



ZWCAD 2021 SP2

PRODUCT RELEASE NOTES

THE ZWSOFT TEAM

ZWSOFT | 2021/03/30

Welcome to ZWCAD 2021 SP2!

Dear friends,

We are glad to tell you that ZWCAD 2021 SP2 is available now! Thanks to your valuable feedback for the Beta version, ZWCAD 2021 SP2 now comes with significant new features and improvements. Now, let's take a look at this SP2 version.

This Release Note mainly introduces the new features and improvements in ZWCAD 2021 SP2.

Yours sincerely,
The ZWSOFT Team

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ZWCAD 2021 SP2 Release Notes

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Overview

ZWCAD 2021 SP2 has the following new features and improvements:

New Features	Description
Data Link	A table in the drawing can be connected with data from a sheet or a cell range of an Excel® file (.xls/.xlsx/.csv).
Enhanced Array	The Path Array option is available, allowing users to evenly distribute the selected entities along a path.
CAD Standards	Standard drawing specifications can be created. Different drawings can be standardized with .dws files.
Propulate	The values of fields in different drawings can be modified all at once. New types of fields can be created.
Status Bar List	You can control which icon appears on the status bar.

Improvements	Description
Auto-Fill Cells in Tables	Cells can be automatically filled according to certain rules by dragging the blue grip (fill handle) in the bottom-right corner of a cell until all the to-be-filled cells are selected.
Accurate Find	You will be navigated to the word being searched.
Limitless Zoom-in and Zoom-out	Zoom in or zoom out without a limit and regenerating.
Optimized DGN Export	The Export DGN Settings dialog box is added with abundant relevant settings.
Optimization for Copyclipping Proxy Entities	A new dialog box will pop up when copyclipping blocks that include proxy entities.
“-OVERKILL”	All the OVERKILL procedures can be executed in the command line.
Publish in Background	You will be able to design in ZWCAD while plotting

	drawings.
<u>Text View Direction Option on the Properties Panel</u>	Edit the text view direction of dimensions directly on the Properties panel.
<u>Include Fonts from Xrefs in the E-Transmittal Package</u>	Export all font files from the current drawing and its external references to a transmittal package.
<u>“TXTEXP” Works in 3D Viewports</u>	Mtext/Text can be transformed into polylines in 3D viewports.
<u>Viewport Transparency</u>	Set different transparency values for the same object in different viewports.

Efficiency

The following section describes the efficiency tests in this release.

The efficiency comparison is done based on the typical drawings collected from ZWCAD users. In the line chart below, we can see that invoking most of the commonly used commands like copy and draw in ZWCAD 2021 SP2 takes less time than its previous versions do. This means that choosing our latest version can free you from waiting for simple operations to be done.

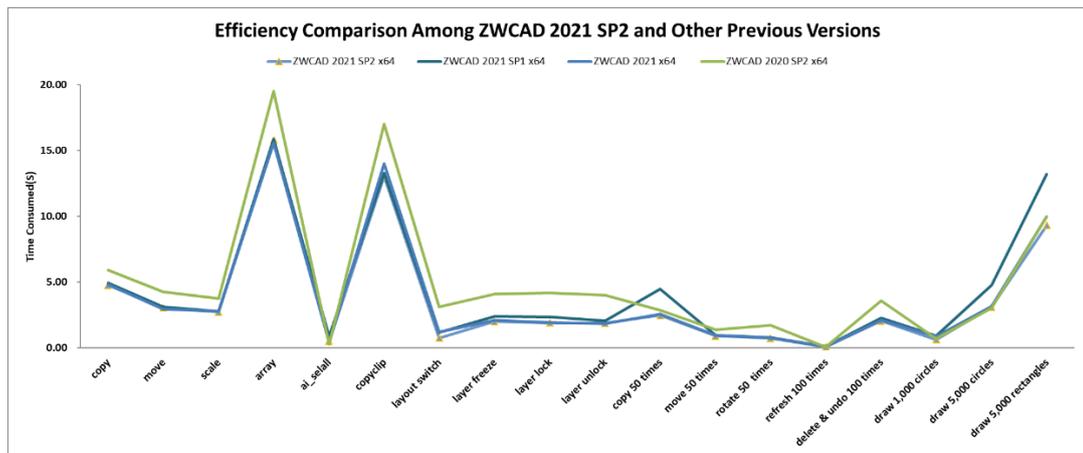


Figure 1. Efficiency comparison with previous versions

Stability

The following section describes the stability tests in this release.

The line chart below indicates that almost 100% of 1,270 comprehensive drawings selected for testing can be opened and saved successfully in previous ZWCAD versions as well as ZWCAD 2021 SP2.

Moreover, far fewer crashes have been reported since the release of ZWCAD 2021 SP1. Most of those typical crashes, including the ones due to unsuccessful installation of .NET 4.7, have been fixed in ZWCAD 2021 SP2.

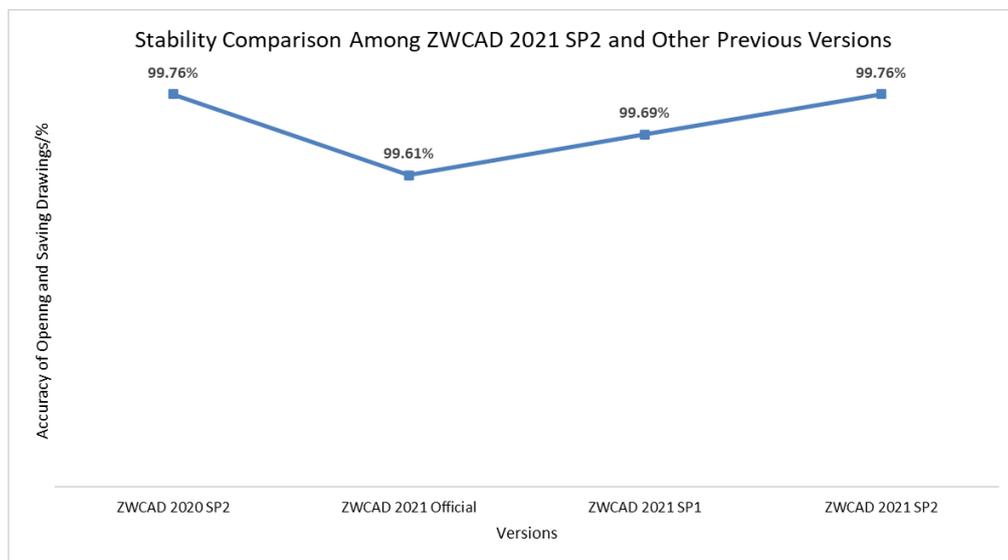


Figure 2. Stability comparison with previous versions

New Features

This section expounds the new features in this release.

Data Link

With the help of data links, table editing becomes much easier in ZWCAD.

Data link connects a table in the drawing with data from a sheet or a cell range of an Excel® file (.xls/.xlsx/.csv). Any data change can be updated in ZWCAD by clicking the data link shown in the pop-up notification.

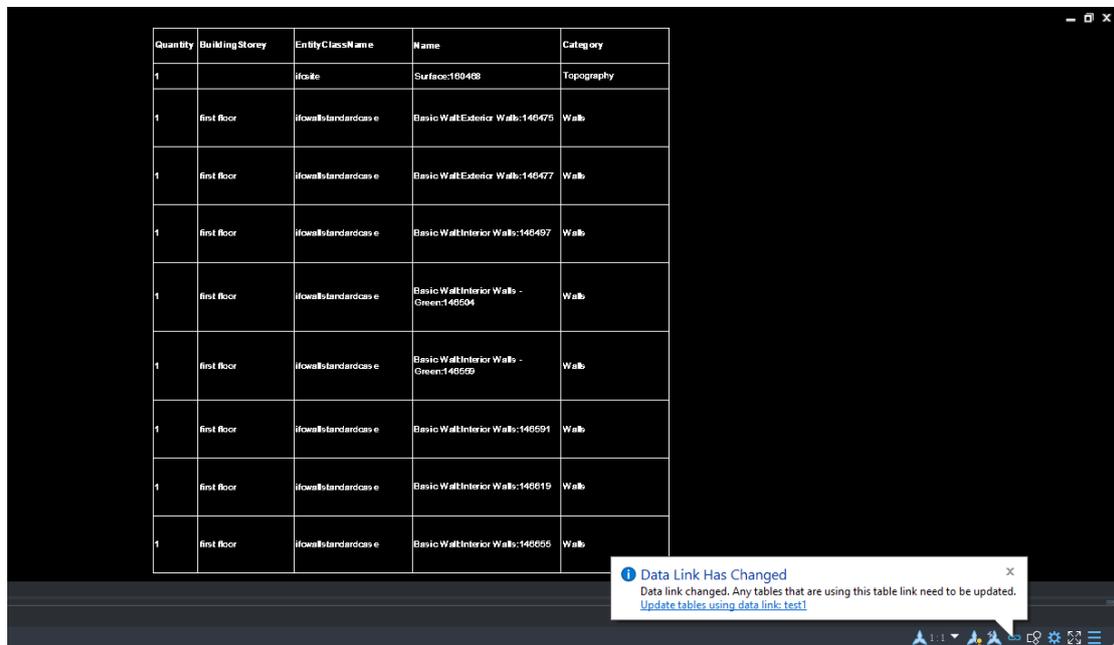


Figure 3. Notification balloon pops up when the data link has changed

You can create a data link in the Insert Table dialog box or the Data Link Manager.

