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SmartDraft Suite History

Version 8.5.16-17a released - 1/2010

- Fixed a random Fatal Error in Labeling, when a label style with a leader is used.
- Added arrowhead type Filled or Block to the Dimstyle Variables of the Drawing Setup.
- Fixed printing issues in Legal Description Report, Area Report, Closure Report, Tangency Report, and Customization Template Manager.
- Fixed error when using Points Connect with Polyline in Civil 3D 2008 or higher, now creates polyline.
- Fixed error when creating text using the Text Styles commands the first time in Paperspace. The style Paperspace style was not set current until the second time the command was selected. Now it sets the style current the first time.
- Fixed error on Create Reports in Civil 3D 2008 or higher using Parcel, under certain parcel configurations, the command with error not process any data. The error has been corrected.
- Fixed error on Legal Description Report polyline version alias PLL. The dialog box of the save option appeared, but no file was saved. Now the file is saved.
- Fixed error when running current version of SmartDraft on files originally used with version 5.x. Some commands would cause an Exception occurred: 0xC0000005 (Access Violation); warning: unwind skipped on unknown exception and not run.

Version 8.5.11-15 released - 11/2009

- Fixed error: Exception occurred: 0xC0000005 (Access Violation); warning: unwind skipped on unknown exception with Text Online, and Block Manager when the *.bdb file has the path hardcoded and the same block is selected a second time.
- Added command PConnect Template Manager and alias PCZ to create, edit, and manager PConnect templates. Template will be use along with future template suffix codes to be added to PConnect soon.
- Fixed Dimension Arc, Dimension without Leader, Dimension Outside, Dimension with Prompt, and Dimension to honor Architectural Scales setting in Drawing Setup when Type is set to Object.
- Added description data to the dialog box of Profile Labels along the Alignment.
- Fixed error when selecting the Group option in Profile Labels along the Alignment, Points: Create Selection Set, and Point to Spot Label.
- Fixed divide by zero error in Convert to Tree Line. This error occurred when a segment what shorted than the specified arc width. Segments smaller than the specified arc width arc know given an arc with of the segment.
- Added a curve item data order option to Legal Description Options Style Manager

Version 8.5.10 released - 8/2009

- Fixed processing of Annotative Mtext in the following commands: Add underline, and overscore, Change Bearing Direction, Change Label Direction, Join, Text Adjust Numbers, Text Align Parallel or Tangent, Text Copy String (Match Text), Text, Arc Text, and Attribute Mask, Text, Arc Text, and Attribute Unmask, Text Horizontal, Text Vertical, Text Edit, Text Add Prefix / Suffix, Text Remove Prefix / Suffix, Text Mathematics, Text Sequential Numbering, Text Swap, and Text Fit.
- Added Mtext support to the following commands: Change Label Direction, Text Copy String (Match Text), and Join.
- Fixed the text angle in the North Arrow command when selecting a viewport.

Version 8.5.9 released - 6/2009

- Fixed drafting error in Profile: Station and Elevation due to a change in the Civil 3D API starting with Civil 3D 2008. It will now draw the vertical curve.

Version 8.4.7 - 8.5.8 released (First version to support Civil 3D 2010) - May 2009

- Added cuix menu file for 2010 versions of Autodesk products. This is not the official 2010 release. It is just a patch to work within 2010.
- This version supports 2006 or higher.
- Added new Leader options to the Elevation Label command.

- Added new Leader options to the Point Label command.
- Fixed error NIL in Points Check when selecting the Show < option.
- Fixed error in Legal Description Report and Legal Description Options Style Manager. If the current customization template folder is set read-only, and the default.lgl file didn't exist, the user would get a Error: bad argument type: streamamp nil).
- Fixed error in Straight Leader when type set to Polyline and Symbol set to any symbol, the symbol would be placed in the wrong location.
- Added command Points Zoom to Point Number and alias PTZ to zoom to a point number and height value.
- Added command Points Available Point Numbers and alias PTA to displays the point numbers that are available for use in the current project.
- Change the command alias for Dimension Truncate from DST to DRT due to conflict with the standard AutoCAD alias DST for DIMSTYLE.
- Changed command alias for Interpolate Contours to ICO from IC due to conflict with AutoCAD's alisas for Circle.
- Fixed Error when using Labeling with a style using the Leader/Text or Leader/Tag in 2007-2009 on a drawing originally created in 2006 or prior.
- Fixed SmartDraft drawing setup horizontal scale setting using meters in Civil 3D 2008/2009, and Land Desktop 2009.
- Fixed PConnect error in Civil 3D 2006-2009 using Point Source Drawing as input. The command was using easting value as the elevation. Now uses the elevation.
- Fixed error in AutoCAD 2009, using the Label Masking commands on dimensions. The mask was displaying the same color as the text. Now the mask displays the color of the screen background as it did in AutoCAD 2008 and prior.

Version 8.4.3 released – November 2008

- Added command Update Labels to update the updatable SmartDraft Labels and alias SDU.
- Added no commas, and rotation angles options to Label Coordinates.
- Added support for labeling elevations along survey figures and parcel lines in Elevation Label.
- Fixed Error: too few arguments error when selecting an arc in Parking Spaces along Polyline (formerly PARKIT).
- Fixed selection option in Parking Spaces Report. Selection option now correctly finds the regular spaces block for counting.
- Renamed SmartConnect to PConnect due to trademark issues.
- Added draw Civil 3D Figures option when using Civil 3D Survey Databases to PConnect.
- Changed the multiple point best - fit calculation to polynomial curve fit calculation in PConnect. Now the curves will go through all points. This calculation method matches the multiple point option of the import Fieldbooks command in Land Desktop and Civil 3D.
- Added multiple code support at each point to PConnect.
- Fixed elevation values when using Civil 3D Survey Databases as the point source in PConnect.
- Removed Elevation Flag Toolbar, and Elevation Flags, Edit Elevation Flag Tools.

