

Release Notes - ZWCAD+ 2015

Vernum= 2014.09.20(25578)

ZWCAD+ 2015 — easy, lightweight, and empowering.

This update contains new features such as: Unicode, Sweep & Loft, Super Hatch, Reference Manager, and Google Earth map import. Other improvements include: a cleaner UI and new API, a more powerful Syble for file sync, and the ability to plot translucent PNG image.

We work hard to make designing more efficient for you.

1 New features

1.1 Support Unicode

ZWCAD+ 2015 supports Unicode, which enables you to use multi-language texts in the dialog box, drawing path, drawing name, and programming.

Following are detailed improvements.

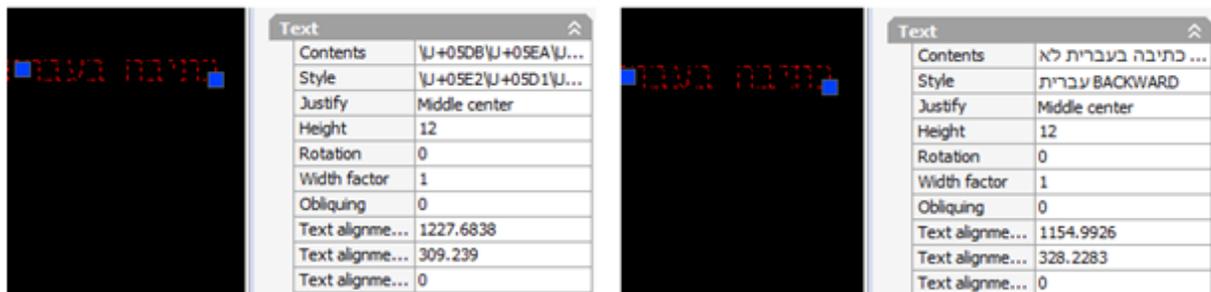
1.1.1 Multi-language texts show correctly in dialog box

Multi-language texts show correctly in many dialog boxes, including:

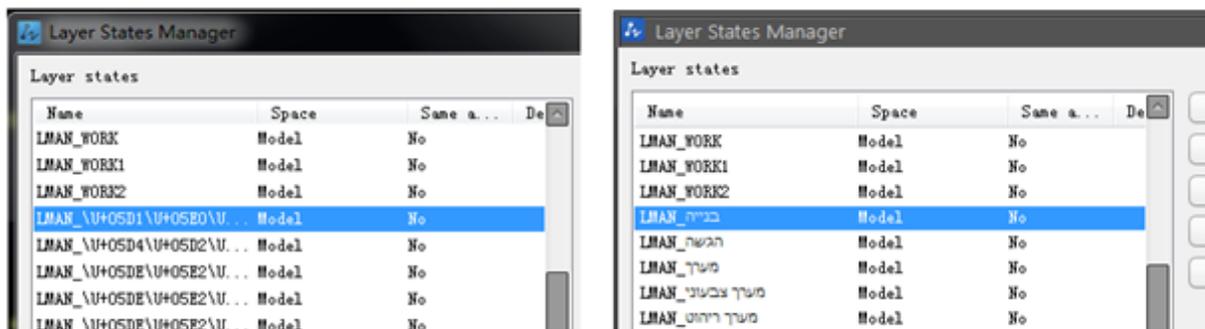
Layer Properties Manager	Plotter name in Plot dialog box
Layer States Manager	Layout tab
Layer Filter	Group, Block
Linetype Manager	UCS
Text Style	View Manager
Dimension Style Manager	Viewports
Table Style	Rename
Multileader Style Manager	LIST command & Results
Multiline Style	Properties palette of single-line text
Hatch Name	Properties palette of multi-line text
Page Setup name	Attribute
Paget style table name	Xref Manager
Paper size	Image Manager



In-Canvas Menu with Special Symbol

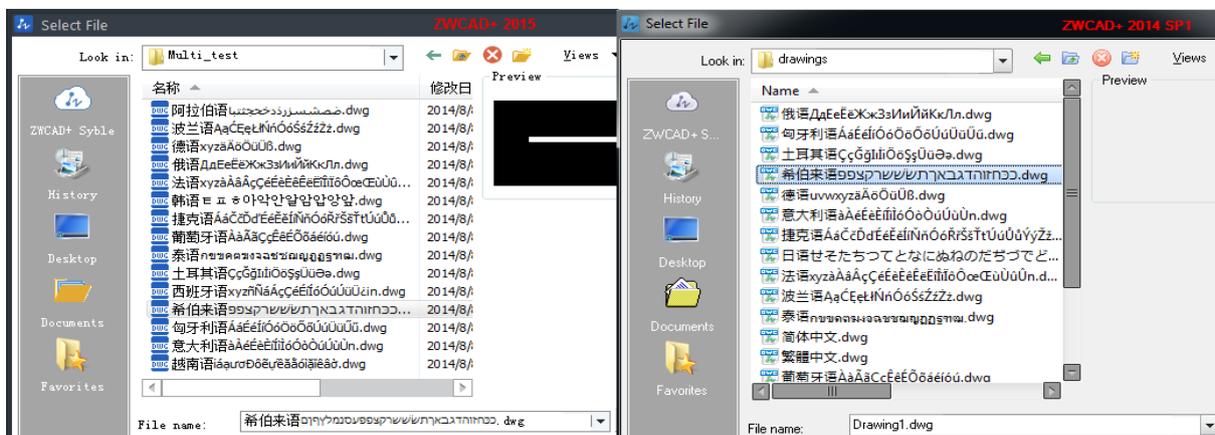


Property Bar with Multi-Language Capabilities



Dialog Box with Multi-Language Capabilities

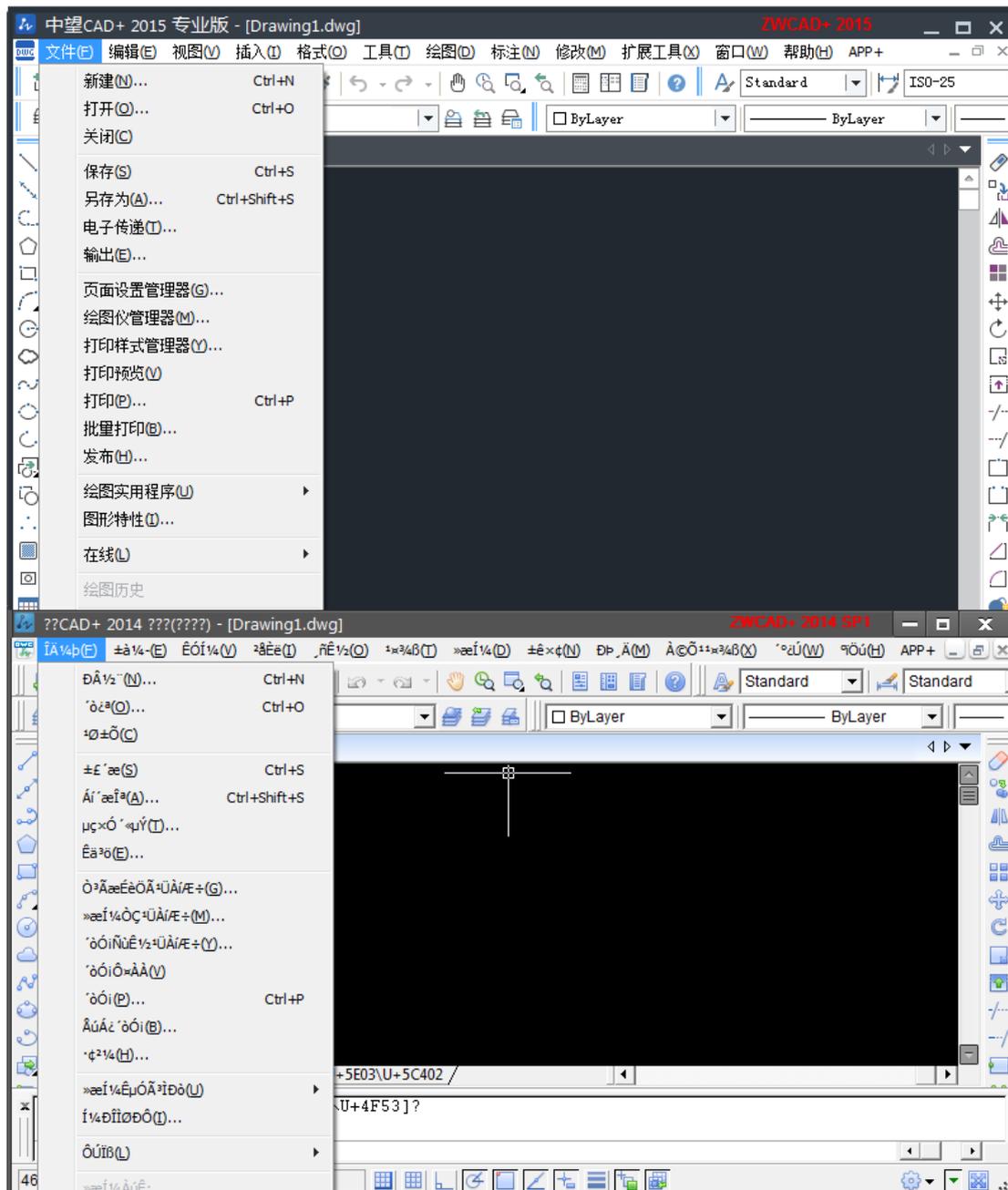
1.1.2 Multi-Language Capabilities are also enabled when opening or saving a file



