By Single Point method now shows the Cogo Point 'Name' in the 'Locate By' section.
- Horizontal and Vertical Free Curve Element command - Added a toggle to delete elements between selected elements so that the existing curve is deleted when a new curve is placed.
- Horizontal and Vertical Elements > Check Integrity - Added a Fit button to the command dialog to fit the currently selected elements in the view.
- Horizontal Regression > Horizontal Slew Diagram - Added a style sheet that supports the InterpolatedSlew element.
- Added the capability to cycle through near alignments when using a pick button on a dialog. This is not available using the interactive commands.
- Geometry commands and the Delete button. The following commands will display a check box on the Confirm Delete dialog to "Only Show this Dialog When the Shift Key is Down". Some advanced users considered this dialog a nuisance.
 - Horizontal Curve Set > Horizontal Events
 - Vertical Curve Set > Vertical Events
 - Horizontal Regression> Edit / Review Horizontal Regression Points
 - Vertical Regression> Edit / Review Vertical Regression Points
 - Turnouts > Turnout Library (within Branch Geometry group box)
 - Turnouts > Switch & Crossing Library (the Delete button under the list view)
 - Superelevation> Cant Alignment Editor
 - Turnouts > Turnout Connection Editor
 - Multi-Element Regression Editor - Horizontal and Vertical
- Utilities > Append Alignment - New command that joins two horizontal alignments. This includes an option to join the active vertical and active cant at the same time.
- Utilities > Parallel Horizontal Alignment - Removed the requirement for an active horizontal alignment.
- Light Rail Manufacturing - Added an option to the Create Distance Keepers command to compute along the OUTSIDE RAIL rather than a single rail.

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Drainage

- View > Drainage As Solids - Added new command to display pipes, culverts, manholes, inlets and utilities as Smart Solids for 3D viewing and visual collision detection. This is enabled through Tools > Application Add-Ins.
- When enabled, reports can now contain all inverts for manholes and inlets.
- Added descriptions to classes, materials and inlets in the structures.dat file.

Survey

- Survey Feature Filter - Enhanced to honor ranges for numeric coding.
- Import Survey Data > SDR33 - Added the ability to specify the coordinate sequence of Easting/Northing on import of SDR33. This is enabled through Tools > Variable Manager.
- Import Survey Data > SDR33 - Increased the number of characters for descriptions to 31.
- Import Survey Data - Modified the filter to allow a default file type to be set.
- Fieldbook > (Right Click) > Route - Added the traverse mis-closure to the quick report that pops up when executing this command with the report lock on.
- Transform Survey Data - Added any changes made with the Transform Survey Data to the Audit Trail File.
- Import Survey Data > ODOT GSI - Changed the import so that all points containing the same string ID should be connected. The string will only start a new line when the code has a negative sign in front of it.
- The Audit Trail file will now include Fieldbook name.

Evaluation

- Profile > Annotate Profile > Curvature - Added additional parameters for annotation.
- Profile > Create Profile > Title - Added setting to control the offset relative to the bottom axis instead of the top.
- Cross Section > Update Cross Sections - Added target button to locate features in Plan view.
- Cross Section > Create Cross Sections - Added ProjectWise Title Block integration.
- Cross Section > Cross Section Viewer - Added ability to control which view the arrow keys will change when more than one MicroStation window is open.
- Arch pipes are now displayed correctly in cross section.
- Volumes> End Area Volumes - Added As-Built Volumes to perform intermediate volume calculations based on as built conditions.
- Sight Visibility - Added Surface Visibility command for non-alignment based sight analysis.
- Cross Section > Add Surface to Cross Section - Added a control for classification since previously End Area Volumes would read class only as existing.

Modeler

- Create Template > Component Properties - Added [Previous] and [Next] buttons to better facilitate component navigation and editing.
- Create Template > Right click on Point - Added the option Delete Constraint to delete a specific constraint defined in addition to the option to delete all constraints.
- Create Template > Display Template - Added point names to display.
- Create Template > Point Name List - Modified the list so that it is sorted.
- Create Template > Constraints > Project to Surface - Added the capability to add a parametric label to this constraint type.