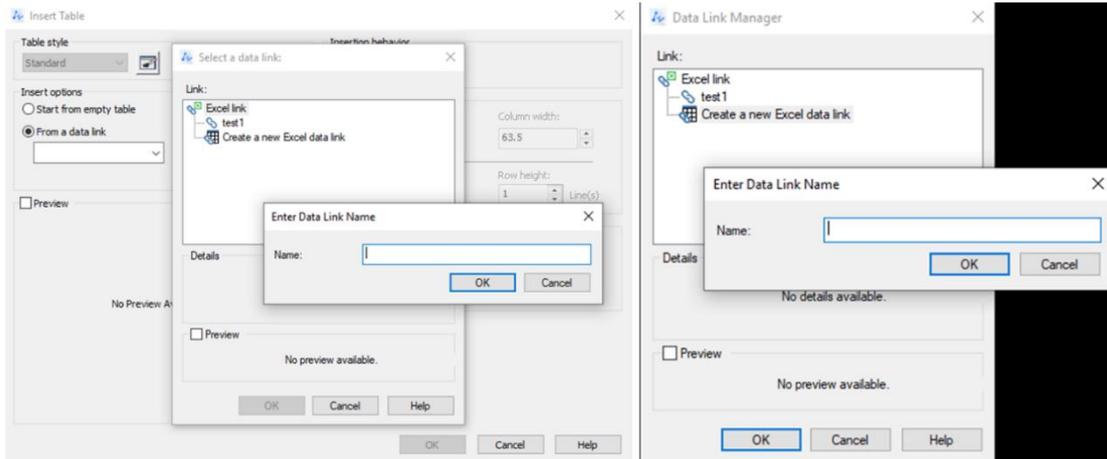


Figure 4. Creating a data link in two ways

Enhanced Array

The long-awaited Path Array function is now available, which allows users to evenly distribute the selected entities along a path using the Divide or Measure method.

What's more, arrays can be associative now. The size of an associative array can be changed by dragging the blue arrow while its pattern, spacings, and array style remain the same.

Also, you can edit arrays in the newly-added Array contextual tab. With this contextual tab, it is easy to make adjustments on an array, for example, edit its pattern in place, in an intuitive way. A preview of any adjustments is possible, allowing you to cross-check what you have created before saving changes.

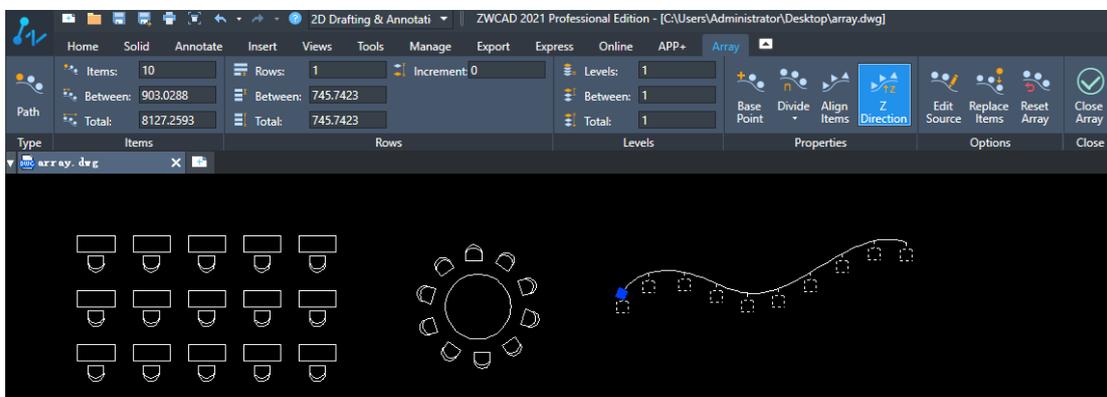


Figure 5. Path Array, Associative Array, and the Array contextual tab

CAD Standards

Since different companies have different CAD standards, it's quite often that the proprietor receives drawings of different standards when a project is finished by multiple teams. That's why the CAD Standards function is developed: to make sure all drawings are standardized in the end.

In this version, you can create specifications for drawings (including standards of layer, text style, annotation style, and multileaders style) and save the data into a drawing standard file (*.dws) for future standardization.

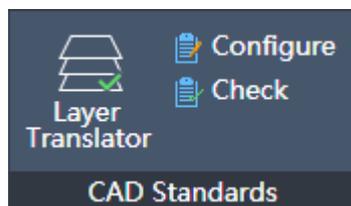


Figure 6. CAD Standards in Ribbon

To standardize drawings, you can associate a .dws file with a drawing and check the differences between them. After checking, the drawing specifications can be modified manually or automatically.

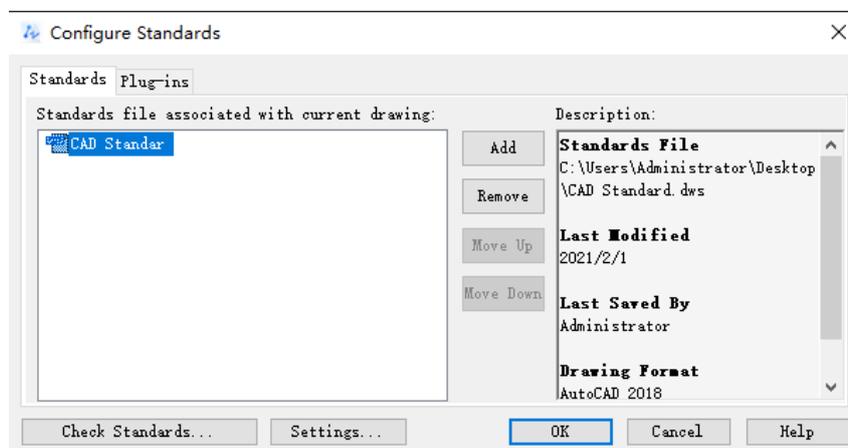
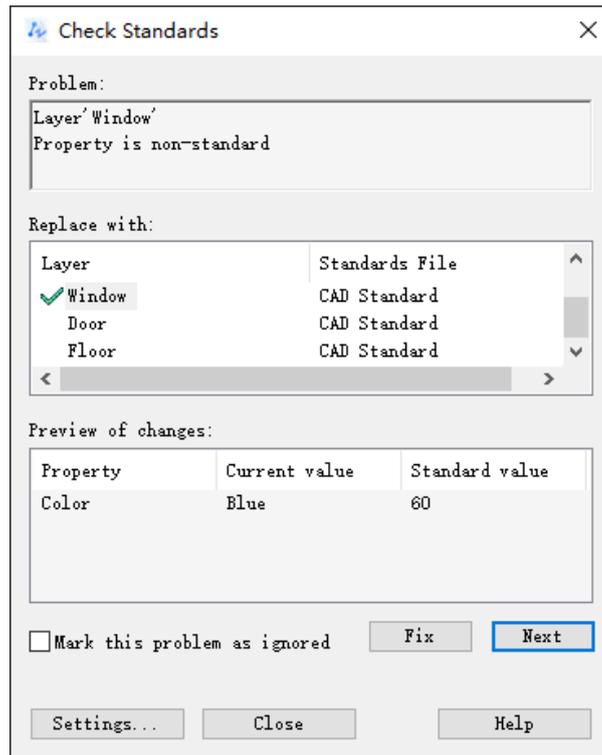


Figure 7. Associating a *.dws file with the current drawing



*Figure 8. Checking the differences between the drawing and the *.dws file*

Besides, a notification will pop up when you create something that does not conform to the drawing standards.

