

## DesignCAD 3D Max 19.1 Release Notes

Mar . 20, 2009

DesignCAD 19.1 offers the following fixes and enhancements:

- The number of useable layers was increased from 1,000 to 2,000.
- Fixed problem with PointXYZ command's Z value changing to previous Y value.
- Fixed problem with the default drawing location changing to the most-recently-browsed folder. The default drawing location is now restored when you close and restart DesignCAD.
- Fixed problem with hatch patterns in imported drawings reverting to WIN\_SOLID after closing and restarting DesignCAD.
- Fixed problem where, after drawing one dimension with the Fixed Text option, then saving and re-loading the file, all dimensions changed to Fixed Text.
- Fixed crash when using Perpendicular to a Line in Double Line Mode.
- The "Browse Missing Symbol, Bitmap or Texture Files when Loading Drawings" option now affects importing DWG files – if the option is not checked, DesignCAD will no longer prompt you to browse for each missing XREF or image file.
- The ENT\_HANDLE parameter in BasicCAD now returns the updated handle locations after the entity has been moved.
- Fixed problem with the Hatch Fill command, so that it no longer treats objects on hidden layers as boundaries. Previously if you had a rectangle on a visible layer, and two circles on a hidden layer that were inside the rectangle, the hatch fill could incorrectly exclude the hidden circles.
- Selecting a predefined scale in the Print command now correctly updates the Width, Height, and Scale fields.
- In Paperspace Mode, if a viewframe is set to a specific scale, toggling the "Draw Outline" setting via the Paperspace Toolbar no longer changes the viewframe scale.
- The BasicCAD INPUT statement again allows the parsing of numeric expressions in the Input dialog box.

**Note:** This will require that you enter multiple numeric variables in the Input field separated by commas. For example, if you have this statement:

Input "Enter three numbers:", x, y, z

the user **must** separate the entered values with commas. Otherwise negative numbers may be treated as part of an expression. If the user enters "5, -5, -10", then x will be 5.000, y will be -5.000, and z will be -10.000. If the user enters "5 -5 -10" (separated only by spaces), then x will

be -10.000 (  $5 - 5 - 10 = -10$ ), y will probably NOT be -5, and z will probably NOT be -10 (depending on the recent history of those two variables).

**Note 2:** You can also enclose expressions in parentheses. In the example above, the user could enter "-10, (5\*2.54\*tan(30)), (15 - 100\*sin(15))", resulting in  $x = -10.000$ ,  $y=7.332$ ,  $z=-10.882$ . The commas, however, are still required.

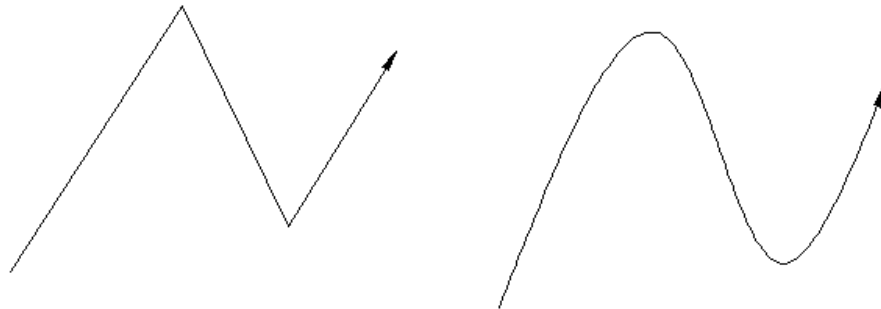
- The prompt for the Tangent Arc command has been restored.

DesignCAD 3D Max 19.0 Release Notes

Dec . 11, 2008

DesignCAD 3D Max 19 offers the following new features:

- A new option in the Arrow command "Draw as Curve" allows you to draw arrows as curves instead of straight lines.



- There is a new option in the Grid Options dialog box: "Show CS". This shows a graphical representation of the coordinate axes in the drawing area.