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- Create Template - Added Angle Distance constraint that allows you to parallel another component in a template.
- Create Template - Added "Set Active" to the right click menu on the template tree.
- Create Template - Added option to convert a component point to a Null point.
- Roadway Designer - Modified the Corridor list to keep the last Corridor the active value when reopened.
- Roadway Designer > Tools> Vertical Gore Design Tool - Added a bitmap to the dialog that is a cross-sectional representation of what is happening computationally.
- Roadway Designer > Display Superelevation > Superelevation Control Curve Set Station Edit - Now shows the grade of the vertical alignment.
- Superelevation Reports - Added an additional report to format the superelevation report into a Superelevation ASCII Format.
- Roadway Designer > Tools > Options - Provided a toggle to turn off the Key Station Lines for super points.
- Roadway Designer > Tools > Parametric Constraints - Added the capability to import parametric labels into a corridor using a text file.
- Roadway Designer > Corridor> Create Surface > Clipping options - Added a Clip None option.
- Roadway Designer > Tools > Design Input Report (.ird) - Added this command for a direct method of producing the report.
- Roadway Designer > Tools > Options - Added an option to show the Triangulated Surface with a heavy red dashed line in Cross Section View.
- Roadway Designer > Tools > Options > Display Transition Graphics - Changed the Transition Graphics toggle to also disable the open transition function when double clicking in the plan graphics.
- Express Modeler - Added an option to triangulate surface.

Drafting

- Place Notes - Added Pay Item Name, Code and Description to Surface Items for annotation.
- Plan & Profile Generator - Added the ability to have leading zeros in the sheet name.
- Place Coordinate Grid > Bounded by set to Shape - Modified behavior so that instead of warning of no active selection set, the command will prompt for a shape to be identified.

Quantities

- Assign Pay Items - Added a new command to attach quantities to surface feature and MicroStation graphic elements.
- Review/Edit Pay Items - Added a command that can allow editing and reviewing pay items assigned to surface features or MicroStation graphic elements.
- Compute Quantities - Added the capability to use a Plan and Profile Generator VDF sheet file to compute sheet quantities from surface features or MicroStation graphic elements that have pay items attached.
- Pay Item Manager - Paste was added to the menu when right clicking on a folder to paste a pay item.

Tools

- XML Reports > Map Check - Added Map Check Report command and style sheets.
- XML Reports > Intersecting Alignment Stations - Added Intersecting Alignment Stations Report command and style sheets.

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- XML Reports > Clearance - Added Station Limits on General leaf.
- View XML Reports > Roadway Design > RoadwaySetup.xml - Added the LabeledConstraint items in the IRD to this .xml.
- Macros - The Nova Point Import and Export macros have been combined into a single command called Nova Point Translator.
- View XML Reports > Format - A new check box has been added to Tools > Format Options on the Report Browser. If toggled on, angular values will have an 'r' or 'g' appended to the value, depending on whether the Mode is set to Radians or Grads.
- Named Symbology Tools were added to PowerSurvey.
- View XML Reports - A number of new style sheets were added to the XML Data French reports.

Fixes

General Enhancements

- AutoCAD mode - Changes in the way Inroads interacts with AutoCAD have significantly reduced the occasions where commands would lock up.
- INI to XIN Translator - Resolved an issue when the original civil.ini did not contain locks information, the locks item name in the XIN was blank. In Inroads Survey, the software locked up on exit with no prompt to save changes.

File

- ProjectWise - Resolved an issue that caused a MicroStation Exception when exporting project defaults to a folder in which the user did not have write permission.
- Open - Resolved the issue that if a RWK file is opened which contained an IRD file, the user was always asked to save the ALG file upon exit.
- Translators > Import AMSA - The 'Successful Completion' message is now displayed when the command is finished processing.
- Save > Survey Data - Resolved an issue in which a 'Survey data successfully saved' message was being displayed in the Explorer when clicking Cancel on both the ProjectWise and Windows Save As dialogs for a file opened read only.
- Save As > XIN - Resolved an issue where the file could bypass write lock protection.
- Save > Geometry Project - Resolved an issue where alignment point descriptions were not saved when selecting the 'Save' command on a new alignment that was created using the Traverse command in an existing geometry project.
- Text Import Wizard > Cogo Points Classic files did not import if there was no alignment in the geometry project.
- Import > Surface > From Graphics - Resolved an issue when the user sets Load From to Level, selects a level from the list, switches to another application, and returns to Inroads, the level was reset to the top of the list.
- Import > Geometry > ICS - Resolved an issue where tolerance problems were encountered when importing geometry with compound vertical curves.
- Import > Geometry > From Graphics > Vertical Alignment - Resolved an issue in which graphics that were drawn in a profile from 10+00 to 8+00 were imported with 10+00 as the starting station of the vertical alignment.
- Import > Survey Data > Text Import Wizard > Projection - The Coordinate System Selection dialog is now modal so multiple instances of the dialog can no longer be opened.
- Import > Import Survey Data > Trimble .DC Import - Resolved an issue where points that were marked as deleted in the raw .dc were read into the Fieldbook.