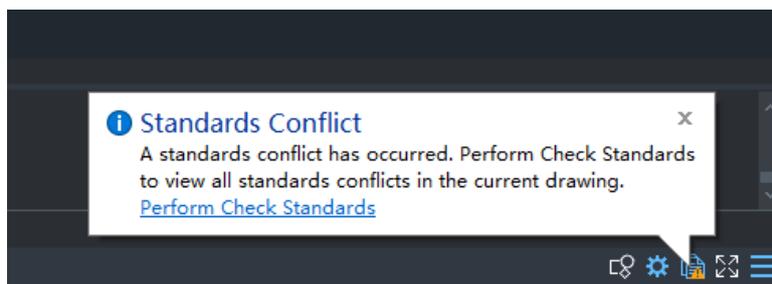


Figure 9. Notification balloon pops up when there is a standard conflict

Also, the Layer Translator available in this function enables you to translate a layer in the current drawing into another.

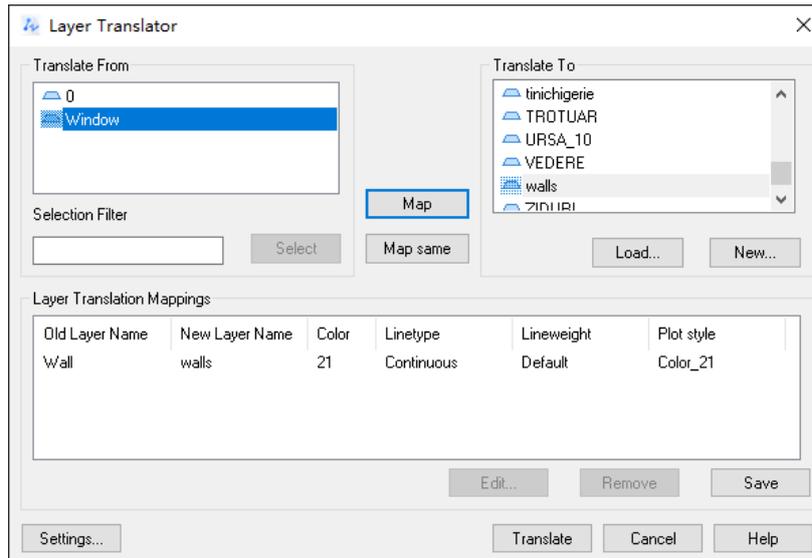


Figure 10. Layer Translator

Propulate

Now that the Propulate tool is integrated into ZWCAD, you could change the values of fields after invoking the Edit Propulate Template dialog. The modified fields could be synced to the current drawing or other drawings that are not opened in ZWCAD.

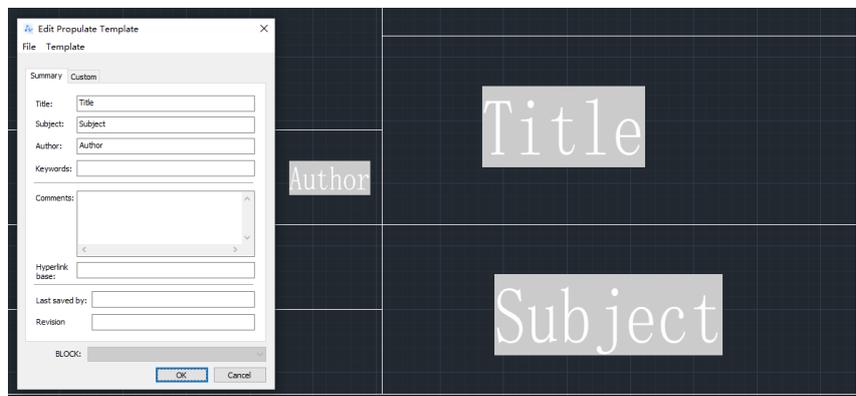


Figure 11. Inserting default fields into the drawing

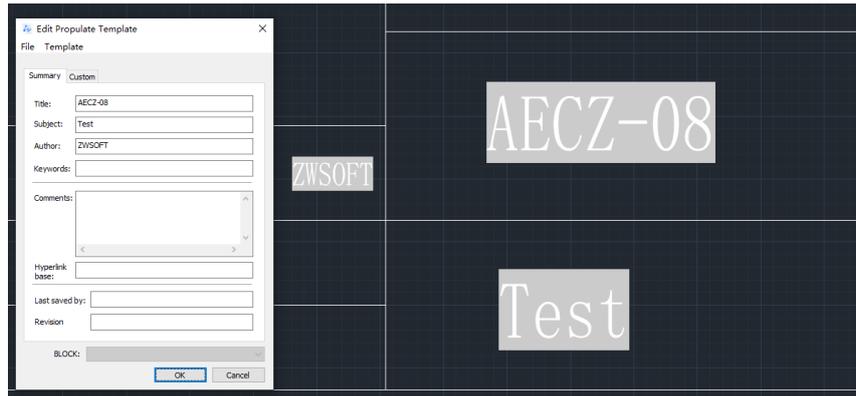


Figure 3. Field values will be synced to the drawing when modifying

Moreover, you could create new types of fields with Propulate. The new types of fields will be added to the Field dialog, which comes in handy when there are different design project requirements.

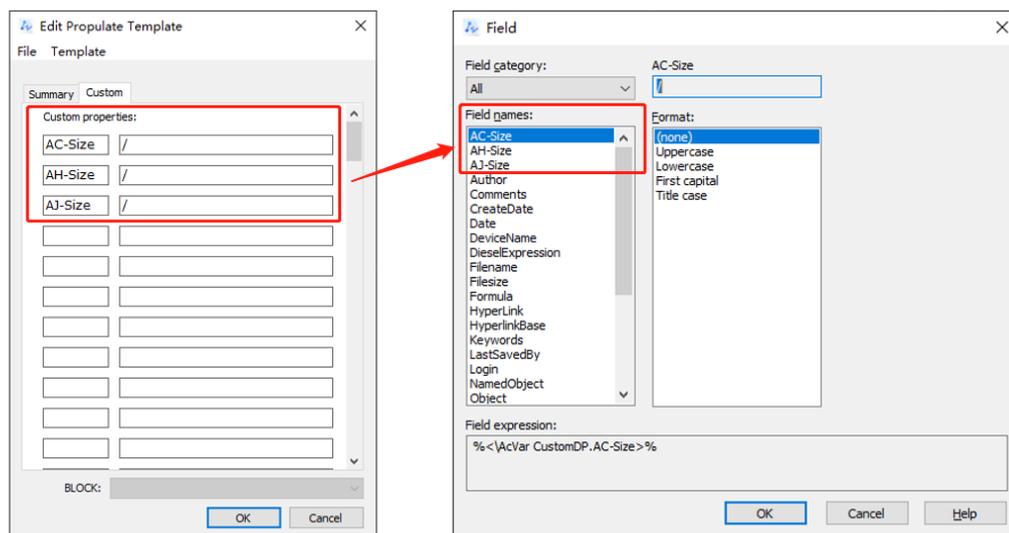


Figure 4. Creating new types of fields

Status Bar list

In the default mode, all buttons display in the status bar. However, probably not each of them is helpful for you.

With the status bar list, now you can choose to show or hide a certain button in the status bar.