ZWCAD+ can open or save correctly when the file name or folder name are multi-language.

1.1.3 Consistent interface regardless of region language

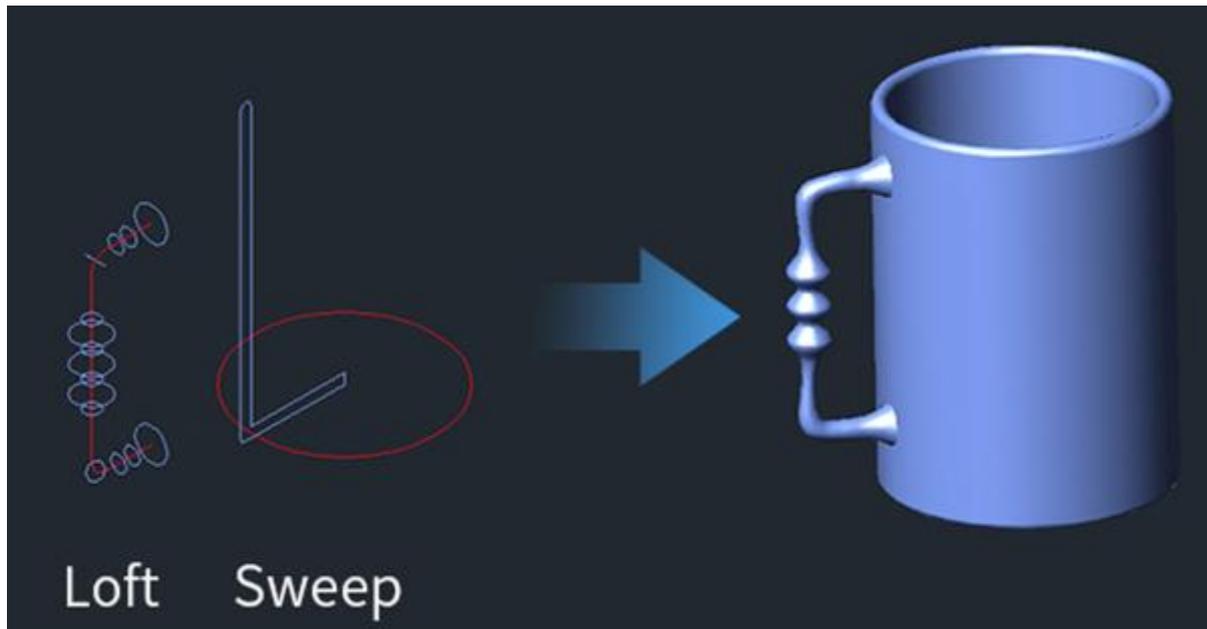
ZWCAD+ 2015's entire interface will show correctly and match the system in whichever language you choose (ie. Classic menu, dialog box, and palettes).



1.2 Sweep & Loft

Command: SWEEP, LOFT

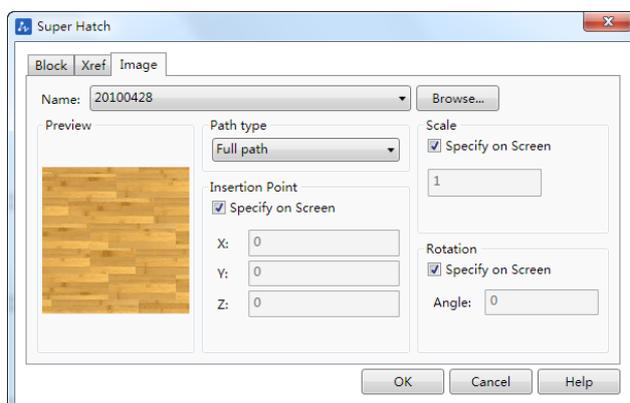
Designing a complicated 3D model in 2D CAD leaves many feeling stranded. The newly added Sweep and Loft functions make the work easier. Simply draft a cross section and path or different cross sections into different positions and the Sweep and Loft function will develop a 3D model - lag-free.

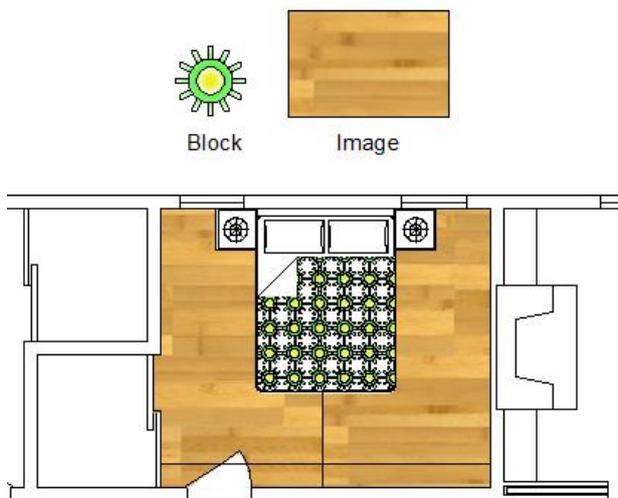


1.3 Super Hatch

Command: SUPERHATCH

Super Hatch extends the traditional Hatch function by enabling hatching with block, external reference and image.