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- Export > Survey Data > Text Export Wizard - The Open and Save As dialogs are now modal so that a new instance of each is not opened every time that the Open and Save As dialogs are selected.
- Translators > LandXML > Import Surface - Resolved an issue where contours were not read in with the style as defined in the XML file.
- Translators > LandXML - Resolved a problem where Inroads would abort when you imported a file with Duplicate Geometry set to Replace along with Use LandXML Project Name as the Geometry Project Name checked.
- Translators > LandXML - Added a crvType attribute to denote arc or chord.
- Translators > LandXML - Resolved an issue where the command failed to export a non-collinear vertical alignment correctly.
- Translators > Graphics Translator - Files from v8.2 did not translate usable data.
- Translators > Import AMSA - Resolved a problem where Inroads could abort when importing large data files.
- Translators > Import CARD/1 - Resolved an issue where a file with multiple horizontal alignments failed to read in properly.
- Export> Survey Data - The Survey Options dialog is now modal so that a new instance of the dialog does not appear every time that the Options button is selected.
- Text Import Wizard would not import an SOE file correctly.

Surface

- View Surface > Options - Within AutoCAD, 2D polylines will be displayed if the Planarize toggle is turned on.
- View Surface > Label Contours > Multipoint - Resolved an issue where interval settings were not obeyed once the surface had negative elevations; it labeled every contour.
- Feature > Feature Properties - Added a warning when changing the Feature Type to Exterior when another Exterior feature already exists.
- Feature > Feature Selection Filter - Resolved a problem where the command was not properly filtering some feature names.
- Edit Features > Trim Features - Resolved an issue when trimming multiple features, several features were trimmed to the opposite side of the cutting element.
- Design Surface> Channel to Surface - Resolved an issue where, under certain conditions, clicking Apply would produce a blank error message.
- Design Surface > Generate Sloped Surface - Resolved an issue where tick marks were not placed at the correct interval.
- Utilities> Thin Random Points - Resolved an issue where MicroStation aborted with a specific dataset and workflow.

Geometry

- Traverse - Adjusted the output file to move the Northing and Easting values farther to the right to separate them from length.
- Regression > Single Element Regression Analysis - Resolved a problem in Horizontal and Vertical where the slew trace line did not appear when you edited elements.
- View Geometry > Horizontal - Resolved an issue where Viennese transitions showed a kink if the trailing transition went into a linear element.
- View Geometry> Horizontal Annotation - Resolved an issue where the Active Style was not used if the horizontal alignment was set to read-only, even if Overwrite was turned off.
- View Geometry > Stationing - The Station Equation tab now obeys the Drop Station Equation Name toggle on the Main tab.

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- View Geometry > View Rails > 3D - Resolved an issue within a reverse cant condition that the rails graphics were displayed kinked.
- Vertical Curve Set > Define Curve > Design Calc - Added Method to preferences.
- Horizontal Element > Delete Element > Selected Element - Resolved an issue when the command crashed without saving in AutoCAD.
- Locate > Fit Curve - Resolved a problem where the software was not computing the central angle correctly. It was displaying angles over 180 when they should be less than 180.
- Turnouts > Create Vertical Turnout - Resolved a problem where the command was not working between 2 non-parallel tracks if both tracks had a vertical alignment. No additional vertical alignment would be created.
- Turnouts > Turnout Connection Editor - Resolved an issue where in a turnout to turnout situation the software did not correctly identify a single standard sleeper set.
- Vertical Curve Sets > Define Vertical Curve - Optimized command to decrease lag in identification of curves and exiting.
- Superelevation > Cant Alignment Editor - Resolved an issue where the design speed units were displaying as 'Design Speed (kph)' rather than "Design Speed (mph)' when the working units were imperial after selecting the Define All button.
- Rename Geometry - Resolved a problem when multiple users had the same ALG opened, the person with read-write access was not allowed to rename the horizontal alignment.
- View Geometry > Switch Height Plan > Turnouts > Symbology > Shunt Limit Symbol > Display As > Cell - Resolved an issue where Angle Relative to Object or Absolute was not working.
- Copy Geometry > Horizontals - Resolved an issue when copying an alignment from one geometry project to another, the alignment point descriptions (created using the traverse command) were not carried over.

Drainage

- Layout and Flows> Compute Flow - Resolved an issue where structure IDs were not reading Drainage Options settings from XIN.
- Network > Design - Resolved an issue where if a water elevation was specified below the depth of flow in the pipe, the Alternate HGL was not used.
- Network > Design - Resolved an issue where the curb opening length was not set to the correct length matching the effective length chosen during design.
- Edit/Review > Area - The following issue was resolved. Change the Rainfall Data, tab out, and the Peak Flow value changes. However, when you hit the Apply button, the Rainfall Data would revert to the previous value.