Version 8.3.3 - 8.3.7 released August 2008

- Added support for multiple point best fit curves (non-tangent) to PConnect.
- Added support for 3 point curves (non-tangent curves) to PConnect.
- Added support for point data within the Civil 3d Survey Databases to PConnect.
- Fixed viewport unlocking issue in Labeling. Now when labeling through a viewport, the viewport restores to the correct view scale and relocks, if it was locked before labeling began. Error introduced in v8.1.0.
- Added User Description Key options, and ability to have "/" in description as separator for additional information past the suffix code in PConnect.
- Added prompt to indicate if the selected polyline is open in the Legal Description Report by Polyline.
- Added a linear value suffix to correct an oversight for linear values in the Legal Description Report.
- Added feature to remember the previous folder used and previous defaults, and fixed excluded exact duplicates, point numbers, and descriptions in Points Merge.
- Fixed error with Text, Arc Text, and Attribute Mask along SmartDraft arced text.
- Changed contour join options in Join to join with gaps, prompt if elevation varies.
- Changed behavior of Drawing Setup. If user changes the customization template, the horizontal scale is no longer changed.
- Added *current* layer option to Area by Point, and Area commands.
- Fixed dxf error in Attribute Change when changing height, width, or angle.

Version 8.3.0 – 8.3.2 released May 2008 (First version to support 2009 based products)

- Fixed Error: too few arguments in the Update options in Label Coordinates.
- Added adjustment operator and changed logic in Text Mathematics. Help undated to explain math logic in command.
- Fixed error BAD DXF nil in Point to Spot Label when selecting either Text output option.
- Added support for splined polylines and fixed error when selecting a non-polyline as the first object in Join 2d Polylines.
- Added option for 0 - 5 spaces between course in Legal Description Report.
- Added Point to Spot Label and alias P2S.
- Added Convert Spline to Polyline and alias SPP.
- Added Text: Dialog a dialog box interface to AutoCAD Text command and alias TD.
- Added command Extend and Trim and alias ETR.
- Added command Interpolate Contours and alias CI.
- Change command name Interpolate to Interpolate Interval.
- Fixed error in Profile Curb Return, Error: When Leader direction was set Up, elevation calculations were correct, when set Down, elevation calculations were incorrect.

Version 8.2.1 – 8.2.2 released April 2008

- Fixed layer placement of blocks in Block and Detail Manager (formerly BKeeper). Wasn't using the predefine layers in the bkl file.
- Fixed slow response when opening the Points Options in Point Options, Points Manual, Points by Coordinates, Points at 20's & 80's, Points Along Objects, and Points by Station and Offset.
- Added additional options and changed name of Points: Create Selection Set.
- Added select polyline option to Legal Description Report command and alias PLL.
- Added View option to Area Report, Closure Report, and Legal Description Report.
- Added dialog option to Length (Add).
- Added command Join 2d Polylines with gap tolerance option and alias PJ.
- Added command Points Merge.
- Fixed Remove Layer Filters command.
- Added command Parking Spaces Count Symbols and alias PKC.
- Added command Parking Spaces Report and alias PKR.
- Added command Parking Spaces along Polyline and alias PKI.
- Renamed command Parking Stalls to Parking Spaces and added alias PKS.
- Fixed SmartInfo command.

Version 8.0.11 – 8.1.2 released February 2008

- Added support for Create Annotative Styles in Drawing Setup
- Added support for Create Annotative Styles to New Drawing Setup in the Customization Template Manager command.
- Added for changing the alignment stationing format in Drawing Setup
- Fixed LTSCALE issue in AutoCAD 2008 based products. Now it will stay 1 when PSLTSCALE =1.
- Added support for Annotative Text and Dimensions. Note: Some issues with the Text, Arc Text, and Attribute Mask command when the Annotative text is displayed in multiple viewports with different scales.
- Added user definable legal description options to the Legal Report command in the Create Reports command.
- Added support for Legal Options Styles to the Customization Template Manager command.
- Fixed undefined function SM:PAUSE in List Object.
- Added command Block Create Unnamed and alias BKU.
- Added command Block Mirror and Rotate and alias BMR.
- Added command Copy to Layer and alias CLY.
- Added command Attribute Change and alias CAT.
- Added command Attribute Edit and alias EAT.
- Added command Label Northing and Easting Difference and alias NED.
- Added pen up and pen down option to the Points Connect with Polyline command when point type is Object.
- Added command Block and Detail Manager (formerly BKeeper) and alias BK.

Version 8.0.9 released January 2008

- Fixed Prompt leader angle option in Profile Crossing Pipes.

Version 8.0.3 released November 2007

- Fixed Join when working with polylines, to keep the polyline on the original layer. Was changing it to the current layer.
- Fixed "Error: Exception" when selecting the Set Start button in Label / Manage Parcels.
- Removed duplicate angular precision listing in Change Label Precision, Labeling Tags Tool, Labeling Style Manager, and Labeling Table Style Manager.

Version 8.0.0 released October 2007 (First version to support Civil 3D 2008)