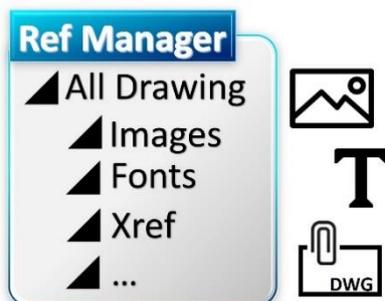
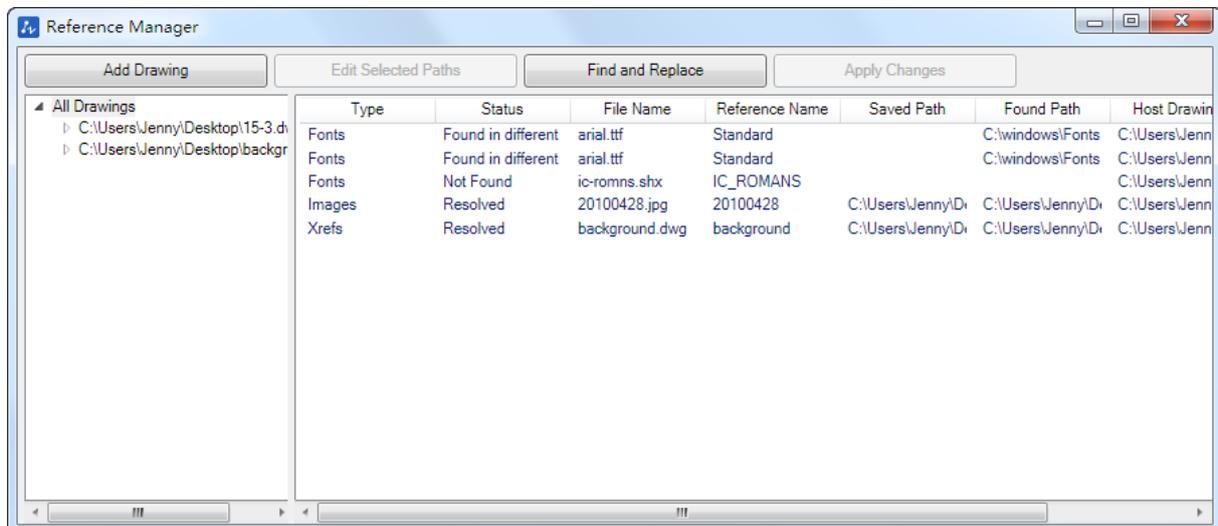


1.4 Reference Manager

Command: REFMANAGER

Reference Manager helps you to manage all external resources with ease. External resources such as font, image, and external referenced drawings can be listed in the Reference Manager Dialog box. You can view the reference information without opening the drawing and you can even edit the reference resource in batch.

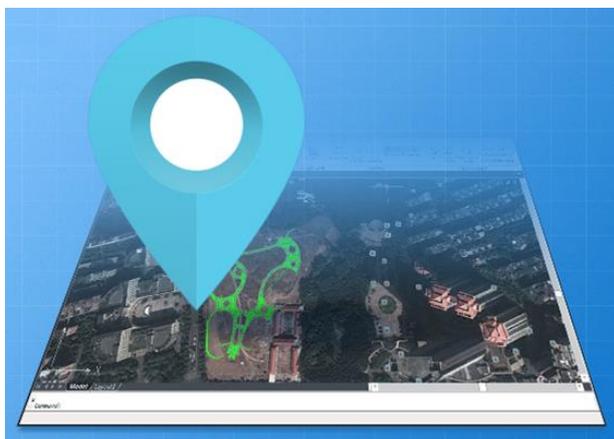
For example you can save the reference to another path, or replace the reference with another one.



1.5 Import Google Earth map

Command: GEIN

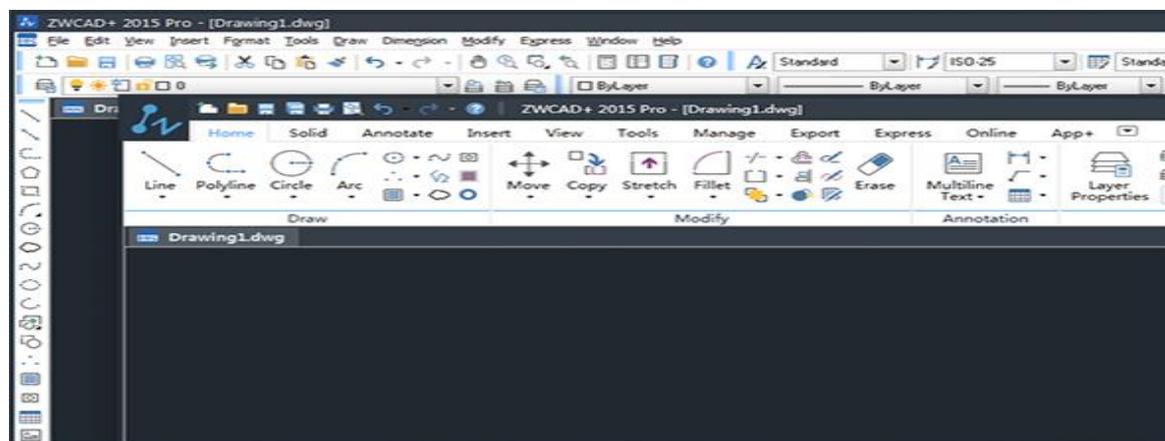
With Google Earth integrated, now ZWCAD+ can directly import a graphic snapshot from Google Earth. This enables you, the designer, to review the final result in a real, up-to-date map.



Please see *Appendix A* for further details on Google Earth integration.

1.6 Simpler and Cleaner UI

The entire user interface now comes more neat, flat, and intuitive to mitigate visual fatigue when designing for long hours. With less visual interruption, it makes you feel more focused on your design and efficiency improved.



1.7 ZRX and .NET new functions

New ZRX functions:

```

BOOL acedAddDropTarget(COleDropTarget* pTarget);
BOOL acedRemoveDropTarget(COleDropTarget* pTarget);
BOOL acedStartOverrideDropTarget(COleDropTarget* pTarget);
BOOL acedEndOverrideDropTarget(COleDropTarget* pTarget);

```

```

BOOL acedRegisterCustomDropTarget(IDropTarget* pItarget);
BOOL acedRevokeCustomDropTarget();
Acad::ErrorStatus acedTraceBoundary(const AcGePoint3d& seedPoint, bool detectIslands,
AcDbVoidPtrArray& resultingBoundarySet);
Acad::ErrorStatus reclaimMemoryFromErasedObjects(const AcDbObjectIdArray& erasedObjects);
Acad::ErrorStatus toPolyline(AcDbCurve*& pCurve, int precision = 10, int* maxSuggestedPrecision =
NULL, unsigned int numOfVerticesThreshold = kPlineVerticesThreshold) const;
void getSamplePoints(int numSample, AcGePoint3dArray& pointArray, AcGeDoubleArray&
paramArray) const;
bool acedLoadPartialMenu(const TCHAR* pszMenuFile);
bool acedUnloadPartialMenu(const TCHAR* pszMenuFile);

```

New .NET classes:

```

class RevolveOptions
class RevolveOptionsCheckRevolveCurveOut
DynamicBlockReferenceProperty
DynamicBlockReferencePropertyCollection

```

New .NET interfaces:

```

DBObject.GetField()
DBObject.GetField(string)
DBObject.SetField(Field)
DBObject.SetField(string, Field)
ClipBoundary2d.ClipPolygon(Point2dCollection)
ClipBoundary2d.ClipPolyline(Point2dCollection)
Database.ReclaimMemoryFromErasedObjects(ObjectIdCollection ids)
Database.ResolveXrefs(bool,bool)
Editor.TraceBoundary(Point3d,bool)
Spline.ToPolyline()
Spline.ToPolyline(uint)
Spline.ToPolylineWithprecision(uint)
Solid3d.CreateRevolvedSolid(Entity, Point3d, Vector3d, double, double, RevolveOptions);
Solid3d.CreateRevolvedSolid(Entity, SubentityId, Point3d, Vector3d, double, double, RevolveOptions);
Application.LoadPartialMenu(string)
Application.UnloadPartialMenu(string)
BlockReference.ConvertToStaticBlock()
BlockReference.ConvertToStaticBlock(string)

```

New .NET properties:

```

AttributeReference.MTextAttribute
AttributeReference.IsMTextAttribute
BlockReference.DynamicBlockReferencePropertyCollection

