

MicroStation - WSDOT Custom Utilities

Versions 8.5 and XM

Environments: 63 Level and Expanded Level

Overview

WSDOT CAE provides a number of custom utilities that are intended to provide productivity enhancement. The following is a list of custom utilities that are available within the WSDOT CAE environment. Also noted for informational purposes are utilities that have been retired due to similar current native functionality.

If you have any questions about these utilities, view the help files from within the WSDOT Toolbox or contact WSDOT CAE Support.

Current Utilities

Name	Found in	Description
Active Angle 2 Point	DrawingUtility	Sets the active angle by 2 points
Active Angle 3 Point	DrawingUtility	Sets the active angle by 3 points
Add Levels for GuidSign	FileUtility	Adds GuidSign's mandated levels to current dgn file.
Addendum Block	DrawingUtility	Places an addendum block
Addendum Shape	DrawingUtility	Places an addendum shape
Adding GUID (CAiCE to InRoads)	InRoadsUtility	
Angles & Arrows	DrawingUtility	Toolbox for placing arrows and setting the active angle
Area Utility (Bentley)	DrawingUtility	Measures Areas of closed shapes or area enclosed by user input
Area Utility (WSDOT)	DrawingUtility	Measures Areas of closed shapes or area enclosed by user input
Arrows - Double	DrawingUtility	Places two arrows, one on either end of a line
Arrows - Half	DrawingUtility	Places a half arrow at the end of a line
Arrows - Single	DrawingUtility	Places a full arrow at the end of the line
Auto Turn	DrawingUtility	Launches AutoTurn
Base Map Documentation	Reports	Document a CAD file exporting the results to an Excel file
Bearing & Distance By Points	DrawingUtility	Measures the distance and bearing between two data points
Calculator	Miscellaneous	Opens the Windows Calculator

Current Utilities

Name	Found in	Description
Cell Replacement	FileUtility	Replaces points with cells and linestrings with cells for Photogrammetry
Change Case	ElementUtility	Changes the case of text to all upper, capitol, sentence, or word
Change DGN Label	FileUtility	Changes the label of a CAD file to PSE Sheet, PSE Base, RW Sheet, or RW Base
Change Level	ElementUtility	Move elements from one level to another, check percentage of 63 levels and expanded level elements
Change WSDOT Scale	FileUtility	Changes the scale of a file
Clip Limits	FileUtility	Create a shape for clipping a reference
Convert 63 to Expanded	FileUtility	Convert a 63 level file to an expanded level file
Copy and Paste Relative	FileUtility	Copy and Paste elements from one file to another in the same coordinates
Count Elements	FileUtility	Bentley's macro to count graphical elements
Datum Conversion Utility	FileUtility	Transforms coordinates to State Plane or Project Datum
Drainage Pipe	DrawingUtility	Constructs a drain pipe with two lines or a closed shape
Drainage Profiler	DrawingUtility	Constructs drainage structures and pipes
Export to 2D	FileUtility	Exports a 2D to 3D or a 3D to 2D
Global Cell Scale	ElementUtility	Change the scale factor of cells to the same scale factor and leave them at the original coordinates
Info Snap	FileUtility	Launches InfoSnap
InRoads 2004	InRoadsUtility	Launches InRoads 2004
InRoads XM	InRoadsUtility	Launches InRoads XM
Label Sheets	SheetUtility	Places the labels on sheets
Level Scroll	ViewUtility	Scroll through the occupied levels one at a time
Load VBA Libraries	Miscellaneous	Load all the WSDOT VBA libraries
Match Line Base	DrawingUtility	Constructs a line at a station with an offset for the length in a Base Plan
Match Line Sheet	DrawingUtility	Label the match line in a sheet file
Measure Level	DrawingUtility	Measures all chainable elements on the active level
Measure Scale	DrawingUtility	Multiples the measured distance by a scale factor
Miscellaneous Tools	DrawingUtility	Toolbox of old MicroStation tools

Current Utilities

Name	Found in	Description
Miscellaneous Tools	DrawingUtility	Toolbox of old MicroStation tools
Mouse Fun	Miscellaneous	Utility to test the mouse buttons
Navigator	ViewUtility	Dialog box with window controls to zoom and pan and rotate
North Arrow	DrawingUtility	Places a north arrow cell facing north
North Arrow	DrawingUtility	Places a north arrow cell facing north
North Arrow - Reference	DrawingUtility	Places a north arrow cell in the sheet file by selecting a reference
Page Layout	DrawingUtility	Places shapes along a centerline and creates saved views from the shapes
Place Leader	DrawingUtility	Places Leaders with Text or just text
Place Sheets	SheetUtility	Places sheets
Place\Label\Stamp Sheets	SheetUtility	Places sheets,add labels to the sheets, and places stamps on the sheets
Print Sheets	SheetUtility	Print sheets
Print Sheets	SheetUtility	Print sheets
Prosoft	Miscellaneous	Launches the Prosoft training
Quad Maps	DrawingUtility	Attaches and merges quad files into the active file
Save As V7	FileUtility	Saves a V8 file back to a V7 version
Saved View Recall	ViewUtility	Lists saved views and their descriptions
See Thru Shapes	ViewUtility	Puts the filled shapes at the end of the file
SlopeStake Macro	InRoadsUtility	Launches the Excel spreadsheet and populates it with slopestake data
Station & Offset Import	DrawingUtility	Imports/Exports items in an Excel spreadsheet as points or cells
Station & Offset Utilities	DrawingUtility	Measure offsets from stations on a centerline or place items at a station and offset from a centerline
Superelevation Calculator	InRoadsUtility	Launches the superelevation calculator
Text View Rotation	DrawingUtility	Rotates selected text to the rotation of the view
Tile Two Views	ViewUtility	Tiles View 1 and 5
Unload VBA Libraries	Miscellaneous	Unloads all the WSDOT VBA libraries
Update Levels	FileUtility	Checks to see if the file needs to be updated with different levels
V8 Snappy	DrawingUtility	Makes all elements snappable
WSDOT Menu	WSDOTItems	Provides selection menu to place WSDOT standard symbology

Current Utilities

Name	Found in	Description
WSDOT Toolbox	WSDOTItems	Displays WSDOT custom tools by category
Zoom To Station	ViewUtility	Zoom to a specified station on a centerline
Retired		
Previous File	WSDOTItems	Retired - Use native command toolbox Tools > Toolboxes > View Groups
Repair DGN	FileUtility	Retired - Use native commands: File > Compress > Design and Utilities > Data Cleanup