- Added field to finish tool PConnect. Note: Licensed separately.
- Added command List Object to display selected objects information.
- Added Join Quick option to the Join command.
- Added command Join Quick to quickly join all arcs, lines, and polylines on same layer and at same elevation.
- Added command Arc Leader (Variable) to create variable width arc leaders.
- Added Numbers Only options to Text Add Prefix / Suffix.
- Added command Slope Label Update and alias LSCU.
- Added dynamic block and update values options to Label Slope.
- Added dynamic block option to Calculate Slope.
- Added command Point Label Update and alias PTLU.
- Added update values option to Point Label.
- Added command Elevation Label Update and alias EFU.
- Added update values option to Elevation Label and Elevation Label - Lot Line.
- Added dynamic block option to Elevation Label - Lot Line.
- Added Default or *current* layer toggle to Dimension, Dimension Truncate, Dimension with Prompt, Dimension without Leader, Dimension Outside, Dimension Arc, and Dimension Text - Alternate Units.
- Added Print option to Create Reports.
- Added sorting of SmartDraft Parcels with Text only descriptions and parcel "0" to Label / Manage Parcels, Create Reports, and Area Table.
- Added support for Civil 3D feature lines to Elevation Label.
- Added command to change the objects inside a block to color bylayer.
- Added support for polylines to Change Length.
- Added sort option to Text Export, and Text to Mtext.
- Added command to swap two text strings.
- Added Break Tools toolbar.
- Added command to break a selected object at a distance from the end point. See Break at Distance.
- Added dialog box option to select layer for the Change Layer command.
- Added 2d polyline support to the Join command.
- Added Update option to North Arrow. This option updates the rotation angle of the North Arrow..
- Added support to auto update the rotation angle of the North Arrow in a Layout and associated to a Viewport when using View All, View Twist, Viewport Zoom, and Viewport Align.
- Added command to add, modify, or remove an arc from a selected polyline segment and alias PLBE.
- Added a command to convert arcs, circles, lines, and polylines into a Tree / Brush line and alias PLTL.
- Added a command to add vertices to existing polylines and alias PLAV.
- Changed the following commands angle entry method to match standard AutoCAD (-ccw to ccw): Arc Tangent, Line by Turned or Deflection Angle, Lot Lines, Parking Stalls, and Traverse.
- Added command to create an arc by length.
- Fixed issue when a user opened a drawing in Civil 3D 2008 saved it, and the next user opened it in Civil 3D 2007. The 2007 user would get the "Error: Civil 3D API: The parameter is incorrect."
- Add support for Civil 3D 2008 Siteless Alignments.
- Fixed masking and unmasking of Dimension objects in AutoCAD 2007 or higher when using Text, Arc Text, and Attribute Mask and Text, Arc Text, and Attribute Unmask.
- Added command Label Coordinates Update and alias CRFU.
- Added options to edit the precision or update the coordinates of coordinate labels using Label Coordinates.
- Fixed error in the Offset 3D Polyline. It would shift the elevations on the new 3d polyline one or two vertices in some cases.

- Added Full and Raw description option to Point Label. Fixed the issue in Land Desktop where it only used the Raw Description.
- Fixed spelling error in Closure Report "Area".
- Added command aliases ATM Attribute Move and Rotate, TSG Text Spacing, TMH Text Mathematics, and TMT Text to Mtext.
- Fixed error related to dynamic entry mode being turned off after using a SmartDraft command.

Version 7.6.7 - 7.6.8 released April 2007

- Fixed error nil value when using the Define Parcels, Missed option, Zoom button when using XREF text to automatically create Parcels from selected text.
- Fixed error nil value when changing Parcel Type from drop-down list in the Create Report Parcel Tool.
- Fixed error when using Text Algin on slope labels created by Land Desktop
- Added support to the commands Point Tools toolbar to support the base point and north rotation options in drawing setup of Land Desktop.
- Added station prefix option to Profile Labels along the Alignment.
- Refined OSNAP changed introduced in version 7.6.5.
- Added Special Suffixes button for Vertical Curve Station Suffixes in Profile: Station and Elevation.
- Fixed Error "DIMLDRBLK" "0" in Labeling when using a style with the value DIMLDRBLK=0.
- Added Special Suffixes button for Station Suffixes in Alignment Labels along the Profile.
- Added vertical curve interval option to Profile Setup Options.
- Fixed Interval Circle option in Profile Setup Options for Profile: Station and Elevation. If the Dynamic Block and Interval Circle options are unchecked, the interval circle won't be placed.

Version 7.6.5 - 7.6.6 released March 2007

- Fixed polyline offset issue with Storm Drain Pipe Edges. Command would change the layer of selected polyline, but not offset it. Polyline offsets as designed. Error introduced in 7.5.0.
- Fixed issue with Elevation Label when Input Data Type set to Polyline. Under specific situations the command would incorrectly return the message "Specified point not along selected polyline. " even when the point was along the 3d polyline.
- Added option to Profile Datum Block Setup to add additional description to Land Desktop datum. Helpful to distinguish between multiple Land Desktop profile defined in the same drawing.
- Fixed non PVI station label interval in Profile: Station and Elevation. Error occurred when a PVI or VC station label's station was not exactly even to an interval, it would place a second label at the same point. e.g. 500.0000001 and 500.00 if labeled at decimal precision of 2, two labels would be placed at 500.00. Error introduced in 7.6.0.
- Fixed "Error: bad argument type: 2D/3D point: nil" and dynamic block inserted smaller than expected in Label Coordinates (Label Point), Elevation Label, and Callout Flag when the Dynamic Block options was checked and the selected placement point elevation was different than the angle point elevation.
- Fixed "Error: Item not found" in Profile: Station Label when Alignment is set to "Manual Entry" and the Options are entered for a second time.
- Added command to offset multiple objects both sides and to specified layers. See Offset Street.
- Changed the way SmartDraft deals with OSNAPs set during a SmartDraft command. Previous if a user set an OSNAP during a SmartDraft command, at the end of the command, SmartDraft would reset the OSNAP setting back to the OSNAP setting before the command was started. With this change SmartDraft checks the current OSNAP settings before it makes any changes, if the OSNAP setting was changed, it tries to maintain the change at the end of the command.
- Added option to use either a wipeout/solid masking object or the background masking property for MTEXT when using Text, Arc Text, and Attribute Mask for AutoCAD 2005 or higher. Added because the background masking property doesn't mask when plotting set to Lines Merge.

Version 7.6.1 - 7.6.4 released February 2007

- Fixed output error with Area when output set to text and selection set to Objects. Now the area text is output versus only showing the area at the command prompt. Error introduced in 7.5.0.
- Improved the response time for the Point Options and set current Point Number when using large point numbers.
- Increased the largest point number supported to 9999999 (was 32767) for all the Point Tools.
- Added option to place the Callout Flag on the current layer.
- Fixed errors when running on systems with Land Desktop installed without Civil Design. Problem introduced with rework for Civil 3D in 7.5.0.
- Added option to replace existing text, attribute, or arctext value to Text Sequential Numbering.

- Added additional information at cursor prompt when Dynamic Input, starting in AutoCAD 2006, is on for: Distance, Measure Angle, ID Point, Length (Add), List, Area, Area by Point, ID Layer, and ID Block Layer.
- Fixed error when one of the three objects was not selected in Fillet 3 limits.