- There is a new option in the General Options dialog box: "Don't use nested groups". If you activate this checkbox, DesignCAD will use its "classic" grouping mechanism from version 15 and earlier. In this situation, groups are not linked to a specific layer, cannot be nested, and do not generate an actual group entity. The setting is application-wide, not per-document. When this option may cause a change in an open drawing's data, you will be warned and can cancel the operation.
- There is a new option in the "Type" tab of the Print dialog box: "Print hidden line as dash". The dashed lines are very thin, so you may need to increase the pen width setting in the Print dialog box for the lines to show clearly in your printed results.
- Improved snap, trim, and intersection accuracy on curve entities.
- BasicCAD additions:  
 Sys(1140) -- use/don't use nested groups. 0=nested groups, 1 = "old-style" groups.  
 Sys(1141) – highest used group index (read-only)  
 Sys(1142) – lowest unused group index (read-only)  
 >Arrow command has new parameter: <CurvedArrow [0 = straight, 1 = curved]

#### Fixes and improvements:

- Widened the fields in the coordinate bar to show more digits.
- Importing some dwg files resulted in a long series of "the associativity will be removed" messages. Every attempt to edit or zoom these files resulted in the same sequence of messages. This annoyance has been removed.
- Immediately after importing a dwg file with an Arc dimension, the drawing extents were incorrect and some display anomalies occurred. Saving and re-loading the drawing were required to solve the problem.

- AutoCAD drawings done in metric units did not import using the correct base measurement unit, but always reverted to inches.  
**Note:** Unitless dwg files will still automatically default to feet, which is DesignCAD's assumed unitless basis. For such drawings, use the Units of Measurement command to adjust the drawing to the proper units in this case. DO NOT check the "rescale to new units" box, or it will scale all the coordinates as if the units of feet had been correct.
- Radius Dimensions sometimes showed display anomalies if using Same As in conjunction with Running Snap Mode.
- Many dimension problems when loading older-version drawings were fixed.
- Exploding a group sometimes resulted in more than one remaining group becoming merged. This has been corrected, and the maximum allowable group id has been increased.
- 3D dimensions with vector-font text had the text aligned incorrectly.
- DesignCAD would not draw dual-tolerance dimensions if the + and – tolerance values were the same. Both values were consolidated into a single +/- tolerance format.
- Sometimes loading drawings that contained a large number of unused blocks would cause DesignCAD to silently close without an error message.
- Could not change Dimension Tolerance type to "None" after choosing Symmetrical or Normal in the Dimension Options dialog box.
- True-Type text in exported wmf files was converted to single letters, which would then appear jumbled.
- Sometimes text in imported dwg blocks was missing or the wrong size.
- Appended dimension units in the dimension text (i.e. ft, in, m, cm, etc) are now optional, rather than automatic.
- Could not re-associate a radius or diameter dimension using the docked info box.
- Dimensions were sometimes displaced in exported PDF file.
- Corrected the calculation of the Offset value in Dimension Baseline command.
- Improved layer control for Paperspace Viewframes.
- BasicCAD – INPUT # statement would sometimes treat negative numeric values in space-delimited text files as an expression rather than as separate values, resulting in incorrect variable assignments.
- BasicCAD – added <SkipLayouts parameter for DwgIn and DxfIn commands to allow the user to specify whether or not to skip layouts when importing.
- BasicCAD – extended dimensions weren't honoring the <Type parameter to create exploded dimensions.
- Clicking on the bottom layer in the layer list in Dimension Options would scroll the layer list, instead of activating the intended control for that layer.
- Improved the Linestyle and Color toolbar behavior to better indicate by-layer or by-entity colors and linetypes. Correct "current" linestyle now shown after loading a drawing. Added LineStyle by Layer button to the Linestyle toolbar, and Color by Layer button to the Color toolbar.
- Intersect-2 was not working correctly when the entities did not actually intersect.
- Browsing for missing by-reference symbols sometimes caused DesignCAD to crash.

- Images could not be copied from PDF files and pasted directly into DesignCAD.
- A DesignCAD session started via Ole Automation would crash when the Print command was issued.
- Allow Saving Empty Drawings moved from Save dialog box to General Options dialog box.
- Improved Snap and Trim accuracy against curve entities.
- Improved Hidden Edge by Section behavior – now, if a section touches/encloses a combination of hidden and un-hidden lines, all touched edges will be hidden. When all touched/enclosed edges are in the same state (hidden or visible) the command toggles their state to/from hidden.
- Red and blue color channels were swapped when loading some TIFF image files.
- Dimension Baseline offset field added to Dimension Options dialog box.
- Paste button had been removed from the Dimension Options dialog. Now restored.
- XYZ import was incorrectly requiring the presence of z-values, even for 2D data.
- Dimensions did not update onscreen after running the Units command. Save and re-load were required.
- Panned viewframes at specific scales no longer shift when new objects are added after the viewframe was set up.
- After re-defining a block, attribute definitions in existing instances of that block name would revert to the default text instead of retaining their original values.