```

New .NET Enumeration:

Database.DynamicBlockReferencePropertyUnitsType

2 Improvements

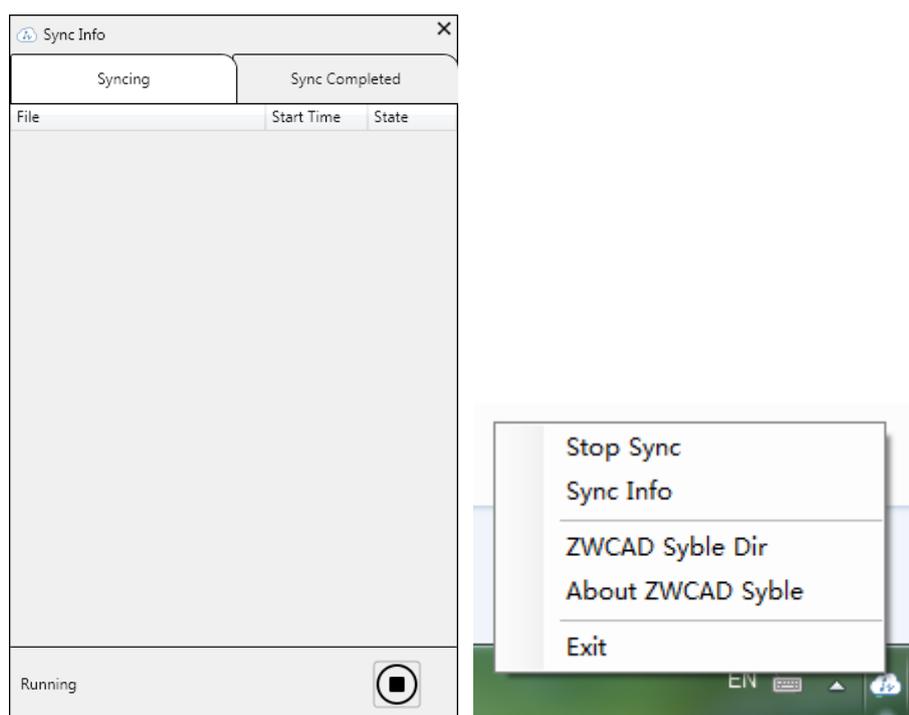
2.1 More user-friendly Syble

Command: options > Online tab

Following are detailed improvements.

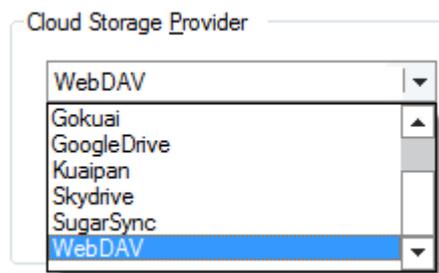
2.1.1 Detailed synchronization progress

Double-click the Syble icon in the task bar, or right-click then choose “Sync Info”. The new Sync Info palette presents a detailed synchronization progress; showing what is being synced and what has been completed.



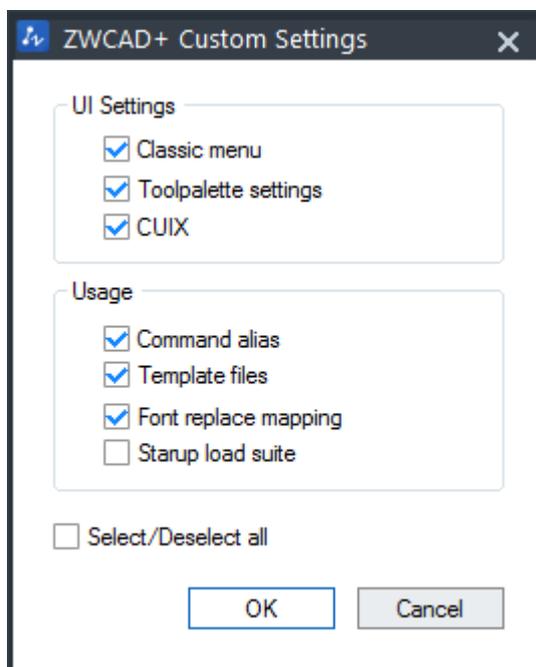
2.1.2 Four more cloud storages are supported: Box, Kuaipan, SugarSync, WebDAV

With the new storages provider “WebDAV”, you can setup your private cloud storage to ensure better safety and confidentiality.



2.1.3 Sync Faster with smaller sync data packages

Syble can now sync menu (mmu, mns files), ribbon (cuix file), command alias (pgp file), tool palette settings (xml and ztc file), template (dwt file), font replace mapping (xml file), startup load suite (zrx, zpvb, lsp, fas, vlx, zel files). You can configure what to sync too - smaller data packages allows Syble to sync faster.



2.2 Better Network Licensing

2.2.1 Simpler steps to activate and manage a borrow license

If a workstation wants to borrow license from the server, it simply needs to input the server's name or server IP. On the server side, the license server can establish an IP White List, so that only permitted users can borrow license without the license code.

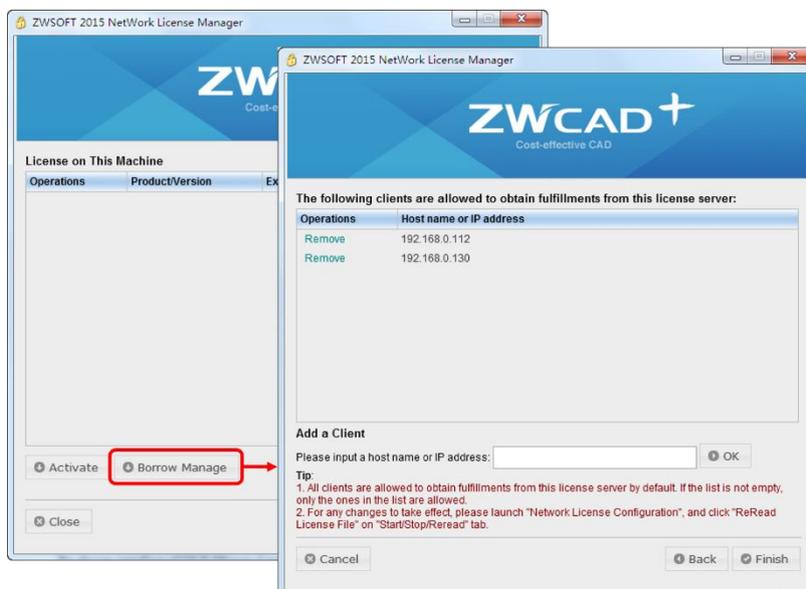
Borrow a License

License Server IP Address/Server name

Port

Licenses on Server:

Valid Through



2.2.2 Support TIMEOUT and TIMEOUTALL

The soft encryption supports TIMEOUT and TIMEOUTALL to control network floating licensing. The Network License Manager can be configured to reclaim a license when a client workstation is idle for longer than a defined time-out period in order to maximize the license usage.

How to use? Find “zwflex.opt” file from ZWCAD+ 2015 Network License Manager installation folder, open it with NotePad, fill the codes like following, 900 means 900 seconds.