Version 7.6.0 released January 2007

- Increased speed when running within Land Desktop. Command delay introduced with rework for Civil 3D in 7.5.0.
- Added command to create viewport by selecting rectangle in modelspace.
- Added command to viewport zoom setup by selecting the viewport frame.
- Added command to divide a viewport vertically or horizontally.
- Added command to align selected viewports to a target viewport.
- Added command to move the contents of a viewport vertically or horizontally by a given interval.
- Added non PVI station label interval Setup Option to Profile: Station and Elevation.
- Added command to label Land Desktop cross sections.
- Added Right - Left text justification option to Elevation Label

Version 7.5.6 released December 2006 (Added support for Civil 3D profile view object)

- Added Leader/Text option for Line Distance, Arc and Radius, Length, Tangent, Chord, and Chord Bearing in Labeling Style Manager.
- Added support for arc labeling switching sides when Step is selected and the arc style is Length / Radius, Length / Delta, or Delta / Radius in Labeling. This matches the same support in line labeling.
- Fixed error in Label / Manage Parcels when number unchecked and either area checked.
- Added support for Civil 3D Profile View datum to Profile: Station and Elevation, and Profile: Station Label.
- Added command to Create 3D polyline with elevation prompt

Version 7.5.5 released November 2006 (Added support for Civil 3D feature lines and point objects)

- Added dynamic block option to Label Coordinates (Label Point)
- Added support and option for Civil 3D point object to Point Options, Point Number, Points Manual, Points by Coordinates, Points at 20's & 80's, Points Along Objects, Points by Station and Offset, Points Connect with Polyline, and Points Import.
- Added support for Civil 3D feature lines to Labeling Commands

Version 7.5.4 released

- Fixed Text Masking - masked wasn't grouped with text. Error introduced in 7.5.0
- Fixed start Fatal Error in AutoCAD, Map 3D, and Land Desktop 2006 and earlier, if Civil 3D 2007 installed on same workstation.
- Fixed Civil 3D site selection options in Create Reports.
- Fixed labeling error when adding areas if parcel label already exists in Label / Manager Parcels.
- Added support for Civil 3D alignments and profile data to Profile: Station and Elevation, and Profile: Station Label.
- Added support for Land Desktop and Civil 3D alignment and profile data to Profile: Pipe Crossing Options.

Version 7.5.0 released November 2006 (First version to support some of the Civil 3D objects – surfaces, alignments, profiles, and parcels – More to come)

- Added support for Civil 3D alignments to Label Alignment Stationing, Label Alignment Stations and Offsets, and Laterals Along Alignment.
- Added support for Civil 3D surfaces, alignments, and profiles to Elevation Label, Elevation Label - Lot Line, Spot Elevation, and Label Slope.
- Added support for Civil 3D point and contour object elevations to Interpolate, Calculate Slope, and Calculate Elevation.
- Added object filter and select by layer option to Length (Add).
- Added new command measure and create a polyline for an enclosed area by selecting a point. See Area by Point
- Added new command to change the starting point of a closed polyline. See Polyline Change Start Point
- Added new command to create a polyline by selecting existing objects. See Create Polyline by Objects

- Added option to delete tags in the Labeling Tags Tool command.
- Arc (curve) calculation method changed in the Labeling command. Arc (curve) deltas are calculated based on the in and out radial bearings rounded to the current angular precision. This method better represents deltas calculated in a closure report and helps to reduce discrepancies between labels and the closure report. Note: Using this method may create a discrepancy between the labeled delta and the delta of the selected arc (curve).
- Added new command to define a parcel. See Define Parcels
- Added new command to label or manager the defined parcels. See Label Parcels
- Added new command to create various reports from defined parcels. See Create Reports
- Added Parcel Tools toolbar
- Added new command to create an Area Table from defined parcels or Land Desktop Parcels and the Area Table Style Manager to manager the Area Table styles.
- Added undo and arc options to Area command when using the Points selection method. Added additional error checking when selecting hatched areas.
- Added Length Graphic for PC1 and PC2 datum, and dynamic block options to the Profile Curb Return command.
- Added toggle to include layers turn off to the Layer Thaw command.
- Added by layer, Lines/Arcs or Arcs only options to the Endpoint Ticks command. Also added checking so command won't insert more than one endpoint tick of the same scale at the same point.
- Added dynamic block option to the Elevation Label command.
- Added dynamic block and leader offset options to the Point Label command.
- Updated Labeling, Labeling Table, Labeling Tags Tool, and supporting Labeling post processing tools to work even when the drawing file is "corrupted" with thousands of unregistered APPIDs. In the past, the labeling tools would stop working correctly if the drawing experienced this condition.
- Added Numbers only option to the Text Copy String (Match Text) command.
- Added command alias LSC for Label Slope.
- Added label high / low point options to the vertical curve output of the Profile: Station and Elevation command.
- Added dynamic block, leader layer, and prompt for user defined leader angle options to the Profile: Station and Elevation, Profile: Distance, and Elevation or Slope, Profile: Digitizing Planview, Profile Crossing Pipes, and Profile: Station Label commands. Dynamic block option for AutoCAD 2006 or higher.
- Added options to measure an arc to the Distance command.
- Fixed error in the Labeling Tags Tool command. A Group 10 error would occur during renumber or consolidate options if tags were placed using the offline placement options.
- Fixed SmartDraft to read Land Desktop 2007 design data.
- Added options to the Alignment Stations and Elevations command. Can select up to three profiles for an alignment. Each profile can have an adjustment value. Added options to change the station and elevation precision.
- Fixed output error on Label Contours. Contours labels will correctly remove trailing zeroes when objects have non-exact 1 unit elevations.
- Fixed and changed the Label Alignment Stationing command. Fixed the error when selecting block or Xref linework, the temporary construction lines are now removed. The command also inserts the label block and changes the attribute to the same style defined as Small Text.
- Changed the following commands when the block with an attribute is inserted, the attribute's style name is changed to match the text style defined as SmallText. Commands: Label Alignment Stationing, Reference Symbol, Arc Leader, Straight Leader, Barscale Block, North Arrow, Planview Description, Key / Vicinity Map, Sectional Bubble, Callout Flag, Interpolate, Spot Elevation, Labeling, and Point Block commands.
- Added dynamic block option to Callout Flag to output options. For AutoCAD 2006 or higher.
- Added option to toggle the selection type at the command line in Labeling. Setup toggle options in Labeling Options.
- Added warning message within Land Desktop, checking if Map is loaded without a drawing open. Informs user to close Map or open a drawing.
- Added warning message if SmartDraft finds too many unregistered APPIDs. In AutoCAD 2004 or higher, SmartDraft prompts the users to remove them and prompts the user to save and reopen the drawing.
- Fixed error "Error: Automation Error. Item not found" with Spot Elevation, Elevation Label, and Elevation Label - Lot Line commands. Error introduced in 7.3.0.
- Added support for dynamic blocks in the Block Count command.