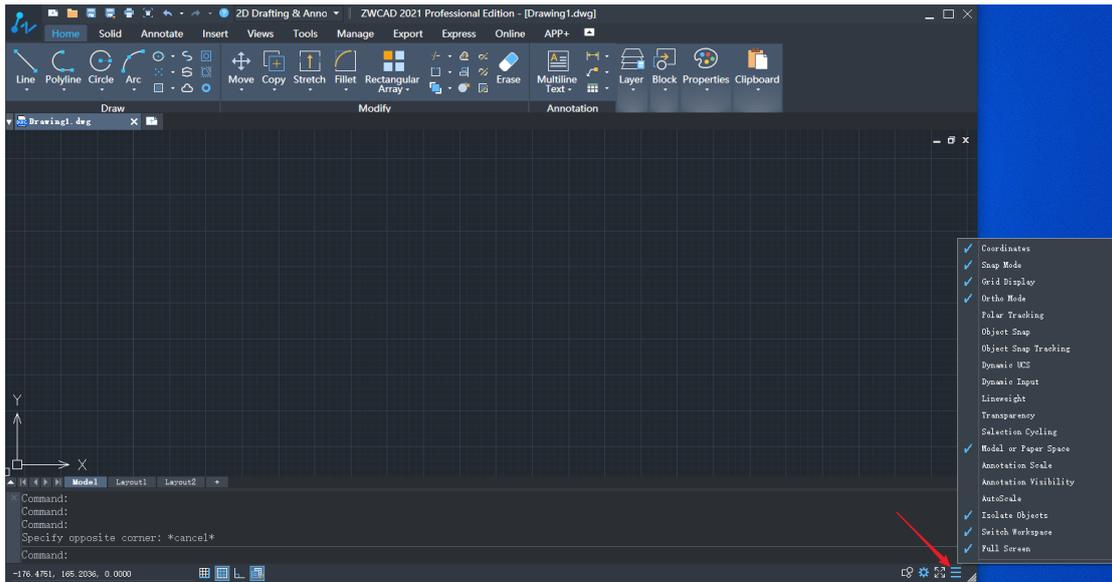


Figure 5. Status bar list



Figure 6. Controlling the display of buttons from the status bar list

Improvements

Auto-Fill Cells in Tables

After the availability of table formulas in ZWCAD 2021, the Table function is now even more powerful. In this version, by dragging the blue grip (fill handle) at the bottom right of a cell, you can auto-fill cells according to certain rules, like the ascending order, or the preset formula as shown below.

	A	B	C	D
1	Steel Bar	Weight per Meter/(kg/m)	Length/m	Total Weight/kg
2	∅12	0.8880	1000	
3	∅14	1.2100	2000	
4	∅16	1.5800	3000	
5	∅18	2.0000	4000	

	A	B	C	D
1	Steel Bar	Weight per Meter/(kg/m)	Length/m	Total Weight/kg
2	∅12	0.8880	1000	=B2*C2
3	∅14	1.2100	2000	
4	∅16	1.5800	3000	
5	∅18	2.0000	4000	

Figure 7. Auto-filling cells in a table

Accurate Find

Finding a single entity, for example, a word, in a complex drawing is not that easy. Nevertheless, the enhanced Find function in this version can navigate you to the exact position where the word you are searching for is located. This will save you much time from looking with eyes.

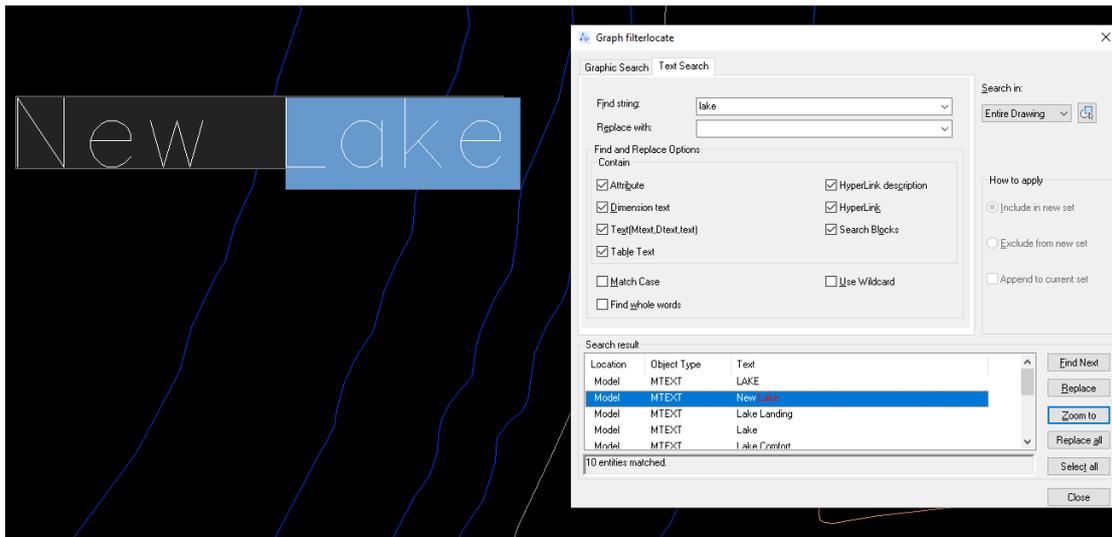


Figure 8. Accurate Find

Limitless Zoom-in and Zoom-out

For those who usually design based on external references (a map, for example), zooming in is a must for an object to be accurately outlined. Limitless zoom-in and zoom-out are perfectly supported in this version so that you can precisely design without frequently regenerating.

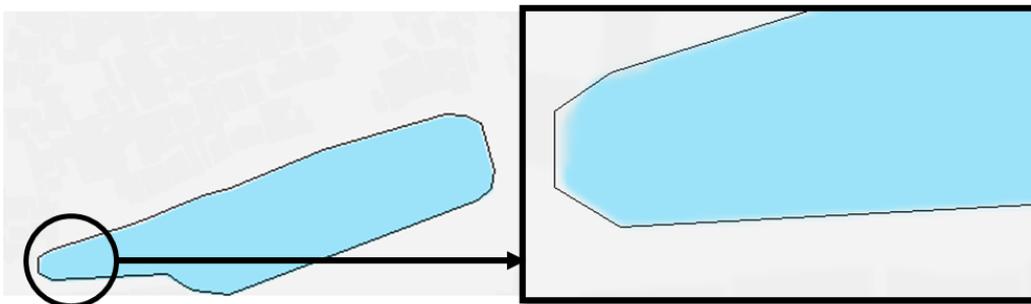


Figure 18. Limitless zoom-in

Optimized DGN Export

DGN files are commonly used in construction design, like expressway, and bridge designs. With DGN Export, DWG files can be exported in the DGN format, which ensures lossless data exchange between ZWCAD and other CAD solutions, like MicroStation®.

To export drawings into V7 and V8 DGN files, you can use the DGNEXPORT, -

DGNEXPORT, or EXPORT commands.

After choosing the DGN export path, the Export DGN Settings dialog box pops up. In this dialog box, you can convert, bind, or ignore external DWG references, specify a seed file (MicroStation® template file), and map DWG properties with DGN properties according to certain rules. All these settings will be applied to the DGN file to be exported.

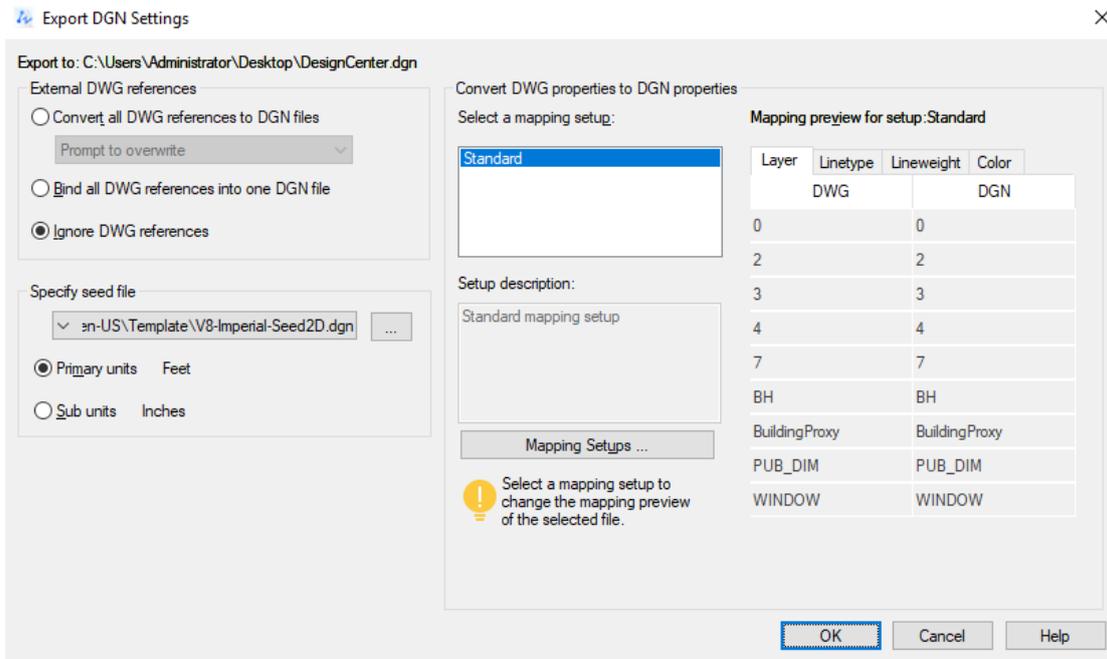


Figure 19. Export DGN Settings

Optimization for Copyclipping Proxy Entities

The Copy Proxy Objects dialog box will pop up when you are copyclipping blocks that include proxy entities. Also, as shown in the figure below, there are 4 methods to make copyclipping such blocks more convenient.