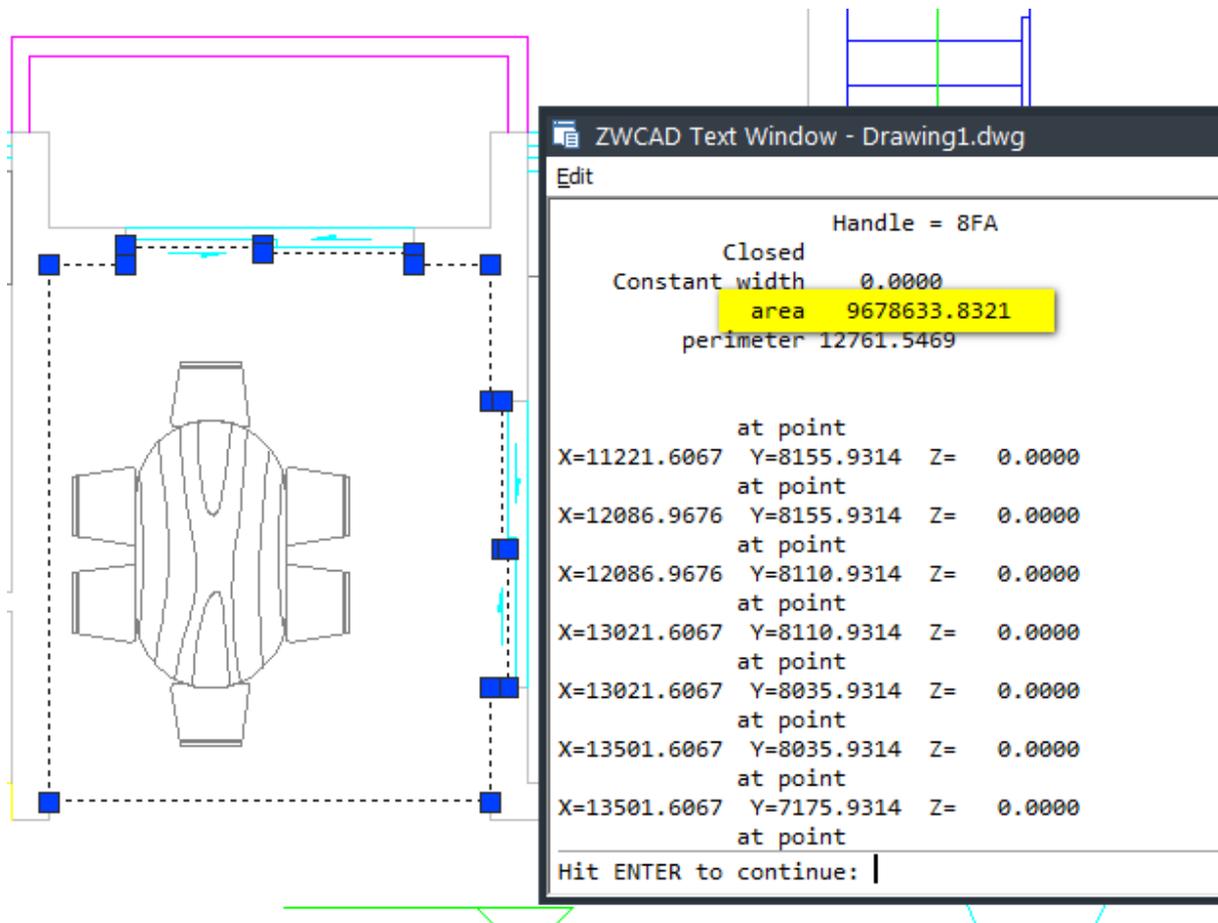
`timeout zwcad_pro 900`

`timeoutall 900`

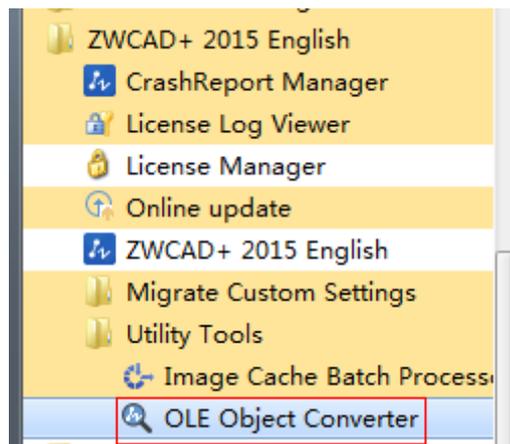
If you have both Professional and Standard license on server, and you want to set timeout for these two licenses, you could use TIMEOUTALL but not TIMEOUT.

2.3 More powerful LIST command

For previous versions, when using LIST and selecting a closed polyline object, there was no area information in the result. With ZWCAD+ 2015 version update, you can find area of closed polyline object by LIST command.

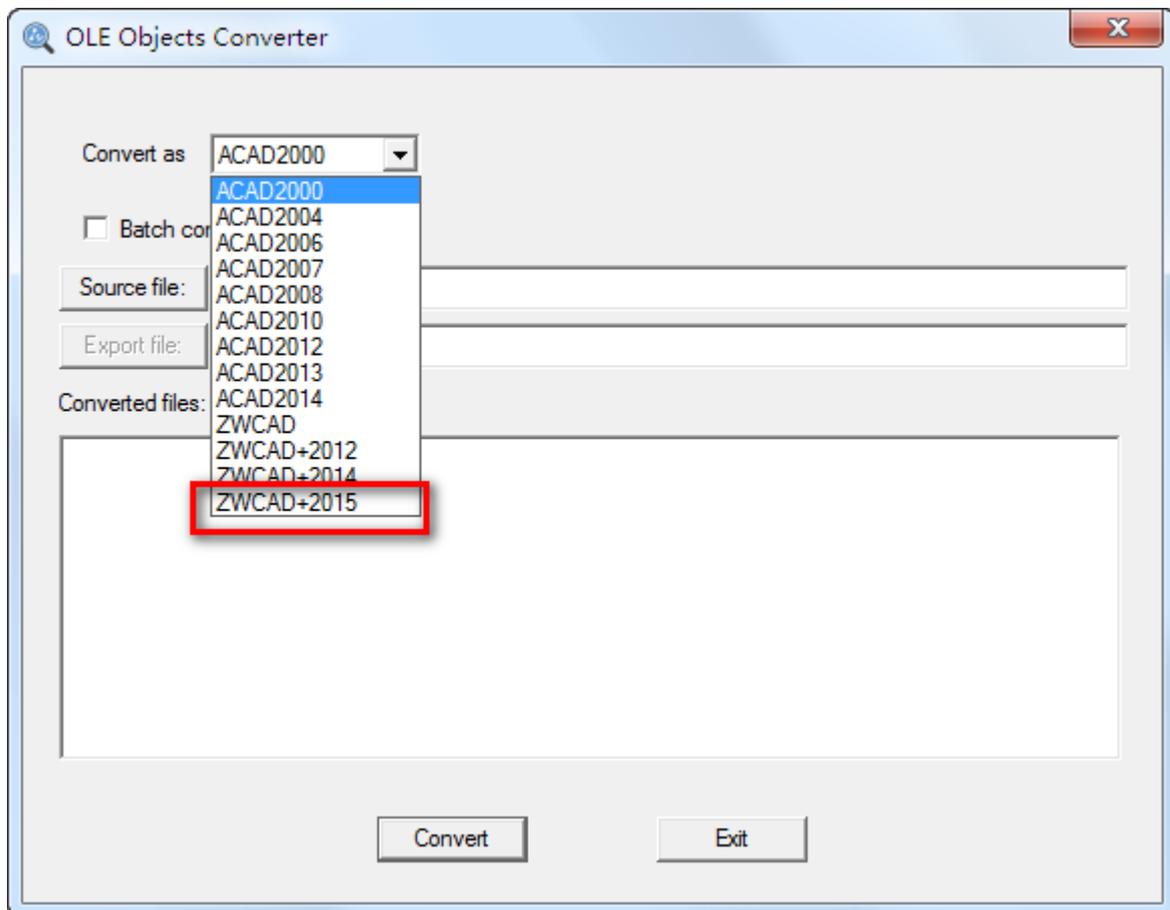


2.4 Simpler OLE Objects Converter



Access OLE Object Converter:

The OLE Objects Converter now has a clearer interface, and it supports convert OLE object as ZWCAD+ 2015.