- Fixed leader offset error in the Label Alignment Stations and Offsets command. If the command was used without opening the Options dialog box and the Leader Offset option was selected, the leader would be offset. Now it will offset without opening the Options dialog.
- Fixed layer placement error if layer set to *current* in Elevation Label, the first time the command was used, the elevation label was placed on the current layer, the next time the command was used the elevation label was placed on the label leader layer. Now places the elevation label on the current layer every time.
- Fixed broken command alias UV Crosshairs Horizontal to Screen.
- Fixed error "nil" with Edit Object's Elevation command.
- Fixed SmartDraft command response time when working with drawings created with Smart Drafting v6.x or earlier.
- Fixed error with Dimension commands, when the AutoCAD system variable DIMASSOC was set to 0. See Dimension, Dimension Outside, Dimension with Prompt, Dimension Truncate, Dimension Text - Alternate Units, Dimension Arc, and Dimension without Leader.
- Fixed problem with Drawing Setup settings command. SmartDraft synchronizes it's drawing setup values with Land Desktop. In some drawings the setup values would not hold the new values, this has been addresses and corrected.
- Added code to better support systems when both Land Desktop 2004-2006 and Land Desktop 2007 installed on the same workstation.
- Added command to update the definition of blocks in the current drawing. See Block Update.
- Added command to adjust selected elevations by both an adjustment value and source elevation. See Adjust Elevation.
- Added command to create traffic control cones along a selected path. See Traffic Control Cones.

Version 7.2.5 released July 2006

- Fixed error when option "Block" is selected on Chainlink Fence, Circle Linetype Symbol, Brow Ditch Symbol, Daylight Symbol, and Cut / Fill Symbol.

Version 7.2.4 released July 2006

- Added Text Prefix / Suffix toolbar and Text Prefix / Suffix menu
- Added command to Remove Prefix / Suffix from text.
- Fixed viewtwist 0 error introduced in 7.2.3.
- Added command to create Radial Lines.
- Added option to place the Slope Symbols on the current layer.
- Fixed error when using leader / tag - text only option in labeling style.
- The Profile Curb Return command now saves entered values. Added a Clear button.

Version 7.2.3 released June 2006 - (First version for AutoCAD 2007 & Land Desktop 2007)

- Modified the View Twist command. Now it doesn't add an elevation to the target setvar if there are any objects with elevations in the drawing.
- Added print option to Tangency Report.
- Fixed output error. Now when the Constant option is selected, the prefix and suffix text well be added to the drawing. See Elevation Label and Elevation Label - Lot Line.
- Added additional options to Matchline and Sheet.
- Added width option to Retaining Wall.
- Fixed ArcText shifting problem when using Text Edit.
- Changed Key / Vicinity Map commands to use text in place of blocks.
- Fixed the X or cancel button in the Discard or Apply changes, in the labeling styles dialog box, to Discard changes.
- Added support for standard unicode delta (\U+0394) to Labeling.
- Added support for splined polylines in Polyline Reverse Direction.
- Fixed Customization Template Manager's SaveAs button error in 2004 - 2006 based products
- Fixed SM:DwGBS error in Profile Curb Return.
- Fixed nil value error in Spot Elevation when user cancels the Browse block dialog box.

Version 7.2.2 released March 2006

- Added option to install blocks with masking as either the solid or wipeout object as the masking method.
- Fixed Customization Template Folder path reassignment in Program Options. Problem introduced in version 7.2.0 with the addition of Network Options.
- Added support for Civil 3D points to Point Label.

- Added support to the Area command to update area labels when Selection type is set to Object and Output type is set to Text.
- Added support for the for the layer properties lineweights and named plot styles to layer database, Layer Make, and Layer Database Manager.
- Fixed slope calculation error on Elevation Label. When entering a slope adjustment, the command calculated the elevation to the left side of the alignment incorrectly.
- Added option to open an xref from a dialog box list all the XREFs in the drawing.
- Added toggle for each label options, elevation prefix and suffix, option to label vertical curve PI stations, option to label vertical curve distance, option to label stations at a specified interval, and an option to enter specified stations.
- Added options to select a point in the planview for station, and label station and elevation in profile.

Version 7.2 released January 2006

- Added new letter sequencing option AA > BB in Text Sequential Numbering.
- Added station, offset, and 3rd elevation labeling output options to Elevation Label. New location placement options added. Option to save settings as a style added.
- Added additional network installation setup options.
- Modified Dimension Arc to support dview twist.
- Modified Dimension, Dimension Outside, Dimension with Prompt, Dimension Truncate, Dimension Text - Alternate Units, Dimension Arc, and Dimension without Leader to use the new "Dimension" text style.
- Added "Dimension" text style to the list of preset text styles in SmartDraft.
- Added support for irregular shaped viewports to the North Arrow command.
- Fixed problem when xreference drawing name has a space in it using Open external reference file (XREF).
- Fixed Customization Template Manager lockup when trying to edit Labeling Styles. Problem introduced in version 7.1.0.
- Fixed problem when inserting unitless blocks. Set INSUNITS to 0 so SmartDraft blocks scale per design, vs. per units conversion.