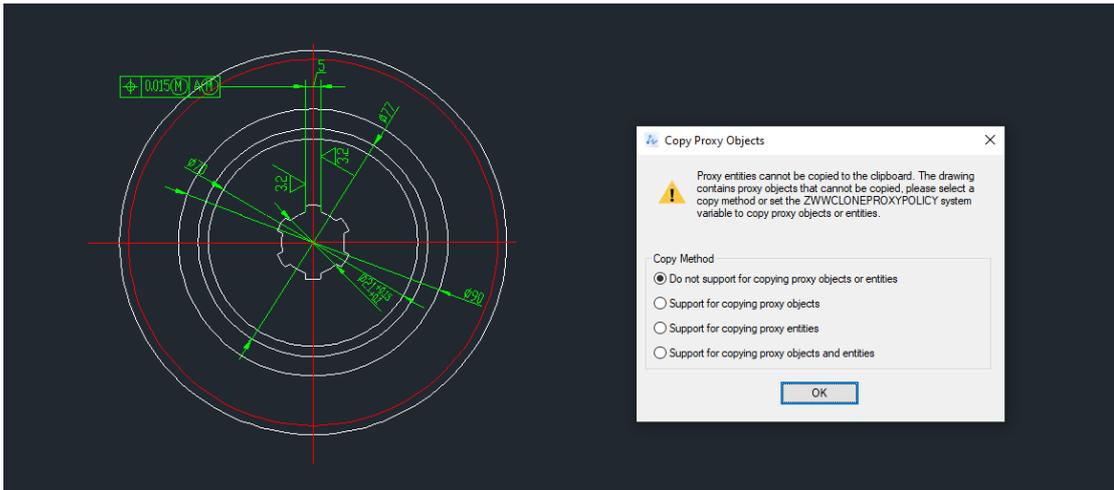


Figure 9. The Copy Proxy Objects dialog box will pop up when copyclipping blocks that contain proxy objects

Also, you can set a copy method by changing the value of the “ZWWCLONEPROXYPOLICY” system variable.

Value	Setting
0	Do not support for copying proxy objects or entities
1	Support for copying proxy objects
2	Support for copying proxy entities
3	Support for copying proxy objects and entities

Figure 10. The “ZWWCLONEPROXYPOLICY” system variable

“-OVERKILL”

In the past, when using the OVERKILL command, the Delete Duplicate Objects dialog will pop up. Now, after inputting “-OVERKILL”, you can complete all the procedures following the instructions in the command line.

```

Command: -OVERKILL
Select objects:
Specify opposite corner:
3 found
Select objects:
Current settings: Tolerance=0.000001, Ignore=None, Combine partial overlap=Yes, Combine end-to-end=Yes, Optimize polylines=Yes
Enter an option to change [Done/Ignore/tolerance/combine partial overlap/combine End-to-end/optimize Polylines] <Done>: D
0 duplicate entities or polyline segments deleted.
4 overlapped lines, arcs or polyline segments deleted.

```

Figure 22. All procedures can be finished in the command line

Publish in Background

This newly added option enables you to design in ZWCAD while publishing layouts, increasing your productivity.

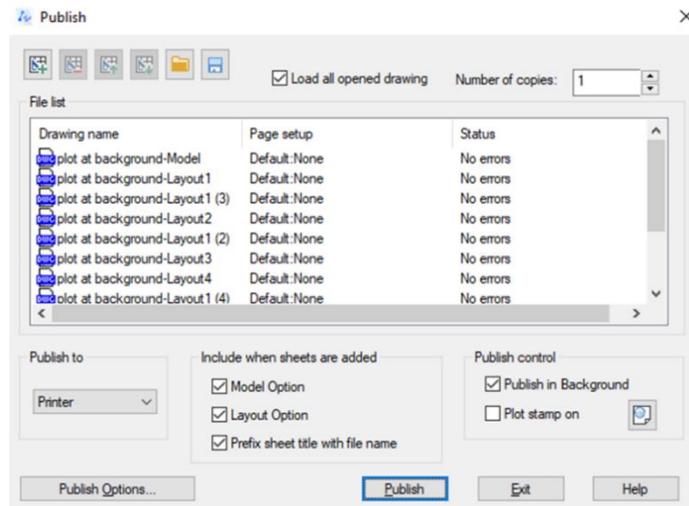


Figure 23. The Publish in Background option has been added to the Publish dialog box

When the plot/publish job is completed, there will be a notification balloon. By clicking the link on it or the printer icon , you can learn all the plot/publish details.

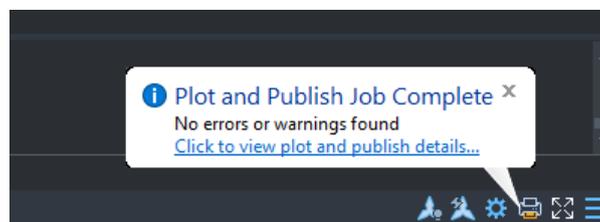


Figure 114. The Plot and Publish Job Complete notification balloon

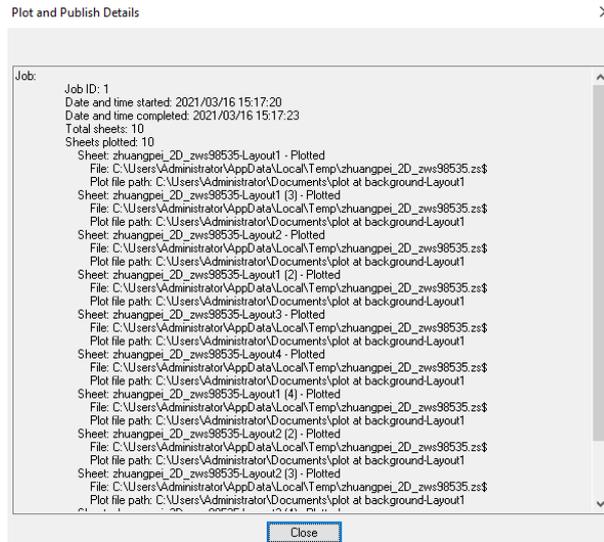


Figure 25. Plot and Publish Details

Text View Direction Option on the Properties Panel

In this version, you can edit the text view direction of dimensions directly on the Properties panel. In this way, you can define a proper text view direction for each dimension in a drawing.

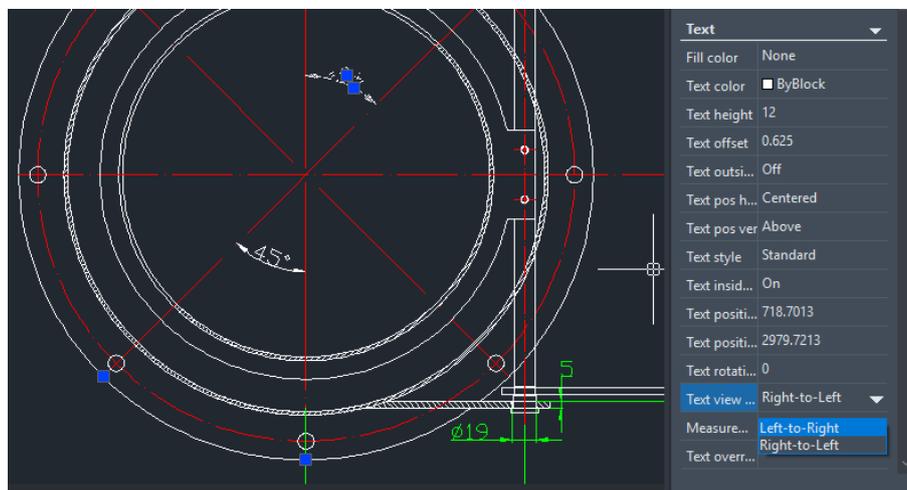


Figure 26. Editing the text view direction on the Properties panel

Include Fonts from Xrefs in the E-Transmittal Package

After ticking the “Include fonts” option in the Modify Transmittal Setup dialog box, you can export all font files from the current drawing and its external references to a transmittal package.