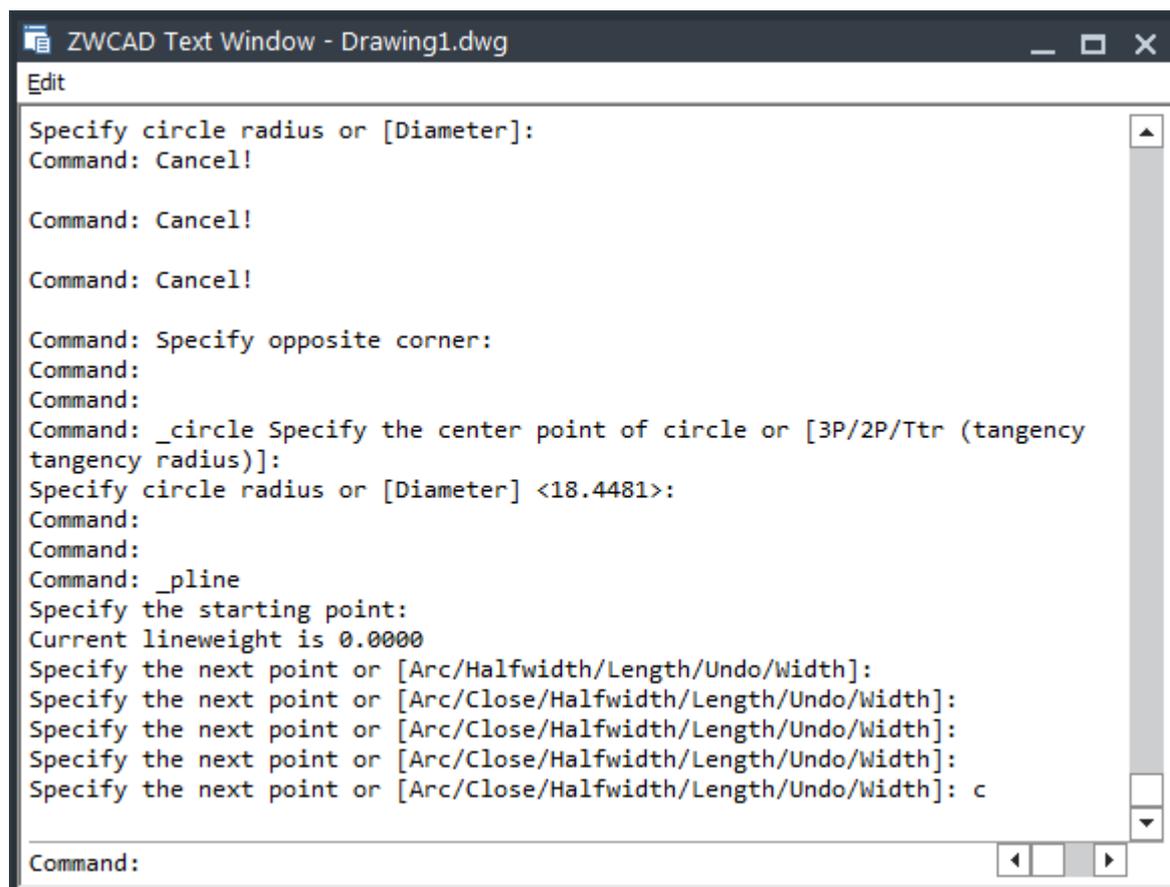
2.5 Better support with translucent image

Support to show and plot translucent PNG image (32-bit PNG file with alpha transparency) correctly.



2.6 Sharper texts in the command box

The default font of command line text has been changed to be more visually appealing. For Windows 7 or higher version system, the text font changed from Courier to Consolas, for Windows XP or lower version system, the text font changed from Courier Couriver new.



2.7 3D Orbit shortcut key

Now, you can use shortcut keys Shift+ middle button to run 3D Orbit directly, no need to find it from menu.

3 Bug fix

ZWCAD+ 2015 official version fixed 396 bugs in the existing ZWCAD+ 2014 SP1 Update version (vernum=2014.06.25(24082)). (Please note that the Beta release notes mention there to be 428 bugs fixed, we are sorry any confusion this may have caused.)

Here are some important bugs that you may concern most:

ID	Description
7969	For some special drawing, ZWCAD+ crash when copy object
7922	When setting "Number of recently-used files" to 0 in Options dialog box, it didn't work correctly
5335	For a sample menu file, after loading the menu, the pop17 didn't show up
6013	For some special drawing, after configure page setup and plot preview in model space, the grip

	display in wrong position.
2391	ZWCAD+ can't open some special dxf file
7671	For some special drawing, ZWCAD+ crash when selecting its dynamic block
8219	The command line of INSERT command showed wrong
3386	Some table objects that created by AutoCAD 2012 can't be edited by ZWCAD+ Text Editor
2753	lisp function (get-license-serial) was not available
7354	Hatch object that created by ZWCAD 2010 showed wrong in ZWCAD+ 2014
8250	For some special drawing, ZWCAD+ crash when using DWG To Pdf to plot
8249/7834/ 7610/5263	When using some special drawing as external reference, it can't be bound.
8185	.NET function Solid3d.CreateRevolvedSolid was not supported
8176	.NET function AttributeReference.MTextAttribute and AttributeReference.IsMTextAttribute were not supported
1043/1481	The multi-language showed wrong on attribute dialog box and attribute editing dialog box cause ZWCAD+ didn't support unicode
1793/2640	Can't open drawing which was placed in a path with non-English text or which has a name of non-English
3356	Can't change opened drawings' order by dragging its file tab
4097	When insert a drawing which was named with special characters, the special characters showed wrong in reference manager
4167	When running VBA program, "SendCommand" was run at last and it lead to error
5231	For some special drawing, insert an A4 frame, then regen, some text disappeared
5430	For some specific drawing, ZWCAD+ is much slower than AutoCAD when opening it
5824	TIMEOUTALL didn't work for network license
5871	After clipping the xref, the part that has been cut off still be visible
6036	For some special drawing, some entities lost and other changed position in ZWCAD+
6038	For some special drawing, the stacked texts were changed to be not stacked after editing
6054	Can't input Russian text in single-line text editor when the region language is not Russian.
6128	Can't save or open the drawing which is named as "Kidričevo 1xSiget 630kg 1xComfort 1000kgG9NE0807_comfort 1000Projektna dokumentacija"
6131	For some specific drawing, ZWCAD+ can't read all query option of dynamic block
6514	For some specific drawing, ZWCAD+ open it very slowly
6738	For some specific drawing, its file name showed as error in open dialog box when the region language is English, and the drawing was unable to be opened.
7219	For some specific drawing, it was unable to hide the image's frame, and the frame stay when plot to paper.
7247	When use ZRX function "AcDbEntity::explode" to explode the non-uniform block in some specific drawing, fail to do it.
7323/7750	ZWCAD+ crash when open some specific drawing
7461	ZWCAD+ crash when double click a block after merging layers
7721	Unable to set value 2 for IMAGEFRAME