Version 7.1 released October 2005

- Added command to create alignment labels along the profile.
- Added command to create profile labels along the alignment.
- Added leader offset option to Label Alignment Stations and Offsets.
- Added the option to select a point in planview along a Land Desktop alignment and calculate the slope value for profile.
- Added bench offset option to Toe / Top of Slope.
- Added dialog interface and curb offset option to CUL-DE-SAC.
- Added a width and length option to Slope Symbols.
- Added command to delete Land Desktop Point Groups.
- Added command to create a 3d polyline from a Land Desktop profile.
- Added an option to select viewport boundary in paperspace to rotate north arrow per the twisted viewport.
- Added command shadow rectangle / box and alias RTS.
- Added command alias SDP for Storm Drain Pipe Edges
- Added support for arc text to Text Edit
- Added command to change the colors of xreferences to screened colors.
- Added command to rotate selected object and align to another object.
- Added Multiple and Single target option to Text Copy String (Match Text).
- Changed DIMGAP value to 0.05 for the leader commands.
- Fixed two issues with the Layer Isolate command. In some files it would turn off all layers, and others it wouldn't turn off any layers.
- Fixed attribute selection error when option point = object for Calculate Slope.
- Fixed polyline width variable. Set to 0 at the beginning of commands using polylines. Set to original value at the end of commands.
- Fixed a problem in the drawing setup dialog box. At times the decimal precision doesn't stay as set.
- Fixed decimal precision problem in the dimension tool when using the new associative dimension object type.
- Fixed error in Change Bearing Direction. Now changes bearing text if space between N, S, E, W and bearing.

Version 7.0 released July 2005

- Announcement: Product renamed to SmartDraft Suite from Smart Drafting
- Added support for AutoCAD 2006 and Land Desktop 2006
- Added justify option to Text Parallel or Tangent
- Added toggle to enable and disable SmartDraft's Mode Status Line and added additional display options.
- Added option to specify different reference symbols in Profile Curb Return.
- Added option to use associative dimension objects for Dimension, Dimension Outside, Dimension with Prompt, Dimension Truncate, and Dimension without Leader.
- Added support for custom point blocks for Point Options, Points Manual, Points Check, Points by Coordinates, Points at 20's & 80's, Points Along Objects, Points by Station and Offset, Points Import, Points Export, Coordinate Table, Point Label, Points Connect with Polyline, and Points: Select by Range or All.
- Added the 3D polyline tool Offset 3D Polyline.
- Added new style based output to Coordinate Table.
- Added profile slope placement option of above or below to Profile Setup Options, Profile: Distance, and Elevation or Slope, and Profile: Angle, Draw, Inquire, Label, or Pipe.
- Added incoming (G1) and outgoing (G2) slope options to Profile Vertical Curve Information, for Profile: Station and Elevation command.
- Added profile direction option to Profile: Angle, Draw, Inquire, Label, or Pipe to correct labeling of the minus sign when determining decreasing slopes.
- Added pipe size prompt to Profile Crossing Pipes, and Profile: Angle, Draw, Inquire, Label, or Pipe.
- Added leader offset option to Profile Setup Options, Profile: Distance, and Elevation or Slope, Profile Curb Return, and Profile Crossing Pipes.
- Added option to change the Vertical Scale in Profile Crossing Pipes
- Added command alias LMK for Layer Make.
- Added searching for empty text strings in arc text.
- Added option for either copy or draworder to Redefine Blocks.
- Added option for return in Knuckle to be an arc or a line.
- Added option for user defined header text in Labeling Table and Labeling Table Style Manager.
- Added option to specify if the tag number will be text or the symbol with text in the value line.
- Added option to include labeling data when inserting reference symbols.
- Added Oval to the Reference Symbol list.
- Added command to create a toe of slope.
- Added Coordinate Table Styles and Styles File Manager to Customization Template Manager.
- Added option for start point and elevation to move to next point for Calculate Elevation.
- Added support for arc text and mtext to Text Add Prefix / Suffix.
- Added dialog box interface to Change Angle.
- Added the option of Object (single selection) to the selection types of Area.
- Added support to update existing masks for Area, Attribute Move, Attribute Rotate, Attribute Move and Rotate, Attribute Replace, Join Strings, Text Add Prefix / Suffix, Text Adjust Numbers, Text Align Parallel or Tangent, Text Copy String (Match Text), Text Fit, Text Horizontal, Text Mathematics, Text to Mtext, Text Respacing, Text Vertical, Text X Align, Text Underline, and Text Overscore. The mask will update when changes are made to masked text.
- Added elevation adjustment option to Edit Object's Elevation.
- Added command to remove Layer Filters, RLF.
- Added command to toggle automatic removal of Layer Filters when a drawing is open RLFAUTO.
- Added command to erase all objects not selected, EO.
- Added command to remove Express Tool's Layer States from the drawing RLS.
- Added support for arc text for input and output with Text Mathematics.
- Added command to label point blocks or Land Desktop point object.
- Added prefix and suffix option to Text Copy String (Match Text).
- Added prompt to indicate matching endpoints when using Measure Angle.
- Modified Label Contours to use the same masking method as Text, Arc Text, and Attribute Mask.
- Modified "Offset both sides" prompt as an option for Offset to Current Layer and Offset from Xref/Blocks.
- Modified Text Edit to resize the reference symbols to accommodate the changed text string.
- Widened layer list box for Layer Thaw.

- Change the option from Value to Adjust for Text Copy String (Match Text) and Text Adjust Numbers to match option text of other commands that adjust numbers.
- Changed the layer the Area command places new text. Now place on layer index 75 for proposed and demo, and 76 for existing.
- Changed elevation input of Interpolate to match Calculate Slope.
- Changed the slope output option of Calculate Slope to match Label Slope.
- Fixed Rotate Along an Arc or Circle nil point error when selecting the last segment of a closed polyline.
- Fixed Dimension Truncate so osnap dialog box will close.
- Fixed masking error when arc text / labels were moved from model space to paper space or scaled.
- Fixed Reposition Labels and Arc Text so it now stays on correct layer, doesn't move to layer 0, and works if rescaled or moved from model space to paper space.
- Fixed angle display after selecting an angle in Elevation Label.
- Fixed Measure Angle with Line to Arc comparison. Should not give false negative "Line does not intersect arc."
- Fixed error - dimstyle / text style not reset at the end of a command.
- Fixed the settings for width, radius, and offset in the CUL-DE-SAC command are saved. The next time the command is used, the previous settings are used as the default.