Once your co-workers or clients receive this package, they can open the drawing without missing texts.

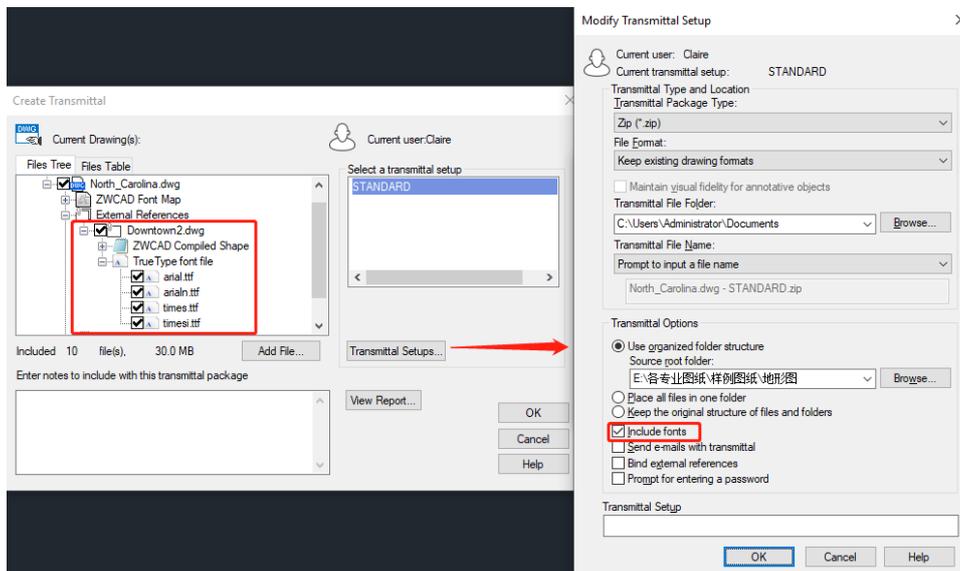


Figure 27. Include fonts from external references in e-transmittal package

“TXTEXP” Works in 3D Viewports

The TXTEXP command transforms Mtext/text into polylines, which can help you create hollow texts more easily. Besides, the Mtext/text will become individual letters so that you can add different effects to them.

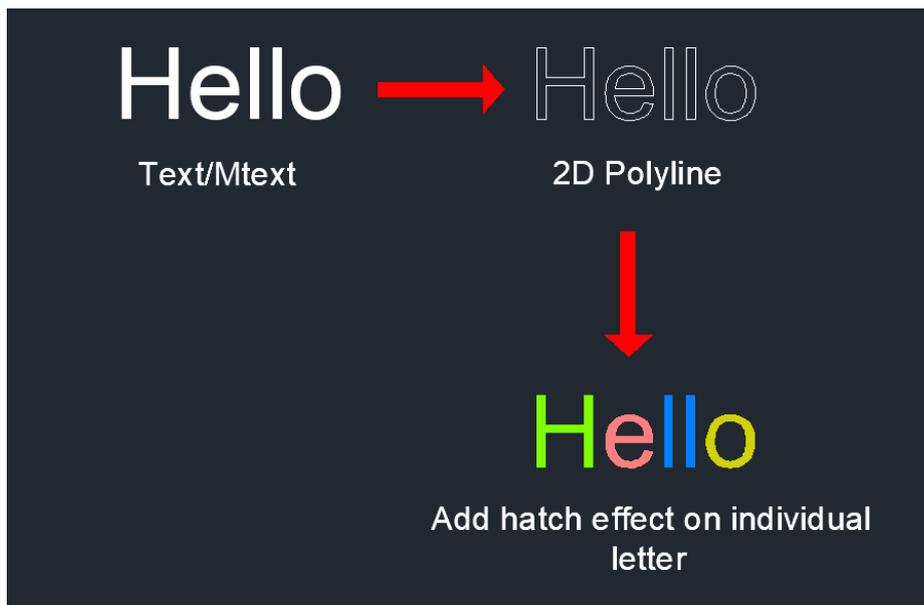


Figure 12. Transforming text/mtext into polylines

In previous ZWCAD versions, this command only worked in the 2D viewport mode. Now, it is available in 3D viewports as well.

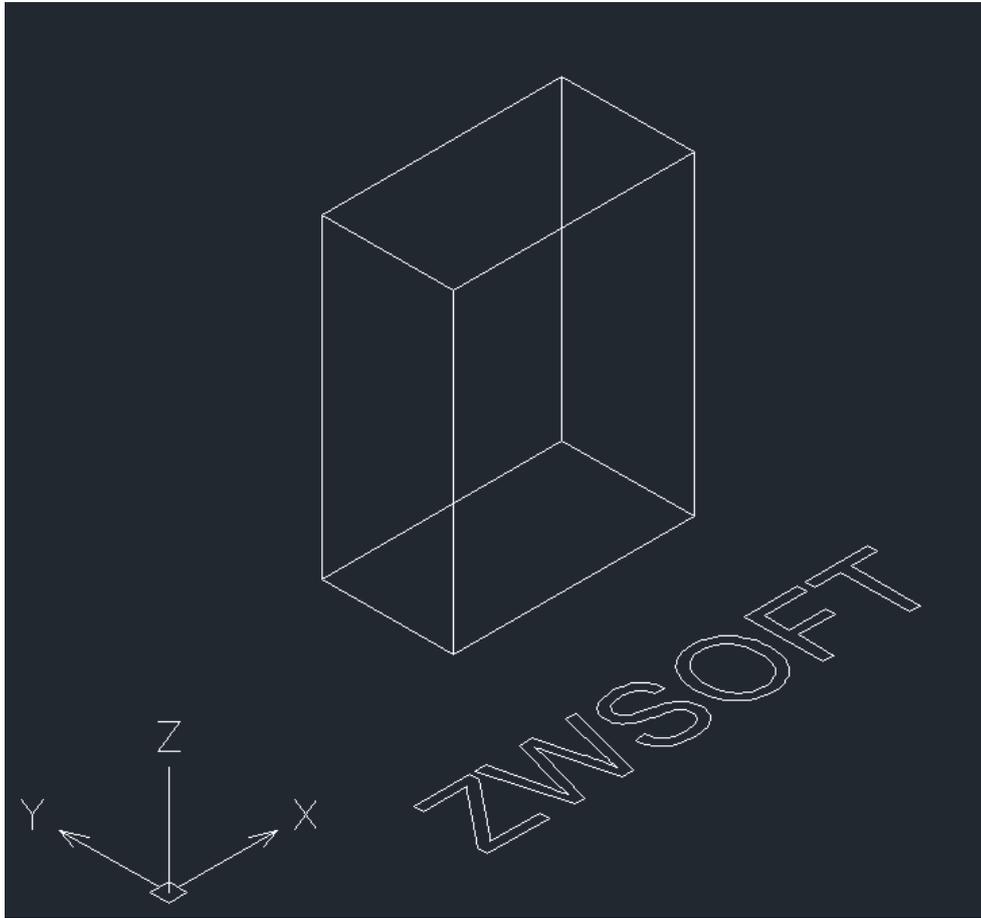


Figure 13. Mtext/Text can be transformed in the 3D viewport mode

Viewport Transparency

We built on the Viewport Layer feature and added “Viewport Transparency” to ZWCAD 2021 SP2. With it, you can set different transparency values for the same object in different viewports as shown below.

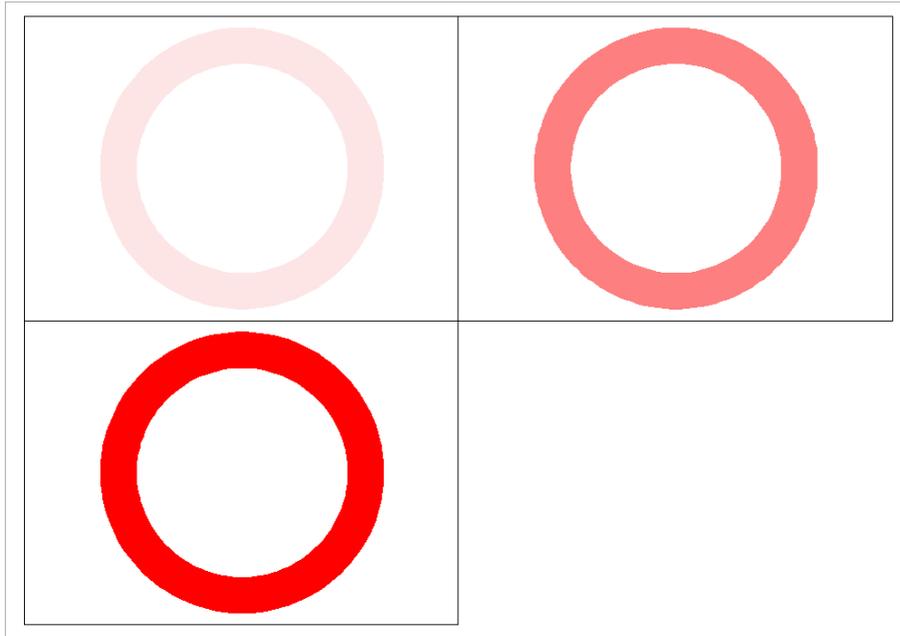


Figure 14. The same object of different transparency values in different viewports

There are 2 methods to set viewport transparency: a) invoke the Layer Properties Manager in a specific viewport and set the transparency value; b) switch to layout and run the “VPLAYER” command, follow the instructions to change the transparency.