7723	For some specific drawing, 3D object showed wrong
7726	The right-click option "orbit uses AutoTarget" didn't work during 3dorbit command
7777	The overkill got wrong result for some specific drawing
7843	Failed to find Adobe postscript plotter in "Add new plotter" wizard
7847	ZWCAD+ 2014 can't open some specific drawing
7890	The ShowDialog method of OpenFileDialog worked wrong
7912	When using LISP and select a closed multi-polyline, no area result
7961	the right-click menu of Shift can't esc because of the input method
8328	Install ZWCAD+ Japanese version, load the custom menu file, re-launch ZWCAD+, the custom menu lost
8263	The precision of ARC can't be saved in the drawing
2518	ZWCAD+ didn't support LOFT
4700	For some plotter, can't set the non-printable are to 0
5056	ZWCAD+ local in the wrong place on double screen, and unable to edit layer name.
5353	ZWCAD+ didn't store the settings of Reference Edit
5926	For some special drawing, the attached image was read as invalid.
6172	When insert some special TIF image, zoom in and out, the image disappear.
6958	Improve the way to snapping to the arrow vertex
7097	For some special drawing, the transparent TIF image is not transparent and neither when it was plot.
7380	For some special drawing, the TIFF image in the layout space show extra frames
7560	All entities are on the current layer after using BURST command to explode
7574	For some special drawing, there were some extra line after using PDFCREATOR to plot to PDF file
7725	ZWCAD+ didn't support 3DORBITCTR
7820	The menu file that could be load in ZWCAD+ 2014 sp1 that can't be load in 4.27 version
7876	For some special drawing, it was slow when enter or exit reference in-place editing
7899	For double screen, when the left one is main screen, on the second screen, it can't edit layer properties in layer state manager
7943	Some transparent GIF image showed not to be transparent in ZWCAD+
7966	For some special drawing, the entities can't be selected, and crash when switch to layout
8079	When insert some special drawing for more than one time, its grid didn't show up.
8337	Create a new drawing and some entities, the polar tracking is in black
8334	The overkill dialog box didn't pop out in multi-language version
8331	For some specific drawings, the speed to REGEN is 3 times slower than in ZWCAD+ 2014 SP1 Update version.

4 No longer supported commands

Following commands are not supported in ZWCAD+ 2015:

DIMHORIZONTAL

DIMVERTICAL

PAINTPROP

SELECTURL

-SHADE

5 Known issues

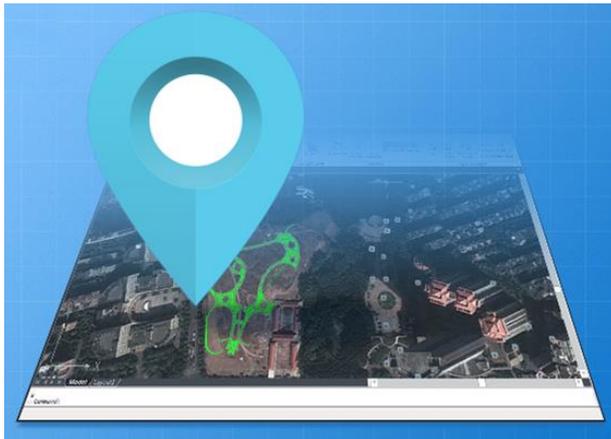
- (1) Following problems exist in ZWCAD+ 2015 Beta version, ZWSOFT will try to fix them in the official version.
- (2) 8322: For some specific drawings, ZWCAD+ crashes after clicking the OK button on the layer properties manager
- (3) 8316: Error to create area for filed
- (4) The description about the Network License Server path from Start menu is wrong in Help document.

ZWCAD Product Team

2014-9-12

6 Appendix A

Why Google Earth?



Today, clients from the Civil and Survey industry frequently use CAD software in conjunction with maps generated by Google Earth.

In the past, we have released an individual tool for Google Earth for ZWCAD 2012 version, and since that time it has grown in popularity with our users.

After ZWCAD+'s release, we've received many requests to provide a similar tool, and so we have included it in our 2015 version.

● General Procedure

Please make sure you have installed software Google Earth, and it is working normally. Then there are 2 ways to run the tool.

No.1:

In Windows starts software Google Earth, Locate position in its map

-> In ZWCAD+, run command **“GEIN”**

-> The tool will capture image as what is displayed in your Google Earth

-> Then you can import the map into DWG

Or No. 2:

In ZWCAD+, run command **“GEIN”**

-> Software Google Earth is automatically started

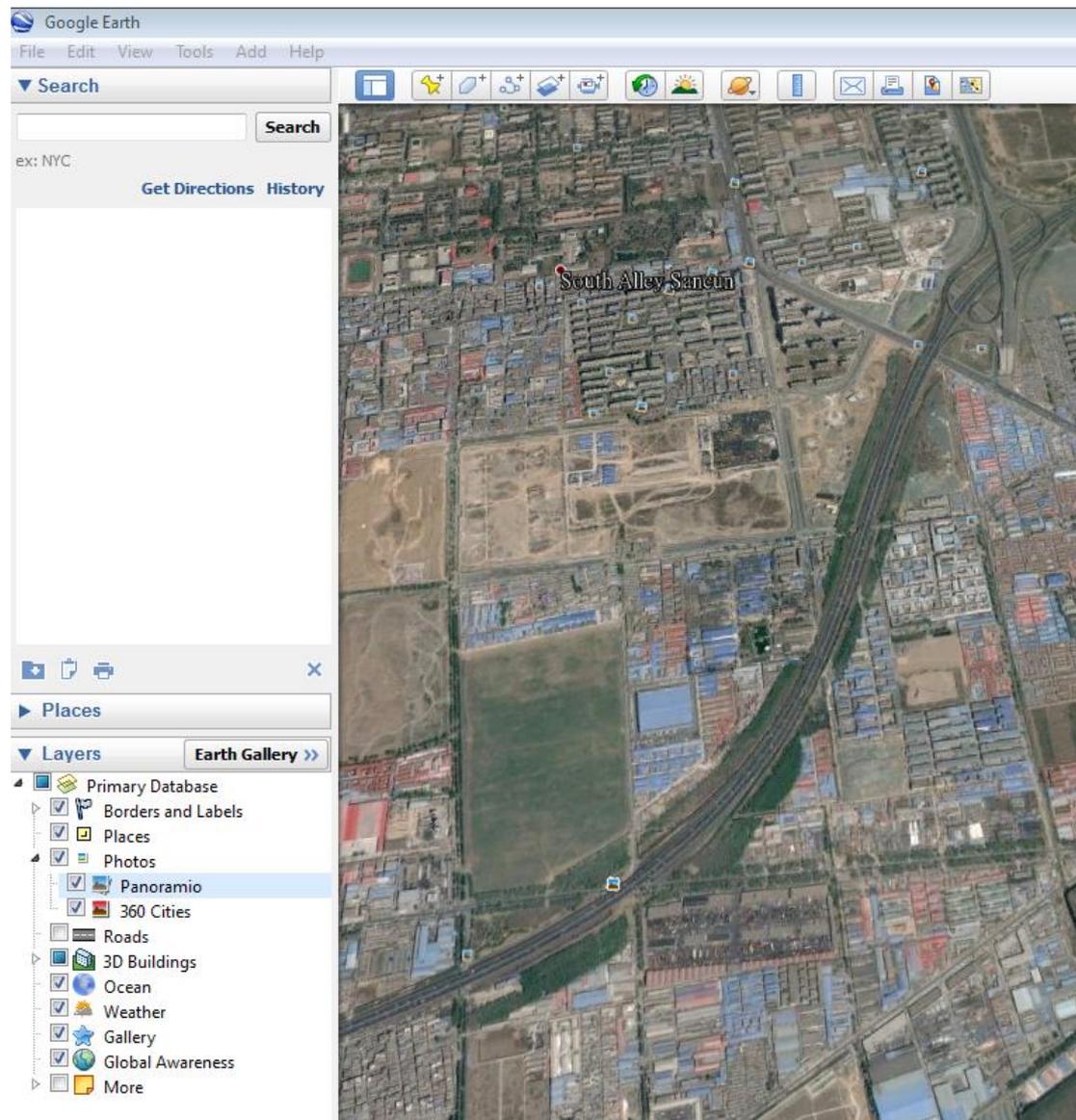
-> Then in ZWCAD+, the dialog box will show an Earth inside it