Version 6.6.9 released November 2004

- Added command to calculate elevations from a selected point and elevation, by a slope, to specified points.
- Added commands to open the next or previous drawing file, if your file name end with a number and is sequential based on that number.
- Added Reference point option to Rotate Along an Arc or Circle.
- Added layer output option to Elevation Label.
- Added Bearing Space option to Radial Bearings.
- Added support to update existing masks for Text Edit DD, Change Label Direction CLD, Change Label Precision CLP, Reposition Labels and Arc Text RPT, and Scale Labels SLB. The mask will update when changes are made to masked text.
- Added Text, Arc Text, and Attribute Unmask with command alias AU.
- Added XCLIP match. XCM Apply the xclip boundary of a source Xref to selected Xrefs.
- Fixed the settings for width, radius, and offset in the CUL-DE-SAC command are saved. The next time the command is used, the previous settings are used as the default.

Version 6.5.0 released August 2004

- Added support for AutoCAD 2005 and Land Desktop 2005
- Retired Change String command.
- Added text, arc text, or attributes mask to the menu and toolbars.
- Added retirement notice to the Data Tables command.
- Added option to create retired data table output in the Labeling Table command.
- Added option to include or exclude duplicate tags in the Labeling Table command.
- Added tool to zoom to, renumber, or consolidate labeling tags.
- Added support for an arc or a line as the first selected object and expanded objects within blocks or Xrefs in the reverse curve tool.
- Added support for the Land Desktop profile setup block to Profile: Station and Elevation, Profile: Digitizing Planview, Profile Station Labels, and Profile Crossing Pipes.
- Added options to change default osnaps for dimension commands.
- Added command aliases: ES for Spot Elevation, ATR for Attribute Rotate, ATV for Attribute Replace, and BX for Block Explode Attributes to Text.
- Added command to label slopes.
- Added create a line at a turned or deflection angle.
- Added command line version to Layer Convert Colors for use in AutoCAD scripting.
- Modified Toolbars: Text Tools, Text Tools II, and Design Tools
- Changed prompts. No longer need to press ENTER at Specify elevation prompt to enter a numeric elevation, now either select text object or enter numeric elevation at the Specify elevation prompt.
- Fixed Text in an Arc so when arced text changes the layer the properties also changes.
- Fixed rounding errors in Profile: Angle, Draw, Inquire, Label, or Pipe.

Version 6.3.0 released March 2004

- Added an arc option to Calculate Slope.
- Added pipe offset option to Profile: Angle, Draw, Inquire, Label, or Pipe.
- Added an elevation or slope option for the elevation prompt of the Profile by Distance, and Elevation or Slope.
- Added option to specify starting and ending stations for drafting of profiles from Land Desktop profiles.
- Added select text value or objects elevation option to Edit Object Elevation.
- Added new Label the distance of a selected arc.
- Added select color option to solid type of the label contour command.
- Added value adjustment option to the Calculate Slope command and ability to select the elevation from lines, arcs, polylines, splines, and Land Desktop contours.
- Added create 3d polyline from selected object.
- Added highlight option to Edit Elevation of Polylines and Adjust Numbers.
- Retired the Edit 3D Polyline command. Use AutoCAD's Properties command.
- Added support for blocks with attributes to Multiple Text Strings editor.
- Added undo options to Copy String (Match).
- Added Point Selection by Range or all.
- Added create elevation label manually, 3d polylines, or Land Desktop profiles and surfaces.
- Added Drawing Setup command alias DDS.
- Added option to interpolate along an arc.
- Added Undo option to the adjust text numbers command.
- Added dimension truncate with suffix text.
- Added objects Layer to each line of the report file.
- Added Undo option to labeling.
- Added alternate unit bracket type, and set label style current from a selected label to Labeling Options.
- Added Delta prefix option to Labeling Table Style Manager.
- Added support for tag letters in the labeling and label tables.
- Added precision option to Label Grid Coordinates.
- Added toggle between Model tab and last layout tab (paper space) and adjust LTSCALE.
- Added detection of new layers between initial use and subsequent use.
- Added truncate type to truncate numbers to the specified precision vs. rounding.
- Added new output options to Alignment Labeling of Station and Offset.
- Added create a line at the bisection angle of two selected lines.
- Added copy text string to target.
- Added command alias PREN which adds the prefix "(" and the suffix ")" to selected text.
- Added new command aliases. BCT, BRT, PX, and TFF.
- Added rotate blocks or text using insertion point as base point.
- Added support for Architectural Units with some commands.
- Added insert a pipe-crossing symbol along selected objects.
- Added command to add the lengths of selected arcs, ellipses, circles, lines, polylines, and splines.
- Updated profile calculator's dialog box. Added calculation type to list box.
- Updated Points Manual, Points by Coordinates, Points at 20's & 80's, Points Along Objects, Points by Station and Offset, Points Import, and Points: Move Object to Current Point Layer to support the new Point Options.
- Updated point options.
- Updated the Customization Overview and Layer Database Overview sections of the help file.
- Updated the Profile Setup, Layer Database Manager, Drawing Setup, Text Styles, and New Drawing Settings dialog boxes.
- Modified Slope Calculation to honor the station and elevation precision.
- Modified Crow's Feet placed with Crow's Feet - Automatic to repositioned and scaled along with labels.
- Changed Load Linetypes to read both linetypes defined in the current Customization Template and AutoCAD's ACAD.LIN file.
- Changed prompt format so users do not have to leave command to change between options.
- Changed distance command to display running total and magenta dragline of selected path.
- Change Radial Bearing so dialog box does not appear every time the command starts.
- Changed (flip) text direction added to change direction command.
- Changed bearing direction separated to its own command.
- Changed dialog box as option to Slope Symbols.
- Changed prompt and option changes made to profile tools to streamline interaction with Land Desktop.
- Moved Load Linetypes icon to the Layer Tools II toolbar, and menu command to Layer menu.