Survey

- View Survey Data > Write Survey Data to Graphics - Resolved an issue so that Pencil mode will delete only data from the same fieldbook.
- Fieldbook > Notes - Resolved an issue when you had multiple note fields from a survey file they were all strung together. Each note is now on a separate line in the notes field.
- Survey Data to Surface - Removed the Append option because the data would be appended into a single feature.
- View Survey Data > Write Survey Data to Graphics > Planarize Option - Resolved an issue where this was not working.
- Survey Style Filter - Resolved an issue where this was not filtering stations and observations with a numeric code of 0 or [None].
- Fieldbook - Resolved an issue where sometimes right-clicking on the fieldbook and then selecting Edit, the graphics would disappear.

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Evaluation

- Profile > Create Profile > Source - The Existing Profile option will now cause the Create combo box to be dithered so that a user will not assume they are creating a new profile.
- Profile > Create Profile > Grids - Resolved an issue with Grid Scale Factor where grids were not properly spaced.
- Profile > Update Drainage Profile - Resolved an issue where profiles cut Right to Left were updated with the network switching from Left to Right.
- Create Cross Section > Title block - Resolved an issue where the title block data was not filled in if the tags were uppercase.
- Cross Section > Cross Section Report - Added capability to report on features that are excluded from triangulation.
- Cross Section > Create Cross Sections - When custom sections are defined while Station limits under the Controls leaf are defined, a warning was added to inform the user that these limits will limit the custom set.
- Profile > Profile Annotation - Resolved a display problem with Inroads running in AutoCAD and using per mille sign (ASCII 137).
- Volumes > End Area Volumes - Resolved an issue for components at a station in the end of a Template Transition in which it was doubling the area of that component.

Modeler

- Roadway Designer > Superelevation > Create Superelevation Wizard > Table - Resolved an issue where Station Limits didn't obey in Section Definition.
- Roadway Designer - Resolved an issue where transitions were not displaying the correct beginning and ending solutions for templates.
- Roadway Designer - Resolved an crash in Display Superelevations > Edit Curve Set Station when in MicroStation 2004 Edition.
- Create Template> File > Open - Resolved an issue where a TML file is opened without error and the data in the file on the hard drive is cleared. This was corrupting the TML file.
- Create Template - Creating and editing a template was causing the ALG file to think it was changed so the software would prompt to save the geometry file on exit from Inroads
- Create Template > Edit > Merge Components - Resolved an issue where some components had an extra point and would not merge.
- Roadway Designer> Superelevation> Create Superelevation Wizard > Table Method - Resolved an issue where the reverse Crown Point was missing in the beginning of the curve and an incorrect point was added at the end with a Runoff distance.

Drafting

- Place Note - Resolved an issue when placing Storm & Sanitary user data fields that were numeric. They would have 6 decimals. Now they honor the Linear Precision from Tools > Options > Precision.
- Place Note - Resolved a problem where resetting out of a command would lock up AutoCAD.
- Update Note - The user can now save to a preference the item of choice in the Update group box.
- Plan & Profile Generator - Resolved an issue of the software crashing when you select the Profile controls tab with 35 surfaces open.
- Plan & Profile Generator - Resolved an issue when the *.vdf file was deleted (new), the Main tab still showed the total number of sheets to be what the *.vdf previously contained.

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- Plan & Profile Generator - Resolved an issue when using a reference file border, the title block data was not going on the correct level.
- Plan & Profile Generator - Resolved an issue that there was no way to clear the Clipping Boundary Symbology combo box once a symbology was defined in this field.
- Plan & Profile Generator - Resolved an issue where a zero byte file was automatically created in a ProjectWise folder as one of the sheets.
- Plan & Profile Generator - Resolved an issue where the MicroStation application was not being assigned to the *.dgn file when creating sheets in ProjectWise.

Tools

- Named Symbology - Resolved a problem when using a text style and by level symbology. The weight was always plotted at zero.
- Tracking > Horizontal Tracking was not displaying adverse cant with a negative sign.
- Drainage > Options - Resolved an issue where Harmon's peaking formula was incorrect and the population should represent thousands.
- Drainage > Options & Structures File - Resolved an issue where classes that have the word 'Grate', 'Curb Opening', etc did not appear in Drainage Options.
- View XML Reports - Resolved an issue if you had used the right click menu to access the help text on a style sheet then, from that point, you could not print the report, only its help.
- Tools > Tracking > Tracking - Resolved an issue where the offset did not read the Left and Right Offset Prefix and Suffix from Tools > Options > Abbreviations.
- Remove User Data - Resolved an issue where the command deleted the cell name. Thus, if you used smart match, the cell was not picked up nor showed in MicroStation element information.
- View XML Reports > TDSRD5Format.xml - Resolved an issue where the angular units were not in the correct format to allow upload to TDS.
- Macro > Paragon - Resolved an issue where the Geometry Project and Horizontal Alignment combo boxes only allowed the entry of characters to the width of the combo boxes.

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