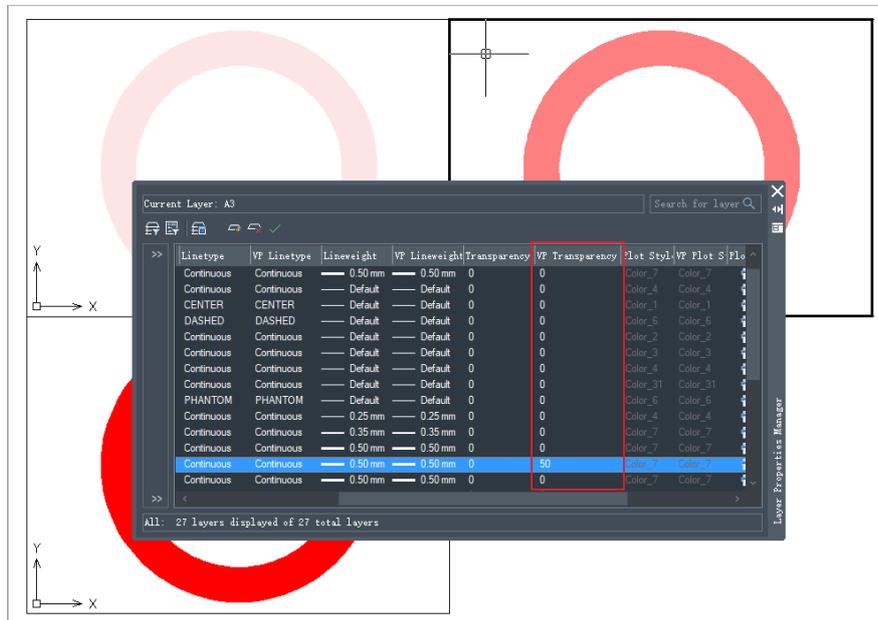


Figure 15. Set viewport transparency value in the Layer Properties Manager

```
Command: VPLAYER
Enter an option [List/Color/LType/LWeight/Transparency/Freeze/Thaw/Reset/removeoverrides/New frozen layers/default visibility settings]: TR
Enter transparency value (0-90): 80
Layer names(s): A2
Specify viewport(s): [All/Select/Current/eXcept current] <Current>:
```

Figure 16. Set viewport transparency value using VPLAYER

Moreover, the transparency of the viewport itself can be adjusted as well. You can see the Transparency option after selecting the viewport and invoking the Properties panel.

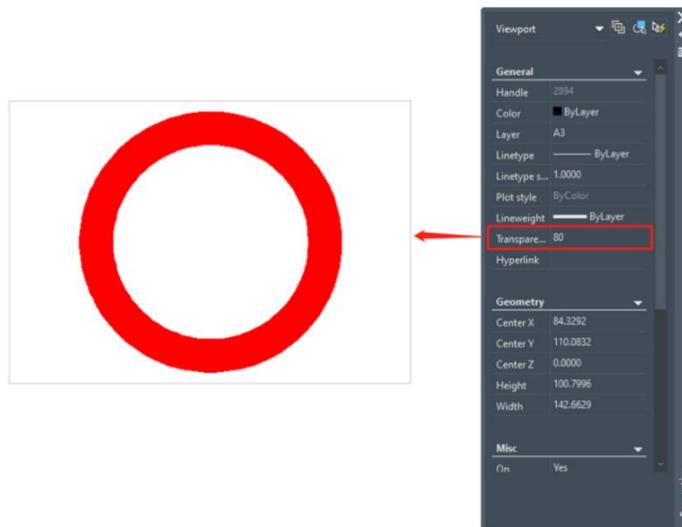


Figure 17. The transparency of the viewport's frame can be adjusted

New Commands & System Variables

New Commands	Description
CHECKSTANDARDS	Invoke the “Check Standards” dialog box.
STANDARDS	Invoke the “Configure Standards” dialog box.
DATALINK	Invoke the “Data Link Manager” dialog box.
DATALINKUPDATE	Update the table data from ZWCAD to Excel or vice versa.
ARRAYCLASSIC	Invoke the classic Array dialog box.
ARRAYRECT	Select an object and create a rectangular array.
ARRAYPATH	Select an object and create a path array.
ARRAYPOLAR	Select an object and create a polar array.
ARRAYEDIT	Modify items or source objects of the associative array.
ARRAYCLOSE	Quit editing the source objects of an associative array with the changes saved or discarded.
-OVERKILL	Use the “Overkill” feature in the command line.
DOSLIB	Load the DOS Library.
DOSLIBHELP	Open the help file for the DOS Library.
DGNMAPPING	Invoke the “DGN Mapping Setups” dialog box.
-DGNIMPORT	Use the “DGN Import” feature in the command line.
PROPULATE	Modify the values of fields in different drawings all at once. Create new types of fields.

New System Variables	Description
ARRAYASSOCIATIVITY	Control whether the array created is associative.
ARRAYEDITSTATE	Display the state of array editing. (Read-Only)
ARRAYTYPE	Indicate the default type when the array is created.
DGNIMPORTMODE	Control the default import mode of the DGNIMPORT command.

DGNMAPPINGPATH	Specify the path used to store the DgnSetups.ini file that is set using the DGNMAPPING command. (Read-Only)
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APIs

The following section describes the condition of APIs in this release.

ZRX

ZRX programs that run correctly on ZWCAD 2021 Official/Update/SP1 can be loaded in ZWCAD 2021 SP2 directly.

4 were added (highlighted in blue) and 36 were fixed as below:

No.	Interface	Modification
1	<code>BOOL AcTcImage::ConvertTo(AcTc::ImageType nToImageType, BOOL bTransparent);</code>	Added
2	<code>Acad::ErrorStatus AcApDocument::downgradeDocOpen(bool bPromptForSave);</code>	Added
3	<code>Acad::ErrorStatus AcApDocument::upgradeDocOpen();</code>	Added
4	<code>Acad::ErrorStatus getVisualStyleList(AcArray<const ACHAR*> & vstyleList);</code>	Added
5	<code>int acedSSGet(const ACHAR * str, const void * pt1, const void * pt2, const struct resbuf * filter, ads_name ss);</code>	Fixed
6	<code>virtual Acad::ErrorStatus AcApDocManager::lockDocument(AcApDocument* pDoc, AcAp::DocLockMode = AcAp::kWrite, const ACHAR* pGlobalCmdName = NULL, const ACHAR* pLocalCmdName = NULL, bool prompt = true) = 0;</code>	Fixed
7	<code>int acedGetKeyword(const ACHAR * prompt, ACHAR * result, size_t nBufLen);</code>	Fixed
8	<code>static Acad::ErrorStatus createFromCurves(const AcDbVoidPtrArray& curveSegments, AcDbVoidPtrArray& regions);</code>	Fixed
9	<code>Acad::ErrorStatus acedVports2VportTableRecords();</code>	Fixed
10	<code>static Acad::ErrorStatus AcDbWipeout::createImageDefinition();</code>	Fixed
11	<code>void AcDbObject::subViewportDraw(AcGiViewportDraw* mode) override;</code>	Fixed
12	<code>virtual void AcDbPlotSettingsValidator::refreshLists(AcDbPlotSettings* pPlotSet) = 0;</code>	Fixed