- Renamed the following commands: Insert Block to Block Manager, Load AutoLISP to AutoLISP Manager, Labeling Style Setup to Labeling Style Manager, and Labeling Table Style Setup to Labeling Table Style Manager.
- Renamed Default Customization Template to User Customization Template, and Default Drawing Settings to New Drawing Settings.
- Removed Drawing Settings toolbar. Drawing Setup on main toolbar only.

Version 6.2.0 released July 2003

- Command aliases now referenced in toolbar help strings of the menu.
- Added new command aliases. ASD, DSA, DSD, DSN, DSO, DSP, LSD, OM, and TAR.
- Added insert an arrowhead at the end of selected objects.
- Changed the name and prompts of List Points command. New name Coordinate Table.
- Added increment value to sequential numbering.
- Added a SmartDraft and PS-SmartDraft dimstyle. All of SmartDraft's dimvar changes are done in these two dimstyles.
- Added output option in Label Tables for Retired Annotation Tools.
- Added create a spot elevation from multiple methods.

Version 6.1.0 released January 2003

- Added open external reference file for editing.
- Added symbol option to arc and straight leader.
- Added ability to reposition arc text.
- Added drag image to arc text.
- Changed leader of reference symbols to use AutoCAD's leader object.

Version 6.0.0 released November 2002

- Added support for AutoCAD 2002 and Land Desktop 3
- Added Output options to area command.
- Added K Value output option for vertical curves in profiles.
- Added the option to draw the distance dimension when drawing profiles by elevation and distance.
- Added draw Profiles from Land Desktop vertical design information.
- Added support for three line profiles.
- Added option to draw station flag label with crossing pipe.
- Added radius point options to Points Along Objects.
- Added new and improved labeling tool.
- Added crow's Feet - Automatic.
- Added scale, reposition, and change label precision.
- Added labeling styles and labeling table styles.
- Retired old annotation command.
- Added option to insert Labeling arrow with or without a break symbol.
- Expanded Pull-down menu.
- Menu redesigned, and new icons.
- Renamed Project Templates to Customization Templates to removed naming conflict with Land Desktop.
- Added text string rounding, decimal precision change, and additional math function to the adjust text command.
- Added orthomode option to sequential numbering.
- Added find vertical deflection angle option.
- Arc text in labels now a block and can be edited with Text Edit.
- Arc text now a block and can be edited with Text Edit.
- Added Profile File from Points Along an Alignment.
- Added option in Measure Angle to check if two arcs are concentric.
- Added zoom handle.
- Added text dimension metric.
- Added ALTA labeling, Label a distance, direction and description label.

Version 5.5.0 released December 2001

- Added support for AutoCAD 2000i and Land Desktop 2i

- Added calculates the area and perimeter of selected objects and points.
- Added Land Desktop 2i alignment database support.
- Added Land Desktop 2i point object support to point commands.
- Added point selection option to data table creation.
- Added list station and FG elevation at selected points from an LDT alignment.
- Added list station and FG elevation at selected points from crossing LDT alignments.
- Added change the layer type. Cycle layer type between Proposed, Existing, and Demolition.
- Added option Add, Subtract, Multiply, and/or divide numeric values of selected text, mtext, or attribute objects.
- Added connect point with a polyline or 3dpoly.
- Added insert points along a line at 20's and 80's.
- Added adjust the spacing between selected text strings.
- Added update labels to layer. User can either select layer from list or from objects in the files.
- Added update point station/offset to work with blocks, and external references.
- Added draw laterals along an alignment.
- Added change bearing direction.
- Added reverse the direction of a polyline.

Version 5.0.0 released June 2001

- Added support for AutoCAD 2000 and Land Desktop 2
- Added option to include/exclude solid circle in for the Callout flag.
- Added earthwork volumes: Contour method.

Version 4.52 released December 2000

- Last release to support AutoCAD R14
- Added rotate crosshairs to selected line.
- Added join two arcs, lines or text strings.
- Added create a Knuckle from two intersecting lines.
- Added tool to create reverse curves.
- Added leader object option to Arc/Straight leader.
- Added dimension object option to dimension.
- Added Force North Bearings to the radial bearing command.
- Added an option to special linetypes. Either a linetype or a block along the object.
- Added masking option to contour labeling.
- Added multiple lines text editor.
- Added north arrow command to add the scale to the north arrow.
- Combined the Freeze layer and Freeze Block/Xref Layer command.
- Added Draw, Label and Inquire to profile slope command.
- Added Angle Point Symbol to the MONOPLEX.SHX font.
- Added option for a separate table for lines and arcs. Added chord and chord bearing to arc labeling.
- Added adjust the number within a text string.
- Added create an alignment tangency report for selected objects.
- Updated X alignment to use the angle of the selected text not the current viewtwist angle.
- Updated measure angle with the additional option to measure angle between a line and an arc.
- Updated create grid labeling to use drag image.
- Added elevation flag in user specified directions.
- Added crow's feet in user specified directions.
- Retired north arrow text.

Version 4.0 released March 1999

- Added support for AutoCAD R14
- Added current layer object for target layer

Version 3.5 released December 1998

- Last release to support AutoCAD R13
- Added control to style for width and oblique angle.
- Added suppress trailing zeros in dimensions.
- Added Customization Templates.

- Added calculate slope from two selected points with elevation.
- Added spot elevation block.
- Added the ability to place stationing along block and Xref objects.
- Added the ability to station and offset along block and Xref objects.
- Added reference symbols with or without an arc leader.
- Added Fillet 180d to Fillet toolbar on the Modify toolbar.

Version 3.0 released March 1998

- Added support for AutoCAD R13.
- First version with Windows Help file.

Version 2.0 released June 1992

- Added support for AutoCAD R12
- Announcement: Product renamed to Smart Drafting from ITEZHIA

Version 1.0 released March 1989

- Release with the name ITEZHIA

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