-> Inside dialog box, you can directly drag and zoom on the Earth to find map

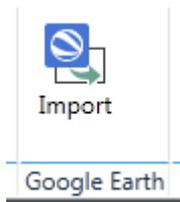
-> Then you can import the map into DWG

● Detail Instruction: How to use Google Earth Tool in ZWCAD+ 2015

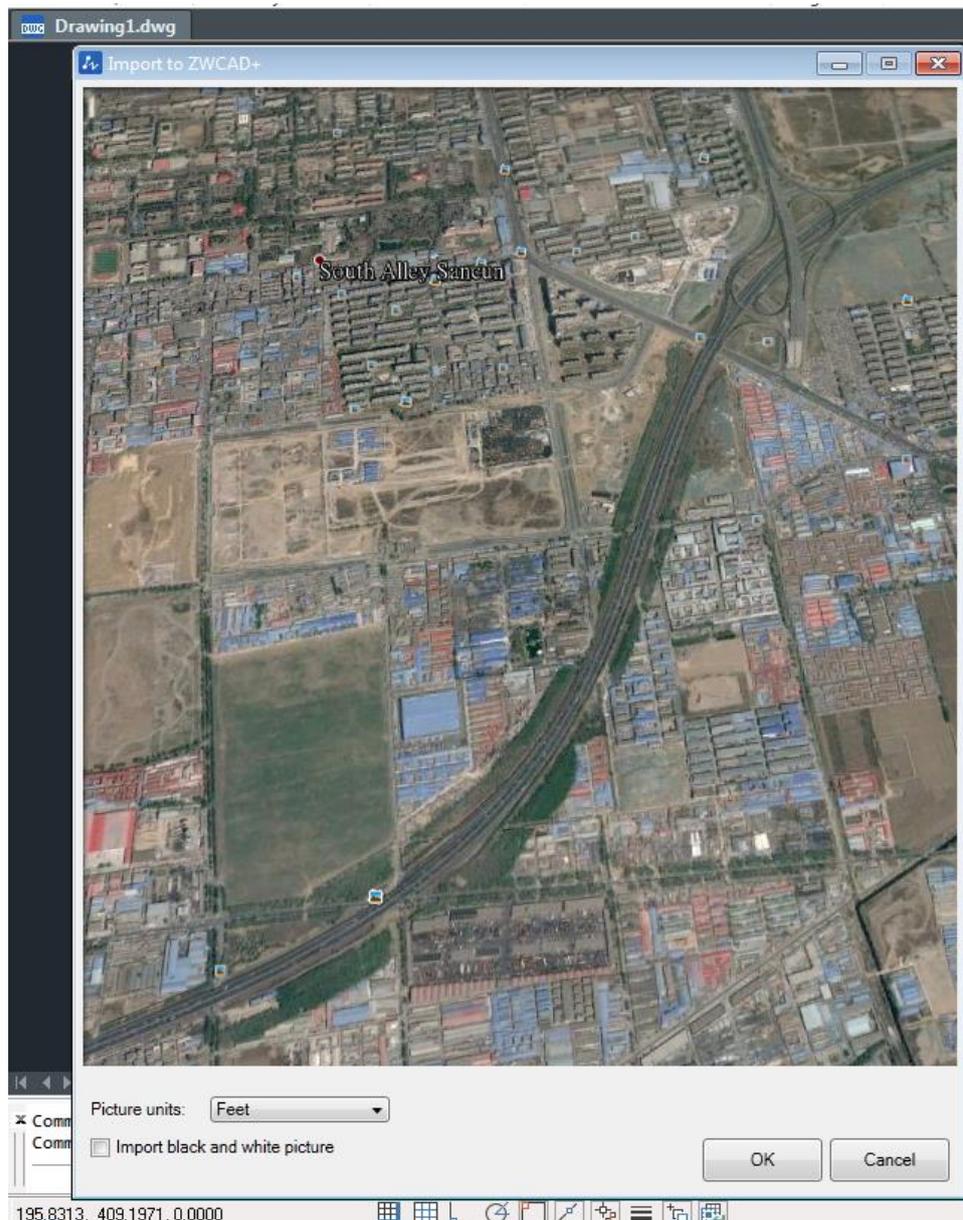
Step 1: Start Google Earth, locate position in the map



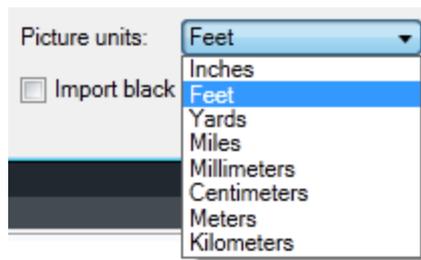
Step 2: In ZWCAD+ 2015, run command "GEIN", or in the menu:
(Tools -> Google Earth -> Import from Google Earth)



Then you can see a dialog box showing the same map view as in Google Earth.
Notice: You can also freely drag and zoom it in dialog to get the exact position.



Step 3: Specify Units



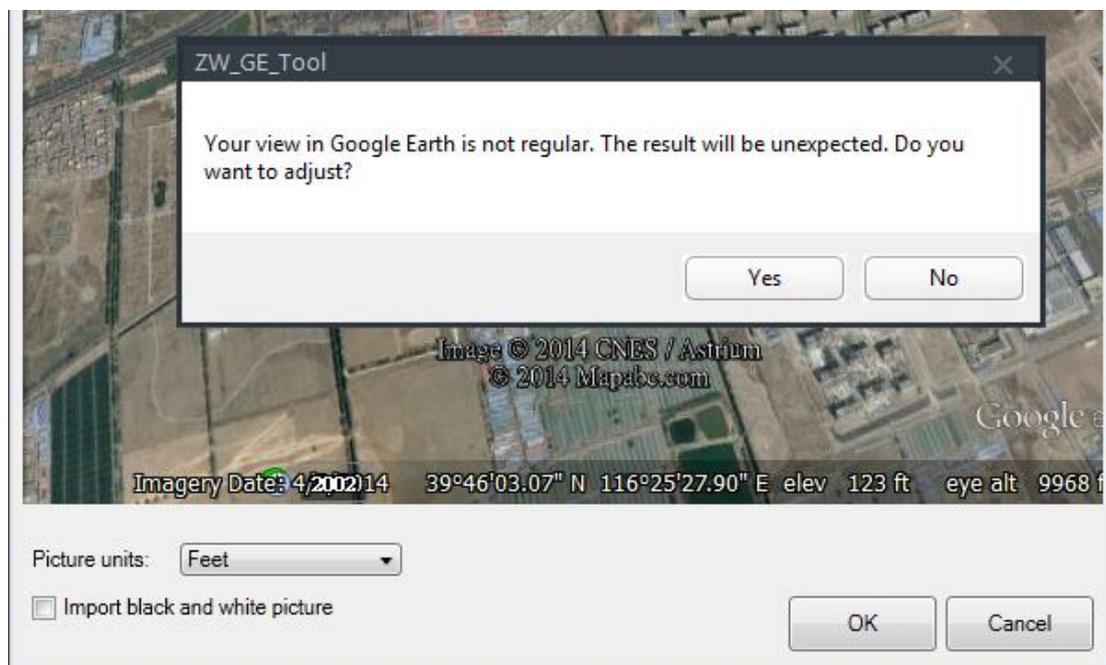
For example, the geographical distance shown in Google Earth is 60 KM. If you choose Units-> Meters, as a result, the image will have a line with a length of 60000.

Step 4: Specify import color picture, or black and white picture

Import black and white picture

Step 5: Click OK to insert the image to current drawing.

Notice: The tool will adjust the picture to make the satellite view of the picture to be **perpendicular**, and make the front direction to be **north**.



Step 6: Specify the insert point in current drawing. It is now imported successfully.