13	virtual ACDBCORE2D_PORT Acad::ErrorStatus AcDbObjectOverrule::wblockClone(const AcDbObject* pSubject, AcRxObject* pOwnerObject, AcDbObject*& pClonedObject, AcDbIdMapping& idMap, Adesk::Boolean isPrimary = true);	Fixed
14	virtual Adesk::Boolean AcGiGeometry::pline(const AcDbPolyline& lwBuf, Adesk::UInt32 fromIndex = 0, Adesk::UInt32 numSegs = 0) const = 0;	Fixed
15	Acad::ErrorStatus acdbAttachXref(AcDbDatabase* pHostDb, const ACHAR * pFilename, const ACHAR * pBlockName, AcDbObjectId& xrefBlkId);	Fixed
16	ACDBCORE2D_PORT Acad::ErrorStatus AcDbDatabase::readDwgFile(const ACHAR* fileName, OpenMode shmode = kForReadAndReadShare, bool bAllowCPConversion = false, const wchar_t* wszPassword = nullptr);	Fixed
17	ACDBCORE2D_PORT Acad::ErrorStatus accessAcDbObjectForRead(AcDbObject * & pObj, AcDbObjectId id, AcRxClass * (*pfDesc)(), bool & bWasOpened, bool bOpenErased);	Fixed
18	ACDBCORE2D_PORT Acad::ErrorStatus accessAcDbObjectForWrite(AcDbObject * pObj, bool & bWasNotifyEnabled, bool & bWasWriteEnabled, int & readCountClosed, bool openOnLockedLayer);	Fixed
19	int acedSetVar(const ACHAR * sym, const struct resbuf * val);	Fixed
20	int acedDragGen(const ads_name ss, const ACHAR * pmt, int cursor, int (*scnf) (ads_point pt, ads_matrix mt), ads_point p);	Fixed
21	int acedRedraw(const ads_name ent, int mode);	Fixed
22	GE_DLLEXPIMPORT AcGePlane& AcGePlane::set(double a, double b, double c, double d);	Fixed
23	virtual Acad::ErrorStatus AcDbCurve::getDistAtPoint(const AcGePoint3d&, double&) const;	Fixed
24	Acad::ErrorStatus AcDbXrecord::setFromRbChain(const resbuf& pRb, AcDbDatabase* auxDb = NULL);	Fixed
25	GE_DLLEXPIMPORT Adesk::Boolean AcGeCircArc2d::intersectWith(const AcGeCircArc2d& arc,int& intn,AcGePoint2d& p1,AcGePoint2d& p2,const AcGeTol& tol = AcGeContext::gTol) const;	Fixed
26	int acedGetEnv(const ACHAR * sym, ACHAR * var, size_t nBufLen);	Fixed
27	virtual void AcEdSSGetFilter2::ssgetRolloverFilter(const AcDbFullSubentPath & subEntityPath, AcDbFullSubentPath & highlightPath);	Fixed
28	const ACHAR* acdbXlateReservedString(const ACHAR* strSource, bool bGetLocalized = true);	Fixed

29	virtual ADESK_DEPRECATED Acad::ErrorStatus AcEdInputPointFilter::processInputPoint(bool&, AcGePoint3d&, bool&, bool&, ACHAR*&, bool&, AcGiViewportDraw*, AcApDocument*, bool, int, const AcGePoint3d&, const AcGePoint3d&, const AcGePoint3d&, const AcGePoint3d&, const AcGePoint3d&, AcDb::OsnapMask, const AcArray<AcDbCustomOsnapMode*>&, AcDb::OsnapMask, const AcArray<AcDbCustomOsnapMode*>&, const AcArray<AcDbObjectId>&, const AcArray< AcDbObjectIdArray, AcArrayObjectCopyReallocator< AcDbObjectIdArray >>&, const AcArray<Adesk::GsMarker>&, const AcArray<AcDbObjectId>&, const AcArray< AcDbObjectIdArray, AcArrayObjectCopyReallocator< AcDbObjectIdArray >>&, const AcArray<Adesk::GsMarker>&, const AcArray<AcGeCurve3d*>&, const AcGePoint3d&, const ACHAR*);	Fixed
30	virtual ACAD_PORT Acad::ErrorStatus AcEdInputPointMonitor::monitorInputPoint(const AcEdInputPoint& input, AcEdInputPointMonitorResult& output);	Fixed
31	Adesk::Boolean acedSetColorDialog(int& nColor, Adesk::Boolean bAllowMetaColor, int nCurLayerColor);	Fixed
32	DragStatus AcEdJig::drag();	Fixed
33	void acplPublishExecute(AcPIDSDData dsdDataObj, AcPIPlotConfig* pConfig, bool bShowPlotProgress);	Fixed
34	virtual void AcEditorReactor::beginDoubleClick(const AcGePoint3d& clickPoint);	Fixed
35	virtual Acad::ErrorStatus AcDbRasterImageDef::openImage(Atil::Image*& pImage);	Fixed
36	virtual Acad::ErrorStatus AcDbRasterImageDef::closeImage();	Fixed
37	AcGeMatrix3d AcDbBlockReference::blockTransform() const;	Fixed
38	virtual bool AcDbDictionaryIterator::next() = 0;	Fixed
39	AcGeExternalBoundedSurface::AcGeExternalBoundedSurface(void* surfaceDef, AcGe::ExternalEntityKind surfaceKind, Adesk::Boolean makeCopy = Adesk::kTrue);	Fixed
40	Acad::ErrorStatus AcDbHatch::setPattern(AcDbHatch::HatchPatternType patType, const ACHAR* patName);	Fixed

.NET

5 were added (highlighted in blue) and 20 were fixed as below:

No.	Interface	Modification
1	DocumentCollection.CurrentDocument Property	Added
2	DocumentExtension.CapturePreviewImage Method	Added
3	MText.ShowBorders Property	Added
4	RasterImageDef.FileType Property	Added
5	Vertex.Edges Property	Added
6	DrawOrderTable.MoveToBottom Method	Fixed
7	DBObject.HandOverTo Method	Fixed
8	Palette.PaletteSet Property	Fixed
9	DocumentCollection.DocumentActivated Event	Fixed
10	DrawOrderTable.MoveToTop Method	Fixed
11	Curve.GetDistAtPoint Method	Fixed
12	Application.ShowModelessDialog(Form) Method	Fixed
13	RibbonTab Class	Fixed
14	Database.DxfIn Method	Fixed
15	Curve2d.GetClosestPointTo(Curve2d) Method	Fixed
16	Document.Database Property	Fixed
17	DBObject.IsReallyClosing Property	Fixed
18	Editor.GetSelection() Method	Fixed
19	Autodesk.AutoCAD.EditorInput.Jig	Fixed
20	RibbonControl.ActiveTab PropertyVisual Basic	Fixed
21	AcApLayoutManager::setCaptureOnLayoutSwitch Method	Fixed
22	AcDBObjectOverrule::open Method	Fixed
23	Application.DocumentManager Property	Fixed
24	Transaction Methods	Fixed
25	Viewport.NonRectClipEntityId Property	Fixed

VBA

0 was added and 1 was fixed as below:

No.	Interface	Modification
1	SelectionSet.Highlight Method	Fixed

LISP

0 was added and 14 were fixed as below:

No.	Interface	Modification
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1	GRVECS	Fixed
2	VLA-PLOTTODEVICE	Fixed
3	SUBST	Fixed
4	VLAX-DUMP-OBJECT	Fixed
5	VL-VBALOAD	Fixed
6	SSGET	Fixed
7	COMMAND	Fixed
8	VLR-OBJECT-REACTOR	Fixed
9	SSADD	Fixed
10	ENTMAKE	Fixed
11	OSNAP	Fixed
12	ENTGET	Fixed
13	DISTANCE	Fixed
14	LAYERSTATE-RESTORE	Fixed

Bug Fixes

Below are some important bugs that have been fixed. For the complete list, please refer to:

<https://www.dropbox.com/scl/fi/4ad41nnektk6u9khz2r0u/What-s-Fixed-in-ZWCAD-2021-SP2.xlsx?dl=0>

Bug ID	Description
APIs	
SUP-33040	Vla-plottodevice: Unable to plot drawings by physical printers.
Others	
SUP-32075	Shade Plot: Unable to plot selected effect (“As Displayed” or “Shaded”) when using physical printer to print.

Limitations and Notes

Bug ID	Bug Description
ZWCAD-23035	No tooltip appeared when clicking the auto-fill grip.
ZWCAD-23032	Formulas were lost when copying tables that include formulas to AutoCAD®.